



DuPont Pompton Lakes Works
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October 12, 2012

Mr. Anthony Cinque
New Jersey Department of Environmental Protection
Division of Responsible Party Site Remediation
401 East State Street
P.O. Box 028
Trenton, New Jersey 08625-0028

**RE: Wanaque River Technical Status Report
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey
PI #007411**

Dear Mr. Cinque:

Enclosed are one (1) hard copy and one (1) electronic copy of the Wanaque River Technical Status Report. The additional investigations summarized in this report were conducted to supplement the remedial investigations of sediment and surface water that were presented in the revised *Wanaque River Remedial Investigation Report (RIR)* submitted to the New Jersey Department of Environmental Protection (NJDEP) in July 2011.

If you have any questions regarding this submittal please contact me at (973) 492-7703.

Sincerely,

A handwritten signature in black ink, reading "David E. Epps". The signature is written in a cursive, flowing style.

David E. Epps, P.G.
Project Director, Pompton Lakes Works
DuPont Corporate Remediation Group

cc: Clifford Ng, USEPA (1 electronic copy)
PLW File

Wanaque River Investigation Technical Status Report DuPont Pompton Lakes Site Pompton Lakes, New Jersey

October 2012

Project No.: 18985748.00004



URS Corporation

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Table of Contents

1.0	Introduction.....	1
1.1	Objectives	2
2.0	Background.....	3
2.1	Site History	3
2.2	Environmental Setting	3
2.3	Summary of Revised Remedial Investigation Report – July 2011	5
3.0	Supplemental Investigation Activities	7
3.1	Supplemental Sediment Sampling – November/December 2011.....	7
3.1.1	Objectives.....	7
3.1.2	Technical Scope and Approach.....	7
3.1.3	Reliability of Analytical Data.....	8
3.1.4	Investigation Findings	9
3.2	Detailed Substrate Mapping – February 2012	10
3.2.1	Objectives.....	10
3.2.2	Technical Scope and Approach.....	10
3.2.3	Investigation Findings	11
3.3	Sediment and Pore Water Investigation – August 2012	12
3.3.1	Objectives.....	12
3.3.2	Technical Scope and Approach.....	13
3.3.3	Reliability of Analytical Data.....	14
3.3.4	Investigation Findings	15
4.0	Conceptual Site Model Update	18
5.0	Conclusions.....	20
6.0	References.....	21

Tables

Table 1	Summary of Sediment Analytical Results
Table 2	Summary of Sediment Toxicity Characteristic and Leaching Procedure (TCLP) Results
Table 3	Summary of Predominant Substrate Types
Table 4	Summary of Sediment Pore Water Analytical Results

Figures

Figure 1	Site Location Map
Figure 2	Overview of Study Area

Figure 3	Focused Study Area for Supplemental Investigations
Figure 4	Reach 2 Sediment Sampling Stations within the Proposed IRM Area
Figure 5	Reach 2 Sediment and Pore Water Sampling Stations Upstream of the Proposed IRM Area to WR-12
Figure 6	Reach 3 Sediment and Pore Water Sampling Stations Downstream of the Proposed IRM Area to WR-20
Figure 7	Reach 3 Sediment and Pore Water Sampling Stations from WR-20 to WR-22
Figure 8	Reach 1 Sediment and Pore Water Sampling Stations

Appendices

Appendix A	NJDEP-DuPont Correspondence
Appendix B	DuPont Data Review/NJDEP HazSite EDD
Appendix C	Riverbank Substrate and Bank Mapping Protocol

Acronyms

Acronym/Abbreviation	Definition
ACO	Administrative Consent Order
ADQM	Analytical Data Quality Management
amsl	Above mean sea level
BEE	Baseline Ecological Evaluation
BEERA	Bureau of Environmental Evaluation and Risk Assessment
CWQS	Canadian Water Quality Standard
COPEC	Constituent of Potential Ecological Concern
CSM	Conceptual Site Model
DDR	DuPont data review
DERS	DuPont Environmental Remediation Services
DuPont	E.I. du Pont de Nemours and Company
EDD	Electronic data deliverable
EPA	U.S. Environmental Protection Agency
GIS	Geographic information system
GPS	Global positioning system
IRM	Interim remedial measure
MDL	Method detection limit
MeHg	Methylmercury
mg/kg	Milligrams per kilogram
MS	Matrix spike
MSD	Matrix spike duplicate
ng/L	Nanograms per liter
N.J.A.C.	New Jersey Administrative Code
NJDEP	New Jersey Department of Environmental Protection
NJRDCSRS	NJDEP Residential Direct Contact Soil Remediation Standards
NJSWQS	New Jersey Surface Water Quality Standard
NMA	Northern Manufacturing Area
NRWQC	National Recommended Water Quality Criteria
PLW	Pompton Lakes Works
PQL	Practical quantitation limit
RIR	Remedial Investigation Report
RPD	Relative percent difference
SC	Specific conductivity
SEL	Severe effects level
TCLP	Toxicity characteristic leaching procedure
THg	Total mercury
TOC	Total organic carbon
TRSR	New Jersey Technical Requirements for Site Remediation
URS	URS Corporation
USACE	United States Army Corps of Engineers
USGS	U.S. Geological Survey
WMA	Western Manufacturing Area
XRF	X-ray fluorescence

Executive Summary

This technical status report summarizes the key findings of supplemental investigations that have been completed since July 2011 in the Wanaque River (river) near the E.I. du Pont de Nemours and Company (DuPont) Pompton Lakes Works site (site) located in Pompton Lakes, New Jersey (see Figure 1). The additional investigations summarized in this report were conducted to supplement the remedial investigations of sediment and surface water that were presented in the revised *Wanaque River Remedial Investigation Report* (RIR) submitted to the New Jersey Department of Environmental Protection (NJDEP) in July 2011. The overall purpose of the supplemental investigations is to support the development of an interim remedial measure (IRM) work plan to address mercury in river sediments, as recommended in the revised Wanaque River RIR.

Following the submittal of the revised Wanaque River RIR, supplemental investigations were conducted in the Wanaque River to provide additional information to address NJDEP Bureau of Environmental Evaluation and Risk Assessment (BEERA) comments and to support the development of an IRM to address potential exposure to mercury in sediments. The following investigations have been completed in the Wanaque River since July 2011:

- Supplemental sediment sampling – November/December 2011: Additional characterization of surficial sediments was conducted to support the development of an IRM to address mercury in sediments in Reach 2 downstream of WR-16 to the former dam.
- Detailed substrate mapping – February 2012: A detailed substrate mapping and bank survey effort was conducted to identify areas of fine-grained sediment deposits outside of the potential IRM area to support additional characterizations of mercury exposure in sediment.
- Sediment and pore water investigation – August 2012: An investigation was conducted outside of the potential IRM area based on the detailed substrate mapping to further define mercury concentrations in sediment and pore water, and to evaluate potential ecological exposure to mercury.

The findings of investigations conducted in the Wanaque River since July 2011 are consistent with the findings presented in the revised Wanaque River RIR (URS, 2011). The results of these investigations provide additional data to address NJDEP BEERA comments on the RIR and further refine the conceptual site model (CSM). The findings of additional investigations conducted since July 2011 support the following conclusions:

- Total mercury (THg) concentrations in surficial sediments are greatest and spatially variable within the proposed IRM area.
- Fine-grained sediment deposits upstream of WR-16 to WR-13 and downstream of the former dam to WR-22 represent a relatively minor component (approximately 5 to 10%) of the overall available habitat based on the results of the detailed substrate mapping survey.

- Sample results indicate that elevated THg concentrations in sediments sampled between WR-13 and WR-16 are associated with spatially limited fine-grained sediment deposits at the channel margins.
- THg concentrations in sediment below the former dam are substantially lower compared to upstream samples in Reach 2 and are associated with spatially limited fine-grained sediment deposits consistent with backwater areas and obstructions to flow.
- Comparisons of pore water data to aqueous toxicity benchmarks indicate limited potential for adverse direct contact effects to sediment-dwelling receptors in the study area upstream of WR-16 to WR-13 and downstream of the former dam to WR-22.
- The pore water evaluation indicates that the SEL is not likely a reliable threshold for mercury-associated direct contact effects to sediment-dwelling receptors in areas upstream of WR-16 to WR-13 and downstream of the former dam to WR-22; therefore, the SEL is not an appropriate basis for remedial action.

The findings of the supplemental investigations presented in this technical status report will be integrated with findings of previous investigations in the Wanaque River, the Western Manufacturing Area (WMA), and the Northern Manufacturing Area (NMA) to support an IRM work plan, which will define the extent of the remedial measure.

1.0 Introduction

URS Corporation (URS) has prepared this technical status report on behalf of E.I. du Pont de Nemours and Company (DuPont) to present the findings of supplemental remedial investigations conducted in the Wanaque River (river) near the DuPont Pompton Lakes Works (PLW) site (site) located in Pompton Lakes, New Jersey (see Figure 1). The additional investigations summarized in this report were conducted to supplement the remedial investigations of sediment and surface water that were presented in the revised *Wanaque River Remedial Investigation Report* (RIR) submitted to the New Jersey Department of Environmental Protection (NJDEP) in July 2011. The overall purpose of the supplemental investigations is to support the development of an interim remedial measure (IRM) work plan to address mercury in river sediments, as recommended in the revised Wanaque River RIR.

The Wanaque River study area investigated includes three reaches of the river proximate to the site (see Figure 2):

- Reach 1: Extends approximately 2.0 miles from the Raymond Dam, which forms the Wanaque Reservoir, to the upstream site property boundary. This reach is considered representative of regional background conditions.
- Reach 2: Extends approximately 1.5 miles from the upstream site boundary through the site to the location of the former dam that formed Lake Inez.
- Reach 3: Extends approximately 1.3 miles downstream of the former dam that formed Lake Inez.

The revised Wanaque River RIR submitted to the New Jersey Department of Environmental Protection (NJDEP) in July 2011 recommended the implementation of an IRM consistent with NJDEP *Technical Requirements for Site Remediation (TSRS)* (7:26E-1.12) to mitigate potential human health and ecological exposure to mercury in depositional sediments in Reach 2 downstream of WR-16 to the former dam (see Figure 3).

Following a review of the revised Wanaque River RIR, NJDEP Bureau of Environmental Evaluation and Risk Assessment (BEERA) requested additional information to evaluate the overall protectiveness of proposed IRM through a series of correspondence with DuPont, as listed below in chronological order:

- December 13, 2011: NJDEP BEERA provides a comment letter on the July 2011 RIR (see Appendix A).
- January 16, 2012: DuPont responds to the RIR comments in a memorandum to NJDEP BEERA (see Appendix A).
- March 21, 2012: NJDEP BEERA provides comments on the January 16, 2012 response-to-comments memorandum.
- July 2, 2012: DuPont submits the *Wanaque River Sediment and Pore Water Sampling Plan* (URS, 2012), which included the June 29, 2012 responses (see Appendix A) to NJDEP BEERA comments dated March 21, 2012.

This technical status report summarizes the key findings of the RIR and presents the findings of the additional investigations that have been completed since July 2011, including supplemental sediment sampling in November/December 2011, substrate mapping in February 2012, and a sediment and pore water investigation in August 2012.

The document does not conform to a specific report format as specified in the NJDEP *Technical Requirements for Site Remediation*; however, the document includes salient elements of the Remedial Investigation Report, as specified in the New Jersey Administrative Code (N.J.A.C. 7:26E-4.8).

1.1 Objectives

The objectives of the technical status report are as follows:

- Present the findings of investigations conducted in the Wanaque River since the submittal of the revised Wanaque River RIR in July 2011.
- Integrate the findings of the supplemental investigations presented in this report with the previous RIR findings to update the conceptual site model.
- Support the development of an IRM work plan to address mercury in sediments in the Wanaque River.

2.0 Background

The following sections provide a summary of the site history, environmental setting, and remedial investigation of the Wanaque River study area. More detailed background information is provided in the revised Wanaque River RIR (URS, 2011).

2.1 Site History

The PLW site encompasses 570 acres and includes two major drainage areas: the Wanaque River (former Lake Inez) on the west and the Acid Brook on the east. As illustrated in Figure 1, two explosives manufacturing areas were historically located in the Wanaque River valley: Western Manufacturing Area (WMA) and Northern Manufacturing Area (NMA).

Explosives manufacturing operations pre-date the DuPont operating history in the portion of the Wanaque River Valley (former Lake Inez Valley) being addressed in this report. As described in the 1989 CH2MHILL *Operational History, Pompton Lakes Works*, the manufacturing of explosive products in the Wanaque River Valley began in 1894 and ceased in 1926 (CH2MHILL, 1989). Detailed histories of this area are contained in the aforementioned report, as well as the 1994 *Former Operating Area Preliminary Assessment Report* [DuPont Environmental Remediation Services (DERS), 1994].

Remedial investigations and activities have been ongoing at the site since 1988 to address areas potentially impacted by former site operations. As part of the 1988 Administrative Consent Order (ACO) for the PLW site, DuPont was required to investigate surface water leaving the site and sediment near the site boundary. An initial investigation of surface water and sediment in the Wanaque River was conducted in 1990. Since the initial investigation, various IRMs have been completed to address contaminated soils in upland areas of the site adjacent to the river. Remedial investigations of the WMA and NMA are on-going.

2.2 Environmental Setting

The PLW site is located in the boroughs of Pompton Lakes and Wanaque in central Passaic County in northern New Jersey. The PLW site is depicted on the United States Geological Survey (USGS) 7.5-minute Wanaque Quadrangle Map (see Figure 1). The northern portion of the site is located within the New Jersey Highlands Preservation Area; the southern portion of the site and Wanaque River are located within the Highlands Planning Area. The site is bordered to the northeast and east by the Ramapo State Forest (deciduous forest and some deciduous wooded wetlands), to the south by the town of Pompton Lakes (industrial, commercial/services, and residential land use) and Pompton Lake, and to the west and northwest by Twin Lake Valley (commercial/services and residential land use) and the Borough of Wanaque. Interstate 287 (I-287) crosses the northern portion of the site.

Topography in the area is characterized as an incised river valley, with the lowest area of the Wanaque River at approximately 200 feet above mean sea level (amsl). Within the

former WMA and NMA, a broad floodway (500 to 700 feet wide) on either side of the river rises gradually to approximately 214 feet amsl, where it meets bedrock outcroppings (see Figure 1). Bedrock rises abruptly to nearly 400 feet amsl on the eastern and western side of the river. Both the river valley and upland areas are heavily vegetated, with the exception of the areas immediately under the I-287 Bridge that crosses the northern portion of the site.

The Wanaque River (former Lake Inez) originates from the Wanaque Reservoir north of the site and flows south through a valley characterized by steep bedrock slopes along the eastern and western banks (see Figure 1). Valley topography is relatively flat in the immediate vicinity of the river, with the flood plain widening in the northern portion of the valley.

Water flow in the river is controlled approximately one mile upstream of PLW at the Wanaque Reservoir Raymond Dam. Prior to 1984, there was a dam across the Wanaque River, located south of the southern boundary of the site and north of the Wanaque Avenue Bridge (see Figure 3). The dam formed Lake Inez, which inundated low lying areas of the Wanaque River Valley. The United States Army Corps of Engineers (USACE) removed a portion of the dam in 1984, which resulted in the draining of Lake Inez and the return of the Wanaque River to its channel.

Within the project area, the Wanaque River width is variable, ranging from approximately 40 feet wide in the northern portion to 100 feet wide in the section upstream of the former dam. The river is relatively shallow with depths generally less than 2 feet. Reaches 1 and 2, and Reach 3 upstream of Wanaque Avenue, are classified by NJDEP as trout production waters; Reach 3 downstream of Wanaque Avenue is classified as trout maintenance waters (N.J.A.C. 7:9B, last amended April 4, 2011). Approximately 1.5 miles south of the site, the Wanaque River joins with the Pequannock River.

Aquatic habitat in the Wanaque River varies from the Wanaque Reservoir upstream of the site to the confluence of the Pequannock River downstream of the site. Based on the preliminary habitat characterization/substrate mapping conducted during the remedial investigation, Reach 1 and the upper two-thirds of Reach 2 are characterized by riffle/run/pool complexes that are associated with cobble/gravel substrates across most of the channel transect. Fine-grained sediment deposits in the upper portion of Reach 2 are generally limited to the channel margins, particularly in areas where flow is impeded by an obstruction. Flow in the lower third of Reach 2 is reduced by the remnants of the former dam. Within this portion of Reach 2, the channel broadens, water velocity is reduced, and sediment accumulates across the channel resulting in embedded substrates. The area upstream of the former dam represents a zone of sediment deposition, where the most substantial deposits of fine-grained sediments have accumulated. Substrate types in this area range from silt to embedded cobble/gravel.

Downstream of the former dam in Reach 3, the river generally returns to the riffle/run/pool structure observed upstream of the site. Depositional sediment features in Reach 3 are limited to the channel margins and areas where flow is impeded by an obstruction.

2.3 Summary of Revised Remedial Investigation Report – July 2011

The revised Wanaque River RIR presented the findings of multi-phase remedial investigations conducted through July 2011 in the Wanaque River. Surface-water and sediment data were used along with historical investigations conducted in adjacent upland soils in the former NMA and former WMA to develop and refine a CSM for the river. Specific objectives of the RIR were as follows:

- Characterize physical and chemical conditions in the Wanaque River in order to refine the existing CSM for the river.
- Evaluate potential migration pathways of site-related constituents in surface water and sediment to the Wanaque River and actual or potential receptors.
- Determine whether further evaluation or action is warranted within the river.

A multi-phase surface-water and sediment sampling program was implemented in the three river reaches within the study area to establish baseline analytical datasets and habitat information to support future ecological risk evaluations, as warranted. The sediment and surface-water program presented in the RIR was implemented in two phases: Phase I (December 2009) and Phase II (November 2010). Phase I sampling was conducted to provide adequate sediment and surface-water data to characterize baseline conditions in the Wanaque River upstream, adjacent to, and downstream of the site. Based on the Phase I sediment and surface-water results, a Baseline Ecological Evaluation (BEE) was conducted and included in the July 2010 Wanaque River RIR. The findings of the Phase I RI and the BEE were used to focus additional data collection during the Phase II sampling conducted in November 2010 to further refine the CSM and support ecological evaluations.

The results of Phase I and II sediment and surface-water investigations in the Wanaque River supported the following conclusions, as presented in the revised Wanaque River RIR (URS, 2011):

- Given the frequency of detection, frequency of exceedances, and elevated concentrations, mercury is the primary sediment constituent of potential ecological concern (COPEC) in the Wanaque River adjacent to and downstream of the PLW site.
- The primary contaminant transport pathway from former site operations to the Wanaque River is likely historical migration from the adjacent uplands and floodplain. The current conditions of river banks and floodplain/upland areas adjacent to Reach 2 are stable and vegetated, which limits the mobilization of particulate-bound COPECs to the river.
- Surface-water concentrations of filtered and unfiltered total mercury (THg) and other site-related metals are below chronic surface-water criteria for the protection of aquatic life [i.e., New Jersey Surface Water Quality Standard (NJSWQS) and National Recommended Water Quality Criteria (NRWQC)]; therefore, no unacceptable risks to aquatic life are identified for surface-water exposure.
- Mercury concentrations in sediment in the lower portion of Reach 2 (within a zone of sediment deposition downstream of WR-16 to the former dam) increased

in relation to upstream samples within Reach 1 and 2 and then decreased substantially in the spatially limited depositional features downstream of the former dam (Reach 3).

- With the exception of the zone of sediment deposition immediately upstream of the former dam, fine-grained sediment deposits represent a relatively minor component (approximately 5 to 10%) of overall habitat availability in Reaches 2 and 3.

Based on the integrated findings of the Phase I and Phase II investigations in the Wanaque River, the RIR recommended the implementation of an IRM consistent with the *NJDEP Technical Requirements for Site Remediation* (7:26E-1.12) to mitigate potential human and ecological exposure to mercury in depositional sediments in Reach 2 downstream of WR-16 to the former dam. As discussed in Section 1.0, NJDEP BEERA provided comments on the revised Wanaque River RIR and BEE requesting additional information. The following sections present the findings of the supplemental investigations requested by NJDEP BEERA.

3.0 Supplemental Investigation Activities

Following the submittal of the revised Wanaque River RIR, supplemental investigations were conducted in the Wanaque River to provide additional information requested by NJDEP BEERA and to support the development of an IRM to address potential exposure to mercury in sediments, as recommended in the revised Wanaque River RIR. The following sections present the findings of three investigations conducted in the Wanaque River since July 2011:

- Supplemental sediment sampling – November/December 2011
- Detailed substrate mapping – February 2012
- Sediment and pore water investigation – August 2012

3.1 Supplemental Sediment Sampling – November/December 2011

3.1.1 Objectives

Additional characterization of surficial sediments was conducted during two sampling events in November and December 2011 to satisfy the following objectives:

- Further define THg concentrations in sediments to better define the upstream extent of the potential IRM project area.
- Evaluate the potential mobility of metals from sediment using toxicity characteristic leaching procedure (TCLP) to support potential waste characterization and management activities for the proposed IRM.

3.1.2 Technical Scope and Approach

The technical scope and sampling approach for the additional sediment characterization are presented below:

- **November 2011:** THg concentrations in surficial sediments were characterized at 10 stations in Reach 2 upstream of WR-16. Eight stations were oriented as transects between WR-16 and WR-17/WR-17A to provide representative concentrations of fine-grained sediment deposits adjacent to each bank, as well as representative concentrations of fine-grained sediments that have accumulated at the surface of the river bed in the center of the channel (see Figure 4). Two additional center channel sediment samples were collected to characterize mercury concentrations in fine-grained sediments that have accumulated in the center of the river bed adjacent to stations samples at the channel margins in previous sampling events (see Figure 4).
- **December 2011:** Surficial sediment samples were collected and analyzed for THg at 10 stations in December 2011 (see Figure 5). Nine stations were located in transects primarily between existing stations WR-16 and WR-14. In addition, one hand-driven sediment core was collected in the vicinity of existing station WR-18,

and surface and bottom depth intervals were analyzed to provide a vertical characterization of mercury in sediments (see Figure 4). Additional hand-driven cores were attempted at other existing stations within the project area; however, no samples were collected due to core refusal and insufficient sediment recovery.

Surficial sediment samples were collected from stations within the wetted perimeter of the channel using a petite Ponar[®] dredge. Sediment samples were collected from fine-grained deposits, where present, using a sampling method consistent with previous phases of sampling, which was based on general guidance and principles outlined in U.S. Environmental Protection Agency (EPA) *Methods for Collection, Storage and Manipulation of Sediments for Chemical and Toxicological Analyses: Technical Manual* (EPA, 2001) and NJDEP *Guidance for Sediment Quality Evaluations* (NJDEP, 1998). Sediments were analyzed for THg according to EPA Method 7471A; additional sediment analyses included grain size distribution and total organic carbon (TOC). At select locations, samples were analyzed for TCLP metals for potential waste characterization and management purposes.

A sediment core was collected in the vicinity of station WR-18 to vertically characterize sediment THg concentrations in the depositional area behind the former dam. The core was collected using an AMS[®] multi-stage sediment sampler with a 2-inch diameter dedicated butyrate liner. The core was sampled at the 0 to 6-inch and 14- to 18-inch sampling intervals to characterize mercury concentrations at the surface and bottom depth intervals. The positions of each sediment sampling station were recorded in the field using a Trimble GeoXH global positioning system (GPS) unit with sub-foot accuracy.

3.1.3 Reliability of Analytical Data

The DuPont Analytical Data Quality Management (ADQM) Group conducted data validation on the electronic data deliverable using the DuPont data review (DDR) process. This process reviews and evaluates laboratory data including hold time criteria, blank contamination, Matrix Spike/Matrix Spike duplicate (MS/MSD) recoveries, duplicate sample relative percent difference (RPD), and surrogate recoveries. Based on the DDR process, the following qualifiers were assigned to the supplemental sediment data as applicable:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

The results of the DDR data review indicate that the samples were considered useable in consideration of the objectives for the investigations and no significant QC exceptions were noted. Sample results were qualified due to contamination of the method blank and/or when the sample results were detected between the method detection limit (MDL) and practical quantitation limit (PQL). The DDR reports for the November 2011 and December 2011 sampling events are provided in Appendix B. The NJDEP-required HazSite electronic data submittal (EDS) of laboratory results for the supplemental sediment investigations is provided in Appendix B.

3.1.4 Investigation Findings

Sediment samples were collected from 10 stations during the November 2011 supplemental sediment investigation, and an additional 10 stations were sampled during the December 2011 sampling event. A summary of analytical results is presented for both sampling events in Table 1; Figures 4 and 5 present the supplemental sampling results spatially in the context of the results of sediment THg analyses conducted to date as part of the remedial investigation. A summary of findings for the supplemental sediment sampling is provided below by event.

November 2011

The results of the analyses indicate a median THg concentration in surficial sediment samples of 20.4 milligrams per kilogram (mg/kg). THg concentrations in surficial sediments generally ranged between 1.42 to 393 mg/kg, with a maximum concentration of 1,430 mg/kg in the sample collected at station WR-17E (see Table 1 and Figure 4). THg concentrations in surficial sediment were spatially variable within the IRM project area. However, with the exception of WR-17E (1,430 mg/kg), samples with percent fine-grained sediments less than 2% contained THg concentrations less than 20 mg/kg (see Table 1).

Laboratory re-analysis of sediment samples containing the three highest concentrations of THg (WR-17E, WR-16.2B, and WR-16B) indicates that the maximum concentration of 1,430 mg/kg (WR-17E) may be attributed to non-homogeneity of the sediment sample. The re-analysis of sample WR-17E resulted in a THg concentration of 10.3 mg/kg, two orders of magnitude lower than the initial field sample. The RPD between the initial field sample and the re-analyzed sample was 197.1%, greater than the 50% RPD tolerance for data qualification. RPDs calculated for re-analyzed sediment samples at WR-16.2B and WR-16B, were 5.7% and 34.7%, respectively, indicating greater consistency in the re-analysis of these samples when compared to the initial analyses. The re-analysis indicates that the 1,430 mg/kg maximum concentration may not be representative of sediment THg concentrations at station WR-17E.

The results of TCLP analyses on nine sediment samples collected within Reach 2 downstream of WR-16 area do not indicate concentrations exceeding NJDEP regulatory levels (see Table 2) for any metals.

December 2011

Surficial sediment sampling conducted in December 2011 indicate greater THg concentrations in samples collected from finer-grained sediments at the channel margins relative to center channel samples. Total mercury concentrations in surface sediments ranged from 0.0382 to 328 mg/kg, with a median THg concentration of 8.4 mg/kg (see Table 1 and Figure 5). Surficial sediment samples collected at the channel margins contained THg concentrations ranging from 5.5 to 328 mg/kg (median = 12.2 mg/kg) and were characterized by percent fine-grained sediments ranging from 12 to 67%. The maximum THg concentration was collected from a fine-grained deposit along the east bank at station WR-14C (see Figure 5). Samples collected in coarser substrates near the center of the channel contained relatively lower THg concentrations that ranged from 0.038 to 4.22 mg/kg (median = 0.17 mg/kg), with the percent fine-grained sediments in

these samples ranging from <1 to 5% (see Table 1). The maximum concentration of 4.22 mg/kg was reported at station WR-15.4AB, the nearest center channel station to the upstream extent of the potential IRM area. THg concentrations in center channel samples upstream of WR-15.4AB were less than 0.25 mg/kg and decreased with increasing distance upstream (see Figure 5).

Vertical characterization of THg concentrations in sediment was conducted at sampling station WR-18D, located in the fine-grained sediment deposit behind the former dam (see Figure 4). Sediment THg concentrations were 9.75 mg/kg in the surface interval (0 to 6 inches) and 27.5 mg/kg in the bottom interval of the core (14 to 18 inches).

Concentrations at the subsurface core interval were generally consistent with surficial concentrations in adjacent stations within the sediment deposit (see Figure 4).

3.2 Detailed Substrate Mapping – February 2012

In comments on the revised Wanaque River RIR dated December 13, 2011, NJDEP BEERA expressed concern regarding sediment mercury concentrations exceeding the severe effects level (SEL) of 2 mg/kg in depositional areas upstream of the proposed IRM area to WR-13 and downstream of the proposed IRM area to WR-22 (see Figure 3 and Appendix A). The CSM presented in revised Wanaque River RIR indicated that depositional sediments in this area were spatially limited and represented a relatively minor component of the overall habitat available in the river (approximately 5 to 10%). In February 2012, a detailed substrate mapping and bank survey effort was conducted to identify these areas of fine-grained sediment deposits outside of the proposed IRM area between WR-13 and WR-22 to support additional characterization of mercury exposure in sediment.

3.2.1 Objectives

Detailed substrate mapping was conducted in the Wanaque River from WR-16 to WR-13 and downstream from below the former dam to WR-22 to satisfy the following study objectives:

- Create a contiguous geospatial dataset of predominant substrate types to further define the spatial extent of fine-grained sediment deposits.
- Qualitatively assess the condition of river banks to support the CSM regarding potential fate and transport mechanisms.

3.2.2 Technical Scope and Approach

The substrate mapping and bank survey process was conducted in two phases: the preliminary geospatial analysis and the field mapping assessment phase. The preliminary geospatial analysis phase was a desktop assessment of the riverbed study conducted in ESRI ArcGIS (Geographic Information Systems). The geospatial analysis incorporated previous field observations of substrate composition gathered during the Phase I and Phase II remedial investigations and GIS photo-interpretation to create physical characteristic datasets and detailed maps for the field mapping assessment phase. The

field mapping assessment was a comprehensive field-based survey of the riverbed substrate and banks.

Based on the protocol provided in Appendix C, the entire study area was assessed during the field mapping component to identify and document existing riverbed and bank conditions. A high-resolution Trimble® Geo-XH 6000 GPS unit was used to collect the spatial locations of predominant substrate types (> 50% coverage) and bank features. Riverbed substrates were approximately classified into one of six types based on the predominant particle size, as adopted from the Wentworth scale (Leeder, 1982):

Substrate Type	Approximate Particle Size (mm)
1) Silts and Clays	< 0.064
2) Fine Sands	0.064 – 0.25
3) Medium / Coarse Sands and Granules	0.25 – 4.00
4) Pebbles	4.00 – 64
4) Pebble/Cobbles/Boulders	64 – 4096
5) Bedrock	> 4096

Following the collection of riverbed substrate and bank data, mapped data were post-processed and analyzed to determine the spatial extent (i.e., areal coverage) of fine-grained sediment deposits. Spatial data regarding river substrate types and bank condition were integrated into a GIS platform for further analysis.

3.2.3 Investigation Findings

The findings of the detailed substrate mapping survey support the CSM as presented in the revised Wanaque River RIR, which indicates that fine-grained sediment deposits represent a relatively minor component of overall habitat availability from WR-16 to WR-13 and below the former dam to WR-22. Figure 5 illustrates the delineation of substrate types for the area upstream of WR-16 to WR-12. Figure 6 presents substrate mapping from the upper boundary of Reach 3 to below WR-20; Figure 7 illustrates the delineation of substrates in the lower portion of Reach 3 to the downstream end of Wilderness Island below WR-22.

As indicated in the summary of substrate type presented in Table 3, fine-grained sediment deposits represent only a minor component the available habitat within the mapped area. Fine-grained sediments, defined as silts and clays (<0.064 mm particle size), comprise only 5% of the mapped area, with substrates predominated by fine sands representing an additional 5% of the available benthic habitat. Over 83% of the mapped area was predominantly coarse substrates with particle sizes greater than 4 mm (see Table 3). These findings are consistent with previous estimates of the relative composition of fine-grained substrates within the study area (approximately 5 to 10%) presented in the revised Wanaque River RIR. The geospatial datasets generated by the detailed substrate mapping survey provide sufficient resolution to support additional characterization of mercury in fine-grained sediment deposits outside of the potential IIRM area.

The bank survey indicates relatively stable bank conditions with vegetated adjacent floodplains in Reach 2, in comparison to Reach 3. Limited areas of bank erosion were

identified in Reach 2, particularly adjacent to station WR-13 and between WR-15 and WR-15.2C. Additional areas of bank stabilization using rip rap were identified, particularly in the vicinity of the pump house. The bank survey in Reach 3 indicated greater areas of bank modification via rip rap and instability, particularly in the upper portion of Reach 3 adjacent to station WR-19.6A.

3.3 Sediment and Pore Water Investigation – August 2012

Additional investigations were conducted in August 2012 in accordance with the NJDEP-approved *Wanaque River Investigation Sediment and Pore Water Sampling Plan* (URS, 2012) to further address NJDEP BEERA concerns regarding ecological exposure in spatially-limited fine-grained sediments outside of the potential IRM area between WR-13 and WR-22 (see Section 3.2). The findings of the detailed substrate mapping effort described in the preceding section were used to identify fine-grained sediment depositional areas for further characterization of sediment mercury concentrations.

A targeted pore water sampling program was conducted to evaluate potential ecological exposure in areas outside of the potential IRM area. The pore water investigation was conducted to address NJDEP BEERA concerns regarding potential adverse ecological effects associated with THg concentrations exceeding the SEL of 2 mg/kg. As stated in previous response to comments, the SEL is a general screening benchmark derived as a threshold of effects for sediment-dwelling ecological receptors in a broad range of sediment environments (see response to comment letter dated January 16, 2012 in Appendix A). As a result, it was recommended that the need for remedial action be based on a weight-of-evidence evaluation of potential site-specific exposure rather than the generic SEL. Pore water sampling in August 2012 provided data to support an important site-specific line-of-evidence to evaluate potential exposure to sediment-dwelling ecological receptors.

3.3.1 Objectives

Additional sediment sampling was conducted in August 2012 to further define mercury concentrations in fine-grained sediment deposits identified in areas outside of the proposed IRM project area during the February 2012 substrate mapping survey. The specific data objectives of the sediment investigation were as follows:

- Characterize THg concentrations and physical parameters of surficial sediments from select fine-grained sediment deposits from WR-16 to WR-13 and below the former dam to WR-22 (see Figure 3).
- Vertically characterize THg concentrations and physical parameters in the mapped sediment deposit at WR-21.

Concentrations of THg and methylmercury (MeHg) in pore water were characterized to evaluate potential ecological exposure in the two primary habitat types present in the river: fine-grained sediment deposits observed the channel margins and cobble/pebble habitats that represent the predominant benthic habitat type.

The specific data objectives of the pore water investigation were as follows:

- Characterize mercury concentrations in pore water from Reach 1, upstream of the property boundary to establish reference pore water mercury concentrations.
- Evaluate potential ecological exposure to THg and MeHg in sediment pore water from fine-grained sediment habitats and coarser-grained sediment (e.g., cobble/pebble) habitats within the channel.
- Qualitatively assess MeHg production in fine-grained sediment habitats relative to cobble/pebble habitats within the channel based on a weight-of-evidence evaluation of available information (e.g., analytical data, *in situ* parameters, and physical habitat features).

3.3.2 Technical Scope and Approach

The study design for the August 2012 sediment and pore water investigation was based on the results of previous investigations and the findings of the detailed substrate mapping survey. The study design and sample selection are summarized below by reach, with additional detail provided in the Sampling Report (URS, 2012):

- **Reach 1:** Four pore water samples representing both substrate types were collected in Reach 1 to provide representative pore water data from the reference reach upstream of the site boundary (see Figure 8). Existing sediment data were available to provide representative reference data for Reach 1; therefore, no additional sediment sampling was conducted.
- **Reach 2:** Six additional sediment samples and 11 pore water samples were collected from fine-grained sediment deposits observed along the channel margins in Reach 2 between WR-13 and WR-16 (see Figure 5).

Eight of 11 pore water samples in Reach 2 were co-located with sediment mercury transects from previous sampling events conducted in 2010 and 2011 (see Figure 5). These stations were selected to characterize pore water mercury conditions within fine-grained sediment, as well as in coarser cobble/pebble substrates located in the center of the channel. The remaining three pore water samples were spatially and temporally paired with sediment samples collected from fine-grained sediment deposits at the channel margins.

- **Reach 3:** Eight additional surficial sediment samples and six pore water samples were collected from Reach 3 from WR-19 downstream to WR-22 (see Figure 6 and Figure 7). Seven of eight proposed sediment samples targeted fine-grained sediment deposits observed along the channel margins and one sample targeted fine sand substrates adjacent to a fine-grained deposit.

Three of eight sediment stations in Reach 3 were in the vicinity of existing station WR-21 upstream of Wilderness Island on the north bank in the relatively large, fine-grained deposit delineated in this area during substrate mapping (see Figure 7). An additional surficial sample was proposed in this deposit, but was not collected; the proposed station was located outside of the wetted channel

perimeter at the time of sampling. In addition to surficial samples, a sediment core was collected from proposed sample WR-21B to vertically characterize mercury concentrations and physical sediment parameters (see Figure 7).

Two of six pore water samples collected in Reach 3 (WR-19 and WR-20) were co-located with sediment mercury transects from previous sampling events in 2010 and 2011; the remaining four pore water samples were spatially and temporally paired with sediment samples collected during the August 2012 field event. These locations were selected to characterize pore water mercury concentrations in substrates ranging from cobble/pebble to fine sand to fine-grained sediment deposits.

Consistent with previous sampling events and relevant guidance, surficial sediment samples for chemical analysis were collected within the wetted channel using a petite Ponar (URS, 2012; EPA, 2001; NJDEP, 1998). Surficial sediment samples were analyzed for THg (EPA Method 7471A), TOC, and grain size.

In addition to surficial sediment sampling, mercury concentrations and physical sediment parameters were characterized vertically in the fine-grained sediment deposit located near station WR-21 in Reach 3 (see Figure 7). An undisturbed sediment core was collected using an AMS multi-stage sediment sampler with a dedicated butyrate liner. Sediment sampling intervals were identified in the field based on visual stratigraphy and field-screening with a hand-held x-ray fluorescence (XRF) analyzer. The core was sectioned and samples were collected from three intervals: 0 to 6, 6 to 12, and 12 to 18 inches. Core samples were analyzed for THg (EPA Method 7471A), TOC, and grain size.

Pore water samples were collected by suction using a PushPoint sampler (i.e., Henry Probe) in accordance with the Sampling Plan (URS, 2012). The PushPoint was inserted into the sediments until the screened portion of the sampler was 2 to 3 inches below the sediment-surface water interface; the sample was slowly extracted from the sediments by syringe. The extracted pore water sample was field-filtered using a 0.45 μm filter and analyzed for THg and MeHg using EPA Method 1631 and 1630, respectively. Temperature and specific conductivity (SC) were measured *in situ* in unfiltered pore water and surface-water samples using a Myron 6P meter for field validation of whether overlying surface water was drawn into the pore water sample. Consistent with the Sampling Plan (URS, 2012), professional judgment based on measurements of temperature and SC in pore water and overlying surface water, as well as the position of the PushPoint sampler in the sediment (i.e., depth of the screen), were used to determine whether an extracted pore water sample was representative of exposure conditions for sediment-dwelling ecological receptors.

3.3.3 Reliability of Analytical Data

The DuPont ADQM Group conducted data validation on the electronic data deliverable using the DDR as described in Section 3.1.3. The DDR reports for the sediment and pore water investigation are provided in Appendix B. The NJDEP-required HazSite EDS of laboratory results for the August 2012 sediment and pore water investigations is provided in Appendix B.

The results of the DDR data review indicate that the samples were considered useable in consideration of the objectives for the investigations and no significant QC exceptions were noted. Sample results were qualified due to contamination of the method blank and/or when the sample results were detected between the MDL and PQL.

3.3.4 Investigation Findings

The following sections present the findings of sediment and pore water investigations conducted in August 2012 to further define mercury concentrations in sediment and pore water to evaluate potential ecological exposure to mercury in the Wanaque River. The findings are summarized by media type.

Sediment

Surficial sediment sampling conducted in August 2012 further defined THg concentrations in sediment depositional areas and supported the findings of previous sampling efforts. In Reach 2 upstream of WR-16, THg concentrations in surficial samples collected in the fine-grained deposits mapped in February 2012 ranged from 1.97 to 330 mg/kg, with a median concentration of 8.85 mg/kg (see Table 1 and Figure 5); consistent with previous sampling events, sediments in the depositional areas contained fine-grained sediments ranging from 13 to 47%. The maximum THg concentration of 330 mg/kg was measured in a fine-grained deposit located on the east bank at station WR-14.2C (see Figure 5). This result was consistent with the THg concentration of 328 mg/kg previously measured in surficial sediments at station WR-14C, which is within a same contiguous sediment deposit along the east bank (see Figure 5). These samples represent the greatest THg concentrations in sediments upstream of the potential IRM area.

Consistent with previous investigations, THg concentrations in surficial sediment samples collected from Reach 3 were generally lower than Reach 2. Sampling during the August 2012 event, targeted the limited areas of sediment deposition identified in Reach 3. THg concentrations in surficial sediment in these deposits ranged from 2.68 to 23 mg/kg (see Table 1 and Figures 6 and 7). The maximum concentration of 23 mg/kg was measured in a sample collected from station WR-19.1C located in a mapped deposit in a backwater area downstream of the former dam (see Figure 6). The sample from WR-19C, which was collected from within the same deposit, was lower (8.85 mg/kg) indicating potential heterogeneity in THg concentrations within the deposit.

Samples collected to characterize mercury in the sediment deposit in the vicinity of station WR-21 indicate consistent THg concentrations in fine-grained surficial sediments. Surficial samples collected the fine-grained deposit in August 2012 were 7.37 and 9.11 mg/kg, which is consistent with the Phase I sample of 10.3 mg/kg. Concentrations in subsurface samples measured in the core collected at WR-21B were substantially lower in the 6- to 12-inch and 12- to 18-inch intervals, with concentrations of 0.33 and 1.65 mg/kg, respectively (see Table 1 and Figure 7). The surficial THg concentration (2.68 mg/kg) at station WR-21C located in fine sand substrates bordering the fine-grained deposit was lower than what was measured in the deposit.

THg concentrations measured in the mapped sediment deposit on the downstream side of Wilderness Island were consistent with previous sampling. Samples collected from the

deposit in 2012 were 2.84 and 7.52 mg/kg, which is consistent with the Phase I result of 4.06 mg/kg (see Figure 7).

Pore Water

Concentrations of THg and MeHg in pore water samples collected from Reaches 2 and 3 were greater than concentrations in Reach 1 (see Table 4); however, pore water concentrations of THg and MeHg were lower than concentrations associated with adverse effects to sediment-dwelling receptors. As illustrated in Table 4, concentrations of THg in Reach 1 pore water samples ranged from 0.96 to 2.64 nanograms per liter (ng/L); MeHg concentrations in pore water samples from Reach 1 ranged from <0.023 to 0.048 ng/L. Pore water samples collected in Reach 2 contained THg concentrations generally ranging from 9.6 ng/L to 437 ng/L (median = 22.1 ng/L), with an outlying sample containing 5,570 ng/L (WR-14B); MeHg concentrations in pore water samples in Reach 2 ranged from 0.055 ng/L to 2.75 ng/L, with a median concentration of 0.428 ng/L.

It is uncertain whether the maximum THg concentration measured in pore water at WR-14B is a representative concentration or a function of a sampling artifact. The maximum concentration of THg in pore water measured at WR-14B, located in the center of the channel in a location with relatively low concentrations of sediment THg (0.0382 mg/kg), was an order of magnitude greater than the next highest concentration of THg in pore water. Samples collected near the east and west banks on either side of WR-14B contained THg concentrations in pore water that were one and two orders of magnitude lower the concentration measured at WR-14B (see Figure 5). Given the low sediment concentrations at WR-14B and the substantially lower concentrations in pore water samples collected at the adjacent channel margins, it is likely that the maximum result represents a sampling and/or analytical anomaly. Further evaluation of this result is currently being conducted by the analytical laboratory.

Pore water concentrations in Reach 3 were lower than concentrations observed in Reach 2, ranging from 1.08 to 44.5 ng/L for THg and from <0.025 – 9.22 for MeHg (see Table 4). A qualitative comparison of MeHg concentrations in pore water from fine-grained sediment habitats and cobble/pebble habitats, indicated high variability and no distinct spatial trends based on habitat type.

Pore water data were evaluated relative to aqueous toxicity benchmarks for THg and MeHg to evaluate the potential for adverse ecological effects associated with direct contact to sediment dwelling receptors. Filtered pore water results were initially evaluated relative to conservative surface water quality standards for THg and MeHg established for the general protection of aquatic life:

- THg: 770 ng/L – NJSWQS
- MeHg: 4 ng/L – Canadian Water Quality Guideline (CWQS; CCME, 2003)

For pore water samples containing concentrations exceeding conservative surface-water quality standards, measured concentrations were further evaluated relative to literature-derived aqueous toxicity values that are specifically relevant to benthic invertebrate test organisms.

The following presents a summary of the pore water data in comparison to these benchmarks:

- Seventeen of 18 pore water samples contained THg concentrations less than the NJSWQS of 770 ng/L (see Table 4).
- The maximum concentration of THg in pore water of 5,570 ng/L measured at station WR-14B in Reach 2 exceeded the NJSWQS but was lower than the lowest effects threshold of 8,000 ng/L reported for reduced growth in benthic invertebrate test organism from available literature-derived aqueous toxicity tests (Azevedo-Pereira and Soares, 2010; Chibunda, 2009; Valenti, et al., 2005).
- Measured concentrations of MeHg in pore water were lower than the CWQS of 4 ng/L in 17 of 18 samples; however, the maximum concentration of MeHg of 9.22 ng/L was lower than the lowest effects concentrations of 40 ng/L used as the basis for the CWQS (CCME, 2003).

These findings indicate that direct contact exposure to THg or MeHg is not likely to result in adverse effects to sediment-dwelling ecological receptors; however, the bioaccumulative effects of mercury on aquatic and semi-aquatic receptors were not evaluated. The findings indicate limited potential for adverse effects to sediment-dwelling receptors in sediments containing THg concentrations exceeding the SEL.

4.0 Conceptual Site Model Update

The findings of the investigations conducted in the Wanaque River since July 2011 support and further refine the CSM presented in the revised Wanaque River RIR (URS, 2011). The CSM indicates that the primary contaminant transport pathway from former site operations to the Wanaque River is likely historical migration from the adjacent uplands and floodplain. The relatively stable condition of the banks and vegetated adjacent floodplains that currently exist in Reach 2 suggests that the accumulation of particulate-bound COPECs, particularly mercury, in Reach 2 upstream of the former dam was predominately associated with historical migration pathways during a period of less soil stability.

When introduced to the river, particulate-bound COPECs were deposited primarily in the area of low water velocity created by the former dam and along channel margins. Elevated concentrations of COPECs observed in sediment between sampling station WR-16, and the remnants of the former dam are likely attributed to the accumulation of these historically-released fine-grained sediments upstream of the former dam. This fine-grained deposit represents the area of greatest potential ecological exposure due to the elevated concentrations of COPECs and the potential for mercury methylation. Upstream of WR-16, areas of elevated sediment THg concentrations were associated with fine-grained sediment deposits at the channel margins. Mercury concentrations in sediment downstream of WR-16 to the former dam and in some sediment deposits along channel margins upstream of WR-16 exceeded the New Jersey Residential Direct Contact Soil Remediation Standard (NJRDSCR) of 23 mg/kg.

Downstream of the former dam in Reach 3, sediment depositional features are limited as the river returns to the riffle/run/pool structure observed upstream of the site. As illustrated by the results of the detailed mapping survey, fine-grained sediment deposits in this reach are generally limited to the channel margins and areas downstream of obstructions. Consistent with the change in sediment depositional patterns, concentrations of COPECs in sediments decrease substantially relative to concentrations observed immediately upstream of the former dam; this decrease in sediment COPEC concentrations results in reduced ecological exposure relative to the fine-grained sediment deposit upstream of the former dam. No sediment samples collected downstream of the former dam contained mercury concentrations exceeding the NJRDSCR.

Direct contact exposure to mercury in surface water and sediment is not likely to result in adverse effects to ecological receptors. Multi-phase surface-water investigations summarized in the revised Wanaque River RIR did not indicate unacceptable risks to aquatic life based on exposure to THg or MeHg in surface water. Pore water data collected outside of the potential IRM area in sediments containing THg concentrations exceeding the SEL, indicate that direct contact exposure to THg or MeHg is not likely to result in adverse effects to sediment-dwelling ecological receptors. These findings indicate that direct contact exposure to mercury outside of the potential IRM area is not likely to result in adverse ecological effects; however, the bioaccumulative effects of mercury on aquatic and semi-aquatic receptors were not evaluated.

Additional investigations are on-going in the WMA to evaluate the potential migration of impacted shallow groundwater to the Wanaque River. The findings of additional groundwater investigations currently being conducted in the WMA will be integrated with existing surface water, sediment, and pore water data presented in the revised Wanaque River RIR and this technical status report to evaluate potential groundwater to surface-water migration pathways. The findings of additional groundwater investigations and the evaluation of potential groundwater to surface-water migration pathways will be presented in a supplemental RIR report that will be submitted to NJDEP in November 2012.

5.0 Conclusions

The findings of investigations conducted in the Wanaque River since July 2011 are consistent with the findings presented in the revised Wanaque River RIR (URS, 2011). The results of these investigations provide additional data to address NJDEP BEERA comments on the RIR and further refine the CSM. The findings of additional investigations conducted since July 2011 support the following conclusions:

- THg concentrations in surficial sediments are greatest and spatially variable within the proposed IRM area.
- Fine-grained sediment deposits upstream of WR-16 to WR-13 and downstream of the former dam to WR-22 represent a relatively minor component (approximately 5 to 10%) of the overall available habitat based on the results of the detailed substrate mapping survey.
- Sample results indicate that elevated THg concentrations in sediments sampled between WR-13 and WR-16 are associated with spatially limited fine-grained sediment deposits at the channel margins.
- THg concentrations in sediment below the former dam are substantially lower compared to upstream samples in Reach 2 and are associated with spatially limited fine-grained sediment deposits consistent with backwater areas and obstructions to flow.
- Comparisons of pore water data to aqueous toxicity benchmarks indicate limited potential for adverse direct contact effects to sediment-dwelling receptors in the study area upstream of WR-16 to WR-13 and downstream of the former dam to WR-22.
- The pore water evaluation indicates that the SEL is not likely a reliable threshold for mercury-associated, direct contact effects to sediment-dwelling receptors in areas upstream of WR-16 to WR-13 and downstream of the former dam to WR-22; therefore, the SEL is not an appropriate basis for remedial action.

The findings of the supplemental investigations presented in this technical status report will be integrated with findings of previous investigations in the Wanaque River, the WMA, and the NMA to support an IRM work plan, which will define the extent of the remedial measure.

6.0 References

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Tables

Table 1
Summary of Sediment Analytical Results
Wanaque River Investigation Technical Status Report
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey

Location Within Channel	Station	Sample Date	Sample Interval (in)	Sample Type	Mercury (mg/kg)	TOC (%)	Percent Fines (%)	Percent Moisture (%)
November 2011 Supplemental Sediment Sampling								
Center	WR-16.2-B	11/9/2011	0-6	FS	393	0.384	34	49.7
				RA	416	NS	NS	NS
	WR-16.4-B	11/9/2011	0-6	FS	12.4	0.0289 J	1	21.6
	WR-17-D	11/9/2011	0-6	FS	1.48	0.0207 J	1.5	22.1
	WR-17-E	11/9/2011	0-6	FS	1430	0.0919	2	19.8
				RA	10.3	NS	NS	NS
	WR-18-C	11/10/2011	0-6	FS	10.7	0.112	1	19.9
				DUP	23.7	0.116	1	20.1
Margin	WR-16-B	11/9/2011	0-6	FS	132	1.59	39	37.1
				RA	92.9	NS	NS	NS
	WR-16.2-A	11/9/2011	0-6	FS	43.3	3.81	54	65.1
	WR-16.2-C	11/9/2011	0-6	FS	17	0.0332 J	0.5 J	17.9
	WR-16.4-A	11/9/2011	0-6	FS	8.99	1.74	2	27.9
	WR-16.4-C	11/9/2011	0-6	FS	12.4	0.133	0.5 J	21.3
December 2011 Supplemental Sediment Sampling								
Center	WR-14B	12/15/2011	0-6	FS	0.0382 J	<0.0108	<0.5	7.2
	WR-15B	12/15/2011	0-6	FS	0.0949 J	<0.0124	<0.5	19.3
	WR-15.2B	12/15/2011	0-6	FS	0.243 J	<0.0128	<0.5	22.1
	WR-15.4A-B	12/15/2011	0-6	FS	4.22 J	0.472	5	23.1
Margin	WR-14C	12/15/2011	0-6	FS	328 J	0.951	31	43.9
	WR-15A	12/15/2011	0-6	FS	5.65 J	2.02	17	46.9
				DUP	7.05 J	2.58	17	46.8
	WR-15.2A	12/15/2011	0-6	FS	12 J	2.01	33	45.7
	WR-15.2C	12/15/2011	0-6	FS	12.4 J	1.4	13	44.6
	WR-18D	12/15/2011	0-6	FS	9.75 J	1.94	67	54.9
			14-18	FS	27.5 J	NS	NS	55.9
	WR-15.4C	12/15/2011	0-6	FS	16.7 J	0.843	12	32.6
August 2012 Sediment and Pore Water Investigation								
Margin	WR-13.1C	8/6/2012	0-6	FS	1.97	2.47	45	56
	WR-13.2C	8/6/2012	0-6	FS	26.6	0.967	47	54.8
	WR-13.8C	8/6/2012	0-6	FS	43.9	1.66	31	53.3
	WR-14.2C	8/6/2012	0-6	FS	330	0.384	13	38.4
	WR-14.8A	8/6/2012	0-6	FS	22.3	3.47	31	63.3
	WR-15.3A	8/6/2012	0-6	FS	35.6	2.48	31	56.5
				DUP	11.4	1.89	NS	55.9
	WR-19.1C	8/6/2012	0-6	FS	23	1.73	22	49.9
	WR-19.6A	8/8/2012	0-6	FS	5.12	0.626	3	26.9
	WR-19C	8/6/2012	0-6	FS	8.85	1.97	18	48.3
	WR-21.1A	8/8/2012	0-6	FS	9.11	1.22	14	40.7
	WR-21B	8/8/2012	0-6	FS	7.37	1.42	NS	39.2
			6-12	FS	0.334	0.22	3.5	20.9
			12-18	FS	1.65	1.58	14	42.6
	WR-21C	8/8/2012	0-6	FS	2.68	0.462	11	39.5
	WR-22.1C	8/9/2012	0-6	FS	7.52	0.814	1.5	37.3
	WR-22C	8/9/2012	0-6	FS	2.84	0.308	3	25.6

Notes:

J, Analyte present. Reported value may not be accurate or precise.

NS, Sample not analyzed.

FS, Field sample

DUP, Duplicate sample

RA, Laboratory re-analysis of a field sample

Table 2
Summary of Sediment Toxicity Characteristic and Leaching Procedure (TCLP) Results
Wanaque River Investigation Technical Status Report
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey

Analyte	Regulatory Level ¹ (µg/L)	Station	WR16.2-B	WR16-B	WR16TCLP	WR17ATCLP	WR17BTCLP	WR17CTCLP	WR17-E	WR17TCLP	WR18TCLP
		Date	11/9/2011	11/9/2011	11/9/2011	11/9/2011	11/10/2011	11/10/2011	11/9/2011	11/9/2011	11/10/2011
		Interval (in)	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6
Arsenic	5,000		55.4	6.9 J	<5.1	<5.1	176	164	<5.1	144	102
Barium	100,000		316	634	194	170	623	464	179	517	452
Cadmium	1,000		6.2	1.7 J	0.78 B	0.7 B	4.6 J	1.7 B	<0.27	2.3 J	2.3 J
Chromium	5,000		2.7 J	2.6 J	1.8 J	<1.1	2.9 J	3.2 J	<1.1	3.8 J	3.5 J
Lead	5,000		672	76	3 J	26.3	644	212	5.2 J	335	715
Selenium	1,000		<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9
Silver	5,000		<0.91 UJ	<0.91 UJ	<0.91	<0.91	1 J	<0.91	<0.91 UJ	<0.91	<0.91
Mercury	200		0.073 J	<0.026 R	0.068 B	123	0.13 B	2.6	8.4 J	0.15 B	0.073 B

Notes:

1, NJDEP Waste Classification Request Form & Instructions (HWM-009; revised 11/23/10)

B, Not detected substantially above the level reported in the laboratory or field blanks

UJ, Not detected. Reporting limit may not be accurate or precise.

J, Analyte present. Reported value may not be accurate or precise.

Table 3
Summary of Predominant Substrate Types
Wanaque River Investigation Technical Status Report
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey

Substrate Type	Sediment Area (acres)	Percentage of Mapped Area (%)
1) Silts and Clays	0.66	5%
2) Fine Sands	0.66	5%
3) Medium / Coarse Sands and Granules	0.99	7%
4) Pebbles	4.31	31%
4) Pebble/Cobbles/Boulders	7.07	52%
5) Bedrock	0.02	<1%

Table 4
Summary of Sediment Pore Water Analytical Results
Wanaque River Investigation Technical Status Report
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey

Station	Date Sampled	Sample Type	Total Mercury (ng/L)	Methylmercury (ng/L)
Reach 1				
WR-07	8/7/2012	FS	0.96 B	<0.023
WR-07.1B	8/7/2012	FS	1.29 B	<0.024
WR-08	8/7/2012	FS	1.49 B	0.048 J
WR-08.1B	8/7/2012	FS	2.64 B	0.038 J
Reach 2				
WR-13.1C	8/7/2012	FS	9.75 B	0.425
WR-14	8/7/2012	FS	21.4 B	1.15
WR-14.8A	8/7/2012	FS	11.1 B	2.75
WR-14B	8/7/2012	FS	5,570	0.427
WR-14C	8/7/2012	FS	272	0.387
WR-15.2A	8/7/2012	FS	12.3 B	0.437
WR-15.2B	8/7/2012	FS	31.3	0.428
WR-15.2C	8/7/2012	FS	10.1 B	0.201
WR-15.3A	8/7/2012	FS	22.8 B	0.533
WR-15.4A-B	8/7/2012	FS	437	0.055 J
WR-15.4C	8/7/2012	FS	9.66 B	0.592
		DUP	23.6	0.415
Reach 3				
WR-19	8/8/2012	FS	44.5	9.22
WR-19C	8/8/2012	FS	7.05 B	1.85
WR-20	8/8/2012	FS	1.08 B	<0.025
WR-21B	8/8/2012	FS	2.38 B	0.13
WR-21C	8/8/2012	FS	1.4 B	0.197
WR-22C	8/8/2012	FS	25.9	0.749

Notes:

B, Not detected substantially above the level reported in the laboratory or field blanks

J, Analyte present. Reported value may not be accurate or precise.

NS, Sample not analyzed.

FS, Field sample

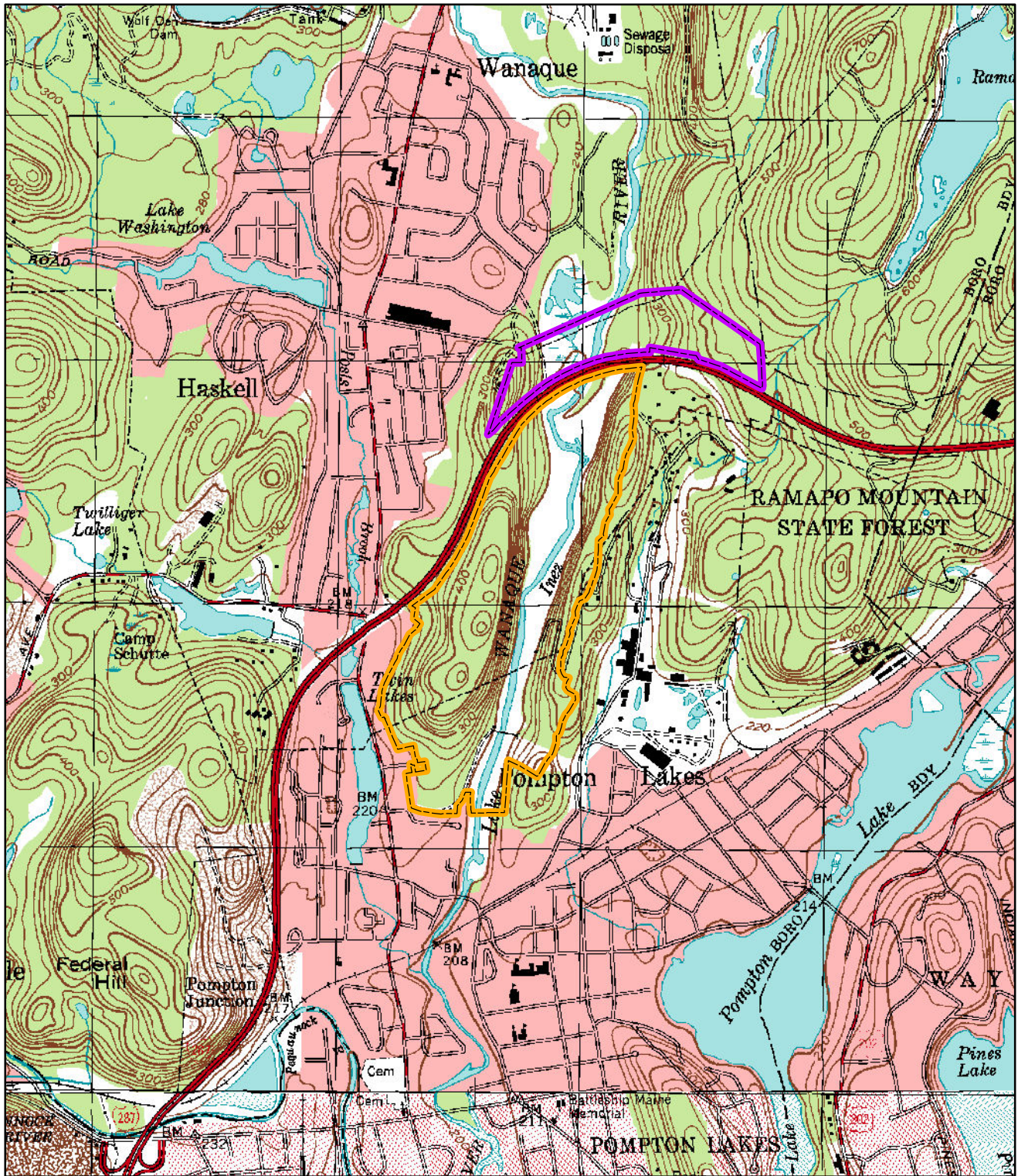
DUP, Duplicate sample

Shaded cells indicate concentration exceeds water quality standard:

THg: 770 ng/L - NJSWQS

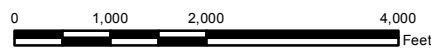
MeHg: 4 ng/L - CSWQS

Figures



Legend

-  Northern Manufacturing Area
-  Western Manufacturing Area



1 inch = 2,000 feet

Reference:
USGS Topographic Quadrangles
Wanaque, NJ 2000
Pompton Plains, NJ 1998



335 Commerce Drive, Suite 300
Fort Washington, PA 19034
Phone: (215) 367-2500 Fax: (215) 367-1000

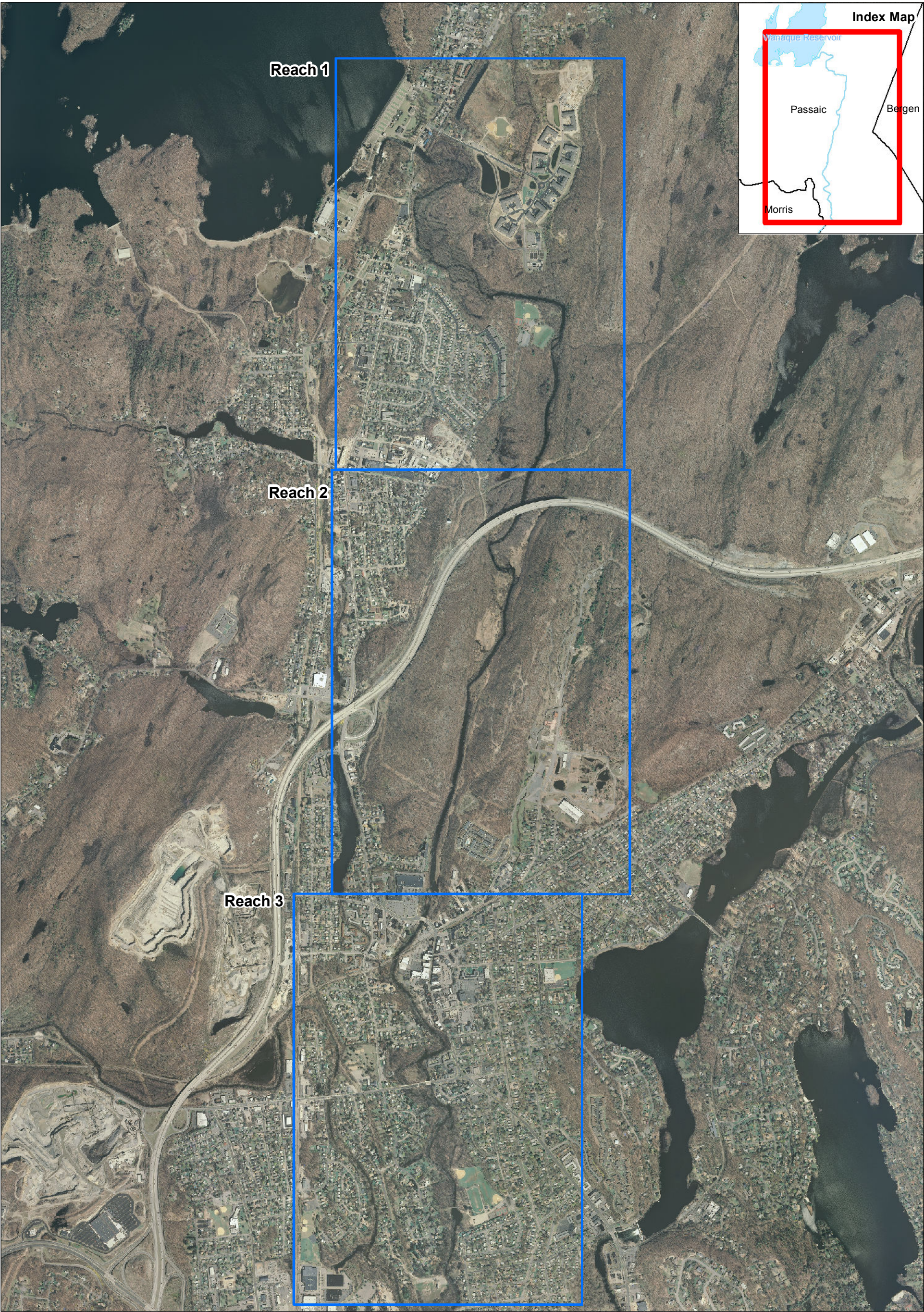
Job: 18985748.00004

Prepared by: VP/MAL

Checked by: DR

Date: 10/5/2012

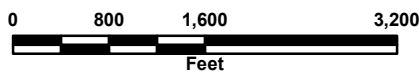
Figure 1
Site Location Map
Wanaque River Investigation
Technical Status Report
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey



Source: Aerial Photography - NJDEP 2007



PROJECT NO. 18985748.00004

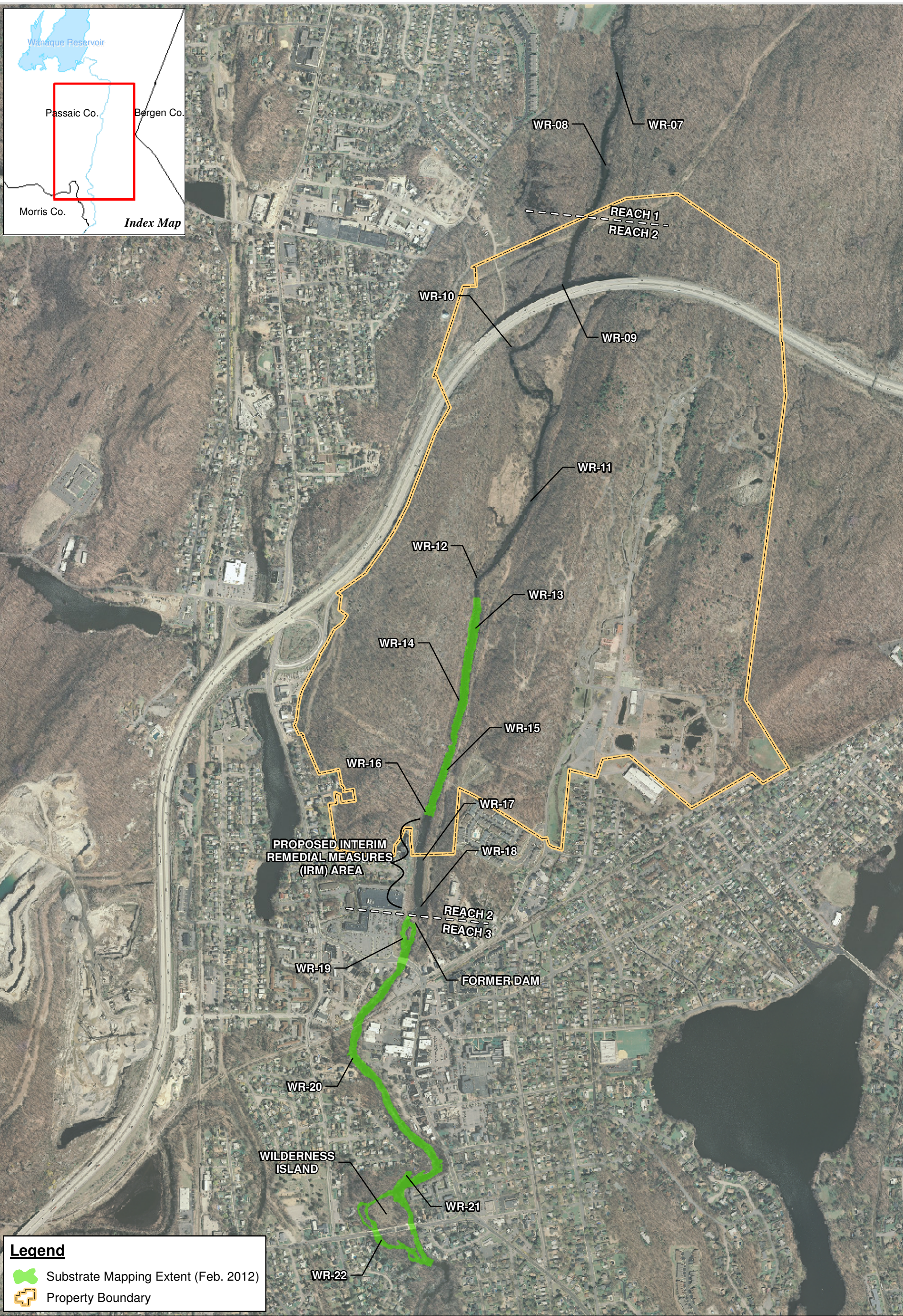
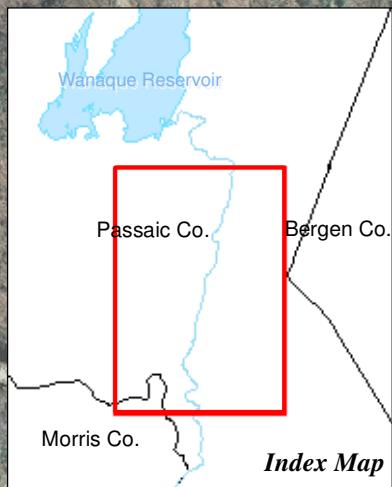


1 in = 1,600 ft

Figure 2
Overview of Study Area

Wanaque River Investigation
Technical Status Report
DuPont Pompton Lakes Works

Pompton Lakes, New Jersey



Legend

- Substrate Mapping Extent (Feb. 2012)
- Property Boundary

Source: Aerial Photography - NJDEP 2007



PROJECT NO. 18985748.00004

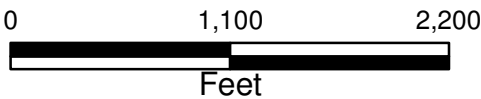


Figure 3
Focused Study Area for Supplemental Investigations

Wanaque River Investigation
Technical Status Report
DuPont Pompton Lakes Works

Pompton Lakes, New Jersey



Legend

Sediment Sample Database

▲

Phase I Sample

■

Phase II Sample

●

2011 Supplemental

Analyte	Units	WR-16.2A Result
Sediment		
MERCURY	MG/KG	43.3
TOC	%	3.81
PERCENT FINES	% Passing	54

Analyte	Units	WR-16.2B Result	WR-16.2B * Result
Sediment			
MERCURY	MG/KG	393	416
TOC	%	0.38	NS
PERCENT FINES	% Passing	34	NS

Analyte	Units	WR-16.2C Result
Sediment		
MERCURY	MG/KG	17
TOC	%	0.03
PERCENT FINES	% Passing	0.5

Analyte	Units	WR-17 Result
Sediment		
MERCURY	MG/KG	52.6
TOC	%	0.94
PERCENT FINES	% Passing	11

Analyte	Units	WR-17D Result
Sediment		
MERCURY	MG/KG	1.48
TOC	%	0.02
PERCENT FINES	% Passing	1.5

Analyte	Units	WR-17A Result
Sediment		
MERCURY	MG/KG	86.3
TOC	%	1.91
PERCENT FINES	% Passing	16

Analyte	Units	WR-17B Result
Sediment		
MERCURY	MG/KG	72.1
TOC	%	4.11
PERCENT FINES	% Passing	43

Analyte	Units	WR-18C Result
Sediment		
MERCURY	MG/KG	10.7
TOC	%	0.11
PERCENT FINES	% Passing	1

Analyte	Units	WR-18 Result
Sediment		
MERCURY	MG/KG	57.4
TOC	%	4.84
PERCENT FINES	% Passing	41

Analyte	Units	WR-18A Result
Sediment		
MERCURY	MG/KG	30.5
TOC	%	1.62
PERCENT FINES	% Passing	73.5

Analyte	Units	WR-16B Result	WR-16B* Result
Sediment			
MERCURY	MG/KG	132	92.9
TOC	%	1.59	NS
PERCENT FINES	% Passing	39	NS

Analyte	Units	WR-16.4C Result
Sediment		
MERCURY	MG/KG	12.4
TOC	%	0.13
PERCENT FINES	% Passing	0.5

Analyte	Units	WR-16.4B Result
Sediment		
MERCURY	MG/KG	12.4
TOC	%	0.03
PERCENT FINES	% Passing	1

Analyte	Units	WR-16.4A Result
Sediment		
MERCURY	MG/KG	8.99
TOC	%	1.74
PERCENT FINES	% Passing	2

Analyte	Units	WR-17E Result	WR-17E* Result
Sediment			
MERCURY	MG/KG	1430	10.3
TOC	%	0.09	NS
PERCENT FINES	% Passing	2	NS

Analyte	Units	WR-17C Result
Sediment		
MERCURY	MG/KG	102
TOC	%	2.67
PERCENT FINES	% Passing	31

Analyte	Units	WR-18D(0-6) Result	WR-18D(14-18) Result
Sediment			
MERCURY	MG/KG	9.75	27.5
TOC	%	1.94	NS
PERCENT FINES	% Passing	67	NS

Analyte	Units	WR-18B Result
Sediment		
MERCURY	MG/KG	23.2
TOC	%	3.62
PERCENT FINES	% Passing	68

Notes: NS = Not Sampled, * = Sample Reanalyzed

Source: Aerial Photography - NJDEP 2007



PROJECT NO. 18985748.00004

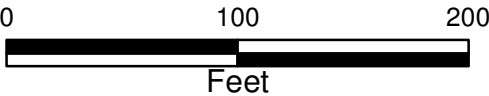
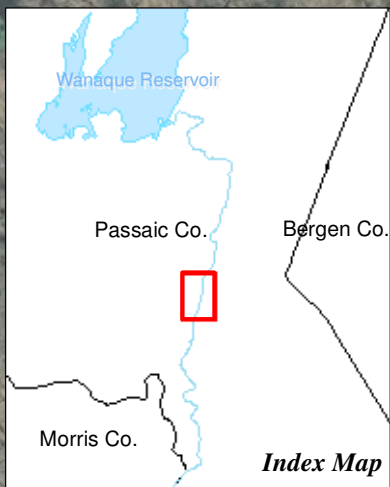


Figure 4
Reach 2 Sediment Sampling Stations
within the Proposed IRM Area

Wanaque River Investigation
Technical Status Report
DuPont Pompton Lakes Works

Pompton Lakes, New Jersey



Analyte	Units	WR-12 Result
Sediment		
MERCURY	MG/KG	0.415 J
TOC	%	1.65
PERCENT FINES	% Passing	NS

Legend

Sediment Sample Database

Substrate Features

▲ Phase I Sample

■ Phase II Sample

● 2011 Supplemental

◆ 2012 Supplemental

□ Pore Water Sample

○ Silt/Clay

○ F. Sand

○ C. Sand/Granule

○ Pebble

○ Cobble/Boulder

○ Bedrock

Analyte	Units	WR-14B Result
Sediment		
MERCURY	MG/KG	0.038
TOC	%	<0.011
PERCENT FINES	% Passing	<0.5
Pore Water (filtered)		
MERCURY	ng/L	5570
METHYLMERCURY	ng/L	0.427

Analyte	Units	WR-13 Result
Sediment		
MERCURY	MG/KG	20.1
TOC	%	6.02
PERCENT FINES	% Passing	64

Analyte	Units	WR-13.1C Result
Sediment		
MERCURY	MG/KG	1.97
TOC	%	2.47
PERCENT FINES	% Passing	45
Pore Water (filtered)		
MERCURY	ng/L	9.75
METHYLMERCURY	ng/L	0.425

Analyte	Units	WR-13.2C Result
Sediment		
MERCURY	MG/KG	26.6
TOC	%	0.97
PERCENT FINES	% Passing	47

Analyte	Units	WR-13.8C Result
Sediment		
MERCURY	MG/KG	43.9
TOC	%	1.66
PERCENT FINES	% Passing	31

Analyte	Units	WR-14C Result
Sediment		
MERCURY	MG/KG	328
TOC	%	0.95
PERCENT FINES	% Passing	31
Pore Water (filtered)		
MERCURY	ng/L	272
METHYLMERCURY	ng/L	0.387

Analyte	Units	WR-14.2C Result
Sediment		
MERCURY	MG/KG	330
TOC	%	0.38
PERCENT FINES	% Passing	13

Analyte	Units	WR-15B Result
Sediment		
MERCURY	MG/KG	0.095
TOC	%	<0.013
PERCENT FINES	% Passing	<0.5

Analyte	Units	WR-15 Result
Sediment		
MERCURY	MG/KG	9.53
TOC	%	2.32
PERCENT FINES	% Passing	15.5

Analyte	Units	WR-15.2B Result
Sediment		
MERCURY	MG/KG	0.24
TOC	%	<0.013
PERCENT FINES	% Passing	<0.5
Pore Water (filtered)		
MERCURY	ng/L	31.3
METHYLMERCURY	ng/L	0.428

Analyte	Units	WR-15.2C Result
Sediment		
MERCURY	MG/KG	12.4
TOC	%	1.4
PERCENT FINES	% Passing	13
Pore Water (filtered)		
MERCURY	ng/L	10.1
METHYLMERCURY	ng/L	0.201

Analyte	Units	WR-15.4C Result
Sediment		
MERCURY	MG/KG	16.7
TOC	%	0.84
PERCENT FINES	% Passing	12
Pore Water (filtered)		
MERCURY	ng/L	9.66
METHYLMERCURY	ng/L	0.592

Analyte	Units	WR-14 Result
Sediment		
MERCURY	MG/KG	5.88
TOC	%	3.37
PERCENT FINES	% Passing	43
Pore Water (filtered)		
MERCURY	ng/L	21.4
METHYLMERCURY	ng/L	1.15

Analyte	Units	WR-14.8A Result
Sediment		
MERCURY	MG/KG	22.3
TOC	%	3.47
PERCENT FINES	% Passing	31
Pore Water (filtered)		
MERCURY	ng/L	11.1
METHYLMERCURY	ng/L	2.75

Analyte	Units	WR-15A Result
Sediment		
MERCURY	MG/KG	5.65
TOC	%	2.02
PERCENT FINES	% Passing	17

Analyte	Units	WR-15.2A Result
Sediment		
MERCURY	MG/KG	12
TOC	%	2.01
PERCENT FINES	% Passing	33
Pore Water (filtered)		
MERCURY	ng/L	12.3
METHYLMERCURY	ng/L	0.437

Analyte	Units	WR-15.3A Result
Sediment		
MERCURY	MG/KG	35.6
TOC	%	2.48
PERCENT FINES	% Passing	31
Pore Water (filtered)		
MERCURY	ng/L	22.8
METHYLMERCURY	ng/L	0.533

Analyte	Units	WR-15.4A-B Result
Sediment		
MERCURY	MG/KG	4.22
TOC	%	0.47
PERCENT FINES	% Passing	5
Pore Water (filtered)		
MERCURY	ng/L	437
METHYLMERCURY	ng/L	0.055

Analyte	Units	WR-16 Result
Sediment		
MERCURY	MG/KG	9.14
TOC	%	3.35
PERCENT FINES	% Passing	31

Note: NS = Not Sampled

Source: Aerial Photography - NJDEP 2007

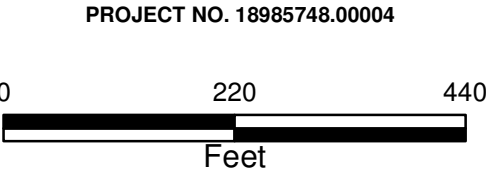
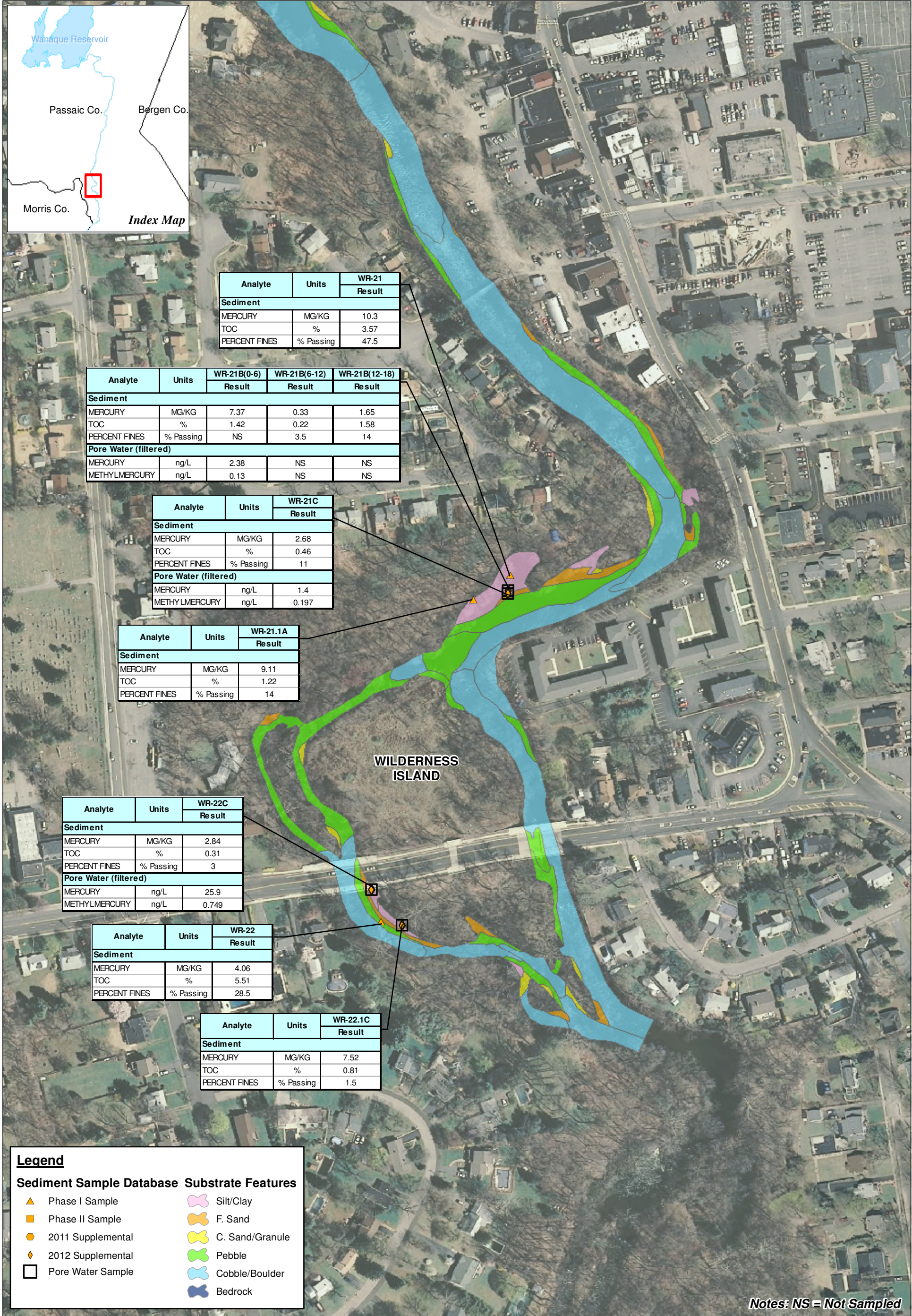
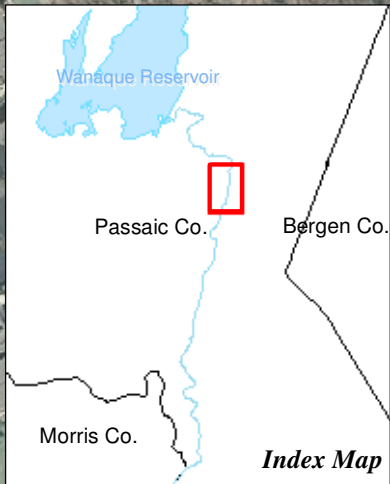


Figure 5
Reach 2 Sediment and Pore Water Sampling Stations
Upstream of the Proposed IRM Area to WR-12

Wanaque River Investigation
Technical Status Report
DuPont Pompton Lakes Works

Pompton Lakes, New Jersey





Legend

Sediment Sample Database

▲

Phase I Sample

□

Pore Water Sample

Analyte	Units	WR-07 Result
Sediment		
MERCURY	MG/KG	0.084
Pore Water (filtered)		
MERCURY	ng/L	0.96
METHYLMERCURY	ng/L	<0.023

Analyte	Units	WR-07.1B Result
Pore Water (filtered)		
MERCURY	ng/L	1.29
METHYLMERCURY	ng/L	<0.024

Analyte	Units	WR-08.1B Result
Pore Water (filtered)		
MERCURY	ng/L	2.64
METHYLMERCURY	ng/L	0.038

Analyte	Units	WR-08 Result
Sediment		
MERCURY	MG/KG	0.33
Pore Water (filtered)		
MERCURY	ng/L	1.49
METHYLMERCURY	ng/L	0.048

Note: NS = Not Sampled

Source: Aerial Photography - NJDEP 2007



PROJECT NO. 18985748.00004



Figure 8
Reach 1 Sediment and Pore Water Sampling Stations

Wanaque River Investigation
Technical Status Report
DuPont Pompton Lakes Works

Pompton Lakes, New Jersey

Appendices

Appendix A

NJDEP-DuPont Correspondence

MEMORANDUM

TO: ANTHONY CINQUE, CASE MANAGER, BCM

FROM: STEVE BYRNES, RESEARCH SCIENTIST, BEERA

SUBJECT: DUPONT POMPTON LAKES WORKS (PLW), POMPTON LAKES, PASSAIC COUNTY, NJ: REVIEW OF WANAQUE RIVER REMEDIAL INVESTIGATION REPORT (RIR), DATED JULY 29, 2011.

INTRODUCTION

This revised RIR, dated July 29, 2011, was prepared by URS on behalf of E.I. du Pont de Nemours and Company (DuPont), 2000 Cannonball Road, Pompton Lakes, NJ 07442. This document represents a revision to the July 2010 RIR. Revisions were made in response to October 2010 NJDEP comments and were also based upon results of additional sediment and surface water data collected in November 2010. A Baseline Ecological Evaluation (BEE) is included in the RIR as Appendix A. The RIR was reviewed by BEERA in accordance with NJDEP's Technical Requirements for Site Remediation (N.J.A.C. 7:26E), Ecological Risk Assessment Guidance for Superfund, Process for Designing and Conducting Ecological Risk Assessments (EPA 540-R-97-006), NJDEP policy, and other State and Federal guidance.

BACKGROUND AND SUMMARY

Manufacturing of explosive products in this portion of the Wanaque River Valley can be traced back to the late 1800s. Some operations predate DuPont's ownership, however, manufacturing operations ceased in 1994. The primary products manufactured and used include; mercury fulminate, lead azide, lead styphnate, and copper shells and wire.

This revised RIR addressed the Wanaque River, (which flows south through the former northern, eastern and western manufacturing areas of the DuPont PLW site), examined existing information and analytical data, and recommended that an Interim Remedial Measure (IRM) be implemented to mitigate exposure to mercury in sediments in Reach 2, downstream of sample location WR-16 to the former dam. The primary contaminant of potential ecological concern (COPEC) identified as exceeding ecological benchmark concentrations and the 90th percentile ambient (background) soil concentrations is mercury in river sediments.

BEERA has completed a review of the Revised RIR and finds it unacceptable as detailed in the comments provided below.

COMMENTS

1. The Department's previous comment reads as follows, "No ground water sample data, flow direction, or sample location maps were provided in this BEE (or previous BEEs conducted in the former manufacturing areas) to substantiate the conclusion that ground water is not acting as a contaminant migration pathway to the river. Ground water information from the December 2004 ground water report for former Lake Inez was referenced to support this conclusion, and as stated in previous comments from NJDEP, evaluation of the ground water pathway appears incomplete. Any seeps or other potential discharges noted should be sampled. Pore water samples must be collected at numerous locations in river sediments, and perhaps from adjacent wetlands as well, before this potential pathway can be eliminated from consideration."

This issue was not addressed in the revised RIR. Therefore, it is recommended that sediments in the Wanaque River be periodically monitored (depositional areas) following the recommended IRM to ensure potential ongoing sources (such as those mentioned above) are not recontaminating the river.

2. Ecological Benchmarks vs. Background/Reference Values – Background threshold values (BTVs) were based upon Upper Probability Limit (UPL₉₅) concentrations calculated from the December 2009 sediment data set for Reach 1 of the Wanaque River. Perhaps due to the relatively small data set (i.e., 8 samples), some calculated BTVs are higher than the raw data they were based upon. NJDEP previously recommended DuPont use the raw Reach 1 upstream data as reference/background threshold values rather than the UPL₉₅. This was not done by DuPont.

Subsequently, BEERA recommends the proposed IRM extend upstream to Reach 2 sample location WR-13 (mercury in sediments at 20.1 ppm) and downstream to Reach 3 sample location WR-22 where sediment mercury levels still exceed the Severe Effects Level (SEL) of 2 ppm (clearly illustrated in Figure 14 of the RIR). If DuPont refuses to extend the continuous scope of the IRM downstream into Reach 3, then hot spot delineation and removal is recommended in Reach 3 locations exceeding the SEL.

3. Pages 26 and 27, "Recommendations" – If the IRM intends to "mitigate potential human health and ecological exposure to mercury", in addition to attaining the NJRDCSRS of 23 ppm, the IRM needs to attain ecological criteria as well.

In summary, BEERA supports the recommendation to proceed with an IRM in the Wanaque River; however, the scope of the IRM needs to incorporate the comments provided in this memorandum.

If you have any questions regarding this review I may be reached at extension 4-9781.

cc: John Boyer, BEERA



The miracles of science™

January 16, 2012

Mr. Anthony Cinque
New Jersey Department of Environmental Protection
Division of Responsible Party Site Remediation
401 East State Street
P.O. Box 028
Trenton, New Jersey 08625-0028

**RE: Response to NJDEP Comments
Wanaque River Remedial Investigation Report – Revised July 2011
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey
PI #007411**

Dear Mr. Cinque:

Enclosed for your review is the response to comments to NJDEP's December 13, 2011 correspondence regarding the review of the above-referenced report. NJDEP's comments were received by DuPont on December 16, 2011.

If you have any questions, please contact me at (973) 492-7733.

Sincerely,

David E. Epps, P.G.
Project Director, Pompton Lakes Works
DuPont Corporate Remediation Group

cc: Clifford Ng – USEPA Region II
PLW Central File



URS Corporation
335 Commerce Drive; Suite 300
Fort Washington, PA 19034
Telephone: (215) 367-2500
Facsimile: (215) 367-1000

MEMORANDUM

TO: David Epps, DuPont Project Director

DATE: January 16, 2012

FROM: Gary Long

PROJECT: Wanaque River Investigation

URS JOB NO.: 18985748

FININFO NO.: 507843

cc :

SUBJECT: **Responses to NJDEP BEERA Comments Regarding the
July 2011 Wanaque River Remedial Investigation Report (RIR) and
Baseline Ecological Evaluation (BEE)**
Pompton Lakes, New Jersey

The following memorandum presents responses to the New Jersey Department of Environmental Protection (NJDEP) Bureau of Environmental Evaluation and Risk Assessment (BEERA) comments regarding the July 2011 Wanaque River Remedial Investigation Report (RIR) prepared for the DuPont Pompton Lakes Works located in Pompton Lakes, New Jersey. A baseline ecological evaluation (BEE) of the Wanaque River was included as Appendix A of the RIR.

The July 2011 Wanaque River RIR was a revision of the Wanaque River RIR submitted to NJDEP on July 31, 2010. The July 2011 Wanaque River RIR included revisions based on comments provided by NJDEP BEERA in a memorandum dated October 26, 2010, draft DuPont responses to NJDEP comments in a memorandum dated November 16, 2010, and additional sediment and surface water data collected in November 2010.

DuPont received comments from NJDEP BEERA on the July 2011 Wanaque River RIR in a letter dated December 13, 2011. The text of the comments in the NJDEP BEERA letter is provided below followed by the response in bold.

NJDEP Comments and DuPont Responses:

1. The Department's previous comment reads as follows, "No ground water sample data, flow direction, or sample location maps were provided in this BEE (or previous BEEs conducted in the former manufacturing areas) to substantiate the conclusion that ground water is not acting as a contaminant migration pathway to the river. Ground water information from the December 2004 ground water report for former Lake Inez was referenced to support this conclusion, and as stated in previous comments from NJDEP, evaluation of the ground water pathway appears incomplete. Any seeps or other potential discharges noted should be sampled. Pore water samples must be collected at numerous locations in river sediments, and perhaps from adjacent wetlands as well, before this potential pathway can be eliminated from consideration."

This issue was not addressed in the revised RIR. Therefore, it is recommended that sediments in the Wanaque River be periodically monitored (depositional areas) following the recommended IRM to ensure potential ongoing sources (such as those mentioned above) are not recontaminating the river.

Response: For clarification purposes, previous BEEs were submitted as an appendix to the RIRs for the former manufacturing areas. The RIRs presented the groundwater data in maps and tables. Because these data were presented within the main section of each RIR, the BEE (as an appendix) only provided a summary of the groundwater data; however, references to the full data set in the RIR were included in the BEE.

As stated in the draft comment response memorandum submitted to NJDEP on November 16, 2010, the Wanaque River RIR and BEE similarly summarized the findings of groundwater investigations described in greater detail in the Western Manufacturing Area (WMA) RIR and specific groundwater investigation reports (Parsons, 2010). The summary of findings generated from these reports incorporated existing data for the WMA regarding ground water quality, flow direction, and horizontal gradient; additional evaluation of potential groundwater migration pathway to the river based on the findings of these reports was added to the July 2011 Wanaque River RIR and BEE. Based on the evaluation of existing groundwater information and the absence of seeps and other potential discharges along the river banks and shorelines, it was concluded that groundwater migration is not a primary contaminant migration pathway to the Wanaque River. Therefore, DuPont believes that the issue was adequately addressed within the revised BEE and RIR,

Since the preparation of the WMA RIR and the Wanaque River RIR, DuPont has been working with NJDEP to design and implement additional investigations in the WMA to supplement existing groundwater information. This will include the installation and sampling of temporary well points. Once available, data from these on-going investigations will be integrated with existing information into the conceptual site model, which will include evaluating potential groundwater migration to the Wanaque River.

Data generated from these investigations, as well as existing observations of current conditions in the river and adjacent floodplain, will be used to determine the need for additional investigations (*i.e.*, pore water and river water sampling) of potential groundwater-to-surface water migration pathways. If additional investigations are necessary, data from the on-going groundwater investigations will be used as the basis to design a pore water sampling program to target areas of potential groundwater-to-surface water interaction.

It is anticipated that these additional investigations of potential groundwater migration to the river will complete the site conceptual model and provide an understanding of potential on-going sources to the river. Any groundwater-to-

surface water pathways with the potential to re-contaminate sediments will be addressed as part of the remediation, thereby ensuring there is no potential for re-contamination of river sediments via groundwater-to-surface water interactions.

2. Ecological Benchmarks vs. Background/Reference Values – Background threshold values (BTVs) were based upon Upper Probability Limit (UPL₉₅) concentrations calculated from the December 2009 sediment data set for Reach 1 of the Wanaque River. Perhaps due to the relatively small data set (i.e., 8 samples), some calculated BTVs are higher than the raw data they were based upon. NJDEP previously recommended DuPont use the raw Reach 1 upstream data as reference/background threshold values rather than the UPL₉₅. This was not done by DuPont.

Response: DuPont believes that the recommendation provided by NJDEP was thoroughly addressed. The differences between calculated BTVs and concentration maxima in the background datasets were addressed in the draft comment response memorandum submitted to NJDEP on November 16, 2010 and the revised Wanaque River RIR dated July 2011.

As discussed in the November 16, 2010 draft response to comments, sediment COPEC selection was not materially influenced by the use BTVs calculated from the Reach 1 dataset as representative background concentrations. BTVs were calculated based on the minimum recommended sample size ($n = 8$) using USEPA ProUCL v. 4.0. Differences between BTVs and concentration maxima from the Reach 1 dataset were relatively minor, with relative percent differences between calculated BTVs and maxima in the background datasets ranging between 5 and 17 percent. As noted in the NJDEP comment above, in some cases the calculated BTV was greater than the maximum concentration in the background dataset due to variability within the dataset; however, these relatively minor differences between the BTVs and maxima did not substantially influence the selection of sediment COPECs. In fact, only the maximum concentration of chromium in Reach 2 sediment samples exceeded the maximum background concentration but was lower than the BTV (See July 2011 RIR Appendix A, Table 2).

As stated in the November 16, 2010 draft response to comments, both the maximum background concentration and the BTV were included in the revised BEE table identifying sediment COPECs (see July 2011 RIR Appendix A, Table 2) to facilitate comparisons of concentration maxima and BTVs in background datasets.

Subsequently, BEERA recommends the proposed IRM extend upstream to Reach 2 sample location WR-13 (mercury in sediments at 20.1 ppm) and downstream to Reach 3 sample location WR-22 where sediment mercury levels still exceed the Severe Effects Level (SEL) of 2 ppm (clearly illustrated in Figure 14 of the RIR). If DuPont refuses to extend the continuous scope of the IRM downstream into Reach 3, then hot spot delineation and removal is recommended in Reach 3 locations exceeding the SEL.

Response: It is our understanding that the severe effects level (SEL) of 2 mg/kg is not a remedial standard but is a general ecological screening benchmark that was derived based on exposures to mercury in a broad range of sediment environments with other potentially confounding sources of environmental stress. As such, mercury concentrations in bulk sediment samples exceeding the generic (e.g., non-site-specific) SEL do not confirm the occurrence of adverse ecological effects in the Wanaque River. As a result, the SEL is not an appropriate basis for remedial action in the Wanaque River. It is recommended that the need for remedial action be determined using a weight-of-evidence evaluation of potential exposure based on site-specific lines of evidence.

As stated in the July 2011 Wanaque River RIR, DuPont is proposing an interim remedial measure (IRM) for the lower end of Reach 2 in the depositional area where fine-grained sediments have accumulated upstream of the former dam (approximately between station WR-16 and the former dam). This fine-grained sediment deposit represents the area of greatest potential exposure due to elevated concentrations of mercury and other COPECs and the potential for mercury methylation.

As described in the conceptual site model presented in Section 7 of the July 2011 Wanaque River RIR, deposition of fine-grained sediments and associated sediment exposure in areas upstream and downstream of the proposed IRM area are generally limited to the channel margins, particularly to areas where flow is impeded by an obstruction. In the upper two thirds of Reach 2 (on-site) upstream of the proposed IRM area, the river is characterized by riffle/run/pool complexes that are associated with coarse-grained substrates (cobble, gravel, and sand) across most of the channel transect. Downstream of the former dam in Reach 3, sediment depositional features are limited as the river returns to a riffle/run/pool structure with predominantly coarse-grained sediments. Consistent with limited areas of sediment deposition, concentrations of sediment COPECs decrease substantially downstream of the former dam relative to concentrations observed in the proposed IRM area upstream of the former dam; this decrease in sediment COPEC concentrations results in reduced exposure relative to the fine-grained sediment deposit within the proposed IRM area.

Based on the changing sediment depositional patterns described in the conceptual site model and summarized above, the continuous IRM proposed in the above NJDEP comment (from WR-13 and downstream to WR-22) is not warranted because exposure is not continuous throughout this area. Outside of the proposed IRM area, fine-grained sediment deposits represent a relatively minor component (approximately 5 to 10 percent) of overall habitat availability in Reaches 2 and 3. Based on the limited availability of fine-grained sediment deposits outside of the proposed IRM area, exposure to fine-grained sediment containing elevated concentrations of COPECs is limited.

Based on the distribution of fine-grained sediments in Reaches 2 and 3, it is recommended that the scope of the proposed IRM focus on the area upstream of the former dam to approximately station WR-16. This area represents the largest spatial extent of historically released fine-grained sediment deposits and, thus, represents the area of greatest potential exposure. As previously stated, the extent of fine-grained sediment deposits outside of the proposed IRM area represents a relatively minor component of overall habitat availability and a spatially-limited exposure area. As a result, implementation of an IRM that removes sediments from the depositional area from the former dam upstream to approximately WR-16 will effectively address the area of greatest exposure to sediment COPECs.

Additional investigations will be conducted to address NJDEP concerns regarding potential spatially-limited areas of elevated sediment mercury concentrations upstream of the proposed IRM area to WR-13 and downstream of the proposed IRM area to WR-22. The purpose of these investigations will be to further define the extent of fine-grained sediment deposits and to characterize mercury concentrations within those deposits. The proposed sampling program will provide detailed substrate mapping of fine-grained deposits outside of the proposed IRM area. Based on the distribution of fine-grained sediment deposits, a targeted sampling program could be developed to characterize sediment mercury concentrations to ensure that spatially-limited areas of elevated sediment mercury concentrations are adequately defined and that exposure to these fine-grained sediments is adequately characterized.

3. Pages 26 and 27, “Recommendations” – If the IRM intends to “mitigate potential human health and ecological exposure to mercury”, in addition to attaining the NJRDCSRS of 23 ppm, the IRM needs to attain ecological criteria as well.

Response: As stated in the response to the preceding comment, implementation of an IRM in the area proposed by DuPont (approximately between station WR-16 and the former dam) will address the area of greatest ecological exposure to mercury in sediments. This area is the largest spatial extent of sediment deposits in the river adjacent to the site and represents the area of greatest potential exposure due to elevated concentrations of COPECs and the potential for mercury methylation. Removal of sediments within the proposed IRM area will effectively reduce ecological exposure to mercury (including methylmercury) and other COPECs identified in sediments.

Outside of the proposed IRM area, ecological exposure to mercury and other COPECs in sediment is relatively limited. As previously stated, fine-grained sediment deposits outside of the proposed IRM area represent only about 5 to 10 percent of the available habitat in the river and contain substantially lower mercury concentrations relative to fine-grained sediments within the proposed IRM area. The predominant ecological habitats in 90 to 95 percent of the areas outside of the proposed IRM are associated with riffle/run/pool features characterized by



predominately coarse-grained substrates, which contain relatively low concentrations of mercury and other sediment COPECs.

In summary, the spatial extent of the IRM area will be defined to address the area of greatest human health and ecological exposure to mercury in sediments. The IRM area proposed by DuPont in the July 2011 Wanaque River RIR addresses mercury concentrations exceeding the NJRDCSRS, as well as the area of fine-grained sediment deposition representing the greatest ecological exposure to sediment mercury concentrations and the greatest potential for mercury methylation. Implementation of an IRM to remove sediments within this area will effectively mitigate potential human health and ecological exposure to mercury and other sediment COPECs.

References

Parsons. 2010. Remedial Investigation Report Western Manufacturing Area. DuPont Pompton, Lakes Works, Pompton Lakes, New Jersey. June 2010.

----- Forwarded by David E Epps/CL/DuPont on 03/21/2012 11:14 AM -----

From: "Anthony Cinque" <Anthony.Cinque@dep.state.nj.us>

To: David E Epps/CL/DuPont@DuPont

Cc: "David VanEck" <David.VanEck@dep.state.nj.us>, "Mindy Mumford" <Mindy.Mumford@dep.state.nj.us>, "Steve Byrnes" <Steve.Byrnes@dep.state.nj.us>, <Nq.Clifford@epamail.epa.gov>, <Norma.Eichlin@obg.com>

Date: 03/21/2012 11:03 AM

Subject: Wanaque RIR Comments

Dave,

Please find NJDEP's comments to the above referenced document. Response to these comments is requested (can be done via email). I will give you a call by end of week. I am working on a letter in an effort to incorporate/consolidate all the separate RI pieces including NMA/WMA/EMA and Wanaque. The letter will set deadlines for any required supplemental RI work. I will request 2 separate Suppl. RIR's. 1 for any suppl. GW work and 1 for any suppl. Soils work.

Anthony

Comments to Wanaque RIR:

The first NJDEP comment concerned the lack of ground water information (e.g. ground water samples, flow direction, sample location maps) in the BEE to substantiate the claim that ground water is not acting as a contaminant migration pathway to the river. The NJDEP recommended that sediment samples be collected from the Wanaque River. URS responded that the Wanaque River RIR and BEE "summarized the findings of ground water investigations described in greater detail in the *Western Manufacturing Area (WMA) RIR* and specific groundwater investigation reports".

Comments

The WMA RIR (Parsons, revised December 2011) does not contain any ground water data tables or figures, and is predominantly about soils. The WMA RIR discusses ground water to the extent that it references a *Site Investigation Groundwater Report* from December 2004. URS notes that "since the preparation of the WMA RIR and the Wanaque River RIR, DuPont has been working with NJDEP to design and implement additional investigations in the WMA to supplement existing groundwater information." This effort is to include installation and sampling of temporary well points. Once available, data from these investigations "will be integrated with existing information into the conceptual site model, which will include evaluating potential groundwater migration to the Wanaque River."

The NJDEP finds the proposed additional investigations conceptually acceptable, but is not aware of any work plans from DuPont to conduct such supplemental investigations in the WMA. When the additional work is done, the historic ground water information (i.e. from the December 2004 *Site Investigation Groundwater Report*) should be presented in an all-inclusive document

with the newly acquired data.

Response to Comment 1 - DuPont is working to design and implement additional investigations in the Western Manufacturing Area (WMA) to supplement existing ground water information and evaluate potential ground water migration to the Wanaque River. If this work reveals additional investigations are necessary, data from the on-going ground water investigations will be used as the basis to design a pore water sampling program to target areas of potential ground water-to-surface water interaction.

From an ecological investigation perspective, this response is acceptable.

Response to Comment 2 - Previous sampling of sediments in the Wanaque River revealed mercury concentrations exceeded the 2 ppm Severe Effects Level (SEL). DuPont's proposal to conduct additional investigations "to address NJDEP concerns regarding potentially spatially-limited areas of elevated sediment mercury concentrations upstream of the proposed IRM area to WR-13 and downstream of the proposed IRM area to WR-22" is acceptable. Following substrate mapping of sediments, NJDEP looks forward to reviewing further analytical sediment sampling results of these areas documented by previous sampling to represent elevated mercury concentrations, along with a weight-of-evidence evaluation of exposure based upon all site-specific lines of evidence. Although soils in upland site areas have been sampled extensively, potential recontamination of the river remains largely unaddressed.

Response to Comment 3 - NJDEP recognizes DuPont's position that outside of the proposed IRM area, ecological exposure to mercury and other COPECs in sediment is relatively limited. Even though DuPont contends they are addressing "the area of greatest ecological exposure to mercury in sediments", that does not dismiss them from NJDEP's requirement to address additional areas of potential exposure nor does it characterize our concerns as unreasonable. The Department routinely requires that levels above the LEL are given a closer look; therefore, the fact that COPEC levels in some of these areas outside of the proposed IRM area exceed their respective SEL is of even greater concern. Ecological criteria must be addressed in addition to human health criteria.

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Fort Washington, PA 19034
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MEMORANDUM

TO: David Epps, DuPont Project Director

DATE: June 29, 2012

FROM: Gary Long

PROJECT: Wanaque River Investigation

URS JOB NO.: 18985748

FININFO NO.: 507843

cc :

SUBJECT: **Responses to NJDEP BEERA Comments Dated March 21, 2012
Regarding the July 2011 Wanaque River Remedial Investigation Report
Pompton Lakes, New Jersey**

The following memorandum provides responses to the New Jersey Department of Environmental Protection (NJDEP) Bureau of Environmental Evaluation and Risk Assessment (BEERA) comments on the July 2011 Wanaque River Remedial Investigation Report (RIR) prepared for the DuPont Pompton Lakes Works located in Pompton Lakes, New Jersey. This memorandum follows previous correspondence with NJDEP BEERA regarding the RIR, as listed below in chronological order:

- July 2011: Revised RIR submitted to NJDEP BEERA;
- December 13, 2011: NJDEP BEERA provides a comment letter on the July 2011 RIR;
- January 16, 2012: DuPont responds to the RIR comments in a memorandum to NJDEP BEERA; and
- March 21, 2012: NJDEP BEERA provides comments on the January 16, 2012 response-to-comments memorandum.

The text of the March 21, 2012 NJDEP BEERA comments is provided below followed by the response in bold.

NJDEP Comments and Responses:

NJDEP General Comment: The first NJDEP comment concerned the lack of ground water information (e.g. ground water samples, flow direction, sample location maps) in the BEE to substantiate the claim that ground water is not acting as a contaminant migration pathway to the river. The NJDEP recommended that sediment samples be collected from the Wanaque River. URS responded that the Wanaque River RIR and BEE "summarized the findings of ground water investigations described in greater detail in the Western Manufacturing Area (WMA) RIR and specific groundwater investigation reports".

The WMA RIR (Parsons, revised December 2011) does not contain any ground water data tables or figures, and is predominantly about soils. The WMA RIR discusses ground water to the extent



that it references a Site Investigation Groundwater Report from December 2004. URS notes that "since the preparation of the WMA RIR and the Wanaque River RIR, DuPont has been working with NJDEP to design and implement additional investigations in the WMA to supplement existing groundwater information." This effort is to include installation and sampling of temporary well points. Once available, data from these investigations "will be integrated with existing information into the conceptual site model, which will include evaluating potential groundwater migration to the Wanaque River."

The NJDEP finds the proposed additional investigations conceptually acceptable, but is not aware of any work plans from DuPont to conduct such supplemental investigations in the WMA. When the additional work is done, the historic ground water information (i.e. from the December 2004 Site Investigation Groundwater Report) should be presented in an all-inclusive document with the newly acquired data.

Response: Additional investigations within the WMA are on-going and have been implemented based on discussions at technical meetings held with NJDEP on December 6 and 8, 2011 and January 17, 2012. The findings of the additional groundwater investigations in the WMA will be integrated with existing groundwater information to update the site conceptual model to evaluate the potential for impacted groundwater to migrate to the Wanaque River. The integrated findings will be presented in a *Supplemental Remedial Investigation Report* that will be submitted to the NJDEP. Therefore, to the extent possible, the integrated information will be contained in one document. However, references to other documents may be needed to note where the information was previously provided.

NJDEP Response to Comment 1 - DuPont is working to design and implement additional investigations in the Western Manufacturing Area (WMA) to supplement existing ground water information and evaluate potential ground water migration to the Wanaque River. If this work reveals additional investigations are necessary, data from the on-going ground water investigations will be used as the basis to design a pore water sampling program to target areas of potential ground water-to-surface water interaction.

From an ecological investigation perspective, this response is acceptable.

Response: NJDEP acceptance of the proposed approach is acknowledged. Ecological exposure resulting from potentially complete migration pathways of impacted groundwater to the Wanaque River that are identified by the on-going groundwater investigations will be evaluated based on a pore water sampling program. As stated in the previous response, integrated groundwater information from the WMA will be used as the basis for designing the pore water sampling program. The specific objective of this pore water sampling program will be to evaluate potentially complete migration pathways of impacted groundwater to the Wanaque River; this effort will be in addition to the targeted pore water sampling that is proposed for the summer of 2012 (See response to Comment #2 below), which is intended to evaluate potential ecological exposure to mercury in sediment pore water outside of the potential IRM area between WR-13 and WR-22.

NJDEP Response to Comment 2 - Previous sampling of sediments in the Wanaque River revealed mercury concentrations exceeded the 2 ppm Severe Effects Level (SEL). DuPont's



proposal to conduct additional investigations "to address NJDEP concerns regarding potentially spatially-limited areas of elevated sediment mercury concentrations upstream of the proposed IRM area to WR-13 and downstream of the proposed IRM area to WR-22" is acceptable.

Following substrate mapping of sediments, NJDEP looks forward to reviewing further analytical sediment sampling results of these areas documented by previous sampling to represent elevated mercury concentrations, along with a weight-of-evidence evaluation of exposure based upon all site-specific lines of evidence. Although soils in upland site areas have been sampled extensively, potential recontamination of the river remains largely unaddressed.

Response: NJDEP acceptance of the area of additional sediment mercury characterization is acknowledged (upstream of the proposed IRM area to WR-13 and downstream of the proposed IRM area to WR-22). Detailed substrate mapping of this area was completed in February 2012 (see attached sampling plan) and additional analytical sampling to characterize mercury concentrations in fine-grained sediment deposits is planned for July 2012, as detailed in the attached sampling plan. Concurrent with the additional sediment mercury characterization, a targeted pore water sampling program will also be conducted to evaluate potential ecological exposure in the areas outside of the potential IRM area between WR-13 and WR-22. The findings of these investigations will be summarized in a brief technical report to NJDEP. This technical report will include a weight-of-evidence evaluation of exposure based on available site-specific lines of evidence presented in the revised Wanaque River Remedial Investigation Report and the findings of investigations conducted since the July 2011 submittal of the RIR. A concise sampling plan detailing the investigation objectives and procedures for implementing the proposed sampling is being submitted to NJDEP with this response memorandum for review and concurrence prior to the planned sampling in the summer of 2012.

The potential for re-contamination of the river by upland soils will be addressed in the Wanaque River IRM Work Plan, in addition to the on-going investigations of the WMA.

NJDEP Response to Comment 3 - NJDEP recognizes DuPont's position that outside of the proposed IRM area, ecological exposure to mercury and other COPECs in sediment is relatively limited. Even though DuPont contends they are addressing "the area of greatest ecological exposure to mercury in sediments", that does not dismiss them from NJDEP's requirement to address additional areas of potential exposure nor does it characterize our concerns as unreasonable. The Department routinely requires that levels above the LEL are given a closer look; therefore, the fact that COPEC levels in some of these areas outside of the proposed IRM area exceed their respective SEL is of even greater concern. Ecological criteria must be addressed in addition to human health criteria.

Response: As stated in the previous response, a targeted sediment pore water sampling program will be conducted in areas outside of the potential IRM between WR-13 and WR-22 (see attached sampling plan). The objective of this sampling program will be to evaluate potential ecological exposure to total mercury (THg) and methylmercury (MeHg) in sediment pore water. The concentrations of constituents in pore water are better correlated with the bioavailability and toxicity of constituents relative to bulk sediment concentrations; therefore, the evaluation of pore water represents an important line of evidence in the evaluation of THg and MeHg exposure to sediment-associated receptors.



Pore water data will be used in a weight-of-evidence evaluation of potential ecological exposure to THg and MeHg in areas where sediment THg concentrations exceed the LEL and/or SEL. A concise sampling plan detailing the investigation objectives and procedures for implementing the proposed sampling is being submitted to NJDEP with this response memorandum for review and concurrence prior to the planned summer 2012 sampling program.

Appendix B

**DuPont Data Review
(NJDEP HazSite EDD on separate CD)**

**DUPONT POMPTON LAKES WORKS
WANAQUE RIVER SEDIMENT PHASE III**

POMPTON LAKES, NJ

February 23, 2012

Prepared for

Gary Long, URS

Prepared by

DuPont CRG
Laboratory Services – Candia A. Carle
URS Corporation
Newark, Delaware

Memorandum

DATE: February 23, 2012

TO: Gary Long

FROM: Candia A. Carle

**RE: WANAQUE RIVER SEDIMENT PHASE III, POMPTON
LAKES WORKS, POMPTON LAKES, NJ**

Enclosed is the final data report for the Wanaque River Sediment Phase III samples collected at the Pompton Lakes Work site in November and December, 2011. Samples were collected on November 9 and 10 and December 15 and 16, 2011 for the analytical methods referenced in the table below:

Analysis	Method Reference
TOC	Lloyd Khan/ SM 5310C
Mercury, Total	SW 846 7470A/7471A
RCRA Metals, TCLP	SW 846 6010B/7470A
Grain Size	D422
Moisture	SM 2540 G

Sample Receipt

Samples were received at Lancaster Laboratories, Lancaster, PA, on November 11 and December 17, 2011. All samples were received in satisfactory condition and within EPA temperature guidelines.

Sample Information

The duplicate sample was submitted blind. It was associated with sample WR18-C(0.0-0.5) based on collection date; it was the only sample collected on 11/10/11.

Field blanks were not collected daily. Field blanks were only evaluated against samples collected on the same day.

Sample IDs were inconsistent within the project. The November sample IDs contained dashes, i.e. WR16-B whereas December sample IDs did not, i.e. WR14C. These IDs were not modified in the database as they are to remain consistent with the chain of custodies.

The project team requested the lab to re-analyze several samples for mercury and TCLP due to uncertain mercury results. The re-analyses indicated that there may not be sample homogeneity,

which can be typical of samples with mercury present. The following table lists the samples which were re-analyzed, and the original and re-analyses results for total mercury.

Sample ID	Collection Date/Time	Original Hg Result	Re-Analyses Hg Result
POM-E-WR16.2-B(0.0-0.5)	11/9/11 12:45	393 mg/Kg	416 mg/Kg
POM-E-WR16-B(0.0-0.5)	11/9/11 13:00	132 mg/Kg	92.9 mg/Kg
POM-E-WR17-E(0.0-0.5)	11/9/11 15:00	1430 mg/Kg	10.3 mg/Kg

Data Review

The electronic data submitted for this sampling event was reviewed via the automated DuPont Data Review (DDR) process.

Overall the data are acceptable for use without qualification. However, some of the results are flagged due to MS/MSD recoveries being out of control limits, method blank contamination, hold times exceeded and results detected between the detection limit and reporting limit.

Field personnel collected field duplicate samples. Most of the results are within criteria. Sample WR18-C(0.0-0.5) had parent and duplicate RPD out of range for mercury. Additionally, the lab noted inconsistent mercury results within the quality control set for WR15.2B(0.0-0.5). The criteria is RPD<50% for soils/sediments if both results are 5x greater than the MDL; if one or both results are < 5x the MDL, the difference between the results must be within 2x the MDL.

Please refer to the DDR Narrative Report for specific data qualification.

The Lancaster Laboratories summary level data reports are included in this report as an attachment. Please do not hesitate to contact me if you have any questions regarding this report.

DuPont In-House Review (DDR)

The DDR is an automated internal review process used by the ADQM group to determine if the data is usable. The data are run through this automated program where a series of checks are performed on the data. The data are evaluated against hold time criteria, checked for blank contamination, assessed against matrix spike(MS)/matrix spike duplicate (MSD) recoveries, assessed against relative percent differences (RPDs) between these samples, assessed against laboratory control sample(LCS)/control sample duplicate (LCSD) recoveries, assessed against RPDs between these samples, assessed against RPDs between laboratory replicates, and assessed against surrogate spike recoveries. The DDR applies the following data qualifiers to analysis results, as warranted:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

**Corporate Environmental Database
DDR Narrative Report**

Site: POM - POMPTON LAKES WORKS
Project: WANAQUE RIVER SED PH III
Reporting Limit: MDL
DDR Standards LABSTATS

2/14/2012 14:41:08
Page 1 of 3

The analysis hold time for this sample was exceeded by a factor of 2. The reported non-detect result is unusable.

Sample ID	Date Sampled	Lab ID	Analyte	Result	Units	MDL	PQL	Qual	Analytical Methods		
									Analysis	Preprep-	Prep-
POM-E-WR16-B(0.0-0.5)	11/9/2011	6485731-HG FS	MERCURY	< 0.000026	MG/L	0.00002	0.0002	C R	7470A	1311	METHOD

Contamination detected in Method Blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated method blank(s).

Sample ID	Date Sampled	Lab ID	Analyte	Result	Units	MDL	PQL	Qual	Analytical Methods		
									Analysis	Preprep-	Prep-
POM-E-WR16TCLP	11/9/2011	6466819-HG FS	MERCURY	0.000068	MG/L	0.00002	0.0002	C B	7470A	1311	METHOD
POM-E-WR16TCLP	11/9/2011	6466819-CD FS	CADMIUM	0.00078	MG/L	0.00027	0.0050	B	6010B	1311	3010A
POM-E-WR17aTCLP	11/9/2011	6466817-CD FS	CADMIUM	0.00070	MG/L	0.00027	0.0050	B	6010B	1311	3010A
POM-E-WR17BTCLP	11/10/2011	6466815-HG FS	MERCURY	0.00013	MG/L	0.00002	0.0002	C B	7470A	1311	METHOD
POM-E-WR17CTCLP	11/10/2011	6466816-CD FS	CADMIUM	0.0017	MG/L	0.00027	0.0050	B	6010B	1311	3010A
POM-E-WR17TCLP	11/9/2011	6466818-HG FS	MERCURY	0.00015	MG/L	0.00002	0.0002	C B	7470A	1311	METHOD
POM-E-WR18TCLP	11/10/2011	6466814-HG FS	MERCURY	0.000073	MG/L	0.00002	0.0002	C B	7470A	1311	METHOD

Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Sample ID	Date Sampled	Lab ID	Analyte	Result	Units	MDL	PQL	Qual	Analytical Methods		
									Analysis	Preprep-	Prep-
POM-E-WR14B(0.0-0.5)	12/15/2011	6503429-HG FS	MERCURY	0.0382	MG/K	0.0073	0.104	J	7471A		7471A MOD.
POM-E-WR14C(0.0-0.5)	12/15/2011	6503428-HG FS	MERCURY	328	MG/K	5.82	82.8	J	7471A		7471A MOD.
POM-E-WR15.2A(0.0-0.5)	12/15/2011	6503432-HG FS	MERCURY	12.0	MG/K	0.259	3.68	J	7471A		7471A MOD.
POM-E-WR15.2B(0.0-0.5)	12/15/2011	6503433-HG FS	MERCURY	0.243	MG/K	0.0089	0.127	J	7471A		7471A MOD.
POM-E-WR15.2C(0.0-0.5)	12/15/2011	6503438-HG FS	MERCURY	12.4	MG/K	0.238	3.39	J	7471A		7471A MOD.
POM-E-WR15.4A-B(0.0-0.5)	12/15/2011	6503441-HG FS	MERCURY	4.22	MG/K	0.0859	1.22	J	7471A		7471A MOD.
POM-E-WR15.4C(0.0-0.5)	12/15/2011	6503442-HG FS	MERCURY	16.7	MG/K	0.486	6.91	J	7471A		7471A MOD.
POM-E-WR15A(0.0-0.5)	12/15/2011	6503430-HG FS	MERCURY	5.65	MG/K	0.127	1.81	J	7471A		7471A MOD.
POM-E-WR15A(0.0-0.5)-DUP	12/15/2011	6503437-HG FS	MERCURY	7.05	MG/K	0.127	1.80	J	7471A		7471A MOD.
POM-E-WR15B(0.0-0.5)	12/15/2011	6503431-HG FS	MERCURY	0.0949	MG/K	0.0085	0.121	J	7471A		7471A MOD.
POM-E-WR18D(0.0-0.5)	12/15/2011	6503440-HG FS	MERCURY	9.75	MG/K	0.151	2.15	J	7471A		7471A MOD.
POM-E-WR18D(14-18)	12/15/2011	6503439-HG FS	MERCURY	27.5	MG/K	0.790	11.2	J	7471A		7471A MOD.

**Corporate Environmental Database
DDR Narrative Report**

Site: POM - POMPTON LAKES WORKS

2/14/2012 14:41:08

Project: WANAQUE RIVER SED PH III

Page 2 of 3

Reporting Limit: MDL

DDR Standards LABSTATS

The reported result is greater than/equal to the MDL and less than the PQL; it should be considered an estimated value.

Sample ID	Date Sampled	Lab ID	Analyte	Result	Units	MDL	PQL	Qual	Analytical Methods		
									Analysis	Preprep-	Prep-
POM-E-WR14B(0.0-0.5)	12/15/2011	6503514-GS.05mr	0.05 MM	0.50	% PA	0.50	1.0	J	D422		
POM-E-WR14B(0.0-0.5)	12/15/2011	6503514-GS.02mr	0.02 MM	0.50	% PA	0.50	1.0	J	D422		
POM-E-WR15.2B(0.0-0.5)	12/15/2011	6503518-GS.05mr	0.05 MM	0.50	% PA	0.50	1.0	J	D422		
POM-E-WR15.4C(0.0-0.5)	12/15/2011	6503523-GS.005mi	0.005 MM	0.50	% PA	0.50	1.0	J	D422		
POM-E-WR15A(0.0-0.5)	12/15/2011	6503515-GS.002mi	0.002 MM	0.50	% PA	0.50	1.0	J	D422		
POM-E-WR15A(0.0-0.5)-DUP	12/15/2011	6503520-GS.002mi	0.002 MM	0.50	% PA	0.50	1.0	J	D422		
POM-E-WR15B(0.0-0.5)	12/15/2011	6503516-GS.3mm l	0.3 MM	0.75	% PA	0.50	1.0	J	D422		
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6485733-CR FS	CHROMIUM	0.0027	MG/L	0.0011	0.0150	J	6010B	1311	3010A
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466806-GS.075mi	0.075 MM	0.68	% PA	0.50	1.0	J	D422		
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466806-GS.064mi	0.064 MM	0.50	% PA	0.50	1.0	J	D422		
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466806-GS.05mr	0.05 MM	0.50	% PA	0.50	1.0	J	D422		
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466806-GS.02mr	0.02 MM	0.50	% PA	0.50	1.0	J	D422		
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466806-GS.005mi	0.005 MM	0.50	% PA	0.50	1.0	J	D422		
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466791-TOC FS	TOTAL ORGANIC CARBON	332	MG/K	160	479	J	LLOYD KAHN		
POM-E-WR16.4-A(0.0-0.5)	11/9/2011	6466807-GS.002mi	0.002 MM	0.50	% PA	0.50	1.0	J	D422		
POM-E-WR16.4-B(0.0-0.5)	11/9/2011	6466793-TOC FS	TOTAL ORGANIC CARBON	289	MG/K	158	474	J	LLOYD KAHN		
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS.15mr	0.15 MM	0.79	% PA	0.50	1.0	J	D422		
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS.075mi	0.075 MM	0.55	% PA	0.50	1.0	J	D422		
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS.064mi	0.064 MM	0.50	% PA	0.50	1.0	J	D422		
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS.05mr	0.05 MM	0.50	% PA	0.50	1.0	J	D422		
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS.02mr	0.02 MM	0.50	% PA	0.50	1.0	J	D422		
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS.005mi	0.005 MM	0.50	% PA	0.50	1.0	J	D422		
POM-E-WR16-B(0.0-0.5)	11/9/2011	6485731-CR FS	CHROMIUM	0.0026	MG/L	0.0011	0.0150	J	6010B	1311	3010A
POM-E-WR16-B(0.0-0.5)	11/9/2011	6485731-CD FS	CADMIUM	0.0017	MG/L	0.00027	0.0050	J	6010B	1311	3010A
POM-E-WR16-B(0.0-0.5)	11/9/2011	6485731-AS FS	ARSENIC	0.0069	MG/L	0.0051	0.0200	J	6010B	1311	3010A
POM-E-WR16TCLP	11/9/2011	6466819-PB FS	LEAD	0.0030	MG/L	0.0022	0.0150	J	6010B	1311	3010A
POM-E-WR16TCLP	11/9/2011	6466819-CR FS	CHROMIUM	0.0018	MG/L	0.0011	0.0150	J	6010B	1311	3010A
POM-E-WR17BTCLP	11/10/2011	6466815-CR FS	CHROMIUM	0.0029	MG/L	0.0011	0.0150	J	6010B	1311	3010A
POM-E-WR17BTCLP	11/10/2011	6466815-CD FS	CADMIUM	0.0046	MG/L	0.00027	0.0050	J	6010B	1311	3010A
POM-E-WR17BTCLP	11/10/2011	6466815-AG FS	SILVER	0.0010	MG/L	0.00091	0.0050	J	6010B	1311	3010A
POM-E-WR17CTCLP	11/10/2011	6466816-CR FS	CHROMIUM	0.0032	MG/L	0.0011	0.0150	J	6010B	1311	3010A
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466810-GS.002mi	0.002 MM	0.50	% PA	0.50	1.0	J	D422		
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466810-GS.001mi	0.001 MM	0.50	% PA	0.50	1.0	J	D422		
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466795-TOC FS	TOTAL ORGANIC CARBON	207	MG/K	137	412	J	LLOYD KAHN		
POM-E-WR17-E(0.0-0.5)	11/9/2011	6485735-PB FS	LEAD	0.0052	MG/L	0.0022	0.0150	J	6010B	1311	3010A
POM-E-WR17-E(0.0-0.5)	11/9/2011	6466811-GS.002mi	0.002 MM	0.50	% PA	0.50	1.0	J	D422		
POM-E-WR17TCLP	11/9/2011	6466818-CR FS	CHROMIUM	0.0038	MG/L	0.0011	0.0150	J	6010B	1311	3010A
POM-E-WR17TCLP	11/9/2011	6466818-CD FS	CADMIUM	0.0023	MG/L	0.00027	0.0050	J	6010B	1311	3010A
POM-E-WR18-C(0.0-0.5)	11/10/2011	6466812-GS.005mi	0.005 MM	0.50	% PA	0.50	1.0	J	D422		
POM-E-WR18-C(0.0-0.5)-DUP	11/10/2011	6466813-GS.005mi	0.005 MM	0.50	% PA	0.50	1.0	J	D422		
POM-E-WR18TCLP	11/10/2011	6466814-CR FS	CHROMIUM	0.0035	MG/L	0.0011	0.0150	J	6010B	1311	3010A
POM-E-WR18TCLP	11/10/2011	6466814-CD FS	CADMIUM	0.0023	MG/L	0.00027	0.0050	J	6010B	1311	3010A

Corporate Environmental Database
DDR Narrative Report

Site: POM - POMPTON LAKES WORKS

2/14/2012 14:41:08

Project: WANAQUE RIVER SED PH III

Page 3 of 3

Reporting Limit: MDL

DDR Standards LABSTATS

The analysis hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Sample ID	Date Sampled	Lab ID	Analyte	Result	Units	MDL	PQL	Qual	Analytical Methods		
									Analysis	Preprep-	Prep-
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6485733-HG FS	MERCURY	0.000073	MG/L	0.00002	0.00020	J	7470A	1311	METHOD
POM-E-WR17-E(0.0-0.5)	11/9/2011	6485735-HG FS	MERCURY	0.0084	MG/L	0.00013	0.0010	J	7470A	1311	METHOD

Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit. The actual detection limits may be higher than reported.

Sample ID	Date Sampled	Lab ID	Analyte	Result	Units	MDL	PQL	Qual	Analytical Methods		
									Analysis	Preprep-	Prep-
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6485733-AG FS	SILVER	< 0.00091	MG/L	0.00091	0.0050	UJ	6010B	1311	3010A
POM-E-WR16-B(0.0-0.5)	11/9/2011	6485731-AG FS	SILVER	< 0.00091	MG/L	0.00091	0.0050	UJ	6010B	1311	3010A
POM-E-WR17-E(0.0-0.5)	11/9/2011	6485735-AG FS	SILVER	< 0.00091	MG/L	0.00091	0.0050	UJ	6010B	1311	3010A

**Corporate Environmental Database
Summary of Positive Results
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 1 of 9

Reporting Limit: MDL

Analyte/Parameter	Result	Qualifiers		Unit	Detection Limit		Analytical Methods		
		LAB	DDR		MDL	PQL	Analysis	Preprep-	Prep-
Sampling Point: FBLK-1 Date sampled: Nov 10, 2011				Sampleno: POM-K-FBLK-1 Sample type: Blank Water					
MERCURY	0.00026			MG/L	0.00002	0.00020	7470A		METHOD
Sampling Point: WR18D Date sampled: Dec 15, 2011				Sampleno: POM-E-WR18D(14-18) Sample type: Sediment					
MERCURY MOISTURE	27.5 55.9		J	MG/KG %	0.790 0.50	11.2 0.50	7471A SM 2540 G		7471A MOD.
Sampling Point: WR17aTCLP Date sampled: Nov 09, 2011				Sampleno: POM-E-WR17aTCLP Sample type: Sediment					
LEAD BARIUM CADMIUM MERCURY	0.0263 0.170 0.00070 0.123	J	B	MG/L MG/L MG/L MG/L	0.0022 0.00020 0.00027 0.0026	0.0150 0.0050 0.0050 0.0200	6010B 6010B 6010B 7470A	1311 1311 1311 1311	3010A 3010A 3010A METHOD
Sampling Point: WR16TCLP Date sampled: Nov 09, 2011				Sampleno: POM-E-WR16TCLP Sample type: Sediment					
LEAD BARIUM CADMIUM MERCURY CHROMIUM	0.0030 0.194 0.00078 0.000068 0.0018	J J J J J	J B B B J	MG/L MG/L MG/L MG/L MG/L	0.0022 0.00020 0.00027 0.00002 0.0011	0.0150 0.0050 0.0050 0.00020 0.0150	6010B 6010B 6010B 7470A 6010B	1311 1311 1311 1311 1311	3010A 3010A 3010A METHOD 3010A
Sampling Point: WR17TCLP Date sampled: Nov 09, 2011				Sampleno: POM-E-WR17TCLP Sample type: Sediment					
LEAD BARIUM ARSENIC CADMIUM MERCURY CHROMIUM	0.335 0.517 0.144 0.0023 0.00015 0.0038	J J J J J J	J J B B B J	MG/L MG/L MG/L MG/L MG/L MG/L	0.0022 0.00020 0.0051 0.00027 0.00002 0.0011	0.0150 0.0050 0.0200 0.0050 0.00020 0.0150	6010B 6010B 6010B 6010B 7470A 6010B	1311 1311 1311 1311 1311 1311	3010A 3010A 3010A 3010A METHOD 3010A
Sampling Point: WR18TCLP Date sampled: Nov 10, 2011				Sampleno: POM-E-WR18TCLP Sample type: Sediment					
LEAD BARIUM ARSENIC CADMIUM MERCURY CHROMIUM	0.715 0.452 0.102 0.0023 0.000073 0.0035	J J J J J J	J J B B B J	MG/L MG/L MG/L MG/L MG/L MG/L	0.0022 0.00020 0.0051 0.00027 0.00002 0.0011	0.0150 0.0050 0.0200 0.0050 0.00020 0.0150	6010B 6010B 6010B 6010B 7470A 6010B	1311 1311 1311 1311 1311 1311	3010A 3010A 3010A 3010A METHOD 3010A
Sampling Point: WR17CTCLP Date sampled: Nov 10, 2011				Sampleno: POM-E-WR17CTCLP Sample type: Sediment					
LEAD BARIUM ARSENIC CADMIUM MERCURY CHROMIUM	0.212 0.464 0.164 0.0017 0.0026 0.0032	J J J J J J	J J B B B J	MG/L MG/L MG/L MG/L MG/L MG/L	0.0022 0.00020 0.0051 0.00027 0.00002 0.0011	0.0150 0.0050 0.0200 0.0050 0.00020 0.0150	6010B 6010B 6010B 6010B 7470A 6010B	1311 1311 1311 1311 1311 1311	3010A 3010A 3010A 3010A METHOD 3010A

**Corporate Environmental Database
Summary of Positive Results
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 2 of 9

Reporting Limit: MDL

Analyte/Parameter	Result	Qualifiers		Unit	Detection Limit		Analytical Methods		
		LAB	DDR		MDL	PQL	Analysis	Preprep-	Prep-
Sampling Point:	WR17BTCLP	SampLeno:		POM-E-WR17BTCLP					
Date sampled:	Nov 10, 2011	Sample type:		Sediment					
LEAD	0.644			MG/L	0.0022	0.0150	6010B	1311	3010A
BARIUM	0.623			MG/L	0.0002€	0.0050	6010B	1311	3010A
SILVER	0.0010	J	J	MG/L	0.00091	0.0050	6010B	1311	3010A
ARSENIC	0.176			MG/L	0.0051	0.0200	6010B	1311	3010A
CADMIUM	0.0046	J	J	MG/L	0.00027	0.0050	6010B	1311	3010A
MERCURY	0.00013	J	B	MG/L	0.00002	0.0002C	7470A	1311	METHOD
CHROMIUM	0.0029	J	J	MG/L	0.0011	0.0150	6010B	1311	3010A

Sampling Point:	WR14B	SampLeno:		POM-E-WR14B(0.0-0.5)					
Date sampled:	Dec 15, 2011	Sample type:		Sediment					
19 MM	98.1			% PASS	0.50	1.0	D422		
75 MM	100			% PASS	0.50	1.0	D422		
0.6 MM	2.9			% PASS	0.50	1.0	D422		
0.02 MM	0.50	J	J	% PASS	0.50	1.0	D422		
0.05 MM	0.50	J	J	% PASS	0.50	1.0	D422		
1.18 MM	15.8			% PASS	0.50	1.0	D422		
2.36 MM	28.9			% PASS	0.50	1.0	D422		
3.35 MM	47.9			% PASS	0.50	1.0	D422		
37.5 MM	100			% PASS	0.50	1.0	D422		
4.75 MM	77.8			% PASS	0.50	1.0	D422		
MERCURY	0.0382	J	J	MG/KG	0.0073	0.104	7471A		7471A MOD.
MOISTURE	7.2			%	0.50	0.50	SM 2540 G		

Sampling Point:	WR15.2B	SampLeno:		POM-E-WR15.2B(0.0-0.5)					
Date sampled:	Dec 15, 2011	Sample type:		Sediment					
19 MM	100			% PASS	0.50	1.0	D422		
75 MM	100			% PASS	0.50	1.0	D422		
0.6 MM	2.1			% PASS	0.50	1.0	D422		
0.02 MM	1.0			% PASS	0.50	1.0	D422		
0.05 MM	0.50	J	J	% PASS	0.50	1.0	D422		
1.18 MM	24.7			% PASS	0.50	1.0	D422		
2.36 MM	75.4			% PASS	0.50	1.0	D422		
3.35 MM	87.2			% PASS	0.50	1.0	D422		
37.5 MM	100			% PASS	0.50	1.0	D422		
4.75 MM	93.7			% PASS	0.50	1.0	D422		
MERCURY	0.243		J	MG/KG	0.0089	0.127	7471A		7471A MOD.
MOISTURE	22.1			%	0.50	0.50	SM 2540 G		

Sampling Point:	WR15B	SampLeno:		POM-E-WR15B(0.0-0.5)					
Date sampled:	Dec 15, 2011	Sample type:		Sediment					
19 MM	100			% PASS	0.50	1.0	D422		
75 MM	100			% PASS	0.50	1.0	D422		
0.3 MM	0.75	J	J	% PASS	0.50	1.0	D422		
0.6 MM	6.0			% PASS	0.50	1.0	D422		
0.02 MM	1.5			% PASS	0.50	1.0	D422		
0.05 MM	1.0			% PASS	0.50	1.0	D422		
1.18 MM	43.2			% PASS	0.50	1.0	D422		
2.36 MM	81.9			% PASS	0.50	1.0	D422		
3.35 MM	93.9			% PASS	0.50	1.0	D422		
37.5 MM	100			% PASS	0.50	1.0	D422		
4.75 MM	98.1			% PASS	0.50	1.0	D422		
MERCURY	0.0949	J	J	MG/KG	0.0085	0.121	7471A		7471A MOD.
MOISTURE	19.3			%	0.50	0.50	SM 2540 G		

Sampling Point:	WR18-C	SampLeno:		POM-E-WR18-C(0.0-0.5)					
Date sampled:	Nov 10, 2011	Sample type:		Sediment					
19 MM	100			% PASS	0.50	1.0	D422		
75 MM	100			% PASS	0.50	1.0	D422		
0.3 MM	4.0			% PASS	0.50	1.0	D422		
0.6 MM	26.3			% PASS	0.50	1.0	D422		
0.02 MM	1.0			% PASS	0.50	1.0	D422		
0.05 MM	1.0			% PASS	0.50	1.0	D422		
0.15 MM	1.4			% PASS	0.50	1.0	D422		
1.18 MM	48.9			% PASS	0.50	1.0	D422		

Corporate Environmental Database
Summary of Positive Results
with Laboratory and DDR Qualifiers

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 3 of 9

Reporting Limit: MDL

Analyte/Parameter	Result	Qualifiers		Unit	Detection Limit		Analytical Methods		
		LAB	DDR		MDL	PQL	Analysis	Preprep-	Prep-
Sampling Point: WR18-C		Sample no:		POM-E-WR18-C(0.0-0.5)					
Date sampled: Nov 10, 2011		Sample type:		Sediment					
2.36 MM	59.2			% PASS	0.50	1.0	D422		
3.35 MM	67.0			% PASS	0.50	1.0	D422		
37.5 MM	100			% PASS	0.50	1.0	D422		
4.75 MM	75.6			% PASS	0.50	1.0	D422		
MERCURY	10.7			MG/KG	0.213	3.03	7471A		7471A MOD.
0.005 MM	0.50	J	J	% PASS	0.50	1.0	D422		
0.064 MM	1.0			% PASS	0.50	1.0	D422		
0.075 MM	1.1			% PASS	0.50	1.0	D422		
MOISTURE	19.9			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	1120			MG/KG	186	558	LLOYD KAHN		

Sampling Point: WR18-C		Sample no:		POM-E-WR18-C(0.0-0.5)-DUP					
Date sampled: Nov 10, 2011		Sample type:		Sediment					
19 MM	100			% PASS	0.50	1.0	D422		
75 MM	100			% PASS	0.50	1.0	D422		
0.3 MM	4.2			% PASS	0.50	1.0	D422		
0.6 MM	23.4			% PASS	0.50	1.0	D422		
0.02 MM	1.0			% PASS	0.50	1.0	D422		
0.05 MM	1.0			% PASS	0.50	1.0	D422		
0.15 MM	2.0			% PASS	0.50	1.0	D422		
1.18 MM	51.0			% PASS	0.50	1.0	D422		
2.36 MM	63.3			% PASS	0.50	1.0	D422		
3.35 MM	70.3			% PASS	0.50	1.0	D422		
37.5 MM	100			% PASS	0.50	1.0	D422		
4.75 MM	77.1			% PASS	0.50	1.0	D422		
MERCURY	23.7			MG/KG	0.219	3.11	7471A		7471A MOD.
0.005 MM	0.50	J	J	% PASS	0.50	1.0	D422		
0.064 MM	1.0			% PASS	0.50	1.0	D422		
0.075 MM	1.5			% PASS	0.50	1.0	D422		
MOISTURE	20.1			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	1160			MG/KG	173	518	LLOYD KAHN		

Sampling Point: WR15.4C		Sample no:		POM-E-WR15.4C(0.0-0.5)					
Date sampled: Dec 15, 2011		Sample type:		Sediment					
19 MM	100			% PASS	0.50	1.0	D422		
75 MM	100			% PASS	0.50	1.0	D422		
0.3 MM	71.8			% PASS	0.50	1.0	D422		
0.6 MM	88.2			% PASS	0.50	1.0	D422		
0.02 MM	4.0			% PASS	0.50	1.0	D422		
0.05 MM	8.5			% PASS	0.50	1.0	D422		
0.15 MM	29.5			% PASS	0.50	1.0	D422		
1.18 MM	90.9			% PASS	0.50	1.0	D422		
2.36 MM	93.8			% PASS	0.50	1.0	D422		
3.35 MM	95.4			% PASS	0.50	1.0	D422		
37.5 MM	100			% PASS	0.50	1.0	D422		
4.75 MM	97.7			% PASS	0.50	1.0	D422		
MERCURY	16.7		J	MG/KG	0.486	6.91	7471A		7471A MOD.
0.005 MM	0.50	J	J	% PASS	0.50	1.0	D422		
0.064 MM	12.0			% PASS	0.50	1.0	D422		
0.075 MM	14.7			% PASS	0.50	1.0	D422		
MOISTURE	32.6			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	8430			MG/KG	610	1830	LLOYD KAHN		

Sampling Point: WR16.2-C		Sample no:		POM-E-WR16.2-C(0.0-0.5)					
Date sampled: Nov 09, 2011		Sample type:		Sediment					
19 MM	100			% PASS	0.50	1.0	D422		
75 MM	100			% PASS	0.50	1.0	D422		
0.3 MM	3.7			% PASS	0.50	1.0	D422		
0.6 MM	15.2			% PASS	0.50	1.0	D422		
0.02 MM	0.50	J	J	% PASS	0.50	1.0	D422		
0.05 MM	0.50	J	J	% PASS	0.50	1.0	D422		
0.15 MM	1.1			% PASS	0.50	1.0	D422		
1.18 MM	31.0			% PASS	0.50	1.0	D422		
2.36 MM	46.2			% PASS	0.50	1.0	D422		
3.35 MM	54.2			% PASS	0.50	1.0	D422		
37.5 MM	100			% PASS	0.50	1.0	D422		
4.75 MM	63.4			% PASS	0.50	1.0	D422		
MERCURY	17.0			MG/KG	0.410	5.83	7471A		7471A MOD.

**Corporate Environmental Database
Summary of Positive Results
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 4 of 9

Reporting Limit: MDL

Analyte/Parameter	Result	Qualifiers		Unit	Detection Limit		Analytical Methods		
		LAB	DDR		MDL	PQL	Analysis	Preprep-	Prep-
Sampling Point: WR16.2-C		Sampeleno:		POM-E-WR16.2-C(0.0-0.5)					
Date sampled: Nov 09, 2011		Sample type:		Sediment					
0.005 MM	0.50	J	J	% PASS	0.50	1.0	D422		
0.064 MM	0.50	J	J	% PASS	0.50	1.0	D422		
0.075 MM	0.68	J	J	% PASS	0.50	1.0	D422		
MOISTURE	17.9			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	332	J	J	MG/KG	160	479	LLOYD KAHN		

Sampling Point: WR16.4-C		Sampeleno:		POM-E-WR16.4-C(0.0-0.5)					
Date sampled: Nov 09, 2011		Sample type:		Sediment					
19 MM	100			% PASS	0.50	1.0	D422		
75 MM	100			% PASS	0.50	1.0	D422		
0.3 MM	5.0			% PASS	0.50	1.0	D422		
0.6 MM	29.9			% PASS	0.50	1.0	D422		
0.02 MM	0.50	J	J	% PASS	0.50	1.0	D422		
0.05 MM	0.50	J	J	% PASS	0.50	1.0	D422		
0.15 MM	0.79	J	J	% PASS	0.50	1.0	D422		
1.18 MM	48.4			% PASS	0.50	1.0	D422		
2.36 MM	53.6			% PASS	0.50	1.0	D422		
3.35 MM	59.1			% PASS	0.50	1.0	D422		
37.5 MM	100			% PASS	0.50	1.0	D422		
4.75 MM	66.1			% PASS	0.50	1.0	D422		
MERCURY	12.4			MG/KG	0.446	6.34	7471A		7471A MOD.
0.005 MM	0.50	J	J	% PASS	0.50	1.0	D422		
0.064 MM	0.50	J	J	% PASS	0.50	1.0	D422		
0.075 MM	0.55	J	J	% PASS	0.50	1.0	D422		
MOISTURE	21.3			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	1330			MG/KG	296	888	LLOYD KAHN		

Sampling Point: WR15.4A-B		Sampeleno:		POM-E-WR15.4A-B(0.0-0.5)					
Date sampled: Dec 15, 2011		Sample type:		Sediment					
19 MM	93.9			% PASS	0.50	1.0	D422		
75 MM	100			% PASS	0.50	1.0	D422		
0.3 MM	6.6			% PASS	0.50	1.0	D422		
0.6 MM	13.4			% PASS	0.50	1.0	D422		
0.02 MM	4.0			% PASS	0.50	1.0	D422		
0.05 MM	5.0			% PASS	0.50	1.0	D422		
0.15 MM	5.6			% PASS	0.50	1.0	D422		
1.18 MM	25.4			% PASS	0.50	1.0	D422		
2.36 MM	41.6			% PASS	0.50	1.0	D422		
3.35 MM	48.3			% PASS	0.50	1.0	D422		
37.5 MM	100			% PASS	0.50	1.0	D422		
4.75 MM	58.1			% PASS	0.50	1.0	D422		
MERCURY	4.22		J	MG/KG	0.0859	1.22	7471A		7471A MOD.
0.005 MM	1.0			% PASS	0.50	1.0	D422		
0.064 MM	5.0			% PASS	0.50	1.0	D422		
0.075 MM	5.4			% PASS	0.50	1.0	D422		
MOISTURE	23.1			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	4720			MG/KG	419	1260	LLOYD KAHN		

Sampling Point: WR15A		Sampeleno:		POM-E-WR15A(0.0-0.5)					
Date sampled: Dec 15, 2011		Sample type:		Sediment					
19 MM	100			% PASS	0.50	1.0	D422		
75 MM	100			% PASS	0.50	1.0	D422		
0.3 MM	79.9			% PASS	0.50	1.0	D422		
0.6 MM	97.1			% PASS	0.50	1.0	D422		
0.02 MM	8.0			% PASS	0.50	1.0	D422		
0.05 MM	13.0			% PASS	0.50	1.0	D422		
0.15 MM	41.3			% PASS	0.50	1.0	D422		
1.18 MM	99.5			% PASS	0.50	1.0	D422		
2.36 MM	99.7			% PASS	0.50	1.0	D422		
3.35 MM	99.8			% PASS	0.50	1.0	D422		
37.5 MM	100			% PASS	0.50	1.0	D422		
4.75 MM	100			% PASS	0.50	1.0	D422		
MERCURY	5.65		J	MG/KG	0.127	1.81	7471A		7471A MOD.
0.002 MM	0.50	J	J	% PASS	0.50	1.0	D422		
0.005 MM	2.5			% PASS	0.50	1.0	D422		
0.064 MM	17.0			% PASS	0.50	1.0	D422		
0.075 MM	20.4			% PASS	0.50	1.0	D422		
MOISTURE	46.9			%	0.50	0.50	SM 2540 G		

**Corporate Environmental Database
Summary of Positive Results
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 5 of 9

Reporting Limit: MDL

Analyte/Parameter	Result	Qualifiers		Unit	Detection Limit		Analytical Methods		
		LAB	DDR		MDL	PQL	Analysis	Preprep-	Prep-
Sampling Point: WR15A		SampLeno:		POM-E-WR15A(0.0-0.5)					
Date sampled: Dec 15, 2011		Sample type:		Sediment					
TOTAL ORGANIC CARBON	20200			MG/KG	780	2340	LLOYD KAHN		
Sampling Point: WR15A		SampLeno:		POM-E-WR15A(0.0-0.5)-DUP					
Date sampled: Dec 15, 2011		Sample type:		Sediment					
19 MM	100			% PASS	0.50	1.0	D422		
75 MM	100			% PASS	0.50	1.0	D422		
0.3 MM	75.6			% PASS	0.50	1.0	D422		
0.6 MM	96.2			% PASS	0.50	1.0	D422		
0.02 MM	8.0			% PASS	0.50	1.0	D422		
0.05 MM	13.0			% PASS	0.50	1.0	D422		
0.15 MM	38.9			% PASS	0.50	1.0	D422		
1.18 MM	99.3			% PASS	0.50	1.0	D422		
2.36 MM	99.5			% PASS	0.50	1.0	D422		
3.35 MM	99.8			% PASS	0.50	1.0	D422		
37.5 MM	100			% PASS	0.50	1.0	D422		
4.75 MM	100			% PASS	0.50	1.0	D422		
MERCURY	7.05		J	MG/KG	0.127	1.80	7471A		7471A MOD.
0.002 MM	0.50	J	J	% PASS	0.50	1.0	D422		
0.005 MM	3.0			% PASS	0.50	1.0	D422		
0.064 MM	17.0			% PASS	0.50	1.0	D422		
0.075 MM	20.2			% PASS	0.50	1.0	D422		
MOISTURE	46.8			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	25800			MG/KG	671	2010	LLOYD KAHN		
Sampling Point: WR16.2-A		SampLeno:		POM-E-WR16.2-A(0.0-0.5)					
Date sampled: Nov 09, 2011		Sample type:		Sediment					
19 MM	95.7			% PASS	0.50	1.0	D422		
75 MM	100			% PASS	0.50	1.0	D422		
0.3 MM	74.3			% PASS	0.50	1.0	D422		
0.6 MM	78.2			% PASS	0.50	1.0	D422		
0.02 MM	13.0			% PASS	0.50	1.0	D422		
0.05 MM	37.0			% PASS	0.50	1.0	D422		
0.15 MM	65.8			% PASS	0.50	1.0	D422		
1.18 MM	81.2			% PASS	0.50	1.0	D422		
2.36 MM	81.5			% PASS	0.50	1.0	D422		
3.35 MM	81.6			% PASS	0.50	1.0	D422		
37.5 MM	100			% PASS	0.50	1.0	D422		
4.75 MM	82.4			% PASS	0.50	1.0	D422		
MERCURY	43.3			MG/KG	0.952	13.5	7471A		7471A MOD.
0.002 MM	2.5			% PASS	0.50	1.0	D422		
0.005 MM	7.0			% PASS	0.50	1.0	D422		
0.064 MM	54.0			% PASS	0.50	1.0	D422		
0.075 MM	61.1			% PASS	0.50	1.0	D422		
MOISTURE	65.1			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	38100			MG/KG	2550	7660	LLOYD KAHN		
Sampling Point: WR16.4-A		SampLeno:		POM-E-WR16.4-A(0.0-0.5)					
Date sampled: Nov 09, 2011		Sample type:		Sediment					
19 MM	97.1			% PASS	0.50	1.0	D422		
75 MM	100			% PASS	0.50	1.0	D422		
0.3 MM	10.7			% PASS	0.50	1.0	D422		
0.6 MM	26.6			% PASS	0.50	1.0	D422		
0.02 MM	1.0			% PASS	0.50	1.0	D422		
0.05 MM	2.0			% PASS	0.50	1.0	D422		
0.15 MM	4.0			% PASS	0.50	1.0	D422		
1.18 MM	50.7			% PASS	0.50	1.0	D422		
2.36 MM	60.7			% PASS	0.50	1.0	D422		
3.35 MM	68.7			% PASS	0.50	1.0	D422		
37.5 MM	97.1			% PASS	0.50	1.0	D422		
4.75 MM	76.4			% PASS	0.50	1.0	D422		
MERCURY	8.99			MG/KG	0.229	3.25	7471A		7471A MOD.
0.002 MM	0.50	J	J	% PASS	0.50	1.0	D422		
0.005 MM	1.0			% PASS	0.50	1.0	D422		
0.064 MM	2.0			% PASS	0.50	1.0	D422		
0.075 MM	2.2			% PASS	0.50	1.0	D422		
MOISTURE	27.9			%	0.50	0.50	SM 2540 G		

**Corporate Environmental Database
Summary of Positive Results
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 6 of 9

Reporting Limit: MDL

Analyte/Parameter	Result	Qualifiers		Unit	Detection Limit		Analytical Methods		
		LAB	DDR		MDL	PQL	Analysis	Preprep-	Prep-
Sampling Point: WR16.4-A		SampLeno:		POM-E-WR16.4-A(0.0-0.5)					
Date sampled: Nov 09, 2011		Sample type:		Sediment					
TOTAL ORGANIC CARBON	17400			MG/KG	945	2830	LLOYD KAHN		
Sampling Point: WR14C		SampLeno:		POM-E-WR14C(0.0-0.5)					
Date sampled: Dec 15, 2011		Sample type:		Sediment					
19 MM	100			% PASS	0.50	1.0	D422		
75 MM	100			% PASS	0.50	1.0	D422		
0.3 MM	86.7			% PASS	0.50	1.0	D422		
0.6 MM	93.9			% PASS	0.50	1.0	D422		
0.02 MM	16.0			% PASS	0.50	1.0	D422		
0.05 MM	25.5			% PASS	0.50	1.0	D422		
0.15 MM	58.2			% PASS	0.50	1.0	D422		
1.18 MM	96.1			% PASS	0.50	1.0	D422		
2.36 MM	97.1			% PASS	0.50	1.0	D422		
3.35 MM	97.4			% PASS	0.50	1.0	D422		
37.5 MM	100			% PASS	0.50	1.0	D422		
4.75 MM	97.6			% PASS	0.50	1.0	D422		
MERCURY	328	J		MG/KG	5.82	82.8	7471A		7471A MOD.
0.001 MM	1.0			% PASS	0.50	1.0	D422		
0.002 MM	2.0			% PASS	0.50	1.0	D422		
0.005 MM	6.0			% PASS	0.50	1.0	D422		
0.064 MM	31.0			% PASS	0.50	1.0	D422		
0.075 MM	34.3			% PASS	0.50	1.0	D422		
MOISTURE	43.9			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	9510			MG/KG	947	2840	LLOYD KAHN		
Sampling Point: WR18D		SampLeno:		POM-E-WR18D(0.0-0.5)					
Date sampled: Dec 15, 2011		Sample type:		Sediment					
19 MM	100			% PASS	0.50	1.0	D422		
75 MM	100			% PASS	0.50	1.0	D422		
0.3 MM	80.7			% PASS	0.50	1.0	D422		
0.6 MM	88.4			% PASS	0.50	1.0	D422		
0.02 MM	48.0			% PASS	0.50	1.0	D422		
0.05 MM	61.0			% PASS	0.50	1.0	D422		
0.15 MM	74.8			% PASS	0.50	1.0	D422		
1.18 MM	98.2			% PASS	0.50	1.0	D422		
2.36 MM	98.5			% PASS	0.50	1.0	D422		
3.35 MM	99.0			% PASS	0.50	1.0	D422		
37.5 MM	100			% PASS	0.50	1.0	D422		
4.75 MM	99.5			% PASS	0.50	1.0	D422		
MERCURY	9.75	J		MG/KG	0.151	2.15	7471A		7471A MOD.
0.001 MM	10.0			% PASS	0.50	1.0	D422		
0.002 MM	17.0			% PASS	0.50	1.0	D422		
0.005 MM	27.0			% PASS	0.50	1.0	D422		
0.064 MM	67.0			% PASS	0.50	1.0	D422		
0.075 MM	69.5			% PASS	0.50	1.0	D422		
MOISTURE	54.9			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	19400			MG/KG	1890	5670	LLOYD KAHN		
Sampling Point: WR17-D		SampLeno:		POM-E-WR17-D(0.0-0.5)					
Date sampled: Nov 09, 2011		Sample type:		Sediment					
19 MM	100			% PASS	0.50	1.0	D422		
75 MM	100			% PASS	0.50	1.0	D422		
0.3 MM	2.7			% PASS	0.50	1.0	D422		
0.6 MM	12.8			% PASS	0.50	1.0	D422		
0.02 MM	1.5			% PASS	0.50	1.0	D422		
0.05 MM	1.5			% PASS	0.50	1.0	D422		
0.15 MM	2.1			% PASS	0.50	1.0	D422		
1.18 MM	46.1			% PASS	0.50	1.0	D422		
2.36 MM	72.0			% PASS	0.50	1.0	D422		
3.35 MM	82.7			% PASS	0.50	1.0	D422		
37.5 MM	100			% PASS	0.50	1.0	D422		
4.75 MM	87.9			% PASS	0.50	1.0	D422		
MERCURY	1.48			MG/KG	0.0439	0.624	7471A		7471A MOD.
0.001 MM	0.50	J	J	% PASS	0.50	1.0	D422		
0.002 MM	0.50	J	J	% PASS	0.50	1.0	D422		
0.005 MM	1.0			% PASS	0.50	1.0	D422		
0.064 MM	1.5			% PASS	0.50	1.0	D422		
0.075 MM	1.9			% PASS	0.50	1.0	D422		

**Corporate Environmental Database
Summary of Positive Results
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 7 of 9

Reporting Limit: MDL

Analyte/Parameter	Result	Qualifiers		Unit	Detection Limit		Analytical Methods		
		LAB	DDR		MDL	PQL	Analysis	Preprep-	Prep-
Sampling Point: WR17-D		Sampleno:		POM-E-WR17-D(0.0-0.5)					
Date sampled: Nov 09, 2011		Sample type:		Sediment					
MOISTURE	22.1			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	207	J	J	MG/KG	137	412	LLOYD KAHN		
Sampling Point: WR15.2A		Sampleno:		POM-E-WR15.2A(0.0-0.5)					
Date sampled: Dec 15, 2011		Sample type:		Sediment					
19 MM	100			% PASS	0.50	1.0	D422		
75 MM	100			% PASS	0.50	1.0	D422		
0.3 MM	89.2			% PASS	0.50	1.0	D422		
0.6 MM	97.0			% PASS	0.50	1.0	D422		
0.02 MM	16.0			% PASS	0.50	1.0	D422		
0.05 MM	25.0			% PASS	0.50	1.0	D422		
0.15 MM	60.3			% PASS	0.50	1.0	D422		
1.18 MM	99.2			% PASS	0.50	1.0	D422		
2.36 MM	99.6			% PASS	0.50	1.0	D422		
3.35 MM	99.8			% PASS	0.50	1.0	D422		
37.5 MM	100			% PASS	0.50	1.0	D422		
4.75 MM	99.9			% PASS	0.50	1.0	D422		
MERCURY	12.0		J	MG/KG	0.259	3.68	7471A		7471A MOD.
0.001 MM	1.0			% PASS	0.50	1.0	D422		
0.002 MM	2.5			% PASS	0.50	1.0	D422		
0.005 MM	4.0			% PASS	0.50	1.0	D422		
0.064 MM	33.0			% PASS	0.50	1.0	D422		
0.075 MM	36.7			% PASS	0.50	1.0	D422		
MOISTURE	45.7			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	20100			MG/KG	2140	6410	LLOYD KAHN		
Sampling Point: WR15.2C		Sampleno:		POM-E-WR15.2C(0.0-0.5)					
Date sampled: Dec 15, 2011		Sample type:		Sediment					
19 MM	100			% PASS	0.50	1.0	D422		
75 MM	100			% PASS	0.50	1.0	D422		
0.3 MM	53.9			% PASS	0.50	1.0	D422		
0.6 MM	96.1			% PASS	0.50	1.0	D422		
0.02 MM	7.0			% PASS	0.50	1.0	D422		
0.05 MM	10.5			% PASS	0.50	1.0	D422		
0.15 MM	24.2			% PASS	0.50	1.0	D422		
1.18 MM	99.3			% PASS	0.50	1.0	D422		
2.36 MM	99.6			% PASS	0.50	1.0	D422		
3.35 MM	99.7			% PASS	0.50	1.0	D422		
37.5 MM	100			% PASS	0.50	1.0	D422		
4.75 MM	99.8			% PASS	0.50	1.0	D422		
MERCURY	12.4		J	MG/KG	0.238	3.39	7471A		7471A MOD.
0.001 MM	2.0			% PASS	0.50	1.0	D422		
0.002 MM	2.0			% PASS	0.50	1.0	D422		
0.005 MM	2.0			% PASS	0.50	1.0	D422		
0.064 MM	13.0			% PASS	0.50	1.0	D422		
0.075 MM	14.3			% PASS	0.50	1.0	D422		
MOISTURE	44.6			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	14000			MG/KG	760	2280	LLOYD KAHN		
Sampling Point: WR16.4-B		Sampleno:		POM-E-WR16.4-B(0.0-0.5)					
Date sampled: Nov 09, 2011		Sample type:		Sediment					
19 MM	99.7			% PASS	0.50	1.0	D422		
75 MM	100			% PASS	0.50	1.0	D422		
0.3 MM	7.5			% PASS	0.50	1.0	D422		
0.6 MM	29.6			% PASS	0.50	1.0	D422		
0.02 MM	1.0			% PASS	0.50	1.0	D422		
0.05 MM	1.0			% PASS	0.50	1.0	D422		
0.15 MM	2.6			% PASS	0.50	1.0	D422		
1.18 MM	67.0			% PASS	0.50	1.0	D422		
2.36 MM	86.3			% PASS	0.50	1.0	D422		
3.35 MM	92.2			% PASS	0.50	1.0	D422		
37.5 MM	100			% PASS	0.50	1.0	D422		
4.75 MM	94.8			% PASS	0.50	1.0	D422		
MERCURY	12.4			MG/KG	0.427	6.07	7471A		7471A MOD.
0.001 MM	1.0			% PASS	0.50	1.0	D422		
0.002 MM	1.0			% PASS	0.50	1.0	D422		
0.005 MM	1.0			% PASS	0.50	1.0	D422		
0.064 MM	1.0			% PASS	0.50	1.0	D422		

**Corporate Environmental Database
Summary of Positive Results
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 8 of 9

Reporting Limit: MDL

Analyte/Parameter	Result	Qualifiers		Unit	Detection Limit		Analytical Methods		
		LAB	DDR		MDL	PQL	Analysis	Preprep-	Prep-
Sampling Point: WR16.4-B		Sample no:		POM-E-WR16.4-B(0.0-0.5)					
Date sampled: Nov 09, 2011		Sample type:		Sediment					
0.075 MM	1.2			% PASS	0.50	1.0	D422		
MOISTURE	21.6			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	289	J	J	MG/KG	158	474	LLOYD KAHN		

Sampling Point: WR17-E		Sample no:		POM-E-WR17-E(0.0-0.5)					
Date sampled: Nov 09, 2011		Sample type:		Sediment					
LEAD	0.0052	J	J	MG/L	0.0022	0.0150	6010B	1311	3010A
19 MM	99.6			% PASS	0.50	1.0	D422		
75 MM	100			% PASS	0.50	1.0	D422		
0.3 MM	10			% PASS	0.50	1.0	D422		
0.6 MM	37.4			% PASS	0.50	1.0	D422		
BARIUM	0.179			MG/L	0.00026	0.0050	6010B	1311	3010A
0.02 MM	1.0			% PASS	0.50	1.0	D422		
0.05 MM	1.0			% PASS	0.50	1.0	D422		
0.15 MM	4.4			% PASS	0.50	1.0	D422		
1.18 MM	96.3			% PASS	0.50	1.0	D422		
2.36 MM	99.4			% PASS	0.50	1.0	D422		
3.35 MM	99.5			% PASS	0.50	1.0	D422		
37.5 MM	100			% PASS	0.50	1.0	D422		
4.75 MM	99.6			% PASS	0.50	1.0	D422		
MERCURY	10.3			MG/KG	0.434	6.17	7471A		7471A MOD.
MERCURY	1430			MG/KG	17.9	254	7471A		7471A MOD.
MERCURY	0.0084			MG/L	0.00013	0.0010	7470A	1311	METHOD
0.002 MM	0.50	J	J	% PASS	0.50	1.0	D422		
0.005 MM	1.0			% PASS	0.50	1.0	D422		
0.064 MM	2.0			% PASS	0.50	1.0	D422		
0.075 MM	2.4			% PASS	0.50	1.0	D422		
MOISTURE	19.8			%	0.50	0.50	SM 2540 G		
MOISTURE	24.2			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	919			MG/KG	137	412	LLOYD KAHN		

Sampling Point: WR16-B		Sample no:		POM-E-WR16-B(0.0-0.5)					
Date sampled: Nov 09, 2011		Sample type:		Sediment					
LEAD	0.0760			MG/L	0.0022	0.0150	6010B	1311	3010A
19 MM	93.4			% PASS	0.50	1.0	D422		
75 MM	100			% PASS	0.50	1.0	D422		
0.3 MM	45.4			% PASS	0.50	1.0	D422		
0.6 MM	48.3			% PASS	0.50	1.0	D422		
BARIUM	0.634			MG/L	0.00026	0.0050	6010B	1311	3010A
0.02 MM	13.0			% PASS	0.50	1.0	D422		
0.05 MM	28.0			% PASS	0.50	1.0	D422		
0.15 MM	44.5			% PASS	0.50	1.0	D422		
1.18 MM	52.2			% PASS	0.50	1.0	D422		
2.36 MM	55.3			% PASS	0.50	1.0	D422		
3.35 MM	64.6			% PASS	0.50	1.0	D422		
37.5 MM	100			% PASS	0.50	1.0	D422		
4.75 MM	74.0			% PASS	0.50	1.0	D422		
ARSENIC	0.0069	J	J	MG/L	0.0051	0.0200	6010B	1311	3010A
CADMIUM	0.0017	J	J	MG/L	0.00027	0.0050	6010B	1311	3010A
MERCURY	132			MG/KG	2.22	31.5	7471A		7471A MOD.
MERCURY	92.9			MG/KG	1.11	15.7	7471A		7471A MOD.
0.001 MM	1.0			% PASS	0.50	1.0	D422		
0.002 MM	3.0			% PASS	0.50	1.0	D422		
0.005 MM	7.0			% PASS	0.50	1.0	D422		
0.064 MM	39.0			% PASS	0.50	1.0	D422		
0.075 MM	44.1			% PASS	0.50	1.0	D422		
CHROMIUM	0.0026	J	J	MG/L	0.0011	0.0150	6010B	1311	3010A
MOISTURE	37.1			%	0.50	0.50	SM 2540 G		
MOISTURE	40.9			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	15900			MG/KG	1030	3090	LLOYD KAHN		

Sampling Point: WR16.2-B		Sample no:		POM-E-WR16.2-B(0.0-0.5)					
Date sampled: Nov 09, 2011		Sample type:		Sediment					
LEAD	0.672			MG/L	0.0022	0.0150	6010B	1311	3010A
19 MM	89.8			% PASS	0.50	1.0	D422		
75 MM	100			% PASS	0.50	1.0	D422		
0.3 MM	43.7			% PASS	0.50	1.0	D422		
0.6 MM	49.3			% PASS	0.50	1.0	D422		

**Corporate Environmental Database
Summary of Positive Results
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 9 of 9

Reporting Limit: MDL

Analyte/Parameter	Result	Qualifiers		Unit	Detection Limit		Analytical Methods		
		LAB	DDR		MDL	PQL	Analysis	Preprep-	Prep-
Sampling Point: WR16.2-B		Sample no:		POM-E-WR16.2-B(0.0-0.5)					
Date sampled: Nov 09, 2011		Sample type:		Sediment					
BARIUM	0.316			MG/L	0.00026	0.0050	6010B	1311	3010A
0.02 MM	7.0			% PASS	0.50	1.0	D422		
0.05 MM	20.0			% PASS	0.50	1.0	D422		
0.15 MM	41.3			% PASS	0.50	1.0	D422		
1.18 MM	57.8			% PASS	0.50	1.0	D422		
2.36 MM	62.7			% PASS	0.50	1.0	D422		
3.35 MM	68.8			% PASS	0.50	1.0	D422		
37.5 MM	100			% PASS	0.50	1.0	D422		
4.75 MM	73.3			% PASS	0.50	1.0	D422		
ARSENIC	0.0554			MG/L	0.0051	0.0200	6010B	1311	3010A
CADMIUM	0.0062			MG/L	0.00027	0.0050	6010B	1311	3010A
MERCURY	393			MG/KG	14.8	211	7471A		7471A MOD.
MERCURY	416			MG/KG	13.4	191	7471A		7471A MOD.
MERCURY	0.000073	J	J	MG/L	0.00002	0.00020	7470A	1311	METHOD
0.001 MM	1.0			% PASS	0.50	1.0	D422		
0.002 MM	2.0			% PASS	0.50	1.0	D422		
0.005 MM	3.0			% PASS	0.50	1.0	D422		
0.064 MM	34.0			% PASS	0.50	1.0	D422		
0.075 MM	38.8			% PASS	0.50	1.0	D422		
CHROMIUM	0.0027	J	J	MG/L	0.0011	0.0150	6010B	1311	3010A
MOISTURE	49.7			%	0.50	0.50	SM 2540 G		
MOISTURE	54.0			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	3840			MG/KG	472	1420	LLOYD KAHN		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 1 of 25

Reporting Limit: MDL

Location: WR18TCLP

Field Sample ID: POM-E-WR18TCLP

Date Sampled: 11/10/2011 09:50:00

Sample Type: Sediment

Lab Sample ID: 6466814-AG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
SILVER	< 0.00091	U		MG/L	1	0.0050	0.00091	11/17/11	6010B	3010A	1311
ARSENIC	0.102			MG/L	1	0.0200	0.0051	11/16/11	6010B	3010A	1311
BARIUM	0.452			MG/L	1	0.0050	0.00026	11/16/11	6010B	3010A	1311
CADMIUM	0.0023	J	J	MG/L	1	0.0050	0.00027	11/16/11	6010B	3010A	1311
CHROMIUM	0.0035	J	J	MG/L	1	0.0150	0.0011	11/16/11	6010B	3010A	1311
MERCURY	0.000073	J	B	MG/L	1	0.00020	0.000026	11/16/11	7470A	METHOD	1311
LEAD	0.715			MG/L	1	0.0150	0.0022	11/16/11	6010B	3010A	1311
SELENIUM	< 0.0069	U		MG/L	1	0.0200	0.0069	11/16/11	6010B	3010A	1311

Location: WR17BTCLP

Field Sample ID: POM-E-WR17BTCLP

Date Sampled: 11/10/2011 08:50:00

Sample Type: Sediment

Lab Sample ID: 6466815-AG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
Analytes											
SILVER	0.0010	J	J	MG/L	1	0.0050	0.00091	11/17/11	6010B	3010A	1311
ARSENIC	0.176			MG/L	1	0.0200	0.0051	11/16/11	6010B	3010A	1311
BARIUM	0.623			MG/L	1	0.0050	0.00026	11/16/11	6010B	3010A	1311
CADMIUM	0.0046	J	J	MG/L	1	0.0050	0.00027	11/16/11	6010B	3010A	1311
CHROMIUM	0.0029	J	J	MG/L	1	0.0150	0.0011	11/16/11	6010B	3010A	1311
MERCURY	0.00013	J	B	MG/L	1	0.00020	0.000026	11/16/11	7470A	METHOD	1311
LEAD	0.644			MG/L	1	0.0150	0.0022	11/16/11	6010B	3010A	1311
SELENIUM	< 0.0069	U		MG/L	1	0.0200	0.0069	11/16/11	6010B	3010A	1311

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 2 of 25

Reporting Limit: MDL

Location: WR17CTCLP

Field Sample ID: POM-E-WR17CTCLP

Date Sampled: 11/10/2011 08:30:00

Sample Type: Sediment

Lab Sample ID: 6466816-AG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
SILVER	< 0.00091	U		MG/L	1	0.0050	0.00091	11/17/11	6010B	3010A	1311
ARSENIC	0.164			MG/L	1	0.0200	0.0051	11/16/11	6010B	3010A	1311
BARIUM	0.464			MG/L	1	0.0050	0.00026	11/16/11	6010B	3010A	1311
CADMIUM	0.0017	J	B	MG/L	1	0.0050	0.00027	11/16/11	6010B	3010A	1311
CHROMIUM	0.0032	J	J	MG/L	1	0.0150	0.0011	11/16/11	6010B	3010A	1311
MERCURY	0.0026			MG/L	1	0.00020	0.000026	11/16/11	7470A	METHOD	1311
LEAD	0.212			MG/L	1	0.0150	0.0022	11/16/11	6010B	3010A	1311
SELENIUM	< 0.0069	U		MG/L	1	0.0200	0.0069	11/16/11	6010B	3010A	1311

Location: WR17aTCLP

Field Sample ID: POM-E-WR17aTCLP

Date Sampled: 11/9/2011 14:50:00

Sample Type: Sediment

Lab Sample ID: 6466817-AG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
SILVER	< 0.00091	U		MG/L	1	0.0050	0.00091	11/17/11	6010B	3010A	1311
ARSENIC	< 0.0051	U		MG/L	1	0.0200	0.0051	11/16/11	6010B	3010A	1311
BARIUM	0.170			MG/L	1	0.0050	0.00026	11/16/11	6010B	3010A	1311
CADMIUM	0.00070	J	B	MG/L	1	0.0050	0.00027	11/16/11	6010B	3010A	1311
CHROMIUM	< 0.0011	U		MG/L	1	0.0150	0.0011	11/16/11	6010B	3010A	1311
MERCURY	0.123			MG/L	100	0.0200	0.0026	11/16/11	7470A	METHOD	1311
LEAD	0.0263			MG/L	1	0.0150	0.0022	11/16/11	6010B	3010A	1311
SELENIUM	< 0.0069	U		MG/L	1	0.0200	0.0069	11/16/11	6010B	3010A	1311

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 3 of 25

Reporting Limit: MDL

Location: WR17TCLP

Field Sample ID: POM-E-WR17TCLP

Date Sampled: 11/9/2011 14:20:00

Sample Type: Sediment

Lab Sample ID: 6466818-AG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
Analytes											
SILVER	< 0.00091	U		MG/L	1	0.0050	0.00091	11/17/11	6010B	3010A	1311
ARSENIC	0.144			MG/L	1	0.0200	0.0051	11/16/11	6010B	3010A	1311
BARIUM	0.517			MG/L	1	0.0050	0.00026	11/16/11	6010B	3010A	1311
CADMIUM	0.0023	J	J	MG/L	1	0.0050	0.00027	11/16/11	6010B	3010A	1311
CHROMIUM	0.0038	J	J	MG/L	1	0.0150	0.0011	11/16/11	6010B	3010A	1311
MERCURY	0.00015	J	B	MG/L	1	0.00020	0.000026	11/16/11	7470A	METHOD	1311
LEAD	0.335			MG/L	1	0.0150	0.0022	11/16/11	6010B	3010A	1311
SELENIUM	< 0.0069	U		MG/L	1	0.0200	0.0069	11/16/11	6010B	3010A	1311

Location: WR16TCLP

Field Sample ID: POM-E-WR16TCLP

Date Sampled: 11/9/2011 12:15:00

Sample Type: Sediment

Lab Sample ID: 6466819-AG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
Analytes											
SILVER	< 0.00091	U		MG/L	1	0.0050	0.00091	11/17/11	6010B	3010A	1311
ARSENIC	< 0.0051	U		MG/L	1	0.0200	0.0051	11/16/11	6010B	3010A	1311
BARIUM	0.194			MG/L	1	0.0050	0.00026	11/16/11	6010B	3010A	1311
CADMIUM	0.00078	J	B	MG/L	1	0.0050	0.00027	11/16/11	6010B	3010A	1311
CHROMIUM	0.0018	J	J	MG/L	1	0.0150	0.0011	11/16/11	6010B	3010A	1311
MERCURY	0.000068	J	B	MG/L	1	0.00020	0.000026	11/16/11	7470A	METHOD	1311
LEAD	0.0030	J	J	MG/L	1	0.0150	0.0022	11/16/11	6010B	3010A	1311
SELENIUM	< 0.0069	U		MG/L	1	0.0200	0.0069	11/16/11	6010B	3010A	1311

Location: FBLK-1

Field Sample ID: POM-K-FBLK-1

Date Sampled: 11/10/2011 11:10:00

Sample Type: Blank Water

Lab Sample ID: 6466802-HG FB

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	0.00026			MG/L	1	0.00020	0.000026	11/15/11	7470A	METHOD	
TOTAL ORGANIC CARBON	< 0.50	U		MG/L	1	1.0	0.50	11/15/11	SM 5310 C		

Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 4 of 25

Reporting Limit: MDL

Location: WR16-B

Field Sample ID: POM-E-WR16-B(0.0-0.5)

Date Sampled: 11/9/2011 13:00:00

Sample Type: Sediment

Lab Sample ID: 6466788-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	132			MG/KG	200	31.5	2.22	11/15/11	7471A	7471A MOD.	
MOISTURE	40.9			%	1	0.50	0.50	11/15/11	SM 2540 G		
TOTAL ORGANIC CARBON	15900			MG/KG	1	3090	1030	11/14/11	LLOYD KAHN		
0.001 MM	1.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.002 MM	3.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.005 MM	7.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.02 MM	13.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.05 MM	28.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.064 MM	39.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.075 MM	44.1			% PASSII1		1.0	0.50	11/12/11	D422		
0.15 MM	44.5			% PASSII1		1.0	0.50	11/12/11	D422		
0.3 MM	45.4			% PASSII1		1.0	0.50	11/12/11	D422		
0.6 MM	48.3			% PASSII1		1.0	0.50	11/12/11	D422		
1.18 MM	52.2			% PASSII1		1.0	0.50	11/12/11	D422		
19 MM	93.4			% PASSII1		1.0	0.50	11/12/11	D422		
2.36 MM	55.3			% PASSII1		1.0	0.50	11/12/11	D422		
3.35 MM	64.6			% PASSII1		1.0	0.50	11/12/11	D422		
37.5 MM	100			% PASSII1		1.0	0.50	11/12/11	D422		
4.75 MM	74.0			% PASSII1		1.0	0.50	11/12/11	D422		
75 MM	100			% PASSII1		1.0	0.50	11/12/11	D422		
MERCURY	92.9			MG/KG	100	15.7	1.11	12/05/11	7471A	7471A MOD.	
MOISTURE	37.1			%	1	0.50	0.50	12/02/11	SM 2540 G		
SILVER	< 0.00091	U	UJ	MG/L	1	0.0050	0.00091	12/05/11	6010B	3010A	1311
ARSENIC	0.0069	J	J	MG/L	1	0.0200	0.0051	12/05/11	6010B	3010A	1311
BARIUM	0.634			MG/L	1	0.0050	0.00026	12/05/11	6010B	3010A	1311
CADMIUM	0.0017	J	J	MG/L	1	0.0050	0.00027	12/05/11	6010B	3010A	1311
CHROMIUM	0.0026	J	J	MG/L	1	0.0150	0.0011	12/05/11	6010B	3010A	1311
MERCURY	< 0.000026	U	R	MG/L	1	0.00020	0.000026	12/05/11	7470A	METHOD	1311
LEAD	0.0760			MG/L	1	0.0150	0.0022	12/05/11	6010B	3010A	1311
SELENIUM	< 0.0069	U		MG/L	1	0.0200	0.0069	12/05/11	6010B	3010A	1311

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 5 of 25

Reporting Limit: MDL

Location: WR16.2-A

Field Sample ID: POM-E-WR16.2-A(0.0-0.5)

Date Sampled: 11/9/2011 12:30:00

Sample Type: Sediment

Lab Sample ID: 6466789-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	43.3			MG/KG	50	13.5	0.952	11/15/11	7471A	7471A MOD.	
MOISTURE	65.1			%	1	0.50	0.50	11/15/11	SM 2540 G		
TOTAL ORGANIC CARBON	38100			MG/KG	1	7660	2550	11/14/11	LLOYD KAHN		
0.001 MM	< 0.50	U		% PASSII1		1.0	0.50	11/12/11	D422		
0.002 MM	2.5			% PASSII1		1.0	0.50	11/12/11	D422		
0.005 MM	7.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.02 MM	13.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.05 MM	37.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.064 MM	54.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.075 MM	61.1			% PASSII1		1.0	0.50	11/12/11	D422		
0.15 MM	65.8			% PASSII1		1.0	0.50	11/12/11	D422		
0.3 MM	74.3			% PASSII1		1.0	0.50	11/12/11	D422		
0.6 MM	78.2			% PASSII1		1.0	0.50	11/12/11	D422		
1.18 MM	81.2			% PASSII1		1.0	0.50	11/12/11	D422		
19 MM	95.7			% PASSII1		1.0	0.50	11/12/11	D422		
2.36 MM	81.5			% PASSII1		1.0	0.50	11/12/11	D422		
3.35 MM	81.6			% PASSII1		1.0	0.50	11/12/11	D422		
37.5 MM	100			% PASSII1		1.0	0.50	11/12/11	D422		
4.75 MM	82.4			% PASSII1		1.0	0.50	11/12/11	D422		
75 MM	100			% PASSII1		1.0	0.50	11/12/11	D422		

Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 6 of 25

Reporting Limit: MDL

Location: WR16.2-B

Field Sample ID: POM-E-WR16.2-B(0.0-0.5)

Date Sampled: 11/9/2011 12:45:00

Sample Type: Sediment

Lab Sample ID: 6466790-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis	Analytical Methods		
		LAB	DDR			PQL	MDL	Date	Analysis-	Prep-	Preprep-
Analytes											
MERCURY	393			MG/KG	1000	211	14.8	11/15/11	7471A	7471A MOD.	
MOISTURE	54.0			%	1	0.50	0.50	11/15/11	SM 2540 G		
TOTAL ORGANIC CARBON	3840			MG/KG	1	1420	472	11/14/11	LLOYD KAHN		
0.001 MM	1.0			% PASSII1	1.0		0.50	11/12/11	D422		
0.002 MM	2.0			% PASSII1	1.0		0.50	11/12/11	D422		
0.005 MM	3.0			% PASSII1	1.0		0.50	11/12/11	D422		
0.02 MM	7.0			% PASSII1	1.0		0.50	11/12/11	D422		
0.05 MM	20.0			% PASSII1	1.0		0.50	11/12/11	D422		
0.064 MM	34.0			% PASSII1	1.0		0.50	11/12/11	D422		
0.075 MM	38.8			% PASSII1	1.0		0.50	11/12/11	D422		
0.15 MM	41.3			% PASSII1	1.0		0.50	11/12/11	D422		
0.3 MM	43.7			% PASSII1	1.0		0.50	11/12/11	D422		
0.6 MM	49.3			% PASSII1	1.0		0.50	11/12/11	D422		
1.18 MM	57.8			% PASSII1	1.0		0.50	11/12/11	D422		
19 MM	89.8			% PASSII1	1.0		0.50	11/12/11	D422		
2.36 MM	62.7			% PASSII1	1.0		0.50	11/12/11	D422		
3.35 MM	68.8			% PASSII1	1.0		0.50	11/12/11	D422		
37.5 MM	100			% PASSII1	1.0		0.50	11/12/11	D422		
4.75 MM	73.3			% PASSII1	1.0		0.50	11/12/11	D422		
75 MM	100			% PASSII1	1.0		0.50	11/12/11	D422		
MERCURY	416			MG/KG	1000	191	13.4	12/05/11	7471A	7471A MOD.	
MOISTURE	49.7			%	1	0.50	0.50	12/01/11	SM 2540 G		
SILVER	< 0.00091	U	UJ	MG/L	1	0.0050	0.00091	12/05/11	6010B	3010A	1311
ARSENIC	0.0554			MG/L	1	0.0200	0.0051	12/05/11	6010B	3010A	1311
BARIUM	0.316			MG/L	1	0.0050	0.00026	12/05/11	6010B	3010A	1311
CADMIUM	0.0062			MG/L	1	0.0050	0.00027	12/05/11	6010B	3010A	1311
CHROMIUM	0.0027	J	J	MG/L	1	0.0150	0.0011	12/05/11	6010B	3010A	1311
MERCURY	0.000073	J	J	MG/L	1	0.00020	0.000026	12/05/11	7470A	METHOD	1311
LEAD	0.672			MG/L	1	0.0150	0.0022	12/05/11	6010B	3010A	1311
SELENIUM	< 0.0069	U		MG/L	1	0.0200	0.0069	12/05/11	6010B	3010A	1311

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 7 of 25

Reporting Limit: MDL

Location: WR16.2-C

Field Sample ID: POM-E-WR16.2-C(0.0-0.5)

Date Sampled: 11/9/2011 13:00:00

Sample Type: Sediment

Lab Sample ID: 6466791-HG FS

Analyte/Parameter	Result	Qualifiers			Unit	Dil.	Detection Limit		Analysis	Analytical Methods		
		LAB	DDR				PQL	MDL	Date	Analysis-	Prep-	Preprep-
<u>Analytes</u>												
MERCURY	17.0			MG/KG	50	5.83	0.410	11/15/11	7471A		7471A MOD.	
MOISTURE	17.9			%	1	0.50	0.50	11/15/11	SM 2540 G			
TOTAL ORGANIC CARBON	332	J	J	MG/KG	1	479	160	11/14/11	LLOYD KAHN			
0.001 MM	< 0.50	U		% PASSII1		1.0	0.50	11/12/11	D422			
0.002 MM	< 0.50	U		% PASSII1		1.0	0.50	11/12/11	D422			
0.005 MM	0.50	J	J	% PASSII1		1.0	0.50	11/12/11	D422			
0.02 MM	0.50	J	J	% PASSII1		1.0	0.50	11/12/11	D422			
0.05 MM	0.50	J	J	% PASSII1		1.0	0.50	11/12/11	D422			
0.064 MM	0.50	J	J	% PASSII1		1.0	0.50	11/12/11	D422			
0.075 MM	0.68	J	J	% PASSII1		1.0	0.50	11/12/11	D422			
0.15 MM	1.1			% PASSII1		1.0	0.50	11/12/11	D422			
0.3 MM	3.7			% PASSII1		1.0	0.50	11/12/11	D422			
0.6 MM	15.2			% PASSII1		1.0	0.50	11/12/11	D422			
1.18 MM	31.0			% PASSII1		1.0	0.50	11/12/11	D422			
19 MM	100			% PASSII1		1.0	0.50	11/12/11	D422			
2.36 MM	46.2			% PASSII1		1.0	0.50	11/12/11	D422			
3.35 MM	54.2			% PASSII1		1.0	0.50	11/12/11	D422			
37.5 MM	100			% PASSII1		1.0	0.50	11/12/11	D422			
4.75 MM	63.4			% PASSII1		1.0	0.50	11/12/11	D422			
75 MM	100			% PASSII1		1.0	0.50	11/12/11	D422			

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 8 of 25

Reporting Limit: MDL

Location: WR16.4-A

Field Sample ID: POM-E-WR16.4-A(0.0-0.5)

Date Sampled: 11/9/2011 14:10:00

Sample Type: Sediment

Lab Sample ID: 6466792-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis	Analytical Methods		
		LAB	DDR			PQL	MDL	Date	Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	8.99			MG/KG	25	3.25	0.229	11/15/11	7471A	7471A MOD.	
MOISTURE	27.9			%	1	0.50	0.50	11/15/11	SM 2540 G		
TOTAL ORGANIC CARBON	17400			MG/KG	1	2830	945	11/14/11	LLOYD KAHN		
0.001 MM	< 0.50	U		% PASSII1		1.0	0.50	11/12/11	D422		
0.002 MM	0.50	J	J	% PASSII1		1.0	0.50	11/12/11	D422		
0.005 MM	1.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.02 MM	1.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.05 MM	2.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.064 MM	2.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.075 MM	2.2			% PASSII1		1.0	0.50	11/12/11	D422		
0.15 MM	4.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.3 MM	10.7			% PASSII1		1.0	0.50	11/12/11	D422		
0.6 MM	26.6			% PASSII1		1.0	0.50	11/12/11	D422		
1.18 MM	50.7			% PASSII1		1.0	0.50	11/12/11	D422		
19 MM	97.1			% PASSII1		1.0	0.50	11/12/11	D422		
2.36 MM	60.7			% PASSII1		1.0	0.50	11/12/11	D422		
3.35 MM	68.7			% PASSII1		1.0	0.50	11/12/11	D422		
37.5 MM	97.1			% PASSII1		1.0	0.50	11/12/11	D422		
4.75 MM	76.4			% PASSII1		1.0	0.50	11/12/11	D422		
75 MM	100			% PASSII1		1.0	0.50	11/12/11	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 9 of 25

Reporting Limit: MDL

Location: WR16.4-B

Field Sample ID: POM-E-WR16.4-B(0.0-0.5)

Date Sampled: 11/9/2011 13:50:00

Sample Type: Sediment

Lab Sample ID: 6466793-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis	Analytical Methods		
		LAB	DDR			PQL	MDL	Date	Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	12.4			MG/KG	50	6.07	0.427	11/15/11	7471A	7471A MOD.	
MOISTURE	21.6			%	1	0.50	0.50	11/15/11	SM 2540 G		
TOTAL ORGANIC CARBON	289	J	J	MG/KG	1	474	158	11/15/11	LLOYD KAHN		
0.001 MM	1.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.002 MM	1.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.005 MM	1.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.02 MM	1.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.05 MM	1.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.064 MM	1.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.075 MM	1.2			% PASSII1		1.0	0.50	11/12/11	D422		
0.15 MM	2.6			% PASSII1		1.0	0.50	11/12/11	D422		
0.3 MM	7.5			% PASSII1		1.0	0.50	11/12/11	D422		
0.6 MM	29.6			% PASSII1		1.0	0.50	11/12/11	D422		
1.18 MM	67.0			% PASSII1		1.0	0.50	11/12/11	D422		
19 MM	99.7			% PASSII1		1.0	0.50	11/12/11	D422		
2.36 MM	86.3			% PASSII1		1.0	0.50	11/12/11	D422		
3.35 MM	92.2			% PASSII1		1.0	0.50	11/12/11	D422		
37.5 MM	100			% PASSII1		1.0	0.50	11/12/11	D422		
4.75 MM	94.8			% PASSII1		1.0	0.50	11/12/11	D422		
75 MM	100			% PASSII1		1.0	0.50	11/12/11	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 10 of 25

Reporting Limit: MDL

Location: WR16.4-C

Field Sample ID: POM-E-WR16.4-C(0.0-0.5)

Date Sampled: 11/9/2011 13:35:00

Sample Type: Sediment

Lab Sample ID: 6466794-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis	Analytical Methods		
		LAB	DDR			PQL	MDL	Date	Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	12.4			MG/KG	50	6.34	0.446	11/15/11	7471A	7471A MOD.	
MOISTURE	21.3			%	1	0.50	0.50	11/15/11	SM 2540 G		
TOTAL ORGANIC CARBON	1330			MG/KG	1	888	296	11/15/11	LLOYD KAHN		
0.001 MM	< 0.50	U		% PASSII1		1.0	0.50	11/12/11	D422		
0.002 MM	< 0.50	U		% PASSII1		1.0	0.50	11/12/11	D422		
0.005 MM	0.50	J	J	% PASSII1		1.0	0.50	11/12/11	D422		
0.02 MM	0.50	J	J	% PASSII1		1.0	0.50	11/12/11	D422		
0.05 MM	0.50	J	J	% PASSII1		1.0	0.50	11/12/11	D422		
0.064 MM	0.50	J	J	% PASSII1		1.0	0.50	11/12/11	D422		
0.075 MM	0.55	J	J	% PASSII1		1.0	0.50	11/12/11	D422		
0.15 MM	0.79	J	J	% PASSII1		1.0	0.50	11/12/11	D422		
0.3 MM	5.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.6 MM	29.9			% PASSII1		1.0	0.50	11/12/11	D422		
1.18 MM	48.4			% PASSII1		1.0	0.50	11/12/11	D422		
19 MM	100			% PASSII1		1.0	0.50	11/12/11	D422		
2.36 MM	53.6			% PASSII1		1.0	0.50	11/12/11	D422		
3.35 MM	59.1			% PASSII1		1.0	0.50	11/12/11	D422		
37.5 MM	100			% PASSII1		1.0	0.50	11/12/11	D422		
4.75 MM	66.1			% PASSII1		1.0	0.50	11/12/11	D422		
75 MM	100			% PASSII1		1.0	0.50	11/12/11	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 11 of 25

Reporting Limit: MDL

Location: WR17-D

Field Sample ID: POM-E-WR17-D(0.0-0.5)

Date Sampled: 11/9/2011 14:30:00

Sample Type: Sediment

Lab Sample ID: 6466795-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	1.48			MG/KG	5	0.624	0.0439	11/15/11	7471A	7471A MOD.	
MOISTURE	22.1			%	1	0.50	0.50	11/15/11	SM 2540 G		
TOTAL ORGANIC CARBON	207	J	J	MG/KG	1	412	137	11/15/11	LLOYD KAHN		
0.001 MM	0.50	J	J	% PASSII1	1.0	0.50	0.50	11/12/11	D422		
0.002 MM	0.50	J	J	% PASSII1	1.0	0.50	0.50	11/12/11	D422		
0.005 MM	1.0			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
0.02 MM	1.5			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
0.05 MM	1.5			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
0.064 MM	1.5			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
0.075 MM	1.9			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
0.15 MM	2.1			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
0.3 MM	2.7			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
0.6 MM	12.8			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
1.18 MM	46.1			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
19 MM	100			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
2.36 MM	72.0			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
3.35 MM	82.7			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
37.5 MM	100			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
4.75 MM	87.9			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
75 MM	100			% PASSII1	1.0	0.50	0.50	11/12/11	D422		

Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 12 of 25

Reporting Limit: MDL

Location: WR17-E

Field Sample ID: POM-E-WR17-E(0.0-0.5)

Date Sampled: 11/9/2011 15:00:00

Sample Type: Sediment

Lab Sample ID: 6466796-HG FS

Analyte/Parameter	Result	Qualifiers			Unit	Dil.	Detection Limit		Analysis	Analytical Methods		
		LAB	DDR				PQL	MDL	Date	Analysis-	Prep-	Preprep-
Analytes												
MERCURY	1430				MG/KG	2000	254	17.9	11/15/11	7471A	7471A MOD.	
MOISTURE	24.2				%	1	0.50	0.50	11/15/11	SM 2540 G		
TOTAL ORGANIC CARBON	919				MG/KG	1	412	137	11/15/11	LLOYD KAHN		
0.001 MM	< 0.50	U			% PASSII1		1.0	0.50	11/12/11	D422		
0.002 MM	0.50	J	J		% PASSII1		1.0	0.50	11/12/11	D422		
0.005 MM	1.0				% PASSII1		1.0	0.50	11/12/11	D422		
0.02 MM	1.0				% PASSII1		1.0	0.50	11/12/11	D422		
0.05 MM	1.0				% PASSII1		1.0	0.50	11/12/11	D422		
0.064 MM	2.0				% PASSII1		1.0	0.50	11/12/11	D422		
0.075 MM	2.4				% PASSII1		1.0	0.50	11/12/11	D422		
0.15 MM	4.4				% PASSII1		1.0	0.50	11/12/11	D422		
0.3 MM	10				% PASSII1		1.0	0.50	11/12/11	D422		
0.6 MM	37.4				% PASSII1		1.0	0.50	11/12/11	D422		
1.18 MM	96.3				% PASSII1		1.0	0.50	11/12/11	D422		
19 MM	99.6				% PASSII1		1.0	0.50	11/12/11	D422		
2.36 MM	99.4				% PASSII1		1.0	0.50	11/12/11	D422		
3.35 MM	99.5				% PASSII1		1.0	0.50	11/12/11	D422		
37.5 MM	100				% PASSII1		1.0	0.50	11/12/11	D422		
4.75 MM	99.6				% PASSII1		1.0	0.50	11/12/11	D422		
75 MM	100				% PASSII1		1.0	0.50	11/12/11	D422		
MERCURY	10.3				MG/KG	50	6.17	0.434	12/05/11	7471A	7471A MOD.	
MOISTURE	19.8				%	1	0.50	0.50	12/01/11	SM 2540 G		
SILVER	< 0.00091	U	UJ		MG/L	1	0.0050	0.00091	12/05/11	6010B	3010A	1311
ARSENIC	< 0.0051	U			MG/L	1	0.0200	0.0051	12/05/11	6010B	3010A	1311
BARIUM	0.179				MG/L	1	0.0050	0.00026	12/05/11	6010B	3010A	1311
CADMIUM	< 0.00027	U			MG/L	1	0.0050	0.00027	12/05/11	6010B	3010A	1311
CHROMIUM	< 0.0011	U			MG/L	1	0.0150	0.0011	12/05/11	6010B	3010A	1311
MERCURY	0.0084		J		MG/L	5	0.0010	0.00013	12/05/11	7470A	METHOD	1311
LEAD	0.0052	J	J		MG/L	1	0.0150	0.0022	12/05/11	6010B	3010A	1311
SELENIUM	< 0.0069	U			MG/L	1	0.0200	0.0069	12/05/11	6010B	3010A	1311

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 13 of 25

Reporting Limit: MDL

Location: WR18-C

Field Sample ID: POM-E-WR18-C(0.0-0.5)

Date Sampled: 11/10/2011 09:15:00

Sample Type: Sediment

Lab Sample ID: 6466797-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	10.7			MG/KG	25	3.03	0.213	11/15/11	7471A	7471A MOD.	
MOISTURE	19.9			%	1	0.50	0.50	11/15/11	SM 2540 G		
TOTAL ORGANIC CARBON	1120			MG/KG	1	558	186	11/15/11	LLOYD KAHN		
0.001 MM	< 0.50	U		% PASSII1	1.0	0.50	0.50	11/12/11	D422		
0.002 MM	< 0.50	U		% PASSII1	1.0	0.50	0.50	11/12/11	D422		
0.005 MM	0.50	J	J	% PASSII1	1.0	0.50	0.50	11/12/11	D422		
0.02 MM	1.0			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
0.05 MM	1.0			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
0.064 MM	1.0			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
0.075 MM	1.1			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
0.15 MM	1.4			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
0.3 MM	4.0			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
0.6 MM	26.3			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
1.18 MM	48.9			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
19 MM	100			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
2.36 MM	59.2			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
3.35 MM	67.0			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
37.5 MM	100			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
4.75 MM	75.6			% PASSII1	1.0	0.50	0.50	11/12/11	D422		
75 MM	100			% PASSII1	1.0	0.50	0.50	11/12/11	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 14 of 25

Reporting Limit: MDL

Location: WR18-C

Field Sample ID: POM-E-WR18-C(0.0-0.5)-DUP

Date Sampled: 11/10/2011 09:15:00

Sample Type: Sediment

Lab Sample ID: 6466801-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis	Analytical Methods		
		LAB	DDR			PQL	MDL	Date	Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	23.7			MG/KG	25	3.11	0.219	11/15/11	7471A	7471A MOD.	
MOISTURE	20.1			%	1	0.50	0.50	11/15/11	SM 2540 G		
TOTAL ORGANIC CARBON	1160			MG/KG	1	518	173	11/15/11	LLOYD KAHN		
0.001 MM	< 0.50	U		% PASSII1		1.0	0.50	11/12/11	D422		
0.002 MM	< 0.50	U		% PASSII1		1.0	0.50	11/12/11	D422		
0.005 MM	0.50	J	J	% PASSII1		1.0	0.50	11/12/11	D422		
0.02 MM	1.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.05 MM	1.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.064 MM	1.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.075 MM	1.5			% PASSII1		1.0	0.50	11/12/11	D422		
0.15 MM	2.0			% PASSII1		1.0	0.50	11/12/11	D422		
0.3 MM	4.2			% PASSII1		1.0	0.50	11/12/11	D422		
0.6 MM	23.4			% PASSII1		1.0	0.50	11/12/11	D422		
1.18 MM	51.0			% PASSII1		1.0	0.50	11/12/11	D422		
19 MM	100			% PASSII1		1.0	0.50	11/12/11	D422		
2.36 MM	63.3			% PASSII1		1.0	0.50	11/12/11	D422		
3.35 MM	70.3			% PASSII1		1.0	0.50	11/12/11	D422		
37.5 MM	100			% PASSII1		1.0	0.50	11/12/11	D422		
4.75 MM	77.1			% PASSII1		1.0	0.50	11/12/11	D422		
75 MM	100			% PASSII1		1.0	0.50	11/12/11	D422		

Location: FBLK-2

Field Sample ID: POM-K-FBLK-2

Date Sampled: 12/16/2011 08:00:00

Sample Type: Blank Water

Lab Sample ID: 6503443-HG FB

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis	Analytical Methods		
		LAB	DDR			PQL	MDL	Date	Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	< 0.000026	U		MG/L	1	0.00020	0.000026	12/20/11	7470A	METHOD	
TOTAL ORGANIC CARBON	< 0.50	U		MG/L	1	1.0	0.50	12/20/11	SM 5310 C		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 15 of 25

Reporting Limit: MDL

Location: WR14C

Field Sample ID: POM-E-WR14C(0.0-0.5)

Date Sampled: 12/15/2011 10:00:00

Sample Type: Sediment

Lab Sample ID: 6503428-HG FS

Analyte/Parameter	Result	Qualifiers			Detection Limit		Analysis	Analytical Methods			
		LAB	DDR	Unit	Dil.	PQL	MDL	Date	Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	328		J	MG/KG	500	82.8	5.82	12/20/11	7471A	7471A MOD.	
MOISTURE	43.9			%	1	0.50	0.50	12/20/11	SM 2540 G		
TOTAL ORGANIC CARBON	9510			MG/KG	1	2840	947	12/26/11	LLOYD KAHN		
0.001 MM	1.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.002 MM	2.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.005 MM	6.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.02 MM	16.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.05 MM	25.5			% PASSII1		1.0	0.50	12/20/11	D422		
0.064 MM	31.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.075 MM	34.3			% PASSII1		1.0	0.50	12/20/11	D422		
0.15 MM	58.2			% PASSII1		1.0	0.50	12/20/11	D422		
0.3 MM	86.7			% PASSII1		1.0	0.50	12/20/11	D422		
0.6 MM	93.9			% PASSII1		1.0	0.50	12/20/11	D422		
1.18 MM	96.1			% PASSII1		1.0	0.50	12/20/11	D422		
19 MM	100			% PASSII1		1.0	0.50	12/20/11	D422		
2.36 MM	97.1			% PASSII1		1.0	0.50	12/20/11	D422		
3.35 MM	97.4			% PASSII1		1.0	0.50	12/20/11	D422		
37.5 MM	100			% PASSII1		1.0	0.50	12/20/11	D422		
4.75 MM	97.6			% PASSII1		1.0	0.50	12/20/11	D422		
75 MM	100			% PASSII1		1.0	0.50	12/20/11	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 16 of 25

Reporting Limit: MDL

Location: WR14B

Field Sample ID: POM-E-WR14B(0.0-0.5)

Date Sampled: 12/15/2011 10:20:00

Sample Type: Sediment

Lab Sample ID: 6503429-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	0.0382	J	J	MG/KG	1	0.104	0.0073	12/20/11	7471A	7471A MOD.	
MOISTURE	7.2			%	1	0.50	0.50	12/20/11	SM 2540 G		
TOTAL ORGANIC CARBON	< 108	U		MG/KG	1	323	108	12/26/11	LLOYD KAHN		
0.001 MM	< 0.50	U		% PASSII1	1.0	0.50	0.50	12/20/11	D422		
0.002 MM	< 0.50	U		% PASSII1	1.0	0.50	0.50	12/20/11	D422		
0.005 MM	< 0.50	U		% PASSII1	1.0	0.50	0.50	12/20/11	D422		
0.02 MM	0.50	J	J	% PASSII1	1.0	0.50	0.50	12/20/11	D422		
0.05 MM	0.50	J	J	% PASSII1	1.0	0.50	0.50	12/20/11	D422		
0.064 MM	< 0.50	U		% PASSII1	1.0	0.50	0.50	12/20/11	D422		
0.075 MM	< 0.50	U		% PASSII1	1.0	0.50	0.50	12/20/11	D422		
0.15 MM	< 0.50	U		% PASSII1	1.0	0.50	0.50	12/20/11	D422		
0.3 MM	< 0.50	U		% PASSII1	1.0	0.50	0.50	12/20/11	D422		
0.6 MM	2.9			% PASSII1	1.0	0.50	0.50	12/20/11	D422		
1.18 MM	15.8			% PASSII1	1.0	0.50	0.50	12/20/11	D422		
19 MM	98.1			% PASSII1	1.0	0.50	0.50	12/20/11	D422		
2.36 MM	28.9			% PASSII1	1.0	0.50	0.50	12/20/11	D422		
3.35 MM	47.9			% PASSII1	1.0	0.50	0.50	12/20/11	D422		
37.5 MM	100			% PASSII1	1.0	0.50	0.50	12/20/11	D422		
4.75 MM	77.8			% PASSII1	1.0	0.50	0.50	12/20/11	D422		
75 MM	100			% PASSII1	1.0	0.50	0.50	12/20/11	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 17 of 25

Reporting Limit: MDL

Location: WR15A

Field Sample ID: POM-E-WR15A(0.0-0.5)

Date Sampled: 12/15/2011 11:30:00

Sample Type: Sediment

Lab Sample ID: 6503430-HG FS

Analyte/Parameter	Result	Qualifiers			Unit	Dil.	Detection Limit		Analysis	Analytical Methods		
		LAB	DDR				PQL	MDL	Date	Analysis-	Prep-	Preprep-
<u>Analytes</u>												
MERCURY	5.65		J		MG/KG	10	1.81	0.127	12/20/11	7471A	7471A MOD.	
MOISTURE	46.9				%	1	0.50	0.50	12/20/11	SM 2540 G		
TOTAL ORGANIC CARBON	20200				MG/KG	1	2340	780	12/26/11	LLOYD KAHN		
0.001 MM	< 0.50	U			% PASSII1		1.0	0.50	12/20/11	D422		
0.002 MM	0.50	J	J		% PASSII1		1.0	0.50	12/20/11	D422		
0.005 MM	2.5				% PASSII1		1.0	0.50	12/20/11	D422		
0.02 MM	8.0				% PASSII1		1.0	0.50	12/20/11	D422		
0.05 MM	13.0				% PASSII1		1.0	0.50	12/20/11	D422		
0.064 MM	17.0				% PASSII1		1.0	0.50	12/20/11	D422		
0.075 MM	20.4				% PASSII1		1.0	0.50	12/20/11	D422		
0.15 MM	41.3				% PASSII1		1.0	0.50	12/20/11	D422		
0.3 MM	79.9				% PASSII1		1.0	0.50	12/20/11	D422		
0.6 MM	97.1				% PASSII1		1.0	0.50	12/20/11	D422		
1.18 MM	99.5				% PASSII1		1.0	0.50	12/20/11	D422		
19 MM	100				% PASSII1		1.0	0.50	12/20/11	D422		
2.36 MM	99.7				% PASSII1		1.0	0.50	12/20/11	D422		
3.35 MM	99.8				% PASSII1		1.0	0.50	12/20/11	D422		
37.5 MM	100				% PASSII1		1.0	0.50	12/20/11	D422		
4.75 MM	100				% PASSII1		1.0	0.50	12/20/11	D422		
75 MM	100				% PASSII1		1.0	0.50	12/20/11	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 18 of 25

Reporting Limit: MDL

Location: WR15B

Field Sample ID: POM-E-WR15B(0.0-0.5)

Date Sampled: 12/15/2011 11:20:00

Sample Type: Sediment

Lab Sample ID: 6503431-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis	Analytical Methods		
		LAB	DDR			PQL	MDL	Date	Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	0.0949	J	J	MG/KG	1	0.121	0.0085	12/20/11	7471A	7471A MOD.	
MOISTURE	19.3			%	1	0.50	0.50	12/20/11	SM 2540 G		
TOTAL ORGANIC CARBON	< 124	U		MG/KG	1	372	124	12/27/11	LLOYD KAHN		
0.001 MM	< 0.50	U		% PASSII1	1.0	0.50		12/20/11	D422		
0.002 MM	< 0.50	U		% PASSII1	1.0	0.50		12/20/11	D422		
0.005 MM	< 0.50	U		% PASSII1	1.0	0.50		12/20/11	D422		
0.02 MM	1.5			% PASSII1	1.0	0.50		12/20/11	D422		
0.05 MM	1.0			% PASSII1	1.0	0.50		12/20/11	D422		
0.064 MM	< 0.50	U		% PASSII1	1.0	0.50		12/20/11	D422		
0.075 MM	< 0.50	U		% PASSII1	1.0	0.50		12/20/11	D422		
0.15 MM	< 0.50	U		% PASSII1	1.0	0.50		12/20/11	D422		
0.3 MM	0.75	J	J	% PASSII1	1.0	0.50		12/20/11	D422		
0.6 MM	6.0			% PASSII1	1.0	0.50		12/20/11	D422		
1.18 MM	43.2			% PASSII1	1.0	0.50		12/20/11	D422		
19 MM	100			% PASSII1	1.0	0.50		12/20/11	D422		
2.36 MM	81.9			% PASSII1	1.0	0.50		12/20/11	D422		
3.35 MM	93.9			% PASSII1	1.0	0.50		12/20/11	D422		
37.5 MM	100			% PASSII1	1.0	0.50		12/20/11	D422		
4.75 MM	98.1			% PASSII1	1.0	0.50		12/20/11	D422		
75 MM	100			% PASSII1	1.0	0.50		12/20/11	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 19 of 25

Reporting Limit: MDL

Location: WR15.2A

Field Sample ID: POM-E-WR15.2A(0.0-0.5)

Date Sampled: 12/15/2011 12:15:00

Sample Type: Sediment

Lab Sample ID: 6503432-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
Analytes											
MERCURY	12.0		J	MG/KG	20	3.68	0.259	12/20/11	7471A		7471A MOD.
MOISTURE	45.7			%	1	0.50	0.50	12/20/11	SM 2540 G		
TOTAL ORGANIC CARBON	20100			MG/KG	1	6410	2140	12/27/11	LLOYD KAHN		
0.001 MM	1.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.002 MM	2.5			% PASSII1		1.0	0.50	12/20/11	D422		
0.005 MM	4.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.02 MM	16.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.05 MM	25.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.064 MM	33.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.075 MM	36.7			% PASSII1		1.0	0.50	12/20/11	D422		
0.15 MM	60.3			% PASSII1		1.0	0.50	12/20/11	D422		
0.3 MM	89.2			% PASSII1		1.0	0.50	12/20/11	D422		
0.6 MM	97.0			% PASSII1		1.0	0.50	12/20/11	D422		
1.18 MM	99.2			% PASSII1		1.0	0.50	12/20/11	D422		
19 MM	100			% PASSII1		1.0	0.50	12/20/11	D422		
2.36 MM	99.6			% PASSII1		1.0	0.50	12/20/11	D422		
3.35 MM	99.8			% PASSII1		1.0	0.50	12/20/11	D422		
37.5 MM	100			% PASSII1		1.0	0.50	12/20/11	D422		
4.75 MM	99.9			% PASSII1		1.0	0.50	12/20/11	D422		
75 MM	100			% PASSII1		1.0	0.50	12/20/11	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 20 of 25

Reporting Limit: MDL

Location: WR15.2B

Field Sample ID: POM-E-WR15.2B(0.0-0.5)

Date Sampled: 12/15/2011 12:25:00

Sample Type: Sediment

Lab Sample ID: 6503433-HG FS

Analyte/Parameter	Result	Qualifiers			Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR	Unit		PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	0.243		J	MG/KG	1	0.127	0.0089	12/20/11	7471A	7471A MOD.	
MOISTURE	22.1			%	1	0.50	0.50	12/20/11	SM 2540 G		
TOTAL ORGANIC CARBON	< 128	U		MG/KG	1	385	128	12/27/11	LLOYD KAHN		
0.001 MM	< 0.50	U		% PASSII1	1.0	0.50	0.50	12/20/11	D422		
0.002 MM	< 0.50	U		% PASSII1	1.0	0.50	0.50	12/20/11	D422		
0.005 MM	< 0.50	U		% PASSII1	1.0	0.50	0.50	12/20/11	D422		
0.02 MM	1.0			% PASSII1	1.0	0.50	0.50	12/20/11	D422		
0.05 MM	0.50	J	J	% PASSII1	1.0	0.50	0.50	12/20/11	D422		
0.064 MM	< 0.50	U		% PASSII1	1.0	0.50	0.50	12/20/11	D422		
0.075 MM	< 0.50	U		% PASSII1	1.0	0.50	0.50	12/20/11	D422		
0.15 MM	< 0.50	U		% PASSII1	1.0	0.50	0.50	12/20/11	D422		
0.3 MM	< 0.50	U		% PASSII1	1.0	0.50	0.50	12/20/11	D422		
0.6 MM	2.1			% PASSII1	1.0	0.50	0.50	12/20/11	D422		
1.18 MM	24.7			% PASSII1	1.0	0.50	0.50	12/20/11	D422		
19 MM	100			% PASSII1	1.0	0.50	0.50	12/20/11	D422		
2.36 MM	75.4			% PASSII1	1.0	0.50	0.50	12/20/11	D422		
3.35 MM	87.2			% PASSII1	1.0	0.50	0.50	12/20/11	D422		
37.5 MM	100			% PASSII1	1.0	0.50	0.50	12/20/11	D422		
4.75 MM	93.7			% PASSII1	1.0	0.50	0.50	12/20/11	D422		
75 MM	100			% PASSII1	1.0	0.50	0.50	12/20/11	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 21 of 25

Reporting Limit: MDL

Location: WR15A

Field Sample ID: POM-E-WR15A(0.0-0.5)-DUP

Date Sampled: 12/15/2011 11:30:00

Sample Type: Sediment

Lab Sample ID: 6503437-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis	Analytical Methods		
		LAB	DDR			PQL	MDL	Date	Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	7.05		J	MG/KG	10	1.80	0.127	12/20/11	7471A	7471A MOD.	
MOISTURE	46.8			%	1	0.50	0.50	12/20/11	SM 2540 G		
TOTAL ORGANIC CARBON	25800			MG/KG	1	2010	671	12/27/11	LLOYD KAHN		
0.001 MM	< 0.50	U		% PASSII1		1.0	0.50	12/20/11	D422		
0.002 MM	0.50	J	J	% PASSII1		1.0	0.50	12/20/11	D422		
0.005 MM	3.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.02 MM	8.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.05 MM	13.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.064 MM	17.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.075 MM	20.2			% PASSII1		1.0	0.50	12/20/11	D422		
0.15 MM	38.9			% PASSII1		1.0	0.50	12/20/11	D422		
0.3 MM	75.6			% PASSII1		1.0	0.50	12/20/11	D422		
0.6 MM	96.2			% PASSII1		1.0	0.50	12/20/11	D422		
1.18 MM	99.3			% PASSII1		1.0	0.50	12/20/11	D422		
19 MM	100			% PASSII1		1.0	0.50	12/20/11	D422		
2.36 MM	99.5			% PASSII1		1.0	0.50	12/20/11	D422		
3.35 MM	99.8			% PASSII1		1.0	0.50	12/20/11	D422		
37.5 MM	100			% PASSII1		1.0	0.50	12/20/11	D422		
4.75 MM	100			% PASSII1		1.0	0.50	12/20/11	D422		
75 MM	100			% PASSII1		1.0	0.50	12/20/11	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 22 of 25

Reporting Limit: MDL

Location: WR15.2C

Field Sample ID: POM-E-WR15.2C(0.0-0.5)

Date Sampled: 12/15/2011 12:40:00

Sample Type: Sediment

Lab Sample ID: 6503438-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis	Analytical Methods		
		LAB	DDR			PQL	MDL	Date	Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	12.4		J	MG/KG	20	3.39	0.238	12/20/11	7471A		7471A MOD.
MOISTURE	44.6			%	1	0.50	0.50	12/20/11	SM 2540 G		
TOTAL ORGANIC CARBON	14000			MG/KG	1	2280	760	12/27/11	LLOYD KAHN		
0.001 MM	2.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.002 MM	2.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.005 MM	2.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.02 MM	7.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.05 MM	10.5			% PASSII1		1.0	0.50	12/20/11	D422		
0.064 MM	13.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.075 MM	14.3			% PASSII1		1.0	0.50	12/20/11	D422		
0.15 MM	24.2			% PASSII1		1.0	0.50	12/20/11	D422		
0.3 MM	53.9			% PASSII1		1.0	0.50	12/20/11	D422		
0.6 MM	96.1			% PASSII1		1.0	0.50	12/20/11	D422		
1.18 MM	99.3			% PASSII1		1.0	0.50	12/20/11	D422		
19 MM	100			% PASSII1		1.0	0.50	12/20/11	D422		
2.36 MM	99.6			% PASSII1		1.0	0.50	12/20/11	D422		
3.35 MM	99.7			% PASSII1		1.0	0.50	12/20/11	D422		
37.5 MM	100			% PASSII1		1.0	0.50	12/20/11	D422		
4.75 MM	99.8			% PASSII1		1.0	0.50	12/20/11	D422		
75 MM	100			% PASSII1		1.0	0.50	12/20/11	D422		

Location: WR18D

Field Sample ID: POM-E-WR18D(14-18)

Date Sampled: 12/15/2011 13:45:00

Sample Type: Sediment

Lab Sample ID: 6503439-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	27.5		J	MG/KG	50	11.2	0.790	12/20/11	7471A	7471A MOD.	
MOISTURE	55.9			%	1	0.50	0.50	12/20/11	SM 2540 G		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 23 of 25

Reporting Limit: MDL

Location: WR18D

Field Sample ID: POM-E-WR18D(0.0-0.5)

Date Sampled: 12/15/2011 13:45:00

Sample Type: Sediment

Lab Sample ID: 6503440-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis	Analytical Methods		
		LAB	DDR			PQL	MDL	Date	Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	9.75		J	MG/KG	10	2.15	0.151	12/20/11	7471A		7471A MOD.
MOISTURE	54.9			%	1	0.50	0.50	12/20/11	SM 2540 G		
TOTAL ORGANIC CARBON	19400			MG/KG	1	5670	1890	12/27/11	LLOYD KAHN		
0.001 MM	10.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.002 MM	17.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.005 MM	27.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.02 MM	48.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.05 MM	61.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.064 MM	67.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.075 MM	69.5			% PASSII1		1.0	0.50	12/20/11	D422		
0.15 MM	74.8			% PASSII1		1.0	0.50	12/20/11	D422		
0.3 MM	80.7			% PASSII1		1.0	0.50	12/20/11	D422		
0.6 MM	88.4			% PASSII1		1.0	0.50	12/20/11	D422		
1.18 MM	98.2			% PASSII1		1.0	0.50	12/20/11	D422		
19 MM	100			% PASSII1		1.0	0.50	12/20/11	D422		
2.36 MM	98.5			% PASSII1		1.0	0.50	12/20/11	D422		
3.35 MM	99.0			% PASSII1		1.0	0.50	12/20/11	D422		
37.5 MM	100			% PASSII1		1.0	0.50	12/20/11	D422		
4.75 MM	99.5			% PASSII1		1.0	0.50	12/20/11	D422		
75 MM	100			% PASSII1		1.0	0.50	12/20/11	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 24 of 25

Reporting Limit: MDL

Location: WR15.4A-B

Field Sample ID: POM-E-WR15.4A-B(0.0-0.5)

Date Sampled: 12/15/2011 14:30:00

Sample Type: Sediment

Lab Sample ID: 6503441-HG FS

Analyte/Parameter	Result	Qualifiers			Detection Limit		Analysis	Analytical Methods			
		LAB	DDR	Unit	Dil.	PQL	MDL	Date	Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	4.22		J	MG/KG	10	1.22	0.0859	12/20/11	7471A	7471A MOD.	
MOISTURE	23.1			%	1	0.50	0.50	12/20/11	SM 2540 G		
TOTAL ORGANIC CARBON	4720			MG/KG	1	1260	419	12/27/11	LLOYD KAHN		
0.001 MM	< 0.50	U		% PASSII1		1.0	0.50	12/20/11	D422		
0.002 MM	< 0.50	U		% PASSII1		1.0	0.50	12/20/11	D422		
0.005 MM	1.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.02 MM	4.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.05 MM	5.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.064 MM	5.0			% PASSII1		1.0	0.50	12/20/11	D422		
0.075 MM	5.4			% PASSII1		1.0	0.50	12/20/11	D422		
0.15 MM	5.6			% PASSII1		1.0	0.50	12/20/11	D422		
0.3 MM	6.6			% PASSII1		1.0	0.50	12/20/11	D422		
0.6 MM	13.4			% PASSII1		1.0	0.50	12/20/11	D422		
1.18 MM	25.4			% PASSII1		1.0	0.50	12/20/11	D422		
19 MM	93.9			% PASSII1		1.0	0.50	12/20/11	D422		
2.36 MM	41.6			% PASSII1		1.0	0.50	12/20/11	D422		
3.35 MM	48.3			% PASSII1		1.0	0.50	12/20/11	D422		
37.5 MM	100			% PASSII1		1.0	0.50	12/20/11	D422		
4.75 MM	58.1			% PASSII1		1.0	0.50	12/20/11	D422		
75 MM	100			% PASSII1		1.0	0.50	12/20/11	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

2/15/2012 09:09:37

Project: WANAQUE RIVER SED PH III

Page 25 of 25

Reporting Limit: MDL

Location: WR15.4C

Field Sample ID: POM-E-WR15.4C(0.0-0.5)

Date Sampled: 12/15/2011 14:40:00

Sample Type: Sediment

Lab Sample ID: 6503442-HG FS

Analyte/Parameter	Result	Qualifiers			Unit	Dil.	Detection Limit		Analysis	Analytical Methods		
		LAB	DDR				PQL	MDL	Date	Analysis-	Prep-	Preprep-
<u>Analytes</u>												
MERCURY	16.7		J		MG/KG	50	6.91	0.486	12/20/11	7471A	7471A MOD.	
MOISTURE	32.6				%	1	0.50	0.50	12/20/11	SM 2540 G		
TOTAL ORGANIC CARBON	8430				MG/KG	1	1830	610	12/27/11	LLOYD KAHN		
0.001 MM	< 0.50	U			% PASSII1		1.0	0.50	12/20/11	D422		
0.002 MM	< 0.50	U			% PASSII1		1.0	0.50	12/20/11	D422		
0.005 MM	0.50	J	J		% PASSII1		1.0	0.50	12/20/11	D422		
0.02 MM	4.0				% PASSII1		1.0	0.50	12/20/11	D422		
0.05 MM	8.5				% PASSII1		1.0	0.50	12/20/11	D422		
0.064 MM	12.0				% PASSII1		1.0	0.50	12/20/11	D422		
0.075 MM	14.7				% PASSII1		1.0	0.50	12/20/11	D422		
0.15 MM	29.5				% PASSII1		1.0	0.50	12/20/11	D422		
0.3 MM	71.8				% PASSII1		1.0	0.50	12/20/11	D422		
0.6 MM	88.2				% PASSII1		1.0	0.50	12/20/11	D422		
1.18 MM	90.9				% PASSII1		1.0	0.50	12/20/11	D422		
19 MM	100				% PASSII1		1.0	0.50	12/20/11	D422		
2.36 MM	93.8				% PASSII1		1.0	0.50	12/20/11	D422		
3.35 MM	95.4				% PASSII1		1.0	0.50	12/20/11	D422		
37.5 MM	100				% PASSII1		1.0	0.50	12/20/11	D422		
4.75 MM	97.7				% PASSII1		1.0	0.50	12/20/11	D422		
75 MM	100				% PASSII1		1.0	0.50	12/20/11	D422		

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE RIVER SED PH III

2/15/2012
Page 1 of 20

Batch Identifier 316900 SM 2540 G 02-DEC-11 11336820001B 9001

Method Number: SM 2540 G Prep Method:
Batch Start Date: 12/02/2011 Intrument: 9001 Pre-prep:

					<u>RPR Limits</u>			RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: LC33611Q-MOIST LCS			Lab: LANCAS	100	99	101		
MOISTURE		89.4	%	0.50	0.50					
Sample Type	REP	Lab Sample ID: P482426-MOIST REP			Lab: LANCAS	0.50			1	15
MOISTURE		29.0	%	0.50	0.50					

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR16-B(0.0-0.5)	11/9/2011	6485730-MOIST FS	LANCAS

Batch Identifier 315233 SM 5310 C 15-NOV-11 11319049503A 12177

Method Number: SM 5310 C Prep Method:
Batch Start Date: 11/15/2011 Intrument: 12177 Pre-prep:

					RPR Limits			RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: P31949CQQ-TOC LCS			Lab: LANCAS	101	91	113		
TOTAL ORGANIC CARBON		25.4	MG/L	0.50	1.0					
Sample Type	MB	Lab Sample ID: P31949CBB-TOC MB			Lab: LANCAS	1.0				
TOTAL ORGANIC CARBON		< 0.50	MG/L	0.50						
Sample Type	MS	Lab Sample ID: P463425-TOC MS			Lab: LANCAS	111	63	142		
TOTAL ORGANIC CARBON		11.1	MG/L	0.50	1.0					
Sample Type	REP	Lab Sample ID: P463425-TOC REP			Lab: LANCAS	1.0			0	3
TOTAL ORGANIC CARBON		< 0.50	MG/L	0.50						

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-K-FBLK-1	11/10/2011	6466802-TOC FB	LANCAS

Batch Identifier 315755 METHOD 7470A 14-NOV-11 113185713001 17384

Method Number: 7470A Prep Method: METHOD
Batch Start Date: 11/14/2011 Intrument: 17384 Pre-prep:

						RPR Limits		RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: P31813AQQ-HG LCS			Lab: LANCAS	95	80	120		
MERCURY		0.00095	MG/L	0.000026	0.00020					
Sample Type	MB	Lab Sample ID: P31813ABB-HG MB			Lab: LANCAS	0.00020				
MERCURY		0.000065	MG/L	0.000026	0.00020					
Sample Type	MS	Lab Sample ID: 6468483-HG MS			Lab: LANCAS	92	80	120		
MERCURY		0.0010	MG/L	0.000026	0.00020					
Sample Type	MSD	Lab Sample ID: 6468483-HG MSD			Lab: LANCAS	91	80	120	1	20
MERCURY		0.0010	MG/L	0.000026	0.00020					
Sample Type	REP	Lab Sample ID: 6468483-HG REP			Lab: LANCAS	0.00020			2	20
MERCURY		0.00011	MG/L	0.000026	0.00020					

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-K-FBLK-1	11/10/2011	6466802-HG FB	LANCAS

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE RIVER SED PH III

2/15/2012
Page 2 of 20

Batch Identifier 316056 1311 3010A 6010B 14-NOV-11 113195705001 16315

Method Number: 6010B Prep Method: 3010A Pre-prep: 1311
Batch Start Date: 11/14/2011 Instrument: 16315

						RPR Limits			RPD	
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: P31905AQQ-AG LCS			Lab: LANCAS					
SILVER		0.0545	MG/L	0.00091	0.0050	109	83	120		
Sample Type	LCS	Lab Sample ID: P31905AQQ-AS LCS			Lab: LANCAS					
ARSENIC		0.165	MG/L	0.0051	0.0200	110	89	115		
Sample Type	LCS	Lab Sample ID: P31905AQQ-BA LCS			Lab: LANCAS					
BARIUM		2.04	MG/L	0.00026	0.0050	102	90	110		
Sample Type	LCS	Lab Sample ID: P31905AQQ-CD LCS			Lab: LANCAS					
CADMIUM		0.0520	MG/L	0.00027	0.0050	104	90	112		
Sample Type	LCS	Lab Sample ID: P31905AQQ-CR LCS			Lab: LANCAS					
CHROMIUM		0.202	MG/L	0.0011	0.0150	101	90	110		
Sample Type	LCS	Lab Sample ID: P31905AQQ-PB LCS			Lab: LANCAS					
LEAD		0.152	MG/L	0.0022	0.0150	101	88	110		
Sample Type	LCS	Lab Sample ID: P31905AQQ-SE LCS			Lab: LANCAS					
SELENIUM		0.172	MG/L	0.0069	0.0200	115	80	120		
Sample Type	MB	Lab Sample ID: P31905ABB-AG MB			Lab: LANCAS					
SILVER		< 0.00091	MG/L	0.00091	0.0050					
Sample Type	MB	Lab Sample ID: P31905ABB-AS MB			Lab: LANCAS					
ARSENIC		< 0.0051	MG/L	0.0051	0.0200					
Sample Type	MB	Lab Sample ID: P31905ABB-BA MB			Lab: LANCAS					
BARIUM		0.00097	MG/L	0.00026	0.0050					
Sample Type	MB	Lab Sample ID: P31905ABB-CD MB			Lab: LANCAS					
CADMIUM		0.00044	MG/L	0.00027	0.0050					
Sample Type	MB	Lab Sample ID: P31905ABB-CR MB			Lab: LANCAS					
CHROMIUM		< 0.0011	MG/L	0.0011	0.0150					
Sample Type	MB	Lab Sample ID: P31905ABB-PB MB			Lab: LANCAS					
LEAD		< 0.0022	MG/L	0.0022	0.0150					
Sample Type	MB	Lab Sample ID: P31905ABB-SE MB			Lab: LANCAS					
SELENIUM		< 0.0069	MG/L	0.0069	0.0200					
Sample Type	MS	Lab Sample ID: 6466814-AG MS			Lab: LANCAS					
SILVER		3.94	MG/L	0.00091	0.0050	79	75	125		
Sample Type	MS	Lab Sample ID: 6466814-AS MS			Lab: LANCAS					
ARSENIC		5.03	MG/L	0.0051	0.0200	99	75	125		
Sample Type	MS	Lab Sample ID: 6466814-BA MS			Lab: LANCAS					
BARIUM		98.9	MG/L	0.0065	0.125	98	75	125		
Sample Type	MS	Lab Sample ID: 6466814-CD MS			Lab: LANCAS					
CADMIUM		0.902	MG/L	0.00027	0.0050	90	75	125		
Sample Type	MS	Lab Sample ID: 6466814-CR MS			Lab: LANCAS					
CHROMIUM		4.54	MG/L	0.0011	0.0150	91	75	125		
Sample Type	MS	Lab Sample ID: 6466814-PB MS			Lab: LANCAS					
LEAD		5.17	MG/L	0.0022	0.0150	89	75	125		
Sample Type	MS	Lab Sample ID: 6466814-SE MS			Lab: LANCAS					
SELENIUM		0.983	MG/L	0.0069	0.0200	98	75	125		
Sample Type	MSD	Lab Sample ID: 6466814-AG MSD			Lab: LANCAS					
SILVER		4.19	MG/L	0.00091	0.0050	84	75	125	6	20
Sample Type	MSD	Lab Sample ID: 6466814-AS MSD			Lab: LANCAS					
ARSENIC		5.12	MG/L	0.0051	0.0200	100	75	125	2	20
Sample Type	MSD	Lab Sample ID: 6466814-BA MSD			Lab: LANCAS					
BARIUM		97.8	MG/L	0.0065	0.125	97	75	125	1	20
Sample Type	MSD	Lab Sample ID: 6466814-CD MSD			Lab: LANCAS					
CADMIUM		0.921	MG/L	0.00027	0.0050	92	75	125	2	20
Sample Type	MSD	Lab Sample ID: 6466814-CR MSD			Lab: LANCAS					
CHROMIUM		4.63	MG/L	0.0011	0.0150	92	75	125	2	20
Sample Type	MSD	Lab Sample ID: 6466814-PB MSD			Lab: LANCAS					
LEAD		5.27	MG/L	0.0022	0.0150	91	75	125	2	20
Sample Type	MSD	Lab Sample ID: 6466814-SE MSD			Lab: LANCAS					
SELENIUM		1.00	MG/L	0.0069	0.0200	100	75	125	2	20
Sample Type	REP	Lab Sample ID: 6466814-AG REP			Lab: LANCAS					
SILVER		< 0.00091	MG/L	0.00091	0.0050				0	20
Sample Type	REP	Lab Sample ID: 6466814-AS REP			Lab: LANCAS					
ARSENIC		0.101	MG/L	0.0051	0.0200				1	20
Sample Type	REP	Lab Sample ID: 6466814-BA REP			Lab: LANCAS					
BARIUM		0.458	MG/L	0.00026	0.0050				1	20

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE RIVER SED PH III

2/15/2012
Page 3 of 20

						RPR Limits		RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	REP	Lab Sample ID: 6466814-CD	REP		Lab: LANCAS					
CADMIUM		0.0029	MG/L	0.00027	0.0050				20	20
Sample Type	REP	Lab Sample ID: 6466814-CR	REP		Lab: LANCAS					
CHROMIUM		0.0034	MG/L	0.0011	0.0150				4	20
Sample Type	REP	Lab Sample ID: 6466814-PB	REP		Lab: LANCAS					
LEAD		0.717	MG/L	0.0022	0.0150				0	20
Sample Type	REP	Lab Sample ID: 6466814-SE	REP		Lab: LANCAS					
SELENIUM		< 0.0069	MG/L	0.0069	0.0200				0	20

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR16TCLP	11/9/2011	6466819-AG FS	LANCAS
POM-E-WR16TCLP	11/9/2011	6466819-AS FS	LANCAS
POM-E-WR16TCLP	11/9/2011	6466819-BA FS	LANCAS
POM-E-WR16TCLP	11/9/2011	6466819-CD FS	LANCAS
POM-E-WR16TCLP	11/9/2011	6466819-SE FS	LANCAS
POM-E-WR16TCLP	11/9/2011	6466819-PB FS	LANCAS
POM-E-WR16TCLP	11/9/2011	6466819-CR FS	LANCAS
POM-E-WR17BTCLP	11/10/2011	6466815-AG FS	LANCAS
POM-E-WR17BTCLP	11/10/2011	6466815-AS FS	LANCAS
POM-E-WR17BTCLP	11/10/2011	6466815-BA FS	LANCAS
POM-E-WR17BTCLP	11/10/2011	6466815-CR FS	LANCAS
POM-E-WR17BTCLP	11/10/2011	6466815-SE FS	LANCAS
POM-E-WR17BTCLP	11/10/2011	6466815-PB FS	LANCAS
POM-E-WR17BTCLP	11/10/2011	6466815-CD FS	LANCAS
POM-E-WR17CTCLP	11/10/2011	6466816-AG FS	LANCAS
POM-E-WR17CTCLP	11/10/2011	6466816-AS FS	LANCAS
POM-E-WR17CTCLP	11/10/2011	6466816-SE FS	LANCAS
POM-E-WR17CTCLP	11/10/2011	6466816-PB FS	LANCAS
POM-E-WR17CTCLP	11/10/2011	6466816-CR FS	LANCAS
POM-E-WR17CTCLP	11/10/2011	6466816-CD FS	LANCAS
POM-E-WR17CTCLP	11/10/2011	6466816-BA FS	LANCAS
POM-E-WR17TCLP	11/9/2011	6466818-AG FS	LANCAS
POM-E-WR17TCLP	11/9/2011	6466818-PB FS	LANCAS
POM-E-WR17TCLP	11/9/2011	6466818-SE FS	LANCAS
POM-E-WR17TCLP	11/9/2011	6466818-CR FS	LANCAS
POM-E-WR17TCLP	11/9/2011	6466818-AS FS	LANCAS
POM-E-WR17TCLP	11/9/2011	6466818-BA FS	LANCAS
POM-E-WR17TCLP	11/9/2011	6466818-CD FS	LANCAS
POM-E-WR17aTCLP	11/9/2011	6466817-AG FS	LANCAS
POM-E-WR17aTCLP	11/9/2011	6466817-AS FS	LANCAS
POM-E-WR17aTCLP	11/9/2011	6466817-BA FS	LANCAS
POM-E-WR17aTCLP	11/9/2011	6466817-SE FS	LANCAS
POM-E-WR17aTCLP	11/9/2011	6466817-PB FS	LANCAS
POM-E-WR17aTCLP	11/9/2011	6466817-CR FS	LANCAS
POM-E-WR17aTCLP	11/9/2011	6466817-CD FS	LANCAS
POM-E-WR18TCLP	11/10/2011	6466814-AG FS	LANCAS
POM-E-WR18TCLP	11/10/2011	6466814-AS FS	LANCAS
POM-E-WR18TCLP	11/10/2011	6466814-BA FS	LANCAS
POM-E-WR18TCLP	11/10/2011	6466814-CD FS	LANCAS
POM-E-WR18TCLP	11/10/2011	6466814-CR FS	LANCAS
POM-E-WR18TCLP	11/10/2011	6466814-PB FS	LANCAS
POM-E-WR18TCLP	11/10/2011	6466814-SE FS	LANCAS

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE RIVER SED PH III

2/15/2012
Page 4 of 20

Batch Identifier 316057 1311 METHOD 7470A 14-NOV-11 113195713001 17384

Method Number: 7470A Prep Method: METHOD Pre-prep: 1311
Batch Start Date: 11/14/2011 Instrument: 17384

						RPR Limits		RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: P31913AQQ-HG LCS			Lab: LANCAS					
MERCURY		0.0010	MG/L	0.000026	0.00020	104	80	120		
Sample Type	MB	Lab Sample ID: P31913ABB-HG MB			Lab: LANCAS					
MERCURY		0.000062	MG/L	0.000026	0.00020					
Sample Type	MS	Lab Sample ID: 6466814-HG MS			Lab: LANCAS					
MERCURY		0.0180	MG/L	0.00026	0.0020	90	80	120		
Sample Type	MSD	Lab Sample ID: 6466814-HG MSD			Lab: LANCAS					
MERCURY		0.0175	MG/L	0.00026	0.0020	87	80	120	3	20
Sample Type	REP	Lab Sample ID: 6466814-HG REP			Lab: LANCAS					
MERCURY		0.000076	MG/L	0.000026	0.00020				4	20

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR16TCLP	11/9/2011	6466819-HG FS	LANCAS
POM-E-WR17BTCLP	11/10/2011	6466815-HG FS	LANCAS
POM-E-WR17CTCLP	11/10/2011	6466816-HG FS	LANCAS
POM-E-WR17TCLP	11/9/2011	6466818-HG FS	LANCAS
POM-E-WR17aTCLP	11/9/2011	6466817-HG FS	LANCAS
POM-E-WR18TCLP	11/10/2011	6466814-HG FS	LANCAS

Batch Identifier 316064 SM 2540 G 15-NOV-11 11319820001A 9001

Method Number: SM 2540 G Prep Method: Pre-prep:
Batch Start Date: 11/15/2011 Instrument: 9001

						<u>RPR Limits</u>		RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: LC31911Q-MOIST LCS			Lab: LANCAS					
MOISTURE		89.4	%	0.50	0.50	100	99	101		
Sample Type	REP	Lab Sample ID: 6466797-MOIST REP			Lab: LANCAS					
MOISTURE		18.9	%	0.50	0.50				5	15

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR16-B(0.0-0.5)	11/9/2011	6466788-MOIST FS	LANCAS
POM-E-WR16.2-A(0.0-0.5)	11/9/2011	6466789-MOIST FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6466790-MOIST FS	LANCAS
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466791-MOIST FS	LANCAS
POM-E-WR16.4-A(0.0-0.5)	11/9/2011	6466792-MOIST FS	LANCAS
POM-E-WR16.4-B(0.0-0.5)	11/9/2011	6466793-MOIST FS	LANCAS
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466794-MOIST FS	LANCAS
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466795-MOIST FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6466796-MOIST FS	LANCAS
POM-E-WR18-C(0.0-0.5)	11/10/2011	6466797-MOIST FS	LANCAS
POM-E-WR18-C(0.0-0.5)-DUP	11/10/2011	6466801-MOIST FS	LANCAS

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE RIVER SED PH III

2/15/2012
Page 5 of 20

Batch Identifier 316065 LLOYD KAHN 14-NOV-11 11318049531A 08610

Method Number: LLOYD KAHN Prep Method: Pre-prep:
Batch Start Date: 11/14/2011 Intrument: 08610

Analyte/Parameter	Result	Unit	MDL	PQL	RPR	RPR Limits		RPD	RPD Max
						Min	Max		
Sample Type LCS	Lab Sample ID: Q466788Q-TOC LCS			Lab: LANCAS					
TOTAL ORGANIC CARBON	14600	MG/KG	1250	3740	110	22	139		
Sample Type MB	Lab Sample ID: B466788B-TOC MB			Lab: LANCAS					
TOTAL ORGANIC CARBON	< 100	MG/KG	100	300					
Sample Type MS	Lab Sample ID: 6466788-TOC MS			Lab: LANCAS					
TOTAL ORGANIC CARBON	55100	MG/KG	1570	4710	97	24	149		
Sample Type REP	Lab Sample ID: 6466788-TOC REP			Lab: LANCAS					
TOTAL ORGANIC CARBON	8800	MG/KG	695	2090				7	15

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR16-B(0.0-0.5)	11/9/2011	6466788-TOC FS	LANCAS
POM-E-WR16.2-A(0.0-0.5)	11/9/2011	6466789-TOC FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6466790-TOC FS	LANCAS
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466791-TOC FS	LANCAS
POM-E-WR16.4-A(0.0-0.5)	11/9/2011	6466792-TOC FS	LANCAS
POM-E-WR16.4-B(0.0-0.5)	11/9/2011	6466793-TOC FS	LANCAS
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466794-TOC FS	LANCAS
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466795-TOC FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6466796-TOC FS	LANCAS

Batch Identifier 316066 7471A MOD. 7471A 15-NOV-11 113185711001 62347

Method Number: 7471A Prep Method: 7471A MOD. Pre-prep:
Batch Start Date: 11/15/2011 Intrument: 62347

Analyte/Parameter	Result	Unit	MDL	PQL	RPR	RPR Limits		RPD	RPD Max
						Min	Max		
Sample Type LCS	Lab Sample ID: P31811AQQ-HG LCS			Lab: LANCAS					
MERCURY	15.3	MG/KG	0.337	4.78	102	83	119		
Sample Type MB	Lab Sample ID: P31811ABB-HG MB			Lab: LANCAS					
MERCURY	< 0.0066	MG/KG	0.0066	0.0941					
Sample Type MS	Lab Sample ID: 6466797-HG MS			Lab: LANCAS					
MERCURY	3.92	MG/KG	0.166	2.36	NC	80	120	NC	
Sample Type MSD	Lab Sample ID: 6466797-HG MSD			Lab: LANCAS					
MERCURY	6.08	MG/KG	0.168	2.38	NC	80	120	NC	20
Sample Type REP	Lab Sample ID: 6466797-HG REP			Lab: LANCAS					
MERCURY	6.45	MG/KG	0.170	2.42				28	20

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR16-B(0.0-0.5)	11/9/2011	6466788-HG FS	LANCAS
POM-E-WR16.2-A(0.0-0.5)	11/9/2011	6466789-HG FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6466790-HG FS	LANCAS
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466791-HG FS	LANCAS
POM-E-WR16.4-A(0.0-0.5)	11/9/2011	6466792-HG FS	LANCAS
POM-E-WR16.4-B(0.0-0.5)	11/9/2011	6466793-HG FS	LANCAS
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466794-HG FS	LANCAS
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466795-HG FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6466796-HG FS	LANCAS
POM-E-WR18-C(0.0-0.5)	11/10/2011	6466797-HG FS	LANCAS
POM-E-WR18-C(0.0-0.5)-DUP	11/10/2011	6466801-HG FS	LANCAS

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE RIVER SED PH III

2/15/2012
Page 6 of 20

Batch Identifier 316067 LLOYD KAHN 14-NOV-11 11318049531B 08610

Method Number: LLOYD KAHN Prep Method: Pre-prep:
Batch Start Date: 11/14/2011 Instrument: 08610

					<u>RPR Limits</u>			RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: Q466788Q-TOC LCS			Lab: LANCAS	110	22	139		
TOTAL ORGANIC CARBON		14600	MG/KG	1250	3740					
Sample Type	MB	Lab Sample ID: B466788B-TOC MB			Lab: LANCAS					
TOTAL ORGANIC CARBON		< 100	MG/KG	100	300	34	24	149		
Sample Type	MS	Lab Sample ID: 6466797-TOC MS			Lab: LANCAS					
TOTAL ORGANIC CARBON		3910	MG/KG	293	879					
Sample Type	REP	Lab Sample ID: 6466797-TOC REP			Lab: LANCAS				4	15
TOTAL ORGANIC CARBON		859	MG/KG	147	441					

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR18-C(0.0-0.5)	11/10/2011	6466797-TOC FS	LANCAS
POM-E-WR18-C(0.0-0.5)-DUP	11/10/2011	6466801-TOC FS	LANCAS

**Corporate Environmental Database
Lab Analysis QA/QC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE RIVER SED PH III

2/15/2012
Page 7 of 20

Batch Identifier 316377 D422 12-NOV-11 11316710301A 9458

Method Number: D422 Prep Method: Pre-prep:
Batch Start Date: 11/12/2011 Intrument: 9458

Analyte/Parameter		Result	Unit	MDL	PQL	RPR Limits			RPD	
						RPR	Min	Max	RPD	Max
Sample Type	REP	Lab Sample ID: P453159-GS.001mm RE			Lab: LANCAS					
0.001 MM		9.0	% PASSIN0.50		1.0				11	20
Sample Type	REP	Lab Sample ID: P453159-GS.002mm RE			Lab: LANCAS					
0.002 MM		16.5	% PASSIN0.50		1.0				24	20
Sample Type	REP	Lab Sample ID: P453159-GS.005mm RE			Lab: LANCAS					
0.005 MM		25.5	% PASSIN0.50		1.0				22	20
Sample Type	REP	Lab Sample ID: P453159-GS.02mm REF			Lab: LANCAS					
0.02 MM		39.0	% PASSIN0.50		1.0				7	20
Sample Type	REP	Lab Sample ID: P453159-GS.05mm REF			Lab: LANCAS					
0.05 MM		57.0	% PASSIN0.50		1.0				3	20
Sample Type	REP	Lab Sample ID: P453159-GS.064mm RE			Lab: LANCAS					
0.064 MM		67.0	% PASSIN0.50		1.0				3	20
Sample Type	REP	Lab Sample ID: P453159-GS.075mm RE			Lab: LANCAS					
0.075 MM		70.5	% PASSIN0.50		1.0				3	20
Sample Type	REP	Lab Sample ID: P453159-GS.15mm REF			Lab: LANCAS					
0.15 MM		76.6	% PASSIN0.50		1.0				5	20
Sample Type	REP	Lab Sample ID: P453159-GS.3mm REP			Lab: LANCAS					
0.3 MM		81.6	% PASSIN0.50		1.0				6	20
Sample Type	REP	Lab Sample ID: P453159-GS.6mm REP			Lab: LANCAS					
0.6 MM		88.8	% PASSIN0.50		1.0				4	20
Sample Type	REP	Lab Sample ID: P453159-GS1.18mm RE			Lab: LANCAS					
1.18 MM		99.9	% PASSIN0.50		1.0				0	20
Sample Type	REP	Lab Sample ID: P453159-GS19mm REP			Lab: LANCAS					
19 MM		100	% PASSIN0.50		1.0				0	20
Sample Type	REP	Lab Sample ID: P453159-GS2.36mm RE			Lab: LANCAS					
2.36 MM		99.9	% PASSIN0.50		1.0				0	20
Sample Type	REP	Lab Sample ID: P453159-GS3.35mm RE			Lab: LANCAS					
3.35 MM		100	% PASSIN0.50		1.0				0	20
Sample Type	REP	Lab Sample ID: P453159-GS37.5mm RE			Lab: LANCAS					
37.5 MM		100	% PASSIN0.50		1.0				0	20
Sample Type	REP	Lab Sample ID: P453159-GS4.75mm RE			Lab: LANCAS					
4.75 MM		100	% PASSIN0.50		1.0				0	20
Sample Type	REP	Lab Sample ID: P453159-GS75mm REP			Lab: LANCAS					
75 MM		100	% PASSIN0.50		1.0				0	20

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR16-B(0.0-0.5)	11/9/2011	6466803-GS.001mm FS	LANCAS
POM-E-WR16-B(0.0-0.5)	11/9/2011	6466803-GS.002mm FS	LANCAS
POM-E-WR16-B(0.0-0.5)	11/9/2011	6466803-GS.005mm FS	LANCAS
POM-E-WR16-B(0.0-0.5)	11/9/2011	6466803-GS.02mm FS	LANCAS
POM-E-WR16-B(0.0-0.5)	11/9/2011	6466803-GS.05mm FS	LANCAS
POM-E-WR16-B(0.0-0.5)	11/9/2011	6466803-GS.064mm FS	LANCAS
POM-E-WR16-B(0.0-0.5)	11/9/2011	6466803-GS.075mm FS	LANCAS
POM-E-WR16-B(0.0-0.5)	11/9/2011	6466803-GS.15mm FS	LANCAS
POM-E-WR16-B(0.0-0.5)	11/9/2011	6466803-GS.3mm FS	LANCAS
POM-E-WR16-B(0.0-0.5)	11/9/2011	6466803-GS.6mm FS	LANCAS
POM-E-WR16-B(0.0-0.5)	11/9/2011	6466803-GS1.18mm FS	LANCAS
POM-E-WR16-B(0.0-0.5)	11/9/2011	6466803-GS19mm FS	LANCAS
POM-E-WR16-B(0.0-0.5)	11/9/2011	6466803-GS2.36mm FS	LANCAS
POM-E-WR16-B(0.0-0.5)	11/9/2011	6466803-GS3.35mm FS	LANCAS
POM-E-WR16-B(0.0-0.5)	11/9/2011	6466803-GS37.5mm FS	LANCAS
POM-E-WR16-B(0.0-0.5)	11/9/2011	6466803-GS4.75mm FS	LANCAS
POM-E-WR16-B(0.0-0.5)	11/9/2011	6466803-GS75mm FS	LANCAS
POM-E-WR16.2-A(0.0-0.5)	11/9/2011	6466804-GS.001mm FS	LANCAS
POM-E-WR16.2-A(0.0-0.5)	11/9/2011	6466804-GS.002mm FS	LANCAS
POM-E-WR16.2-A(0.0-0.5)	11/9/2011	6466804-GS.005mm FS	LANCAS
POM-E-WR16.2-A(0.0-0.5)	11/9/2011	6466804-GS.02mm FS	LANCAS
POM-E-WR16.2-A(0.0-0.5)	11/9/2011	6466804-GS.05mm FS	LANCAS
POM-E-WR16.2-A(0.0-0.5)	11/9/2011	6466804-GS.064mm FS	LANCAS
POM-E-WR16.2-A(0.0-0.5)	11/9/2011	6466804-GS.075mm FS	LANCAS

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE RIVER SED PH III

2/15/2012
Page 8 of 20

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR16.2-A(0.0-0.5)	11/9/2011	6466804-GS.15mm FS	LANCAS
POM-E-WR16.2-A(0.0-0.5)	11/9/2011	6466804-GS.3mm FS	LANCAS
POM-E-WR16.2-A(0.0-0.5)	11/9/2011	6466804-GS.6mm FS	LANCAS
POM-E-WR16.2-A(0.0-0.5)	11/9/2011	6466804-GS1.18mm FS	LANCAS
POM-E-WR16.2-A(0.0-0.5)	11/9/2011	6466804-GS19mm FS	LANCAS
POM-E-WR16.2-A(0.0-0.5)	11/9/2011	6466804-GS2.36mm FS	LANCAS
POM-E-WR16.2-A(0.0-0.5)	11/9/2011	6466804-GS3.35mm FS	LANCAS
POM-E-WR16.2-A(0.0-0.5)	11/9/2011	6466804-GS37.5mm FS	LANCAS
POM-E-WR16.2-A(0.0-0.5)	11/9/2011	6466804-GS4.75mm FS	LANCAS
POM-E-WR16.2-A(0.0-0.5)	11/9/2011	6466804-GS75mm FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6466805-GS.001mm FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6466805-GS.002mm FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6466805-GS.005mm FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6466805-GS.02mm FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6466805-GS.05mm FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6466805-GS.064mm FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6466805-GS.075mm FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6466805-GS.15mm FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6466805-GS.3mm FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6466805-GS.6mm FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6466805-GS1.18mm FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6466805-GS19mm FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6466805-GS2.36mm FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6466805-GS3.35mm FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6466805-GS37.5mm FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6466805-GS4.75mm FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6466805-GS75mm FS	LANCAS
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466806-GS.001mm FS	LANCAS
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466806-GS.002mm FS	LANCAS
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466806-GS.005mm FS	LANCAS
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466806-GS.02mm FS	LANCAS
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466806-GS.05mm FS	LANCAS
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466806-GS.064mm FS	LANCAS
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466806-GS.075mm FS	LANCAS
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466806-GS.15mm FS	LANCAS
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466806-GS.3mm FS	LANCAS
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466806-GS.6mm FS	LANCAS
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466806-GS1.18mm FS	LANCAS
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466806-GS19mm FS	LANCAS
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466806-GS2.36mm FS	LANCAS
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466806-GS3.35mm FS	LANCAS
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466806-GS37.5mm FS	LANCAS
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466806-GS4.75mm FS	LANCAS
POM-E-WR16.2-C(0.0-0.5)	11/9/2011	6466806-GS75mm FS	LANCAS
POM-E-WR16.4-A(0.0-0.5)	11/9/2011	6466807-GS.001mm FS	LANCAS
POM-E-WR16.4-A(0.0-0.5)	11/9/2011	6466807-GS.002mm FS	LANCAS
POM-E-WR16.4-A(0.0-0.5)	11/9/2011	6466807-GS.005mm FS	LANCAS
POM-E-WR16.4-A(0.0-0.5)	11/9/2011	6466807-GS.02mm FS	LANCAS
POM-E-WR16.4-A(0.0-0.5)	11/9/2011	6466807-GS.05mm FS	LANCAS
POM-E-WR16.4-A(0.0-0.5)	11/9/2011	6466807-GS.064mm FS	LANCAS
POM-E-WR16.4-A(0.0-0.5)	11/9/2011	6466807-GS.075mm FS	LANCAS
POM-E-WR16.4-A(0.0-0.5)	11/9/2011	6466807-GS.15mm FS	LANCAS
POM-E-WR16.4-A(0.0-0.5)	11/9/2011	6466807-GS.3mm FS	LANCAS
POM-E-WR16.4-A(0.0-0.5)	11/9/2011	6466807-GS.6mm FS	LANCAS
POM-E-WR16.4-A(0.0-0.5)	11/9/2011	6466807-GS1.18mm FS	LANCAS
POM-E-WR16.4-A(0.0-0.5)	11/9/2011	6466807-GS19mm FS	LANCAS
POM-E-WR16.4-A(0.0-0.5)	11/9/2011	6466807-GS2.36mm FS	LANCAS
POM-E-WR16.4-A(0.0-0.5)	11/9/2011	6466807-GS3.35mm FS	LANCAS
POM-E-WR16.4-A(0.0-0.5)	11/9/2011	6466807-GS37.5mm FS	LANCAS
POM-E-WR16.4-A(0.0-0.5)	11/9/2011	6466807-GS4.75mm FS	LANCAS
POM-E-WR16.4-A(0.0-0.5)	11/9/2011	6466807-GS75mm FS	LANCAS
POM-E-WR16.4-B(0.0-0.5)	11/9/2011	6466808-GS.001mm FS	LANCAS
POM-E-WR16.4-B(0.0-0.5)	11/9/2011	6466808-GS.002mm FS	LANCAS
POM-E-WR16.4-B(0.0-0.5)	11/9/2011	6466808-GS.005mm FS	LANCAS

**Corporate Environmental Database
Lab Analysis QA/QC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE RIVER SED PH III

2/15/2012
Page 9 of 20

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR16.4-B(0.0-0.5)	11/9/2011	6466808-GS.02mm FS	LANCAS
POM-E-WR16.4-B(0.0-0.5)	11/9/2011	6466808-GS.05mm FS	LANCAS
POM-E-WR16.4-B(0.0-0.5)	11/9/2011	6466808-GS.064mm FS	LANCAS
POM-E-WR16.4-B(0.0-0.5)	11/9/2011	6466808-GS.075mm FS	LANCAS
POM-E-WR16.4-B(0.0-0.5)	11/9/2011	6466808-GS.15mm FS	LANCAS
POM-E-WR16.4-B(0.0-0.5)	11/9/2011	6466808-GS.3mm FS	LANCAS
POM-E-WR16.4-B(0.0-0.5)	11/9/2011	6466808-GS.6mm FS	LANCAS
POM-E-WR16.4-B(0.0-0.5)	11/9/2011	6466808-GS1.18mm FS	LANCAS
POM-E-WR16.4-B(0.0-0.5)	11/9/2011	6466808-GS19mm FS	LANCAS
POM-E-WR16.4-B(0.0-0.5)	11/9/2011	6466808-GS2.36mm FS	LANCAS
POM-E-WR16.4-B(0.0-0.5)	11/9/2011	6466808-GS3.35mm FS	LANCAS
POM-E-WR16.4-B(0.0-0.5)	11/9/2011	6466808-GS37.5mm FS	LANCAS
POM-E-WR16.4-B(0.0-0.5)	11/9/2011	6466808-GS4.75mm FS	LANCAS
POM-E-WR16.4-B(0.0-0.5)	11/9/2011	6466808-GS75mm FS	LANCAS
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS.001mm FS	LANCAS
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS.002mm FS	LANCAS
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS.005mm FS	LANCAS
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS.02mm FS	LANCAS
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS.05mm FS	LANCAS
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS.064mm FS	LANCAS
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS.075mm FS	LANCAS
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS.15mm FS	LANCAS
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS.3mm FS	LANCAS
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS.6mm FS	LANCAS
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS1.18mm FS	LANCAS
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS19mm FS	LANCAS
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS2.36mm FS	LANCAS
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS3.35mm FS	LANCAS
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS37.5mm FS	LANCAS
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS4.75mm FS	LANCAS
POM-E-WR16.4-C(0.0-0.5)	11/9/2011	6466809-GS75mm FS	LANCAS
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466810-GS.001mm FS	LANCAS
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466810-GS.002mm FS	LANCAS
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466810-GS.005mm FS	LANCAS
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466810-GS.02mm FS	LANCAS
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466810-GS.05mm FS	LANCAS
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466810-GS.064mm FS	LANCAS
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466810-GS.075mm FS	LANCAS
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466810-GS.15mm FS	LANCAS
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466810-GS.3mm FS	LANCAS
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466810-GS.6mm FS	LANCAS
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466810-GS1.18mm FS	LANCAS
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466810-GS19mm FS	LANCAS
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466810-GS2.36mm FS	LANCAS
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466810-GS3.35mm FS	LANCAS
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466810-GS37.5mm FS	LANCAS
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466810-GS4.75mm FS	LANCAS
POM-E-WR17-D(0.0-0.5)	11/9/2011	6466810-GS75mm FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6466811-GS.001mm FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6466811-GS.002mm FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6466811-GS.005mm FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6466811-GS.02mm FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6466811-GS.05mm FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6466811-GS.064mm FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6466811-GS.075mm FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6466811-GS.15mm FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6466811-GS.3mm FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6466811-GS.6mm FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6466811-GS1.18mm FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6466811-GS19mm FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6466811-GS2.36mm FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6466811-GS3.35mm FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6466811-GS37.5mm FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6466811-GS4.75mm FS	LANCAS

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE RIVER SED PH III

2/15/2012
Page 10 of 20

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR17-E(0.0-0.5)	11/9/2011	6466811-GS75mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)	11/10/2011	6466812-GS.001mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)	11/10/2011	6466812-GS.002mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)	11/10/2011	6466812-GS.005mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)	11/10/2011	6466812-GS.02mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)	11/10/2011	6466812-GS.05mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)	11/10/2011	6466812-GS.064mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)	11/10/2011	6466812-GS.075mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)	11/10/2011	6466812-GS.15mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)	11/10/2011	6466812-GS.3mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)	11/10/2011	6466812-GS.6mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)	11/10/2011	6466812-GS1.18mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)	11/10/2011	6466812-GS19mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)	11/10/2011	6466812-GS2.36mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)	11/10/2011	6466812-GS3.35mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)	11/10/2011	6466812-GS37.5mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)	11/10/2011	6466812-GS4.75mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)	11/10/2011	6466812-GS75mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)-DUP	11/10/2011	6466813-GS.001mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)-DUP	11/10/2011	6466813-GS.002mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)-DUP	11/10/2011	6466813-GS.005mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)-DUP	11/10/2011	6466813-GS.02mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)-DUP	11/10/2011	6466813-GS.05mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)-DUP	11/10/2011	6466813-GS.064mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)-DUP	11/10/2011	6466813-GS.075mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)-DUP	11/10/2011	6466813-GS.15mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)-DUP	11/10/2011	6466813-GS.3mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)-DUP	11/10/2011	6466813-GS.6mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)-DUP	11/10/2011	6466813-GS1.18mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)-DUP	11/10/2011	6466813-GS19mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)-DUP	11/10/2011	6466813-GS2.36mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)-DUP	11/10/2011	6466813-GS3.35mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)-DUP	11/10/2011	6466813-GS37.5mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)-DUP	11/10/2011	6466813-GS4.75mm FS	LANCAS
POM-E-WR18-C(0.0-0.5)-DUP	11/10/2011	6466813-GS75mm FS	LANCAS

Batch Identifier 316896 7471A MOD. 7471A 04-DEC-11 113365711001 62347

Method Number: 7471A Prep Method: 7471A MOD. Pre-prep:
Batch Start Date: 12/04/2011 Intrument: 62347

						RPR Limits			RPD	
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: P33611AQQ-HG	LCS		Lab: LANCAS	104	83	119		
MERCURY		15.6	MG/KG	0.346	4.92					
Sample Type	MB	Lab Sample ID: P33611ABB-HG	MB		Lab: LANCAS	NC	80	120	NC	
MERCURY		< 0.0068	MG/KG	0.0068	0.0963					
Sample Type	MS	Lab Sample ID: 6485730-HG	MS		Lab: LANCAS	NC	80	120	NC	
MERCURY		81.9	MG/KG	1.35	19.2					
Sample Type	MSD	Lab Sample ID: 6485730-HG	MSD		Lab: LANCAS	NC	80	120	NC	20
MERCURY		185	MG/KG	6.90	98.1					
Sample Type	REP	Lab Sample ID: 6485730-HG	REP		Lab: LANCAS				25	20
MERCURY		45.3	MG/KG	0.685	9.74					

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR16-B(0.0-0.5)	11/9/2011	6485730-HG FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6485732-HG FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6485734-HG FS	LANCAS

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE RIVER SED PH III

2/15/2012
Page 11 of 20

Batch Identifier 316897 1311 3010A 6010B 01-DEC-11 113365705001 16417

Method Number: 6010B Prep Method: 3010A Pre-prep: 1311
Batch Start Date: 12/01/2011 Intrument: 16417

						RPR Limits			RPD	
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: P33605AQQ-AG LCS			Lab: LANCAS					
SILVER		0.0458	MG/L	0.00091	0.0050	92	83	120		
Sample Type	LCS	Lab Sample ID: P33605AQQ-AS LCS			Lab: LANCAS					
ARSENIC		0.164	MG/L	0.0051	0.0200	109	89	115		
Sample Type	LCS	Lab Sample ID: P33605AQQ-BA LCS			Lab: LANCAS					
BARIUM		1.81	MG/L	0.00026	0.0050	91	90	110		
Sample Type	LCS	Lab Sample ID: P33605AQQ-CD LCS			Lab: LANCAS					
CADMIUM		0.0489	MG/L	0.00027	0.0050	98	90	112		
Sample Type	LCS	Lab Sample ID: P33605AQQ-CR LCS			Lab: LANCAS					
CHROMIUM		0.194	MG/L	0.0011	0.0150	97	90	110		
Sample Type	LCS	Lab Sample ID: P33605AQQ-PB LCS			Lab: LANCAS					
LEAD		0.140	MG/L	0.0022	0.0150	93	88	110		
Sample Type	LCS	Lab Sample ID: P33605AQQ-SE LCS			Lab: LANCAS					
SELENIUM		0.165	MG/L	0.0069	0.0200	110	80	120		
Sample Type	MB	Lab Sample ID: P33605ABB-AG MB			Lab: LANCAS					
SILVER		< 0.00091	MG/L	0.00091	0.0050					
Sample Type	MB	Lab Sample ID: P33605ABB-AS MB			Lab: LANCAS					
ARSENIC		< 0.0051	MG/L	0.0051	0.0200					
Sample Type	MB	Lab Sample ID: P33605ABB-BA MB			Lab: LANCAS					
BARIUM		0.00039	MG/L	0.00026	0.0050					
Sample Type	MB	Lab Sample ID: P33605ABB-CD MB			Lab: LANCAS					
CADMIUM		< 0.00027	MG/L	0.00027	0.0050					
Sample Type	MB	Lab Sample ID: P33605ABB-CR MB			Lab: LANCAS					
CHROMIUM		< 0.0011	MG/L	0.0011	0.0150					
Sample Type	MB	Lab Sample ID: P33605ABB-PB MB			Lab: LANCAS					
LEAD		< 0.0022	MG/L	0.0022	0.0150					
Sample Type	MB	Lab Sample ID: P33605ABB-SE MB			Lab: LANCAS					
SELENIUM		< 0.0069	MG/L	0.0069	0.0200					
Sample Type	MS	Lab Sample ID: 6485731-AG MS			Lab: LANCAS					
SILVER		3.37	MG/L	0.00091	0.0050	67	75	125		
Sample Type	MS	Lab Sample ID: 6485731-AS MS			Lab: LANCAS					
ARSENIC		4.78	MG/L	0.0051	0.0200	95	75	125		
Sample Type	MS	Lab Sample ID: 6485731-BA MS			Lab: LANCAS					
BARIUM		87.1	MG/L	0.0065	0.125	86	75	125		
Sample Type	MS	Lab Sample ID: 6485731-CD MS			Lab: LANCAS					
CADMIUM		0.855	MG/L	0.00027	0.0050	85	75	125		
Sample Type	MS	Lab Sample ID: 6485731-CR MS			Lab: LANCAS					
CHROMIUM		4.23	MG/L	0.0011	0.0150	85	75	125		
Sample Type	MS	Lab Sample ID: 6485731-PB MS			Lab: LANCAS					
LEAD		4.18	MG/L	0.0022	0.0150	82	75	125		
Sample Type	MS	Lab Sample ID: 6485731-SE MS			Lab: LANCAS					
SELENIUM		0.969	MG/L	0.0069	0.0200	97	75	125		
Sample Type	MSD	Lab Sample ID: 6485731-AG MSD			Lab: LANCAS					
SILVER		3.44	MG/L	0.00091	0.0050	69	75	125	2	20
Sample Type	MSD	Lab Sample ID: 6485731-AS MSD			Lab: LANCAS					
ARSENIC		4.76	MG/L	0.0051	0.0200	95	75	125	0	20
Sample Type	MSD	Lab Sample ID: 6485731-BA MSD			Lab: LANCAS					
BARIUM		86.9	MG/L	0.0065	0.125	86	75	125	0	20
Sample Type	MSD	Lab Sample ID: 6485731-CD MSD			Lab: LANCAS					
CADMIUM		0.853	MG/L	0.00027	0.0050	85	75	125	0	20
Sample Type	MSD	Lab Sample ID: 6485731-CR MSD			Lab: LANCAS					
CHROMIUM		4.26	MG/L	0.0011	0.0150	85	75	125	1	20
Sample Type	MSD	Lab Sample ID: 6485731-PB MSD			Lab: LANCAS					
LEAD		4.17	MG/L	0.0022	0.0150	82	75	125	0	20
Sample Type	MSD	Lab Sample ID: 6485731-SE MSD			Lab: LANCAS					
SELENIUM		0.968	MG/L	0.0069	0.0200	97	75	125	0	20
Sample Type	REP	Lab Sample ID: 6485731-AG REP			Lab: LANCAS					
SILVER		< 0.00091	MG/L	0.00091	0.0050				0	20
Sample Type	REP	Lab Sample ID: 6485731-AS REP			Lab: LANCAS					
ARSENIC		0.0070	MG/L	0.0051	0.0200				2	20
Sample Type	REP	Lab Sample ID: 6485731-BA REP			Lab: LANCAS					
BARIUM		0.650	MG/L	0.00026	0.0050				2	20

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE RIVER SED PH III

2/15/2012
Page 12 of 20

						RPR Limits		RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	REP	Lab Sample ID: 6485731-CD REP			Lab: LANCAS					
CADMIUM		0.0017	MG/L	0.00027	0.0050				1	20
Sample Type	REP	Lab Sample ID: 6485731-CR REP			Lab: LANCAS					
CHROMIUM		0.0029	MG/L	0.0011	0.0150				11	20
Sample Type	REP	Lab Sample ID: 6485731-PB REP			Lab: LANCAS					
LEAD		0.0767	MG/L	0.0022	0.0150				1	20
Sample Type	REP	Lab Sample ID: 6485731-SE REP			Lab: LANCAS					
SELENIUM		< 0.0069	MG/L	0.0069	0.0200				0	20

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR16-B(0.0-0.5)	11/9/2011	6485731-AG FS	LANCAS
POM-E-WR16-B(0.0-0.5)	11/9/2011	6485731-AS FS	LANCAS
POM-E-WR16-B(0.0-0.5)	11/9/2011	6485731-BA FS	LANCAS
POM-E-WR16-B(0.0-0.5)	11/9/2011	6485731-CD FS	LANCAS
POM-E-WR16-B(0.0-0.5)	11/9/2011	6485731-CR FS	LANCAS
POM-E-WR16-B(0.0-0.5)	11/9/2011	6485731-PB FS	LANCAS
POM-E-WR16-B(0.0-0.5)	11/9/2011	6485731-SE FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6485733-AG FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6485733-AS FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6485733-BA FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6485733-CD FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6485733-CR FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6485733-PB FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6485733-SE FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6485735-AG FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6485735-AS FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6485735-BA FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6485735-CD FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6485735-CR FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6485735-PB FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6485735-SE FS	LANCAS

Batch Identifier 316898 SM 2540 G 01-DEC-11 11335820003B 9001

Method Number: SM 2540 G Prep Method: Pre-prep:
Batch Start Date: 12/01/2011 Intrument: 9001

						<u>RPR Limits</u>		RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: LC33513Q-MOIST LCS			Lab: LANCAS					
MOISTURE		89.1	%	0.50	0.50	99	99	101		
Sample Type	REP	Lab Sample ID: P468241-MOIST REP			Lab: LANCAS					
MOISTURE		23.3	%	0.50	0.50				9	15

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6485732-MOIST FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6485734-MOIST FS	LANCAS

Corporate Environmental Database Lab Analysis QAQC Report

Site: **POMPTON LAKES WORKS**
Project: **WANAQUE RIVER SED PH III**

2/15/2012
Page 13 of 20

Batch Identifier 316899 1311 METHOD 7470A 01-DEC-11 113365713001 17384

Method Number: 7470A Prep Method: METHOD Pre-prep: 1311
Batch Start Date: 12/01/2011 Intrument: 17384

						RPR Limits		RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: P33613AQQ-HG LCS			Lab: LANCAS	94	80	120		
MERCURY		0.00094	MG/L	0.000026	0.00020					
Sample Type	MB	Lab Sample ID: P33613ABB-HG MB			Lab: LANCAS					
MERCURY		< 0.000026	MG/L	0.000026	0.00020					
Sample Type	MS	Lab Sample ID: 6485731-HG MS			Lab: LANCAS	87	80	120		
MERCURY		0.0173	MG/L	0.00026	0.0020					
Sample Type	MSD	Lab Sample ID: 6485731-HG MSD			Lab: LANCAS	82	80	120	5	20
MERCURY		0.0165	MG/L	0.00026	0.0020					
Sample Type	REP	Lab Sample ID: 6485731-HG REP			Lab: LANCAS				0	20
MERCURY		< 0.000026	MG/L	0.000026	0.00020					

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR16-B(0.0-0.5)	11/9/2011	6485731-HG FS	LANCAS
POM-E-WR16.2-B(0.0-0.5)	11/9/2011	6485733-HG FS	LANCAS
POM-E-WR17-E(0.0-0.5)	11/9/2011	6485735-HG FS	LANCAS

Batch Identifier 317421 LLOYD KAHN 26-DEC-11 11360049531A 08610

Method Number: LLOYD KAHN Prep Method: Pre-prep:
Batch Start Date: 12/26/2011 Intrument: 08610

						RPR Limits		RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: Q500160Q-TOC LCS			Lab: LANCAS					
TOC		13600	MG/KG	1380	4130	102	22	139		
TOTAL ORGANIC CARBON		13600	MG/KG	1380	4130	102	22	139		
Sample Type	MB	Lab Sample ID: B500160B-TOC MB			Lab: LANCAS					
TOC		< 100	MG/KG	100	300					
TOTAL ORGANIC CARBON		< 100	MG/KG	100	300					
Sample Type	MS	Lab Sample ID: 6500160-TOC MS			Lab: LANCAS					
TOC		62000	MG/KG	2110	6330	37	24	149		
TOTAL ORGANIC CARBON		62000	MG/KG	2110	6330	37	24	149		
Sample Type	REP	Lab Sample ID: 6500160-TOC REP			Lab: LANCAS					
TOC		40700	MG/KG	890	2670				5	15
TOTAL ORGANIC CARBON		40700	MG/KG	890	2670				5	15

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR14B(0.0-0.5)	12/15/2011	6503429-TOC FS	LANCAS
POM-E-WR14C(0.0-0.5)	12/15/2011	6503428-TOC FS	LANCAS
POM-E-WR15A(0.0-0.5)	12/15/2011	6503430-TOC FS	LANCAS
POM-E-WR15B(0.0-0.5)	12/15/2011	6503431-TOC FS	LANCAS

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE RIVER SED PH III

2/15/2012
Page 14 of 20

Batch Identifier 317618 SM 2540 G 20-DEC-11 11354820005B 9001

Method Number: SM 2540 G Prep Method: Pre-prep:
Batch Start Date: 12/20/2011 Intrument: 9001

						<u>RPR Limits</u>		RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: LC35415Q-MOIST LCS			Lab: LANCAS					
MOISTURE		89.3	%	0.50	0.50	100	99	101		
Sample Type	REP	Lab Sample ID: 6503433-MOIST REP			Lab: LANCAS					
MOISTURE		21.6	%	0.50	0.50				2	15

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR14B(0.0-0.5)	12/15/2011	6503429-MOIST FS	LANCAS
POM-E-WR14C(0.0-0.5)	12/15/2011	6503428-MOIST FS	LANCAS
POM-E-WR15.2A(0.0-0.5)	12/15/2011	6503432-MOIST FS	LANCAS
POM-E-WR15.2B(0.0-0.5)	12/15/2011	6503433-MOIST FS	LANCAS
POM-E-WR15.2C(0.0-0.5)	12/15/2011	6503438-MOIST FS	LANCAS
POM-E-WR15.4A-B(0.0-0.5)	12/15/2011	6503441-MOIST FS	LANCAS
POM-E-WR15.4C(0.0-0.5)	12/15/2011	6503442-MOIST FS	LANCAS
POM-E-WR15A(0.0-0.5)	12/15/2011	6503430-MOIST FS	LANCAS
POM-E-WR15A(0.0-0.5)-DUP	12/15/2011	6503437-MOIST FS	LANCAS
POM-E-WR15B(0.0-0.5)	12/15/2011	6503431-MOIST FS	LANCAS
POM-E-WR18D(0.0-0.5)	12/15/2011	6503440-MOIST FS	LANCAS
POM-E-WR18D(14-18)	12/15/2011	6503439-MOIST FS	LANCAS

Batch Identifier 317746 SM 5310 C 20-DEC-11 11355237301A 15610

Method Number: SM 5310 C Prep Method: Pre-prep:
Batch Start Date: 12/20/2011 Intrument: 15610

					<u>RPR Limits</u>			RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: P35537AQQ-TOC LCS			Lab: LANCAS					
TOTAL ORGANIC CARBON		25.1	MG/L	0.50	1.0	101	91	113		
Sample Type	LCSD	Lab Sample ID: P35537AYY-TOC LCSD			Lab: LANCAS					
TOTAL ORGANIC CARBON		24.9	MG/L	0.50	1.0	100	91	113	1	20
Sample Type	MB	Lab Sample ID: P35537ABB-TOC MB			Lab: LANCAS					
TOTAL ORGANIC CARBON		< 0.50	MG/L	0.50	1.0					

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-K-FBLK-2	12/16/2011	6503443-TOC FB	LANCAS

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE RIVER SED PH III

2/15/2012
Page 15 of 20

Batch Identifier 317925 METHOD 7470A 19-DEC-11 113535713003 17384

Method Number: 7470A Prep Method: METHOD Pre-prep:
Batch Start Date: 12/19/2011 Intrument: 17384

						RPR Limits		RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: P35313CQQ-HG LCS			Lab: LANCAS	100	80	120		
MERCURY		0.0010	MG/L	0.000026	0.00020					
Sample Type	MB	Lab Sample ID: P35313CBB-HG MB			Lab: LANCAS					
MERCURY		0.000027	MG/L	0.000026	0.00020					
Sample Type	MS	Lab Sample ID: 6500600-HG MS			Lab: LANCAS	94	80	120		
MERCURY		0.00097	MG/L	0.000026	0.00020					
Sample Type	MS	Lab Sample ID: P500600-HG MS			Lab: LANCAS	94	80	120		
MERCURY		0.00097	MG/L	0.000026	0.00020					
Sample Type	MSD	Lab Sample ID: 6500600-HG MSD			Lab: LANCAS	93	80	120	1	20
MERCURY		0.00096	MG/L	0.000026	0.00020					
Sample Type	MSD	Lab Sample ID: P500600-HG MSD			Lab: LANCAS	93	80	120	1	20
MERCURY		0.00096	MG/L	0.000026	0.00020					
Sample Type	REP	Lab Sample ID: 6500600-HG REP			Lab: LANCAS				4	20
MERCURY		0.000027	MG/L	0.000026	0.00020					
Sample Type	REP	Lab Sample ID: P500600-HG REP			Lab: LANCAS				4	20
MERCURY		0.000027	MG/L	0.000026	0.00020					

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-K-FBLK-2	12/16/2011	6503443-HG FB	LANCAS

Batch Identifier 318006 7471A MOD. 7471A 20-DEC-11 113535711003 62347

Method Number: 7471A Prep Method: 7471A MOD. Pre-prep:
Batch Start Date: 12/20/2011 Intrument: 62347

						RPR Limits		RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: P35311CQQ-HG LCS			Lab: LANCAS	93	83	119		
MERCURY		14.0	MG/KG	0.333	4.73					
Sample Type	MB	Lab Sample ID: P35311CBB-HG MB			Lab: LANCAS					
MERCURY		< 0.0066	MG/KG	0.0066	0.0933					
Sample Type	MS	Lab Sample ID: 6503433-HG MS			Lab: LANCAS	132	80	120		
MERCURY		0.397	MG/KG	0.0066	0.0941					
Sample Type	MSD	Lab Sample ID: 6503433-HG MSD			Lab: LANCAS	844	80	120	119	20
MERCURY		1.57	MG/KG	0.0345	0.491					
Sample Type	REP	Lab Sample ID: 6503433-HG REP			Lab: LANCAS				22	20
MERCURY		0.152	MG/KG	0.0066	0.0945					

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR14B(0.0-0.5)	12/15/2011	6503429-HG FS	LANCAS
POM-E-WR14C(0.0-0.5)	12/15/2011	6503428-HG FS	LANCAS
POM-E-WR15.2A(0.0-0.5)	12/15/2011	6503432-HG FS	LANCAS
POM-E-WR15.2B(0.0-0.5)	12/15/2011	6503433-HG FS	LANCAS
POM-E-WR15.2C(0.0-0.5)	12/15/2011	6503438-HG FS	LANCAS
POM-E-WR15.4A-B(0.0-0.5)	12/15/2011	6503441-HG FS	LANCAS
POM-E-WR15.4C(0.0-0.5)	12/15/2011	6503442-HG FS	LANCAS
POM-E-WR15A(0.0-0.5)	12/15/2011	6503430-HG FS	LANCAS
POM-E-WR15A(0.0-0.5)-DUP	12/15/2011	6503437-HG FS	LANCAS
POM-E-WR15B(0.0-0.5)	12/15/2011	6503431-HG FS	LANCAS
POM-E-WR18D(0.0-0.5)	12/15/2011	6503440-HG FS	LANCAS
POM-E-WR18D(14-18)	12/15/2011	6503439-HG FS	LANCAS

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE RIVER SED PH III

2/15/2012
Page 16 of 20

Batch Identifier 318007 LLOYD KAHN 26-DEC-11 11360049531B 08610

Method Number: LLOYD KAHN Prep Method: Pre-prep:
Batch Start Date: 12/26/2011 Instrument: 08610

Analyte/Parameter	Result	Unit	MDL	PQL	RPR	RPR Limits		RPD	RPD Max
						Min	Max		
Sample Type LCS	Lab Sample ID: Q500160Q-TOC LCS			Lab: LANCAS					
TOTAL ORGANIC CARBON	13600	MG/KG	1380	4130	102	22	139		
Sample Type MB	Lab Sample ID: B500160B-TOC MB			Lab: LANCAS					
TOTAL ORGANIC CARBON	< 100	MG/KG	100	300					
Sample Type MS	Lab Sample ID: 6503433-TOC MS			Lab: LANCAS					
TOTAL ORGANIC CARBON	4110	MG/KG	100	300	137	24	149		
Sample Type REP	Lab Sample ID: 6503433-TOC REP			Lab: LANCAS					
TOTAL ORGANIC CARBON	< 100	MG/KG	100	300				0	15

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR15.2A(0.0-0.5)	12/15/2011	6503432-TOC FS	LANCAS
POM-E-WR15.2B(0.0-0.5)	12/15/2011	6503433-TOC FS	LANCAS
POM-E-WR15.2C(0.0-0.5)	12/15/2011	6503438-TOC FS	LANCAS
POM-E-WR15.4A-B(0.0-0.5)	12/15/2011	6503441-TOC FS	LANCAS
POM-E-WR15.4C(0.0-0.5)	12/15/2011	6503442-TOC FS	LANCAS
POM-E-WR15A(0.0-0.5)-DUP	12/15/2011	6503437-TOC FS	LANCAS
POM-E-WR18D(0.0-0.5)	12/15/2011	6503440-TOC FS	LANCAS

Corporate Environmental Database Lab Analysis QA/QC Report

Site: **POMPTON LAKES WORKS**
Project: **WANAQUE RIVER SED PH III**

2/15/2012
Page 17 of 20

Batch Identifier 318270 D422 20-DEC-11 11354710301A 9458

Method Number: D422 Prep Method: Pre-prep:
Batch Start Date: 12/20/2011 Instrument: 9458

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR14B(0.0-0.5)	12/15/2011	6503514-GS.001mm FS	LANCAS
POM-E-WR14B(0.0-0.5)	12/15/2011	6503514-GS.002mm FS	LANCAS
POM-E-WR14B(0.0-0.5)	12/15/2011	6503514-GS.005mm FS	LANCAS
POM-E-WR14B(0.0-0.5)	12/15/2011	6503514-GS.02mm FS	LANCAS
POM-E-WR14B(0.0-0.5)	12/15/2011	6503514-GS.15mm FS	LANCAS
POM-E-WR14B(0.0-0.5)	12/15/2011	6503514-GS.6mm FS	LANCAS
POM-E-WR14B(0.0-0.5)	12/15/2011	6503514-GS19mm FS	LANCAS
POM-E-WR14B(0.0-0.5)	12/15/2011	6503514-GS3.35mm FS	LANCAS
POM-E-WR14B(0.0-0.5)	12/15/2011	6503514-GS4.75mm FS	LANCAS
POM-E-WR14B(0.0-0.5)	12/15/2011	6503514-GS75mm FS	LANCAS
POM-E-WR14B(0.0-0.5)	12/15/2011	6503514-GS37.5mm FS	LANCAS
POM-E-WR14B(0.0-0.5)	12/15/2011	6503514-GS2.36mm FS	LANCAS
POM-E-WR14B(0.0-0.5)	12/15/2011	6503514-GS1.18mm FS	LANCAS
POM-E-WR14B(0.0-0.5)	12/15/2011	6503514-GS.3mm FS	LANCAS
POM-E-WR14B(0.0-0.5)	12/15/2011	6503514-GS.075mm FS	LANCAS
POM-E-WR14B(0.0-0.5)	12/15/2011	6503514-GS.064mm FS	LANCAS
POM-E-WR14B(0.0-0.5)	12/15/2011	6503514-GS.05mm FS	LANCAS
POM-E-WR14C(0.0-0.5)	12/15/2011	6503513-GS.001mm FS	LANCAS
POM-E-WR14C(0.0-0.5)	12/15/2011	6503513-GS.002mm FS	LANCAS
POM-E-WR14C(0.0-0.5)	12/15/2011	6503513-GS.005mm FS	LANCAS
POM-E-WR14C(0.0-0.5)	12/15/2011	6503513-GS.02mm FS	LANCAS
POM-E-WR14C(0.0-0.5)	12/15/2011	6503513-GS.05mm FS	LANCAS
POM-E-WR14C(0.0-0.5)	12/15/2011	6503513-GS.064mm FS	LANCAS
POM-E-WR14C(0.0-0.5)	12/15/2011	6503513-GS.075mm FS	LANCAS
POM-E-WR14C(0.0-0.5)	12/15/2011	6503513-GS.15mm FS	LANCAS
POM-E-WR14C(0.0-0.5)	12/15/2011	6503513-GS.3mm FS	LANCAS
POM-E-WR14C(0.0-0.5)	12/15/2011	6503513-GS.6mm FS	LANCAS
POM-E-WR14C(0.0-0.5)	12/15/2011	6503513-GS1.18mm FS	LANCAS
POM-E-WR14C(0.0-0.5)	12/15/2011	6503513-GS19mm FS	LANCAS
POM-E-WR14C(0.0-0.5)	12/15/2011	6503513-GS2.36mm FS	LANCAS
POM-E-WR14C(0.0-0.5)	12/15/2011	6503513-GS3.35mm FS	LANCAS
POM-E-WR14C(0.0-0.5)	12/15/2011	6503513-GS37.5mm FS	LANCAS
POM-E-WR14C(0.0-0.5)	12/15/2011	6503513-GS4.75mm FS	LANCAS
POM-E-WR14C(0.0-0.5)	12/15/2011	6503513-GS75mm FS	LANCAS
POM-E-WR15.2A(0.0-0.5)	12/15/2011	6503517-GS.001mm FS	LANCAS
POM-E-WR15.2A(0.0-0.5)	12/15/2011	6503517-GS.002mm FS	LANCAS
POM-E-WR15.2A(0.0-0.5)	12/15/2011	6503517-GS.02mm FS	LANCAS
POM-E-WR15.2A(0.0-0.5)	12/15/2011	6503517-GS.075mm FS	LANCAS
POM-E-WR15.2A(0.0-0.5)	12/15/2011	6503517-GS.064mm FS	LANCAS
POM-E-WR15.2A(0.0-0.5)	12/15/2011	6503517-GS.05mm FS	LANCAS
POM-E-WR15.2A(0.0-0.5)	12/15/2011	6503517-GS.005mm FS	LANCAS
POM-E-WR15.2A(0.0-0.5)	12/15/2011	6503517-GS.15mm FS	LANCAS
POM-E-WR15.2A(0.0-0.5)	12/15/2011	6503517-GS75mm FS	LANCAS
POM-E-WR15.2A(0.0-0.5)	12/15/2011	6503517-GS4.75mm FS	LANCAS
POM-E-WR15.2A(0.0-0.5)	12/15/2011	6503517-GS37.5mm FS	LANCAS
POM-E-WR15.2A(0.0-0.5)	12/15/2011	6503517-GS3.35mm FS	LANCAS
POM-E-WR15.2A(0.0-0.5)	12/15/2011	6503517-GS2.36mm FS	LANCAS
POM-E-WR15.2A(0.0-0.5)	12/15/2011	6503517-GS19mm FS	LANCAS
POM-E-WR15.2A(0.0-0.5)	12/15/2011	6503517-GS1.18mm FS	LANCAS
POM-E-WR15.2A(0.0-0.5)	12/15/2011	6503517-GS.6mm FS	LANCAS
POM-E-WR15.2A(0.0-0.5)	12/15/2011	6503517-GS.3mm FS	LANCAS
POM-E-WR15.2B(0.0-0.5)	12/15/2011	6503518-GS.001mm FS	LANCAS
POM-E-WR15.2B(0.0-0.5)	12/15/2011	6503518-GS.002mm FS	LANCAS
POM-E-WR15.2B(0.0-0.5)	12/15/2011	6503518-GS.02mm FS	LANCAS
POM-E-WR15.2B(0.0-0.5)	12/15/2011	6503518-GS.075mm FS	LANCAS
POM-E-WR15.2B(0.0-0.5)	12/15/2011	6503518-GS.064mm FS	LANCAS
POM-E-WR15.2B(0.0-0.5)	12/15/2011	6503518-GS.05mm FS	LANCAS
POM-E-WR15.2B(0.0-0.5)	12/15/2011	6503518-GS.005mm FS	LANCAS
POM-E-WR15.2B(0.0-0.5)	12/15/2011	6503518-GS.15mm FS	LANCAS

**Corporate Environmental Database
Lab Analysis QA/QC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE RIVER SED PH III

2/15/2012
Page 18 of 20

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR15.2B(0.0-0.5)	12/15/2011	6503518-GS75mm FS	LANCAS
POM-E-WR15.2B(0.0-0.5)	12/15/2011	6503518-GS4.75mm FS	LANCAS
POM-E-WR15.2B(0.0-0.5)	12/15/2011	6503518-GS37.5mm FS	LANCAS
POM-E-WR15.2B(0.0-0.5)	12/15/2011	6503518-GS3.35mm FS	LANCAS
POM-E-WR15.2B(0.0-0.5)	12/15/2011	6503518-GS2.36mm FS	LANCAS
POM-E-WR15.2B(0.0-0.5)	12/15/2011	6503518-GS19mm FS	LANCAS
POM-E-WR15.2B(0.0-0.5)	12/15/2011	6503518-GS1.18mm FS	LANCAS
POM-E-WR15.2B(0.0-0.5)	12/15/2011	6503518-GS.6mm FS	LANCAS
POM-E-WR15.2B(0.0-0.5)	12/15/2011	6503518-GS.3mm FS	LANCAS
POM-E-WR15.2C(0.0-0.5)	12/15/2011	6503519-GS.001mm FS	LANCAS
POM-E-WR15.2C(0.0-0.5)	12/15/2011	6503519-GS.002mm FS	LANCAS
POM-E-WR15.2C(0.0-0.5)	12/15/2011	6503519-GS.02mm FS	LANCAS
POM-E-WR15.2C(0.0-0.5)	12/15/2011	6503519-GS.075mm FS	LANCAS
POM-E-WR15.2C(0.0-0.5)	12/15/2011	6503519-GS.064mm FS	LANCAS
POM-E-WR15.2C(0.0-0.5)	12/15/2011	6503519-GS.05mm FS	LANCAS
POM-E-WR15.2C(0.0-0.5)	12/15/2011	6503519-GS.005mm FS	LANCAS
POM-E-WR15.2C(0.0-0.5)	12/15/2011	6503519-GS.15mm FS	LANCAS
POM-E-WR15.2C(0.0-0.5)	12/15/2011	6503519-GS75mm FS	LANCAS
POM-E-WR15.2C(0.0-0.5)	12/15/2011	6503519-GS4.75mm FS	LANCAS
POM-E-WR15.2C(0.0-0.5)	12/15/2011	6503519-GS37.5mm FS	LANCAS
POM-E-WR15.2C(0.0-0.5)	12/15/2011	6503519-GS3.35mm FS	LANCAS
POM-E-WR15.2C(0.0-0.5)	12/15/2011	6503519-GS2.36mm FS	LANCAS
POM-E-WR15.2C(0.0-0.5)	12/15/2011	6503519-GS19mm FS	LANCAS
POM-E-WR15.2C(0.0-0.5)	12/15/2011	6503519-GS1.18mm FS	LANCAS
POM-E-WR15.2C(0.0-0.5)	12/15/2011	6503519-GS.6mm FS	LANCAS
POM-E-WR15.2C(0.0-0.5)	12/15/2011	6503519-GS.3mm FS	LANCAS
POM-E-WR15.4A-B(0.0-0.5)	12/15/2011	6503522-GS.001mm FS	LANCAS
POM-E-WR15.4A-B(0.0-0.5)	12/15/2011	6503522-GS.002mm FS	LANCAS
POM-E-WR15.4A-B(0.0-0.5)	12/15/2011	6503522-GS.02mm FS	LANCAS
POM-E-WR15.4A-B(0.0-0.5)	12/15/2011	6503522-GS.075mm FS	LANCAS
POM-E-WR15.4A-B(0.0-0.5)	12/15/2011	6503522-GS.064mm FS	LANCAS
POM-E-WR15.4A-B(0.0-0.5)	12/15/2011	6503522-GS.05mm FS	LANCAS
POM-E-WR15.4A-B(0.0-0.5)	12/15/2011	6503522-GS.005mm FS	LANCAS
POM-E-WR15.4A-B(0.0-0.5)	12/15/2011	6503522-GS.15mm FS	LANCAS
POM-E-WR15.4A-B(0.0-0.5)	12/15/2011	6503522-GS75mm FS	LANCAS
POM-E-WR15.4A-B(0.0-0.5)	12/15/2011	6503522-GS4.75mm FS	LANCAS
POM-E-WR15.4A-B(0.0-0.5)	12/15/2011	6503522-GS37.5mm FS	LANCAS
POM-E-WR15.4A-B(0.0-0.5)	12/15/2011	6503522-GS3.35mm FS	LANCAS
POM-E-WR15.4A-B(0.0-0.5)	12/15/2011	6503522-GS2.36mm FS	LANCAS
POM-E-WR15.4A-B(0.0-0.5)	12/15/2011	6503522-GS19mm FS	LANCAS
POM-E-WR15.4A-B(0.0-0.5)	12/15/2011	6503522-GS1.18mm FS	LANCAS
POM-E-WR15.4A-B(0.0-0.5)	12/15/2011	6503522-GS.6mm FS	LANCAS
POM-E-WR15.4A-B(0.0-0.5)	12/15/2011	6503522-GS.3mm FS	LANCAS
POM-E-WR15.4C(0.0-0.5)	12/15/2011	6503523-GS.001mm FS	LANCAS
POM-E-WR15.4C(0.0-0.5)	12/15/2011	6503523-GS.002mm FS	LANCAS
POM-E-WR15.4C(0.0-0.5)	12/15/2011	6503523-GS.02mm FS	LANCAS
POM-E-WR15.4C(0.0-0.5)	12/15/2011	6503523-GS.075mm FS	LANCAS
POM-E-WR15.4C(0.0-0.5)	12/15/2011	6503523-GS.064mm FS	LANCAS
POM-E-WR15.4C(0.0-0.5)	12/15/2011	6503523-GS.05mm FS	LANCAS
POM-E-WR15.4C(0.0-0.5)	12/15/2011	6503523-GS.005mm FS	LANCAS
POM-E-WR15.4C(0.0-0.5)	12/15/2011	6503523-GS.15mm FS	LANCAS
POM-E-WR15.4C(0.0-0.5)	12/15/2011	6503523-GS75mm FS	LANCAS
POM-E-WR15.4C(0.0-0.5)	12/15/2011	6503523-GS4.75mm FS	LANCAS
POM-E-WR15.4C(0.0-0.5)	12/15/2011	6503523-GS37.5mm FS	LANCAS
POM-E-WR15.4C(0.0-0.5)	12/15/2011	6503523-GS3.35mm FS	LANCAS
POM-E-WR15.4C(0.0-0.5)	12/15/2011	6503523-GS2.36mm FS	LANCAS
POM-E-WR15.4C(0.0-0.5)	12/15/2011	6503523-GS19mm FS	LANCAS
POM-E-WR15.4C(0.0-0.5)	12/15/2011	6503523-GS1.18mm FS	LANCAS
POM-E-WR15.4C(0.0-0.5)	12/15/2011	6503523-GS.6mm FS	LANCAS
POM-E-WR15.4C(0.0-0.5)	12/15/2011	6503523-GS.3mm FS	LANCAS
POM-E-WR15A(0.0-0.5)	12/15/2011	6503515-GS.001mm FS	LANCAS
POM-E-WR15A(0.0-0.5)	12/15/2011	6503515-GS.002mm FS	LANCAS
POM-E-WR15A(0.0-0.5)	12/15/2011	6503515-GS.005mm FS	LANCAS
POM-E-WR15A(0.0-0.5)	12/15/2011	6503515-GS.02mm FS	LANCAS

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE RIVER SED PH III

2/15/2012
Page 19 of 20

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR15A(0.0-0.5)	12/15/2011	6503515-GS.05mm FS	LANCAS
POM-E-WR15A(0.0-0.5)	12/15/2011	6503515-GS.064mm FS	LANCAS
POM-E-WR15A(0.0-0.5)	12/15/2011	6503515-GS.075mm FS	LANCAS
POM-E-WR15A(0.0-0.5)	12/15/2011	6503515-GS.15mm FS	LANCAS
POM-E-WR15A(0.0-0.5)	12/15/2011	6503515-GS.3mm FS	LANCAS
POM-E-WR15A(0.0-0.5)	12/15/2011	6503515-GS.6mm FS	LANCAS
POM-E-WR15A(0.0-0.5)	12/15/2011	6503515-GS1.18mm FS	LANCAS
POM-E-WR15A(0.0-0.5)	12/15/2011	6503515-GS19mm FS	LANCAS
POM-E-WR15A(0.0-0.5)	12/15/2011	6503515-GS2.36mm FS	LANCAS
POM-E-WR15A(0.0-0.5)	12/15/2011	6503515-GS3.35mm FS	LANCAS
POM-E-WR15A(0.0-0.5)	12/15/2011	6503515-GS37.5mm FS	LANCAS
POM-E-WR15A(0.0-0.5)	12/15/2011	6503515-GS4.75mm FS	LANCAS
POM-E-WR15A(0.0-0.5)	12/15/2011	6503515-GS75mm FS	LANCAS
POM-E-WR15A(0.0-0.5)-DUP	12/15/2011	6503520-GS.001mm FS	LANCAS
POM-E-WR15A(0.0-0.5)-DUP	12/15/2011	6503520-GS.02mm FS	LANCAS
POM-E-WR15A(0.0-0.5)-DUP	12/15/2011	6503520-GS.05mm FS	LANCAS
POM-E-WR15A(0.0-0.5)-DUP	12/15/2011	6503520-GS.005mm FS	LANCAS
POM-E-WR15A(0.0-0.5)-DUP	12/15/2011	6503520-GS.002mm FS	LANCAS
POM-E-WR15A(0.0-0.5)-DUP	12/15/2011	6503520-GS.064mm FS	LANCAS
POM-E-WR15A(0.0-0.5)-DUP	12/15/2011	6503520-GS.15mm FS	LANCAS
POM-E-WR15A(0.0-0.5)-DUP	12/15/2011	6503520-GS75mm FS	LANCAS
POM-E-WR15A(0.0-0.5)-DUP	12/15/2011	6503520-GS4.75mm FS	LANCAS
POM-E-WR15A(0.0-0.5)-DUP	12/15/2011	6503520-GS37.5mm FS	LANCAS
POM-E-WR15A(0.0-0.5)-DUP	12/15/2011	6503520-GS3.35mm FS	LANCAS
POM-E-WR15A(0.0-0.5)-DUP	12/15/2011	6503520-GS2.36mm FS	LANCAS
POM-E-WR15A(0.0-0.5)-DUP	12/15/2011	6503520-GS19mm FS	LANCAS
POM-E-WR15A(0.0-0.5)-DUP	12/15/2011	6503520-GS1.18mm FS	LANCAS
POM-E-WR15A(0.0-0.5)-DUP	12/15/2011	6503520-GS.6mm FS	LANCAS
POM-E-WR15A(0.0-0.5)-DUP	12/15/2011	6503520-GS.3mm FS	LANCAS
POM-E-WR15A(0.0-0.5)-DUP	12/15/2011	6503520-GS.075mm FS	LANCAS
POM-E-WR15B(0.0-0.5)	12/15/2011	6503516-GS.001mm FS	LANCAS
POM-E-WR15B(0.0-0.5)	12/15/2011	6503516-GS.002mm FS	LANCAS
POM-E-WR15B(0.0-0.5)	12/15/2011	6503516-GS.005mm FS	LANCAS
POM-E-WR15B(0.0-0.5)	12/15/2011	6503516-GS.02mm FS	LANCAS
POM-E-WR15B(0.0-0.5)	12/15/2011	6503516-GS.05mm FS	LANCAS
POM-E-WR15B(0.0-0.5)	12/15/2011	6503516-GS.064mm FS	LANCAS
POM-E-WR15B(0.0-0.5)	12/15/2011	6503516-GS.075mm FS	LANCAS
POM-E-WR15B(0.0-0.5)	12/15/2011	6503516-GS.15mm FS	LANCAS
POM-E-WR15B(0.0-0.5)	12/15/2011	6503516-GS.3mm FS	LANCAS
POM-E-WR15B(0.0-0.5)	12/15/2011	6503516-GS.6mm FS	LANCAS
POM-E-WR15B(0.0-0.5)	12/15/2011	6503516-GS1.18mm FS	LANCAS
POM-E-WR15B(0.0-0.5)	12/15/2011	6503516-GS19mm FS	LANCAS
POM-E-WR15B(0.0-0.5)	12/15/2011	6503516-GS2.36mm FS	LANCAS
POM-E-WR15B(0.0-0.5)	12/15/2011	6503516-GS3.35mm FS	LANCAS
POM-E-WR15B(0.0-0.5)	12/15/2011	6503516-GS37.5mm FS	LANCAS
POM-E-WR15B(0.0-0.5)	12/15/2011	6503516-GS4.75mm FS	LANCAS
POM-E-WR15B(0.0-0.5)	12/15/2011	6503516-GS75mm FS	LANCAS
POM-E-WR18D(0.0-0.5)	12/15/2011	6503521-GS.001mm FS	LANCAS
POM-E-WR18D(0.0-0.5)	12/15/2011	6503521-GS.002mm FS	LANCAS
POM-E-WR18D(0.0-0.5)	12/15/2011	6503521-GS.005mm FS	LANCAS
POM-E-WR18D(0.0-0.5)	12/15/2011	6503521-GS.02mm FS	LANCAS
POM-E-WR18D(0.0-0.5)	12/15/2011	6503521-GS.05mm FS	LANCAS
POM-E-WR18D(0.0-0.5)	12/15/2011	6503521-GS.064mm FS	LANCAS
POM-E-WR18D(0.0-0.5)	12/15/2011	6503521-GS.075mm FS	LANCAS
POM-E-WR18D(0.0-0.5)	12/15/2011	6503521-GS.15mm FS	LANCAS
POM-E-WR18D(0.0-0.5)	12/15/2011	6503521-GS.3mm FS	LANCAS
POM-E-WR18D(0.0-0.5)	12/15/2011	6503521-GS.6mm FS	LANCAS
POM-E-WR18D(0.0-0.5)	12/15/2011	6503521-GS1.18mm FS	LANCAS
POM-E-WR18D(0.0-0.5)	12/15/2011	6503521-GS19mm FS	LANCAS
POM-E-WR18D(0.0-0.5)	12/15/2011	6503521-GS2.36mm FS	LANCAS
POM-E-WR18D(0.0-0.5)	12/15/2011	6503521-GS3.35mm FS	LANCAS
POM-E-WR18D(0.0-0.5)	12/15/2011	6503521-GS37.5mm FS	LANCAS
POM-E-WR18D(0.0-0.5)	12/15/2011	6503521-GS4.75mm FS	LANCAS
POM-E-WR18D(0.0-0.5)	12/15/2011	6503521-GS75mm FS	LANCAS

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

November 22, 2011

Project: POM - WANAQUE RIVER SEDIMENT

Submittal Date: 11/11/2011

Group Number: 1275976

SDG: POT97

PO Number: LBIO-66380

Release Number: LA33960

State of Sample Origin: NJ

Client Sample Description

POM-E-WR16-B(0.0-0.5) Sediment Sample
POM-E-WR16.2-A(0.0-0.5) Sediment Sample
POM-E-WR16.2-B(0.0-0.5) Sediment Sample
POM-E-WR16.2-C(0.0-0.5) Sediment Sample
POM-E-WR16.4-A(0.0-0.5) Sediment Sample
POM-E-WR16.4-B(0.0-0.5) Sediment Sample
POM-E-WR16.4-C(0.0-0.5) Sediment Sample
POM-E-WR17-D(0.0-0.5) Sediment Sample
POM-E-WR17-E(0.0-0.5) Sediment Sample
POM-E-WR18-C(0.0-0.5) Sediment Sample
POM-E-WR18-C(0.0-0.5)-MS Matrix Spike Sediment
POM-E-WR18-C(0.0-0.5)-MSD Matrix Spike Dup
POM-E-WR18-C(0.0-0.5) Duplicate Sediment Sample
POM-E-WR(0.0-0.5)-DUP Sediment Sample
POM-K-FBLK-1 Blank Water Sample

Lancaster Labs (LLI) #

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The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC

LLI

Attn: EDD Group

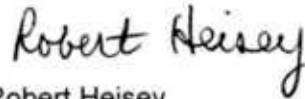
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Data Package Group

Questions? Contact your Client Services Representative
Nancy J Bornholm at (717) 656-2300 Ext. 1310

Respectfully Submitted,



Robert Heisey
Senior Specialist

Sample Description: POM-E-WR16-B(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466788
LLI Group # 1275976
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 13:00 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 11/22/2011 14:52

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

WR16B SDG#: POT97-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 132	mg/kg 2.22	mg/kg 31.5	200
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 15,900	mg/kg 1,030	mg/kg 3,090	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 40.9	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113185711001	11/15/2011 09:26	Damary Valentin	200
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113185711001	11/15/2011 01:15	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11318049531A	11/14/2011 22:43	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11319820001A	11/15/2011 11:09	William C Schwebel	1

Sample Description: POM-E-WR16.2-A(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466789
LLI Group # 1275976
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 12:30 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 11/22/2011 14:52

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

R162A SDG#: POT97-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 43.3	mg/kg 0.952	mg/kg 13.5	50
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 38,100	mg/kg 2,550	mg/kg 7,660	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 65.1	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113185711001	11/15/2011 09:28	Damary Valentin	50
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113185711001	11/15/2011 01:15	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11318049531A	11/14/2011 23:09	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11319820001A	11/15/2011 11:09	William C Schwebel	1

Sample Description: POM-E-WR16.2-B(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466790
LLI Group # 1275976
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 12:45 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 11/22/2011 14:52

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

R162B SDG#: POT97-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 393	mg/kg 14.8	mg/kg 211	1000
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 3,840	mg/kg 472	mg/kg 1,420	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 54.0	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113185711001	11/15/2011 09:34	Damary Valentin	1000
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113185711001	11/15/2011 01:15	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11318049531A	11/14/2011 23:19	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11319820001A	11/15/2011 11:09	William C Schwebel	1

Sample Description: POM-E-WR16.2-C(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466791
LLI Group # 1275976
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 13:00 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 11/22/2011 14:52

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

R162C SDG#: POT97-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 17.0	mg/kg 0.410	mg/kg 5.83	50
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 332 J	mg/kg 160	mg/kg 479	1
Due to the nature of this sample matrix, the sample cup was filled to capacity with less than 1000 mg of sample being used. The lowered sample weight has resulted in a raised reporting limit.						
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 17.9	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113185711001	11/15/2011 08:05	Damary Valentin	50
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113185711001	11/15/2011 01:15	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11318049531A	11/14/2011 23:44	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11319820001A	11/15/2011 11:09	William C Schwebel	1

Sample Description: POM-E-WR16.4-A(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466792
LLI Group # 1275976
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 14:10 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 11/22/2011 14:52

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

R164A SDG#: POT97-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 8.99	mg/kg 0.229	mg/kg 3.25	25
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 17,400	mg/kg 945	mg/kg 2,830	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 27.9	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113185711001	11/15/2011 09:36	Damary Valentin	25
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113185711001	11/15/2011 01:15	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11318049531A	11/14/2011 23:53	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11319820001A	11/15/2011 11:09	William C Schwebel	1



Analysis Report

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Page 1 of 1

Sample Description: POM-E-WR16.4-B(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466793
LLI Group # 1275976
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 13:50 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 11/22/2011 14:52

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

R164B SDG#: POT97-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 12.4	mg/kg 0.427	mg/kg 6.07	50
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 289 J	mg/kg 158	mg/kg 474	1
Due to the nature of this sample matrix, the sample cup was filled to capacity with less than 1000 mg of sample being used. The lowered sample weight has resulted in a raised reporting limit.						
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 21.6	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113185711001	11/15/2011 09:37	Damary Valentin	50
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113185711001	11/15/2011 01:15	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11318049531A	11/15/2011 21:51	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11319820001A	11/15/2011 11:09	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Sample Description: POM-E-WR16.4-C(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466794
LLI Group # 1275976
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 13:35 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 11/22/2011 14:52

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

R164C SDG#: POT97-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 12.4	mg/kg 0.446	mg/kg 6.34	50
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 1,330	mg/kg 296	mg/kg 888	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 21.3	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113185711001	11/15/2011 08:11	Damary Valentin	50
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113185711001	11/15/2011 01:15	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11318049531A	11/15/2011 21:58	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11319820001A	11/15/2011 11:09	William C Schwebel	1

Sample Description: POM-E-WR17-D(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466795
LLI Group # 1275976
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 14:30 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 11/22/2011 14:52

Iron Hill Corporate Center

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Newark DE 19713

WR17D SDG#: POT97-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 1.48	mg/kg 0.0439	mg/kg 0.624	5
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 207 J	mg/kg 137	mg/kg 412	1
Due to the nature of this sample matrix, the sample cup was filled to capacity with less than 1000 mg of sample being used. The lowered sample weight has resulted in a raised reporting limit.						
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 22.1	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113185711001	11/15/2011 09:43	Damary Valentin	5
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113185711001	11/15/2011 01:15	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11318049531A	11/15/2011 22:12	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11319820001A	11/15/2011 11:09	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Sample Description: POM-E-WR17-E(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466796
LLI Group # 1275976
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 15:00 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 11/22/2011 14:52

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WR17E SDG#: POT97-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 1,430	mg/kg 17.9	mg/kg 254	2000
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 919	mg/kg 137	mg/kg 412	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 24.2	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113185711001	11/15/2011 09:56	Damary Valentin	2000
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113185711001	11/15/2011 01:15	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11318049531A	11/15/2011 22:25	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11319820001A	11/15/2011 11:09	William C Schwebel	1

Sample Description: POM-E-WR18-C(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466797
LLI Group # 1275976
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/10/2011 09:15 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 11/22/2011 14:52

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WR18C SDG#: POT97-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 10.7	mg/kg 0.213	mg/kg 3.03	25
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 1,120	mg/kg 186	mg/kg 558	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 19.9	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113185711001	11/15/2011 08:17	Damary Valentin	25
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113185711001	11/15/2011 01:15	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11318049531B	11/15/2011 22:40	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11319820001A	11/15/2011 11:09	William C Schwebel	1

Sample Description: POM-E-WR18-C(0.0-0.5)-MS Matrix Spike Sediment
Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466798
LLI Group # 1275976
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/10/2011 09:15 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 11/22/2011 14:52

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WR18C SDG#: POT97-10MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 4.90	mg/kg 0.207	mg/kg 2.95	25
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 4,880	mg/kg 366	mg/kg 1,100	1
Wet Chemistry						
00118	Moisture	SM20 2540 G n.a.	% 19.9	% 0.50	% 0.50	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113185711001	11/15/2011 08:21	Damary Valentin	25
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113185711001	11/15/2011 01:15	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11318049531B	11/15/2011 22:49	James S Mathiot	1
00118	Moisture	SM20 2540 G	1	11319820001A	11/15/2011 11:09	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Sample Description: POM-E-WR18-C(0.0-0.5)-MSD Matrix Spike Dup
Sediment Sample
WANAQUE RIVER SED PH IIII

LLI Sample # SW 6466799
LLI Group # 1275976
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/10/2011 09:15 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 11/22/2011 14:52

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WR18C SDG#: POT97-10MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 7.58	mg/kg 0.209	mg/kg 2.97	25
Wet Chemistry						
00118	Moisture	SM20 2540 G n.a.	% 19.9	% 0.50	% 0.50	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113185711001	11/15/2011 08:23	Damary Valentin	25
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113185711001	11/15/2011 01:15	Annamaria Stipkovits	1
00118	Moisture	SM20 2540 G	1	11319820001A	11/15/2011 11:09	William C Schwebel	1



Analysis Report

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Page 1 of 1

Sample Description: POM-E-WR18-C(0.0-0.5) Duplicate Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466800
LLI Group # 1275976
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/10/2011 09:15 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 11/22/2011 14:52

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

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WR18C SDG#: POT97-10DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 8.05	mg/kg 0.212	mg/kg 3.02	25
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 1,070	mg/kg 184	mg/kg 551	1
Wet Chemistry						
00118	Moisture	SM20 2540 G n.a.	% 19.9	% 0.50	% 0.50	1
00121	Moisture Duplicate	n.a.	18.9	0.50	0.50	1
The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113185711001	11/15/2011 08:20	Damary Valentin	25
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113185711001	11/15/2011 01:15	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11318049531B	11/15/2011 23:23	James S Mathiot	1
00118	Moisture	SM20 2540 G	1	11319820001A	11/15/2011 11:09	William C Schwebel	1
00121	Moisture Duplicate	SM20 2540 G	1	11319820001A	11/15/2011 11:09	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Sample Description: POM-E-WR(0.0-0.5)-DUP Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466801
LLI Group # 1275976
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/10/2011 09:15 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 11/22/2011 14:52

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

WRDUP SDG#: POT97-11FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 23.7	mg/kg 0.219	mg/kg 3.11	25
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 1,160	mg/kg 173	mg/kg 518	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 20.1	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113185711001	11/15/2011 08:24	Damary Valentin	25
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113185711001	11/15/2011 01:15	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11318049531B	11/15/2011 23:35	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11319820001A	11/15/2011 11:09	William C Schwebel	1

*=This limit was used in the evaluation of the final result

Sample Description: POM-K-FBLK-1 Blank Water Sample
WANAQUE RIVER SED PH III

LLI Sample # WW 6466802
LLI Group # 1275976
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/10/2011 11:10 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 11/22/2011 14:52

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

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WRFB1 SDG#: POT97-12FB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
00259	Mercury	SW-846 7470A 7439-97-6	mg/l 0.00026	mg/l 0.000026	mg/l 0.00020	1
Wet Chemistry						
00273	Total Organic Carbon	SM20 5310 C n.a.	mg/l N.D.	mg/l 0.50	mg/l 1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	113185713001	11/15/2011 08:40	Damary Valentin	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	113185713001	11/14/2011 15:18	Nelli S Markaryan	1
00273	Total Organic Carbon	SM20 5310 C	1	11319049503A	11/15/2011 09:27	James S Mathiot	1

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 11/22/11 at 02:52 PM

Group Number: 1275976

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 113185711001 Mercury	Sample number(s): 6466788-6466801 N.D.	0.0066	0.0941	mg/kg	102		83-119		
Batch number: 113185713001 Mercury	Sample number(s): 6466802 0.000065 J	0.00002 6	0.00020	mg/l	95		80-120		
Batch number: 11318049531A Total Organic Carbon	Sample number(s): 6466788-6466796 N.D.	100.	300	mg/kg	110		22-139		
Batch number: 11318049531B Total Organic Carbon	Sample number(s): 6466797-6466798, 6466800-6466801 N.D.	100.	300	mg/kg	110		22-139		
Batch number: 11319049503A Total Organic Carbon	Sample number(s): 6466802 N.D.	0.50	1.0	mg/l	101		91-113		
Batch number: 11319820001A Moisture	Sample number(s): 6466788-6466801				100		99-101		
Moisture					100		99-101		
Moisture Duplicate					100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 113185711001 Mercury	Sample number(s): 6466788-6466801 -2959 (2)	Sample number(s): 6466797 -1576 (2)	80-120	43*	20	UNSPK: 6466797 8.58	BKG: 6466797 6.45	28* (1)	20
Batch number: 113185713001 Mercury	Sample number(s): 6466802 92	Sample number(s): 6466802 91	80-120	1	20	UNSPK: P468483 0.00010 J	BKG: P468483 0.00011 J	2 (1)	20
Batch number: 11318049531A Total Organic Carbon	Sample number(s): 6466788-6466796 97	Sample number(s): 6466788 24-149	24-149			UNSPK: 6466788 9,410	BKG: 6466788 8,800	7 (1)	15
Batch number: 11318049531B Total Organic Carbon	Sample number(s): 6466797-6466798, 6466800-6466801 34	Sample number(s): 6466797 24-149	24-149			UNSPK: 6466797 895	BKG: 6466797 859	4 (1)	15
Batch number: 11319049503A	Sample number(s): 6466802	Sample number(s): 6466802				UNSPK: P463425	BKG: P463425		

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 11/22/11 at 02:52 PM

Group Number: 1275976

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Total Organic Carbon	111		63-142			N.D.	N.D.	0 (1)	3
Batch number: 11319820001A	Sample number(s): 6466788-6466801 BKG: 6466797								
Moisture						19.9	18.9	5	15
Moisture						19.9	18.9	5	15
Moisture Duplicate						19.9	18.9	5	15

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Environmental Sample Administration Receipt Documentation Log

Client/Project: Gu Pont
Shipping Container Sealed: YES NO

Date of Receipt: 11/11/11
Custody Seal Present * : YES NO

Time of Receipt: 0900

* Custody seal was intact unless otherwise noted in the discrepancy section

Source Code: 50-1
Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	0429951	0.6	TB	WI	Y	B	
2	↓	0.8	↓	↓	↓	↓	
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0
Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Shades / w8 **Date/Time:** 11/11/11 / 0920

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns $>25\%$
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is $<CRDL$, but $\geq IDL$
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

December 12, 2011

Project: POM - WANAQUE RIVER SEDIMENT

Submittal Date: 11/11/2011

Group Number: 1275977

SDG: POT98

PO Number: LBIO-66380

Release Number: LA33960

State of Sample Origin: NJ

Client Sample DescriptionPOM-E-WR16-B(0.0-0.5) Sediment Sample
POM-E-WR16.2-A(0.0-0.5) Sediment Sample
POM-E-WR16.2-B(0.0-0.5) Sediment Sample
POM-E-WR16.2-C(0.0-0.5) Sediment Sample
POM-E-WR16.4-A(0.0-0.5) Sediment Sample
POM-E-WR16.4-B(0.0-0.5) Sediment Sample
POM-E-WR16.4-C(0.0-0.5) Sediment Sample
POM-E-WR17-D(0.0-0.5) Sediment Sample
POM-E-WR17-E(0.0-0.5) Sediment Sample
POM-E-WR18-C(0.0-0.5) Sediment Sample
POM-E-WR(0.0-0.5)-DUP Sediment SampleLancaster Labs (LLI) #6466803
6466804
6466805
6466806
6466807
6466808
6466809
6466810
6466811
6466812
6466813

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC

LLI

Attn: EDD Group

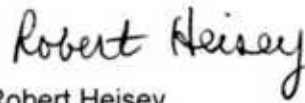
COPY TO

1 COPY TO

Data Package Group

Questions? Contact your Client Services Representative
Nancy J Bornholm at (717) 656-2300 Ext. 1310

Respectfully Submitted,



Robert Heisey
Senior Specialist



Analysis Report

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Page 1 of 1

Sample Description: POM-E-WR16-B(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466803
LLI Group # 1275977
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 13:00 by BS

CRG-E.I.DuPont de Nemours & Co

URS Corporation

Submitted: 11/11/2011 09:00

Iron Hill Corporate Center

Reported: 12/12/2011 16:11

4051 Ogletown Road, Suite 300

Newark DE 19713

G16-B SDG#: POT98-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	93.4	0.50	1.0	1
07103	4.75 mm	n.a.	74.0	0.50	1.0	1
07103	3.35 mm	n.a.	64.6	0.50	1.0	1
07103	2.36 mm	n.a.	55.3	0.50	1.0	1
07103	1.18 mm	n.a.	52.2	0.50	1.0	1
07103	0.6 mm	n.a.	48.3	0.50	1.0	1
07103	0.3 mm	n.a.	45.4	0.50	1.0	1
07103	0.15 mm	n.a.	44.5	0.50	1.0	1
07103	0.075 mm	n.a.	44.1	0.50	1.0	1
07103	0.064 mm	n.a.	39.0	0.50	1.0	1
07103	0.05 mm	n.a.	28.0	0.50	1.0	1
07103	0.02 mm	n.a.	13.0	0.50	1.0	1
07103	0.005 mm	n.a.	7.0	0.50	1.0	1
07103	0.002 mm	n.a.	3.0	0.50	1.0	1
07103	0.001 mm	n.a.	1.0	0.50	1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	11316710301A	11/12/2011 10:50	Luz M Groff	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: POM-E-WR16.2-A(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466804
LLI Group # 1275977
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 12:30 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 12/12/2011 16:11

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

G162A SDG#: POT98-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	95.7	0.50	1.0	1
07103	4.75 mm	n.a.	82.4	0.50	1.0	1
07103	3.35 mm	n.a.	81.6	0.50	1.0	1
07103	2.36 mm	n.a.	81.5	0.50	1.0	1
07103	1.18 mm	n.a.	81.2	0.50	1.0	1
07103	0.6 mm	n.a.	78.2	0.50	1.0	1
07103	0.3 mm	n.a.	74.3	0.50	1.0	1
07103	0.15 mm	n.a.	65.8	0.50	1.0	1
07103	0.075 mm	n.a.	61.1	0.50	1.0	1
07103	0.064 mm	n.a.	54.0	0.50	1.0	1
07103	0.05 mm	n.a.	37.0	0.50	1.0	1
07103	0.02 mm	n.a.	13.0	0.50	1.0	1
07103	0.005 mm	n.a.	7.0	0.50	1.0	1
07103	0.002 mm	n.a.	2.5	0.50	1.0	1
07103	0.001 mm	n.a.	N.D.	0.50	1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	11316710301A	11/12/2011 10:50	Luz M Groff	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: POM-E-WR16.2-B(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466805
LLI Group # 1275977
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 12:45 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 12/12/2011 16:11

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

G162B SDG#: POT98-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	89.8	0.50	1.0	1
07103	4.75 mm	n.a.	73.3	0.50	1.0	1
07103	3.35 mm	n.a.	68.8	0.50	1.0	1
07103	2.36 mm	n.a.	62.7	0.50	1.0	1
07103	1.18 mm	n.a.	57.8	0.50	1.0	1
07103	0.6 mm	n.a.	49.3	0.50	1.0	1
07103	0.3 mm	n.a.	43.7	0.50	1.0	1
07103	0.15 mm	n.a.	41.3	0.50	1.0	1
07103	0.075 mm	n.a.	38.8	0.50	1.0	1
07103	0.064 mm	n.a.	34.0	0.50	1.0	1
07103	0.05 mm	n.a.	20.0	0.50	1.0	1
07103	0.02 mm	n.a.	7.0	0.50	1.0	1
07103	0.005 mm	n.a.	3.0	0.50	1.0	1
07103	0.002 mm	n.a.	2.0	0.50	1.0	1
07103	0.001 mm	n.a.	1.0	0.50	1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	11316710301A	11/12/2011 10:50	Luz M Groff	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: POM-E-WR16.2-C(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466806
LLI Group # 1275977
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 13:00 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 12/12/2011 16:11

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

G162C SDG#: POT98-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	63.4	0.50	1.0	1
07103	3.35 mm	n.a.	54.2	0.50	1.0	1
07103	2.36 mm	n.a.	46.2	0.50	1.0	1
07103	1.18 mm	n.a.	31.0	0.50	1.0	1
07103	0.6 mm	n.a.	15.2	0.50	1.0	1
07103	0.3 mm	n.a.	3.7	0.50	1.0	1
07103	0.15 mm	n.a.	1.1	0.50	1.0	1
07103	0.075 mm	n.a.	0.68 J	0.50	1.0	1
07103	0.064 mm	n.a.	0.50 J	0.50	1.0	1
07103	0.05 mm	n.a.	0.50 J	0.50	1.0	1
07103	0.02 mm	n.a.	0.50 J	0.50	1.0	1
07103	0.005 mm	n.a.	0.50 J	0.50	1.0	1
07103	0.002 mm	n.a.	N.D.	0.50	1.0	1
07103	0.001 mm	n.a.	N.D.	0.50	1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	11316710301A	11/12/2011 10:50	Luz M Groff	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: POM-E-WR16.4-A(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466807
LLI Group # 1275977
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 14:10 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 12/12/2011 16:11

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

G164A SDG#: POT98-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	97.1	0.50	1.0	1
07103	19 mm	n.a.	97.1	0.50	1.0	1
07103	4.75 mm	n.a.	76.4	0.50	1.0	1
07103	3.35 mm	n.a.	68.7	0.50	1.0	1
07103	2.36 mm	n.a.	60.7	0.50	1.0	1
07103	1.18 mm	n.a.	50.7	0.50	1.0	1
07103	0.6 mm	n.a.	26.6	0.50	1.0	1
07103	0.3 mm	n.a.	10.7	0.50	1.0	1
07103	0.15 mm	n.a.	4.0	0.50	1.0	1
07103	0.075 mm	n.a.	2.2	0.50	1.0	1
07103	0.064 mm	n.a.	2.0	0.50	1.0	1
07103	0.05 mm	n.a.	2.0	0.50	1.0	1
07103	0.02 mm	n.a.	1.0	0.50	1.0	1
07103	0.005 mm	n.a.	1.0	0.50	1.0	1
07103	0.002 mm	n.a.	0.50 J	0.50	1.0	1
07103	0.001 mm	n.a.	N.D.	0.50	1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	11316710301A	11/12/2011 10:50	Luz M Groff	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: POM-E-WR16.4-B(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466808
LLI Group # 1275977
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 13:50 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 12/12/2011 16:11

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

G164B SDG#: POT98-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	99.7	0.50	1.0	1
07103	4.75 mm	n.a.	94.8	0.50	1.0	1
07103	3.35 mm	n.a.	92.2	0.50	1.0	1
07103	2.36 mm	n.a.	86.3	0.50	1.0	1
07103	1.18 mm	n.a.	67.0	0.50	1.0	1
07103	0.6 mm	n.a.	29.6	0.50	1.0	1
07103	0.3 mm	n.a.	7.5	0.50	1.0	1
07103	0.15 mm	n.a.	2.6	0.50	1.0	1
07103	0.075 mm	n.a.	1.2	0.50	1.0	1
07103	0.064 mm	n.a.	1.0	0.50	1.0	1
07103	0.05 mm	n.a.	1.0	0.50	1.0	1
07103	0.02 mm	n.a.	1.0	0.50	1.0	1
07103	0.005 mm	n.a.	1.0	0.50	1.0	1
07103	0.002 mm	n.a.	1.0	0.50	1.0	1
07103	0.001 mm	n.a.	1.0	0.50	1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	11316710301A	11/12/2011 10:50	Luz M Groff	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: POM-E-WR16.4-C(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466809
LLI Group # 1275977
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 13:35 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 12/12/2011 16:11

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

G164C SDG#: POT98-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	66.1	0.50	1.0	1
07103	3.35 mm	n.a.	59.1	0.50	1.0	1
07103	2.36 mm	n.a.	53.6	0.50	1.0	1
07103	1.18 mm	n.a.	48.4	0.50	1.0	1
07103	0.6 mm	n.a.	29.9	0.50	1.0	1
07103	0.3 mm	n.a.	5.0	0.50	1.0	1
07103	0.15 mm	n.a.	0.79 J	0.50	1.0	1
07103	0.075 mm	n.a.	0.55 J	0.50	1.0	1
07103	0.064 mm	n.a.	0.50 J	0.50	1.0	1
07103	0.05 mm	n.a.	0.50 J	0.50	1.0	1
07103	0.02 mm	n.a.	0.50 J	0.50	1.0	1
07103	0.005 mm	n.a.	0.50 J	0.50	1.0	1
07103	0.002 mm	n.a.	N.D.	0.50	1.0	1
07103	0.001 mm	n.a.	N.D.	0.50	1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	11316710301A	11/12/2011 10:50	Luz M Groff	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: POM-E-WR17-D(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466810
LLI Group # 1275977
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 14:30 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 12/12/2011 16:11

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

G17-D SDG#: POT98-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	87.9	0.50	1.0	1
07103	3.35 mm	n.a.	82.7	0.50	1.0	1
07103	2.36 mm	n.a.	72.0	0.50	1.0	1
07103	1.18 mm	n.a.	46.1	0.50	1.0	1
07103	0.6 mm	n.a.	12.8	0.50	1.0	1
07103	0.3 mm	n.a.	2.7	0.50	1.0	1
07103	0.15 mm	n.a.	2.1	0.50	1.0	1
07103	0.075 mm	n.a.	1.9	0.50	1.0	1
07103	0.064 mm	n.a.	1.5	0.50	1.0	1
07103	0.05 mm	n.a.	1.5	0.50	1.0	1
07103	0.02 mm	n.a.	1.5	0.50	1.0	1
07103	0.005 mm	n.a.	1.0	0.50	1.0	1
07103	0.002 mm	n.a.	0.50 J	0.50	1.0	1
07103	0.001 mm	n.a.	0.50 J	0.50	1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	11316710301A	11/12/2011 10:50	Luz M Groff	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: POM-E-WR17-E(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466811
LLI Group # 1275977
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 15:00 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 12/12/2011 16:11

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

G17-E SDG#: POT98-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	99.6	0.50	1.0	1
07103	4.75 mm	n.a.	99.6	0.50	1.0	1
07103	3.35 mm	n.a.	99.5	0.50	1.0	1
07103	2.36 mm	n.a.	99.4	0.50	1.0	1
07103	1.18 mm	n.a.	96.3	0.50	1.0	1
07103	0.6 mm	n.a.	37.4	0.50	1.0	1
07103	0.3 mm	n.a.	10	0.50	1.0	1
07103	0.15 mm	n.a.	4.4	0.50	1.0	1
07103	0.075 mm	n.a.	2.4	0.50	1.0	1
07103	0.064 mm	n.a.	2.0	0.50	1.0	1
07103	0.05 mm	n.a.	1.0	0.50	1.0	1
07103	0.02 mm	n.a.	1.0	0.50	1.0	1
07103	0.005 mm	n.a.	1.0	0.50	1.0	1
07103	0.002 mm	n.a.	0.50 J	0.50	1.0	1
07103	0.001 mm	n.a.	N.D.	0.50	1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	11316710301A	11/12/2011 10:50	Luz M Groff	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: POM-E-WR18-C(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466812
LLI Group # 1275977
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/10/2011 09:15 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 12/12/2011 16:11

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

G18-C SDG#: POT98-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	75.6	0.50	1.0	1
07103	3.35 mm	n.a.	67.0	0.50	1.0	1
07103	2.36 mm	n.a.	59.2	0.50	1.0	1
07103	1.18 mm	n.a.	48.9	0.50	1.0	1
07103	0.6 mm	n.a.	26.3	0.50	1.0	1
07103	0.3 mm	n.a.	4.0	0.50	1.0	1
07103	0.15 mm	n.a.	1.4	0.50	1.0	1
07103	0.075 mm	n.a.	1.1	0.50	1.0	1
07103	0.064 mm	n.a.	1.0	0.50	1.0	1
07103	0.05 mm	n.a.	1.0	0.50	1.0	1
07103	0.02 mm	n.a.	1.0	0.50	1.0	1
07103	0.005 mm	n.a.	0.50 J	0.50	1.0	1
07103	0.002 mm	n.a.	N.D.	0.50	1.0	1
07103	0.001 mm	n.a.	N.D.	0.50	1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	11316710301A	11/12/2011 10:50	Luz M Groff	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: POM-E-WR(0.0-0.5)-DUP Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6466813
LLI Group # 1275977
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/10/2011 09:15 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 12/12/2011 16:11

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

GWRFD SDG#: POT98-11FD*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	77.1	0.50	1.0	1
07103	3.35 mm	n.a.	70.3	0.50	1.0	1
07103	2.36 mm	n.a.	63.3	0.50	1.0	1
07103	1.18 mm	n.a.	51.0	0.50	1.0	1
07103	0.6 mm	n.a.	23.4	0.50	1.0	1
07103	0.3 mm	n.a.	4.2	0.50	1.0	1
07103	0.15 mm	n.a.	2.0	0.50	1.0	1
07103	0.075 mm	n.a.	1.5	0.50	1.0	1
07103	0.064 mm	n.a.	1.0	0.50	1.0	1
07103	0.05 mm	n.a.	1.0	0.50	1.0	1
07103	0.02 mm	n.a.	1.0	0.50	1.0	1
07103	0.005 mm	n.a.	0.50 J	0.50	1.0	1
07103	0.002 mm	n.a.	N.D.	0.50	1.0	1
07103	0.001 mm	n.a.	N.D.	0.50	1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	11316710301A	11/12/2011 10:50	Daniel S Smith	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 12/12/11 at 04:11 PM

Group Number: 1275977

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 11316710301A	Sample number(s): 6466803-6466813					BKG: P453159			
75 mm						100	100	0	20
37.5 mm						100	100	0	20
19 mm						100	100	0	20
4.75 mm						100	100	0	20
3.35 mm						100	100	0	20
2.36 mm						99.9	99.9	0	20
1.18 mm						99.7	99.9	0	20
0.6 mm						85.0	88.8	4	20
0.3 mm						77.1	81.6	6	20
0.15 mm						72.8	76.6	5	20
0.075 mm						68.2	70.5	3	20
0.064 mm						65.0	67.0	3	20
0.05 mm						55.5	57.0	3	20
0.02 mm						36.5	39.0	7	20
0.005 mm						20.5	25.5	22*	20
0.002 mm						13.0	16.5	24*	20
0.001 mm						10.0	9.0	11	20

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

For Lancaster Laboratories Use Only

Group No.: 1275977 Sample Nos.: 6466803-13

Acc't: 07032

SCR No.: 113395

Cooler No.

Cooler Temperature upon receipt: 0.8 °C

Container No.:

21049

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

For Lancaster Laboratories Use Only

Group No.: 1275977 Sample Nos.: 6466803-13

Acc't: 07032

SCR No.: 113395

Cooler No.

Cooler Temperature upon receipt:

^oC

Container No: 2

21050

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

For Lancaster Laboratories Use Only

Group No.: 1275977 Sample Nos.: 6466803-13 18325
Acc't: 07032 SCR No.: 113395 Cooler No.: 21052
Cooler Temperature upon receipt: 0.8 °C Container No.: 2

Acc't: 07032

SCR No.: 113395

Cooler No

21052

Cooler Temperature upon receipt:

0.8

o

Container No: 7

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Environmental Sample Administration Receipt Documentation Log

Client/Project: du Pont
Shipping Container Sealed: YES NO

Date of Receipt: 11/11/11
Custody Seal Present * : YES NO

Time of Receipt: 0900

* Custody seal was intact unless otherwise noted in the discrepancy section

Source Code: 50-1
Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	0429951	0.6	TB	WI	Y	B	
2	↓	0.8	↓	↓	↓	L	
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0
Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Shadesly / w8
Date/Time: 11/11/11 / 0920

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

November 17, 2011

Project: POM - WANAQUE RIVER SEDIMENT

Submittal Date: 11/11/2011

Group Number: 1275978

SDG: POT99

PO Number: LBIO-66380

Release Number: LA33960

State of Sample Origin: NJ

Client Sample DescriptionPOM-E-WR18TCLP Sediment Sample
POM-E-WR17BTCLP Sediment Sample
POM-E-WR17CTCLP Sediment Sample
POM-E-WR17aTCLP Sediment Sample
POM-E-WR17TCLP Sediment Sample
POM-E-WR16TCLP Sediment SampleLancaster Labs (LLI) #6466814
6466815
6466816
6466817
6466818
6466819

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC

LLI

Attn: EDD Group

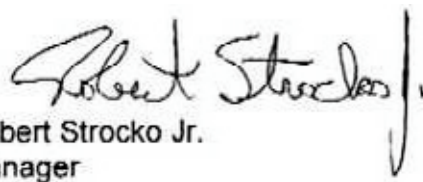
COPY TO

1 COPY TO

Data Package Group

Questions? Contact your Client Services Representative
Nancy J Bornholm at (717) 656-2300 Ext. 1310

Respectfully Submitted,



Robert Strocko Jr.
Manager



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Sample Description: POM-E-WR18TCLP Sediment Sample
TCLP NON-VOLATILE LEACHATE EXTRACTION
WANAQUE RIVER SED PH IIII

LLI Sample # TL 6466814
LLI Group # 1275978
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/10/2011 09:50 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 11/17/2011 09:41

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

WR18T SDG#: POT99-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.102	0.0051	0.0200	1
07046	Barium	7440-39-3	0.452	0.00026	0.0050	1
07049	Cadmium	7440-43-9	0.0023 J	0.00027	0.0050	1
07051	Chromium	7440-47-3	0.0035 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.715	0.0022	0.0150	1
07036	Selenium	7782-49-2	N.D.	0.0069	0.0200	1
07066	Silver	7440-22-4	N.D.	0.00091	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000073 J	0.000026	0.00020	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	113195705001	11/16/2011 17:05	John P Hook	1
07046	Barium	SW-846 6010B	1	113195705001	11/16/2011 17:05	John P Hook	1
07049	Cadmium	SW-846 6010B	1	113195705001	11/16/2011 17:05	John P Hook	1
07051	Chromium	SW-846 6010B	1	113195705001	11/16/2011 17:05	John P Hook	1
07055	Lead	SW-846 6010B	1	113195705001	11/16/2011 17:05	John P Hook	1
07036	Selenium	SW-846 6010B	1	113195705001	11/16/2011 17:05	John P Hook	1
07066	Silver	SW-846 6010B	1	113195705001	11/17/2011 02:08	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	113195713001	11/16/2011 08:50	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	113195705001	11/16/2011 09:05	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	113195713001	11/15/2011 15:45	Nelli S Markaryan	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	11318-482-0947B	11/14/2011 15:05	Darin P Wagner	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: POM-E-WR17BTCLP Sediment Sample
TCLP NON-VOLATILE LEACHATE EXTRACTION
WANAQUE RIVER SED PH III

LLI Sample # TL 6466815
LLI Group # 1275978
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/10/2011 08:50 by BS

CRG-E.I.DuPont de Nemours & Co

URS Corporation

Submitted: 11/11/2011 09:00

Iron Hill Corporate Center

Reported: 11/17/2011 09:41

4051 Ogletown Road, Suite 300

Newark DE 19713

WR17B SDG#: POT99-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.176	0.0051	0.0200	1
07046	Barium	7440-39-3	0.623	0.00026	0.0050	1
07049	Cadmium	7440-43-9	0.0046 J	0.00027	0.0050	1
07051	Chromium	7440-47-3	0.0029 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.644	0.0022	0.0150	1
07036	Selenium	7782-49-2	N.D.	0.0069	0.0200	1
07066	Silver	7440-22-4	0.0010 J	0.00091	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00013 J	0.000026	0.00020	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	113195705001	11/16/2011 17:50	John P Hook	1
07046	Barium	SW-846 6010B	1	113195705001	11/16/2011 17:50	John P Hook	1
07049	Cadmium	SW-846 6010B	1	113195705001	11/16/2011 17:50	John P Hook	1
07051	Chromium	SW-846 6010B	1	113195705001	11/16/2011 17:50	John P Hook	1
07055	Lead	SW-846 6010B	1	113195705001	11/16/2011 17:50	John P Hook	1
07036	Selenium	SW-846 6010B	1	113195705001	11/16/2011 17:50	John P Hook	1
07066	Silver	SW-846 6010B	1	113195705001	11/17/2011 02:31	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	113195713001	11/16/2011 08:56	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	113195705001	11/16/2011 09:05	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	113195713001	11/15/2011 15:45	Nelli S Markaryan	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	11318-482-0947B	11/14/2011 15:05	Darin P Wagner	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: POM-E-WR17CTCLP Sediment Sample
TCLP NON-VOLATILE LEACHATE EXTRACTION
WANAQUE RIVER SED PH III

LLI Sample # TL 6466816
LLI Group # 1275978
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/10/2011 08:30 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 11/17/2011 09:41

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

WR17C SDG#: POT99-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.164	0.0051	0.0200	1
07046	Barium	7440-39-3	0.464	0.00026	0.0050	1
07049	Cadmium	7440-43-9	0.0017 J	0.00027	0.0050	1
07051	Chromium	7440-47-3	0.0032 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.212	0.0022	0.0150	1
07036	Selenium	7782-49-2	N.D.	0.0069	0.0200	1
07066	Silver	7440-22-4	N.D.	0.00091	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0026	0.000026	0.00020	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	113195705001	11/16/2011 17:54	John P Hook	1
07046	Barium	SW-846 6010B	1	113195705001	11/16/2011 17:54	John P Hook	1
07049	Cadmium	SW-846 6010B	1	113195705001	11/16/2011 17:54	John P Hook	1
07051	Chromium	SW-846 6010B	1	113195705001	11/16/2011 17:54	John P Hook	1
07055	Lead	SW-846 6010B	1	113195705001	11/16/2011 17:54	John P Hook	1
07036	Selenium	SW-846 6010B	1	113195705001	11/16/2011 17:54	John P Hook	1
07066	Silver	SW-846 6010B	1	113195705001	11/17/2011 02:35	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	113195713001	11/16/2011 09:01	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	113195705001	11/16/2011 09:05	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	113195713001	11/15/2011 15:45	Nelli S Markaryan	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	11318-482-0947B	11/14/2011 15:05	Darin P Wagner	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: POM-E-WR17aTCLP Sediment Sample
TCLP NON-VOLATILE LEACHATE EXTRACTION
WANAQUE RIVER SED PH IIII

LLI Sample # TL 6466817
LLI Group # 1275978
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 14:50 by BS

CRG-E.I.DuPont de Nemours & Co

URS Corporation

Submitted: 11/11/2011 09:00

Iron Hill Corporate Center

Reported: 11/17/2011 09:41

4051 Ogletown Road, Suite 300

Newark DE 19713

WR17A SDG#: POT99-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0051	0.0200	1
07046	Barium	7440-39-3	0.170	0.00026	0.0050	1
07049	Cadmium	7440-43-9	0.00070 J	0.00027	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0263	0.0022	0.0150	1
07036	Selenium	7782-49-2	N.D.	0.0069	0.0200	1
07066	Silver	7440-22-4	N.D.	0.00091	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.123	0.0026	0.0200	100

General Sample Comments

State of New Jersey Lab Certification No. PA011

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	113195705001	11/16/2011 17:58	John P Hook	1
07046	Barium	SW-846 6010B	1	113195705001	11/16/2011 17:58	John P Hook	1
07049	Cadmium	SW-846 6010B	1	113195705001	11/16/2011 17:58	John P Hook	1
07051	Chromium	SW-846 6010B	1	113195705001	11/16/2011 17:58	John P Hook	1
07055	Lead	SW-846 6010B	1	113195705001	11/16/2011 17:58	John P Hook	1
07036	Selenium	SW-846 6010B	1	113195705001	11/16/2011 17:58	John P Hook	1
07066	Silver	SW-846 6010B	1	113195705001	11/17/2011 02:39	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	113195713001	11/16/2011 09:21	Damary Valentin	100
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	113195705001	11/16/2011 09:05	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	113195713001	11/15/2011 15:45	Nelli S Markaryan	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	11318-482-0947B	11/14/2011 15:05	Darin P Wagner	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: POM-E-WR17TCLP Sediment Sample
TCLP NON-VOLATILE LEACHATE EXTRACTION
WANAQUE RIVER SED PH III

LLI Sample # TL 6466818
LLI Group # 1275978
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 14:20 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/11/2011 09:00

URS Corporation

Reported: 11/17/2011 09:41

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

WR17T SDG#: POT99-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.144	0.0051	0.0200	1
07046	Barium	7440-39-3	0.517	0.00026	0.0050	1
07049	Cadmium	7440-43-9	0.0023 J	0.00027	0.0050	1
07051	Chromium	7440-47-3	0.0038 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.335	0.0022	0.0150	1
07036	Selenium	7782-49-2	N.D.	0.0069	0.0200	1
07066	Silver	7440-22-4	N.D.	0.00091	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.00015 J	0.000026	0.00020	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	113195705001	11/16/2011 18:02	John P Hook	1
07046	Barium	SW-846 6010B	1	113195705001	11/16/2011 18:02	John P Hook	1
07049	Cadmium	SW-846 6010B	1	113195705001	11/16/2011 18:02	John P Hook	1
07051	Chromium	SW-846 6010B	1	113195705001	11/16/2011 18:02	John P Hook	1
07055	Lead	SW-846 6010B	1	113195705001	11/16/2011 18:02	John P Hook	1
07036	Selenium	SW-846 6010B	1	113195705001	11/16/2011 18:02	John P Hook	1
07066	Silver	SW-846 6010B	1	113195705001	11/17/2011 02:50	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	113195713001	11/16/2011 09:22	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	113195705001	11/16/2011 09:05	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	113195713001	11/15/2011 15:45	Nelli S Markaryan	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	11318-482-0947B	11/14/2011 15:05	Darin P Wagner	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: POM-E-WR16TCLP Sediment Sample
TCLP NON-VOLATILE LEACHATE EXTRACTION
WANAQUE RIVER SED PH IIII

LLI Sample # TL 6466819
LLI Group # 1275978
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 12:15 by BS

CRG-E.I.DuPont de Nemours & Co

URS Corporation

Submitted: 11/11/2011 09:00

Iron Hill Corporate Center

Reported: 11/17/2011 09:41

4051 Ogletown Road, Suite 300

Newark DE 19713

WR16T SDG#: POT99-06*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0051	0.0200	1
07046	Barium	7440-39-3	0.194	0.00026	0.0050	1
07049	Cadmium	7440-43-9	0.00078 J	0.00027	0.0050	1
07051	Chromium	7440-47-3	0.0018 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0030 J	0.0022	0.0150	1
07036	Selenium	7782-49-2	N.D.	0.0069	0.0200	1
07066	Silver	7440-22-4	N.D.	0.00091	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000068 J	0.000026	0.00020	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	113195705001	11/16/2011 18:05	John P Hook	1
07046	Barium	SW-846 6010B	1	113195705001	11/16/2011 18:05	John P Hook	1
07049	Cadmium	SW-846 6010B	1	113195705001	11/16/2011 18:05	John P Hook	1
07051	Chromium	SW-846 6010B	1	113195705001	11/16/2011 18:05	John P Hook	1
07055	Lead	SW-846 6010B	1	113195705001	11/16/2011 18:05	John P Hook	1
07036	Selenium	SW-846 6010B	1	113195705001	11/16/2011 18:05	John P Hook	1
07066	Silver	SW-846 6010B	1	113195705001	11/17/2011 02:54	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	113195713001	11/16/2011 09:05	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	113195705001	11/16/2011 09:05	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	113195713001	11/15/2011 15:45	Nelli S Markaryan	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	11318-482-0947B	11/14/2011 15:05	Darin P Wagner	n.a.

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 11/17/11 at 09:41 AM

Group Number: 1275978

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 113195705001	Sample number(s): 6466814-6466819								
Arsenic	N.D.	0.0051	0.0200	mg/l	110		89-115		
Barium	0.00097 J	0.00026	0.0050	mg/l	102		90-110		
Cadmium	0.00044 J	0.00027	0.0050	mg/l	104		90-112		
Chromium	N.D.	0.0011	0.0150	mg/l	101		90-110		
Lead	N.D.	0.0022	0.0150	mg/l	101		88-110		
Selenium	N.D.	0.0069	0.0200	mg/l	115		80-120		
Silver	N.D.	0.00091	0.0050	mg/l	109		83-120		
Batch number: 113195713001	Sample number(s): 6466814-6466819								
Mercury	0.000062 J	0.00002	0.00020	mg/l	104		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 113195705001	Sample number(s): 6466814-6466819 UNSPK: 6466814 BKG: 6466814								
Arsenic	99	100	75-125	2	20	0.102	0.101	1	20
Barium	98	97	75-125	1	20	0.452	0.458	1	20
Cadmium	90	92	75-125	2	20	0.0023 J	0.0029 J	20 (1)	20
Chromium	91	92	75-125	2	20	0.0035 J	0.0034 J	4 (1)	20
Lead	89	91	75-125	2	20	0.715	0.717	0	20
Selenium	98	100	75-125	2	20	N.D.	N.D.	0 (1)	20
Silver	79	84	75-125	6	20	N.D.	N.D.	0 (1)	20
Batch number: 113195713001	Sample number(s): 6466814-6466819 UNSPK: 6466814 BKG: 6466814								
Mercury	90	87	80-120	3	20	0.000073 J	0.000076 J	4 (1)	20

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Environmental Sample Administration Receipt Documentation Log

Client/Project: De Pont

Shipping Container Sealed: YES NO

Date of Receipt: 11/11/11

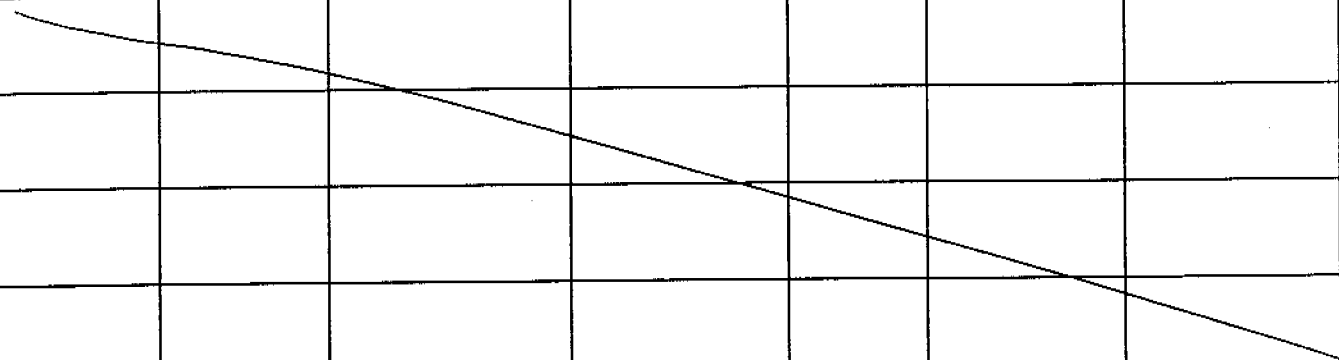
Custody Seal Present * : YES NO

Time of Receipt: 0900

* Custody seal was intact unless otherwise noted in the discrepancy section

Source Code: 50-1

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	0429951	0.6	TB	WI	Y	B	
2	↓	0.8	↓	↓	↓	L	
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Stadely / w8 Date/Time: 11/11/11 / 0920

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

December 05, 2011

Project: POM - WANAQUE RIVER SEDIMENT

Submittal Date: 11/30/2011

Group Number: 1278868

SDG: POM01

PO Number: LBIO-66380

Release Number: LA33960

State of Sample Origin: NJ

Client Sample DescriptionPOM-E-WR16-B(0.0-0.5) Sediment Sample
POM-E-WR16-B(0.0-0.5) Sediment Sample
POM-E-WR16.2-B(0.0-0.5) Sediment Sample
POM-E-WR16.2-B(0.0-0.5) Sediment Sample
POM-E-WR17-E(0.0-0.5) Sediment Sample
POM-E-WR17-E(0.0-0.5) Sediment SampleLancaster Labs (LLI) #6485730
6485731
6485732
6485733
6485734
6485735

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC LLI
COPY TO
1 COPY TO Data Package Group

Attn: EDD Group

Questions? Contact your Client Services Representative
Nancy J Bornholm at (717) 656-2300 Ext. 1310

Respectfully Submitted,



Robert Strocko Jr.
Manager



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Sample Description: POM-E-WR16-B(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6485730
LLI Group # 1278868
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 13:00 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/30/2011 17:00

URS Corporation

Reported: 12/05/2011 12:53

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

16--B SDG#: POM01-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 92.9	mg/kg 1.11	mg/kg 15.7	100
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 37.1	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011
This sample was originally submitted to the laboratory on 11/11/11 at 09:00. We received authorization for further testing on 11/30/11.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113365711001	12/05/2011 09:44	Damary Valentin	100
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113365711001	12/04/2011 12:24	James L Mertz	1
00111	Moisture	SM20 2540 G	1	11336820001B	12/02/2011 19:25	Scott W Freisher	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: POM-E-WR16-B(0.0-0.5) Sediment Sample
TCLP NON-VOLATILE LEACHATE EXTRACTION
WANAQUE RIVER SED PH IIII

LLI Sample # TL 6485731
LLI Group # 1278868
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 13:00 by BS

CRG-E.I.DuPont de Nemours & Co

URS Corporation

Submitted: 11/30/2011 17:00

Iron Hill Corporate Center

Reported: 12/05/2011 12:53

4051 Ogletown Road, Suite 300

Newark DE 19713

16BNV SDG#: POM01-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0069 J	0.0051	0.0200	1
07046	Barium	7440-39-3	0.634	0.00026	0.0050	1
07049	Cadmium	7440-43-9	0.0017 J	0.00027	0.0050	1
07051	Chromium	7440-47-3	0.0026 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0760	0.0022	0.0150	1
07036	Selenium	7782-49-2	N.D.	0.0069	0.0200	1
07066	Silver	7440-22-4	N.D.	0.00091	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000026	0.00020	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

This sample was originally submitted to the laboratory on 11/11/11 at 09:00. We received authorization for further testing on 11/30/11.

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	113365705001	12/05/2011 02:16	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	113365705001	12/05/2011 02:16	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	113365705001	12/05/2011 02:16	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	113365705001	12/05/2011 02:16	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	113365705001	12/05/2011 02:16	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	113365705001	12/05/2011 02:16	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	113365705001	12/05/2011 02:16	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	113365713001	12/05/2011 07:35	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	113365705001	12/04/2011 11:14	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	113365713001	12/02/2011 15:23	Nelli S Markaryan	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	11335-482-0947A	12/01/2011 15:10	Darin P Wagner	n.a.

*=This limit was used in the evaluation of the final result

Sample Description: POM-E-WR16.2-B(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6485732
LLI Group # 1278868
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 12:45 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/30/2011 17:00

URS Corporation

Reported: 12/05/2011 12:53

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

162B- SDG#: POM01-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 416	mg/kg 13.4	mg/kg 191	1000
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 49.7	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

This sample was originally submitted to the laboratory on 11/11/11 at 09:00. We received authorization for further testing on 11/30/11.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113365711001	12/05/2011 10:47	Damary Valentin	1000
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113365711001	12/04/2011 12:24	James L Mertz	1
00111	Moisture	SM20 2540 G	1	11335820003B	12/01/2011 21:51	Scott W Freisher	1

Sample Description: POM-E-WR16.2-B(0.0-0.5) Sediment Sample
TCLP NON-VOLATILE LEACHATE EXTRACTION
WANAQUE RIVER SED PH IIII

LLI Sample # TL 6485733
LLI Group # 1278868
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 12:45 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/30/2011 17:00

URS Corporation

Reported: 12/05/2011 12:53

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

162BN SDG#: POM01-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0554	0.0051	0.0200	1
07046	Barium	7440-39-3	0.316	0.00026	0.0050	1
07049	Cadmium	7440-43-9	0.0062	0.00027	0.0050	1
07051	Chromium	7440-47-3	0.0027 J	0.0011	0.0150	1
07055	Lead	7439-92-1	0.672	0.0022	0.0150	1
07036	Selenium	7782-49-2	N.D.	0.0069	0.0200	1
07066	Silver	7440-22-4	N.D.	0.00091	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000073 J	0.000026	0.00020	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

This sample was originally submitted to the laboratory on 11/11/11 at 09:00. We received authorization for further testing on 11/30/11.

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	113365705001	12/05/2011 02:56	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	113365705001	12/05/2011 02:56	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	113365705001	12/05/2011 02:56	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	113365705001	12/05/2011 02:56	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	113365705001	12/05/2011 02:56	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	113365705001	12/05/2011 02:56	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	113365705001	12/05/2011 02:56	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	113365713001	12/05/2011 07:41	Damary Valentin	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	113365705001	12/04/2011 11:14	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	113365713001	12/02/2011 15:23	Nelli S Markaryan	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	11335-482-0947A	12/01/2011 15:10	Darin P Wagner	n.a.

*=This limit was used in the evaluation of the final result

Sample Description: POM-E-WR17-E(0.0-0.5) Sediment Sample
WANAQUE RIVER SED PH III

LLI Sample # SW 6485734
LLI Group # 1278868
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 15:00 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/30/2011 17:00

URS Corporation

Reported: 12/05/2011 12:53

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

17--E SDG#: POM01-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 10.3	mg/kg 0.434	mg/kg 6.17	50
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 19.8	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011
This sample was originally submitted to the laboratory on 11/11/11 at 09:00. We received authorization for further testing on 11/30/11.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113365711001	12/05/2011 09:55	Damary Valentin	50
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113365711001	12/04/2011 12:24	James L Mertz	1
00111	Moisture	SM20 2540 G	1	11335820003B	12/01/2011 21:51	Scott W Freisher	1

Sample Description: POM-E-WR17-E(0.0-0.5) Sediment Sample
TCLP NON-VOLATILE LEACHATE EXTRACTION
WANAQUE RIVER SED PH IIII

LLI Sample # TL 6485735
LLI Group # 1278868
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 11/09/2011 15:00 by BS

CRG-E.I.DuPont de Nemours & Co

Submitted: 11/30/2011 17:00

URS Corporation

Reported: 12/05/2011 12:53

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

17ENV SDG#: POM01-06*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6010B	mg/l	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0051	0.0200	1
07046	Barium	7440-39-3	0.179	0.00026	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00027	0.0050	1
07051	Chromium	7440-47-3	N.D.	0.0011	0.0150	1
07055	Lead	7439-92-1	0.0052 J	0.0022	0.0150	1
07036	Selenium	7782-49-2	N.D.	0.0069	0.0200	1
07066	Silver	7440-22-4	N.D.	0.00091	0.0050	1
		SW-846 7470A	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.0084	0.00013	0.0010	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

This sample was originally submitted to the laboratory on 11/11/11 at 09:00. We received authorization for further testing on 11/30/11.

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07035	Arsenic	SW-846 6010B	1	113365705001	12/05/2011 03:01	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	113365705001	12/05/2011 03:01	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	113365705001	12/05/2011 03:01	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	113365705001	12/05/2011 03:01	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	113365705001	12/05/2011 03:01	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	113365705001	12/05/2011 03:01	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	113365705001	12/05/2011 03:01	Tara L Snyder	1
00259	Mercury	SW-846 7470A	1	113365713001	12/05/2011 08:33	Damary Valentin	5
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	113365705001	12/04/2011 11:14	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	113365713001	12/02/2011 15:23	Nelli S Markaryan	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	11335-482-0947A	12/01/2011 15:10	Darin P Wagner	n.a.

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 12/05/11 at 12:53 PM

Group Number: 1278868

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 113365705001	Sample number(s): 6485731,6485733,6485735								
Arsenic	N.D.	0.0051	0.0200	mg/l	109		89-115		
Barium	0.00039 J	0.00026	0.0050	mg/l	91		90-110		
Cadmium	N.D.	0.00027	0.0050	mg/l	98		90-112		
Chromium	N.D.	0.0011	0.0150	mg/l	97		90-110		
Lead	N.D.	0.0022	0.0150	mg/l	93		88-110		
Selenium	N.D.	0.0069	0.0200	mg/l	110		80-120		
Silver	N.D.	0.00091	0.0050	mg/l	92		83-120		
Batch number: 113365711001	Sample number(s): 6485730,6485732,6485734								
Mercury	N.D.	0.0068	0.0963	mg/kg	104		83-119		
Batch number: 113365713001	Sample number(s): 6485731,6485733,6485735								
Mercury	N.D.	0.00002	0.00020	mg/l	94		80-120		
		6							
Batch number: 11335820003B	Sample number(s): 6485732,6485734								
Moisture					99		99-101		
Batch number: 11336820001B	Sample number(s): 6485730								
Moisture					100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 113365705001	Sample number(s): 6485731,6485733,6485735 UNSPK: 6485731 BKG: 6485731								
Arsenic	95	95	75-125	0	20	0.0069 J	0.0070 J	2 (1)	20
Barium	86	86	75-125	0	20	0.634	0.650	2	20
Cadmium	85	85	75-125	0	20	0.0017 J	0.0017 J	1 (1)	20
Chromium	85	85	75-125	1	20	0.0026 J	0.0029 J	11 (1)	20
Lead	82	82	75-125	0	20	0.0760	0.0767	1	20
Selenium	97	97	75-125	0	20	N.D.	N.D.	0 (1)	20
Silver	67*	69*	75-125	2	20	N.D.	N.D.	0 (1)	20
Batch number: 113365711001	Sample number(s): 6485730,6485732,6485734 UNSPK: 6485730 BKG: 6485730								
Mercury	14702	77273	80-120	77*	20	58.4	45.3	25* (1)	20
	(2)	(2)							

*- Outside of specification

**This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 12/05/11 at 12:53 PM

Group Number: 1278868

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

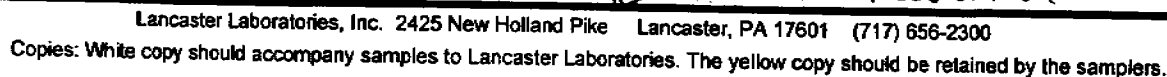
<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Batch number: 113365713001 Mercury	87	82	80-120	5	20	N.D.	N.D.	0 (1) 20
Batch number: 11335820003B Moisture	Sample number(s): 6485731, 6485733, 6485735 UNSPK: 6485731 BKG: 6485731							
					21.4	23.3	9	15
Batch number: 11336820001B Moisture	Sample number(s): 6485730 BKG: P482426							
					29.3	29.0	1	15

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.



1 of 1

21051

Facility Name: Pompton Lakes		Project Manager: Gary Long		Analyses Required												Comments:					
Facility Contact: Josh Collins		Facility Contact Phone No.: 609-602-4694														5 Day TAT for Hg, TOC					
Facility Address: Pompton Lakes Works		Job No.: 9267-7720100C-WH06 50																			
2000 Cannonball Road		Release No.: LA33960																			
Pompton Lakes NJ 07442		PO Number: LBIO-66380																			
Sampler(s): BS, DB																					
Project Name: WANAQUE RIVER SED PH III																					
Sample Identification	Date Collected	Time Collected	Matrix	Containers			Grain Size (ASTM D422)	Hg (7471A)	Moisture (SM20 2540 G)	TOC (Lloyd Kahn)											Condition upon receipt
				Volume (ml)	Preserv	No.															
POM-E-WR17-D(0.0-0.5)	11/9/11	1430	SW	125	None	1		X	X	X											Intact
POM-E-WR17-D(0.0-0.5)	11/9/11	1430	SW	500	None	1	X														
POM-E-WR17-E(0.0-0.5)	11/9/11	1500	SW	125	None	1		X	X	X											
POM-E-WR17-E(0.0-0.5)	11/9/11	1500	SW	500	None	1	X														
POM-E-WR18-C(0.0-0.5)	11/10/11	0915	SW	125	None	1		X	X	X											
POM-E-WR18-C(0.0-0.5)	11/10/11	0915	SW	500	None	1	X														
Turnaround Time Requested (please circle): Normal				Rush		Number of days: 5		Special Instructions: Full Deliverables needed													
Bottles Relinquished by: [Signature]		Date: 11/10/11	Time: 1200		Bottles Received by:		Date:		Time:												
Bottles Relinquished by:		Date:	Time:		Bottles Received by:		Date:		Time:												
Bottles Relinquished by:		Date:	Time:		Bottles Received by:		Date:		Time:												
Bottles Relinquished by:		Date:	Time:		Bottles Received by: Deborah Reslund		Date: 11/11/11		Time: 0900												

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.



Environmental Sample Administration Receipt Documentation Log

Client/Project: Du Pont

Shipping Container Sealed: YES NO

Date of Receipt: 11/11/11

Custody Seal Present * : YES NO

Time of Receipt: 0900

* Custody seal was intact unless otherwise noted in the discrepancy section

Source Code: 50-1

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	0429951	0.6	TB	WI	Y	B	
2	↓	0.8	↓	↓	↓	↓	
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Wadsworth / wsr Date/Time: 11/11/11 / 0920

Issued by Dept. 6042 Management

2174.06

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

December 28, 2011

Project: POM - WANAQUE RIVER SEDIMENT

Submittal Date: 12/17/2011

Group Number: 1281637

SDG: POM02

PO Number: LBIO-66380

Release Number: LA33960

State of Sample Origin: NJ

Client Sample Description

POM-E-WR14C(0.0-0.5) Sediment
POM-E-WR14B(0.0-0.5) Sediment
POM-E-WR15A(0.0-0.5) Sediment
POM-E-WR15B(0.0-0.5) Sediment
POM-E-WR15.2A(0.0-0.5) Sediment
POM-E-WR15.2B(0.0-0.5) Unspiked Sediment
POM-E-WR15.2B(0.0-0.5)-MS Matrix Spike Sediment
POM-E-WR15.2B(0.0-0.5)-MSD Matrix Spike Dup
POM-E-WR15.2B(0.0-0.5) Duplicate Sediment
POM-E-WR15A(0.0-0.5)-DUP Sediment
POM-E-WR15.2C(0.0-0.5) Sediment
POM-E-WR18D(14-18) Sediment
POM-E-WR18D(0.0-0.5) Sediment
POM-E-WR15.4A-B(0.0-0.5) Sediment
POM-E-WR15.4C(0.0-0.5) Sediment
POM-K-FBLK-2 Blank Water Sample

Lancaster Labs (LLI) #

6503428
6503429
6503430
6503431
6503432
6503433
6503434
6503435
6503436
6503437
6503438
6503439
6503440
6503441
6503442
6503443

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

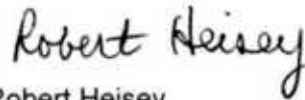
ELECTRONIC LLI
COPY TO

Attn: EDD Group

1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nancy J Bornholm at (717) 656-2300 Ext. 1310

Respectfully Submitted,



Robert Heisey
Senior Specialist

Sample Description: POM-E-WR14C(0.0-0.5) Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503428
LLI Group # 1281637
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 10:00 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 12/28/2011 14:51

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

14C00 SDG#: POM02-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 328	mg/kg 5.82	mg/kg 82.8	500
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 9,510	mg/kg 947	mg/kg 2,840	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 43.9	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113535711003	12/20/2011 18:24	Nelli S Markaryan	500
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113535711003	12/20/2011 12:25	James L Mertz	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11360049531A	12/26/2011 23:38	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11354820005B	12/20/2011 20:46	Scott W Freisher	1

Sample Description: POM-E-WR14B(0.0-0.5) Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503429
LLI Group # 1281637
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 10:20 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 12/28/2011 14:51

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

14B00 SDG#: POM02-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 0.0382 J	mg/kg 0.0073	mg/kg 0.104	1
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg N.D.	mg/kg 108	mg/kg 323	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 7.2	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113535711003	12/20/2011 17:54	Nelli S Markaryan	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113535711003	12/20/2011 12:25	James L Mertz	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11360049531A	12/26/2011 23:48	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11354820005B	12/20/2011 20:46	Scott W Freisher	1

Sample Description: POM-E-WR15A(0.0-0.5) Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503430
LLI Group # 1281637
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 11:30 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 12/28/2011 14:51

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

15A00 SDG#: POM02-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 5.65	mg/kg 0.127	mg/kg 1.81	10
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 20,200	mg/kg 780	mg/kg 2,340	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 46.9	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113535711003	12/20/2011 18:30	Nelli S Markaryan	10
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113535711003	12/20/2011 12:25	James L Mertz	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11360049531A	12/26/2011 23:56	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11354820005B	12/20/2011 20:46	Scott W Freisher	1

Sample Description: POM-E-WR15B(0.0-0.5) Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503431
LLI Group # 1281637
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 11:20 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 12/28/2011 14:51

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

15B00 SDG#: POM02-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 0.0949 J	mg/kg 0.0085	mg/kg 0.121	1
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg N.D.	mg/kg 124	mg/kg 372	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 19.3	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113535711003	12/20/2011 17:57	Nelli S Markaryan	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113535711003	12/20/2011 12:25	James L Mertz	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11360049531A	12/27/2011 00:07	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11354820005B	12/20/2011 20:46	Scott W Freisher	1

Sample Description: POM-E-WR15.2A(0.0-0.5) Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503432
LLI Group # 1281637
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 12:15 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 12/28/2011 14:51

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

152A- SDG#: POM02-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 12.0	mg/kg 0.259	mg/kg 3.68	20
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 20,100	mg/kg 2,140	mg/kg 6,410	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 45.7	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113535711003	12/20/2011 18:31	Nelli S Markaryan	20
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113535711003	12/20/2011 12:25	James L Mertz	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11360049531B	12/27/2011 00:25	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11354820005B	12/20/2011 20:46	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: POM-E-WR15.2B(0.0-0.5) Unspiked Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503433
LLI Group # 1281637
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 12:25 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 12/28/2011 14:51

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

152B- SDG#: POM02-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 0.243	mg/kg 0.0089	mg/kg 0.127	1
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg N.D.	mg/kg 128	mg/kg 385	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 22.1	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113535711003	12/20/2011 18:00	Nelli S Markaryan	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113535711003	12/20/2011 12:25	James L Mertz	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11360049531B	12/27/2011 00:34	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11354820005B	12/20/2011 20:46	Scott W Freisher	1

Sample Description: POM-E-WR15.2B(0.0-0.5)-MS Matrix Spike Sediment
Sample
WANAQUE RIVER SED PH IIII

LLI Sample # SW 6503434
LLI Group # 1281637
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 12:25 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 12/28/2011 14:51

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

152B- SDG#: POM02-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 0.510	mg/kg 0.0085	mg/kg 0.121	1
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 5,270	mg/kg 128	mg/kg 385	1
Wet Chemistry						
00118	Moisture	SM20 2540 G n.a.	% 22.1	% 0.50	% 0.50	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113535711003	12/20/2011 18:03	Nelli S Markaryan	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113535711003	12/20/2011 12:25	James L Mertz	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11360049531B	12/27/2011 00:42	James S Mathiot	1
00118	Moisture	SM20 2540 G	1	11354820005B	12/20/2011 20:46	Scott W Freisher	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 1

Sample Description: POM-E-WR15.2B(0.0-0.5)-MSD Matrix Spike Dup
Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503435
LLI Group # 1281637
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 12:25 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 12/28/2011 14:51

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

152B- SDG#: POM02-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 2.02	mg/kg 0.0443	mg/kg 0.630	5
Wet Chemistry						
00118	Moisture	SM20 2540 G n.a.	% 22.1	% 0.50	% 0.50	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113535711003	12/20/2011 18:33	Nelli S Markaryan	5
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113535711003	12/20/2011 12:25	James L Mertz	1
00118	Moisture	SM20 2540 G	1	11354820005B	12/20/2011 20:46	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: POM-E-WR15.2B(0.0-0.5) Duplicate Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503436
LLI Group # 1281637
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 12:25 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 12/28/2011 14:51

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

152B- SDG#: POM02-06DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 0.195	mg/kg 0.0085	mg/kg 0.121	1
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg N.D.	mg/kg 128	mg/kg 385	1
Wet Chemistry						
00118	Moisture	SM20 2540 G n.a.	% 22.1	% 0.50	% 0.50	1
00121	Moisture Duplicate	n.a.	21.6	0.50	0.50	1
The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113535711003	12/20/2011 18:02	Nelli S Markaryan	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113535711003	12/20/2011 12:25	James L Mertz	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11360049531B	12/27/2011 00:54	James S Mathiot	1
00118	Moisture	SM20 2540 G	1	11354820005B	12/20/2011 20:46	Scott W Freisher	1
00121	Moisture Duplicate	SM20 2540 G	1	11354820005B	12/20/2011 20:46	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: POM-E-WR15A(0.0-0.5) -DUP Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503437
LLI Group # 1281637
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 11:30 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 12/28/2011 14:51

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

15A-- SDG#: POM02-07FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 7.05	mg/kg 0.127	mg/kg 1.80	10
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 25,800	mg/kg 671	mg/kg 2,010	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 46.8	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113535711003	12/20/2011 18:34	Nelli S Markaryan	10
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113535711003	12/20/2011 12:25	James L Mertz	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11360049531B	12/27/2011 01:04	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11354820005B	12/20/2011 20:46	Scott W Freisher	1

Sample Description: POM-E-WR15.2C(0.0-0.5) Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503438
LLI Group # 1281637
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 12:40 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 12/28/2011 14:51

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

152C- SDG#: POM02-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 12.4	mg/kg 0.238	mg/kg 3.39	20
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 14,000	mg/kg 760	mg/kg 2,280	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 44.6	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113535711003	12/20/2011 18:36	Nelli S Markaryan	20
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113535711003	12/20/2011 12:25	James L Mertz	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11360049531B	12/27/2011 01:11	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11354820005B	12/20/2011 20:46	Scott W Freisher	1



Analysis Report

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Page 1 of 1

Sample Description: POM-E-WR18D(14-18) Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503439
LLI Group # 1281637
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 13:45 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 12/28/2011 14:51

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

18D14 SDG#: POM02-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 27.5	mg/kg 0.790	mg/kg 11.2	50
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 55.9	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113535711003	12/20/2011 18:37	Nelli S Markaryan	50
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113535711003	12/20/2011 12:25	James L Mertz	1
00111	Moisture	SM20 2540 G	1	11354820005B	12/20/2011 20:46	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: POM-E-WR18D(0.0-0.5) Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503440
LLI Group # 1281637
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 13:45 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 12/28/2011 14:51

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

18D00 SDG#: POM02-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 9.75	mg/kg 0.151	mg/kg 2.15	10
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 19,400	mg/kg 1,890	mg/kg 5,670	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 54.9	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113535711003	12/20/2011 18:40	Nelli S Markaryan	10
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113535711003	12/20/2011 12:25	James L Mertz	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11360049531B	12/27/2011 01:39	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11354820005B	12/20/2011 20:46	Scott W Freisher	1

Sample Description: POM-E-WR15.4A-B(0.0-0.5) Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503441
LLI Group # 1281637
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 14:30 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 12/28/2011 14:51

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

154C- SDG#: POM02-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 4.22	mg/kg 0.0859	mg/kg 1.22	10
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 4,720	mg/kg 419	mg/kg 1,260	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 23.1	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113535711003	12/20/2011 18:41	Nelli S Markaryan	10
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113535711003	12/20/2011 12:25	James L Mertz	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11360049531B	12/27/2011 01:46	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11354820005B	12/20/2011 20:46	Scott W Freisher	1

Sample Description: POM-E-WR15.4C(0.0-0.5) Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503442
LLI Group # 1281637
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 14:40 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 12/28/2011 14:51

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

15AB- SDG#: POM02-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 16.7	mg/kg 0.486	mg/kg 6.91	50
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 8,430	mg/kg 610	mg/kg 1,830	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 32.6	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	113535711003	12/20/2011 18:43	Nelli S Markaryan	50
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113535711003	12/20/2011 12:25	James L Mertz	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	11360049531B	12/27/2011 02:01	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	11354820005B	12/20/2011 20:46	Scott W Freisher	1

Sample Description: POM-K-FBLK-2 Blank Water Sample
WANAQUE RIVER SED PH III

LLI Sample # WW 6503443
LLI Group # 1281637
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/16/2011 08:00 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 12/28/2011 14:51

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

FBK1- SDG#: POM02-13FB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
00259	Mercury	SW-846 7470A 7439-97-6	mg/l N.D.	mg/l 0.000026	mg/l 0.00020	1
Wet Chemistry						
00273	Total Organic Carbon	SM20 5310 C n.a.	mg/l N.D.	mg/l 0.50	mg/l 1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	113535713003	12/20/2011 08:06	Damary Valentin	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	113535713003	12/19/2011 15:06	Nelli S Markaryan	1
00273	Total Organic Carbon	SM20 5310 C	1	11355237301A	12/20/2011 21:30	Joseph E McKenzie	1

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 12/28/11 at 02:51 PM

Group Number: 1281637

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 113535711003 Mercury	Sample number(s): 6503428-6503442 N.D.	0.0066	0.0933	mg/kg	93		83-119		
Batch number: 113535713003 Mercury	Sample number(s): 6503443 0.000027 J	0.00002 6	0.00020	mg/l	100		80-120		
Batch number: 11355237301A Total Organic Carbon	Sample number(s): 6503443 N.D.	0.50	1.0	mg/l	101	100	91-113	1	20
Batch number: 11360049531A Total Organic Carbon	Sample number(s): 6503428-6503431 N.D.	100.	300	mg/kg	102		22-139		
Batch number: 11360049531B Total Organic Carbon	Sample number(s): 6503432-6503434, 6503436-6503438, 6503440-6503442 N.D.	100.	300	mg/kg	102		22-139		
Batch number: 11354820005B Moisture	Sample number(s): 6503428-6503442				100		99-101		
Moisture					100		99-101		
Moisture Duplicate					100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 113535711003 Mercury	Sample number(s): 6503428-6503442 132*	844*	80-120	119*	20	0.190	0.152	22* (1)	20
Batch number: 113535713003 Mercury	Sample number(s): 6503443 94	93	80-120	1	20	0.000028 J	0.000027 J	4 (1)	20
Batch number: 11360049531A Total Organic Carbon	Sample number(s): 6503428-6503431 37		24-149			38,900	40,700	5	15
Batch number: 11360049531B Total Organic Carbon	Sample number(s): 6503432-6503434, 6503436-6503438, 6503440-6503442 137		24-149			N.D.	N.D.	0 (1)	15
Batch number: 11354820005B	Sample number(s): 6503428-6503442					BKG: 6503433			

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 12/28/11 at 02:51 PM

Group Number: 1281637

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Moisture						22.1	21.6	2	15
Moisture						22.1	21.6	2	15
Moisture Duplicate						22.1	21.6	2	15

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

For Lancaster Laboratories Use Only

For Lancaster Laboratories Use Only

Group No.: 1281637 Sample Nos.: 6503428-43

Acc't: 07032 SCR No.: 114544 Cooler No.: C16003 **21488**

Cooler Temperature upon receipt: 2.8 °C Container No.: 1

Acc't: 07032

SCR No.: 114544

Cooler No. 5

21488

Cooler Temperature upon receipt:

7.8 °C

Container No. :

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

For Lancaster Laboratories Use Only

Group No.: 1281637

Sample Nos.: 6503428-43

Acc't: 07032

SCR No.: 114544

Cooler No. 1

21495

Cooler Temperature upon receipt:

00

Container No. 7

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Environmental Sample Administration Receipt Documentation Log

Client/Project: Dupont
 Date of Receipt: 12.12.11
 Time of Receipt: 945
 Source Code: 50-1

Shipping Container Sealed: YES NO

Custody Seal Present * : YES NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	2783	2.8	TB	WI	Y	LB	
2	↓	0.9	↓	↓	↓	↓	
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Branchy Barclay 2299 Date/Time: 12.12.11 10:17

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

January 06, 2012

Project: POM - WANAQUE RIVER SEDIMENT

Submittal Date: 12/17/2011

Group Number: 1281647

SDG: POM03

PO Number: LBIO-66380

Release Number: LA33960

State of Sample Origin: NJ

Client Sample DescriptionPOM-E-WR14C(0.0-0.5) Sediment
POM-E-WR14B(0.0-0.5) Sediment
POM-E-WR15A(0.0-0.5) Sediment
POM-E-WR15B(0.0-0.5) Sediment
POM-E-WR15.2A(0.0-0.5) Sediment
POM-E-WR15.2B(0.0-0.5) Sediment
POM-E-WR15.2C(0.0-0.5) Sediment
POM-E-WR15A(0.0-0.5)-DUP Sediment
POM-E-WR18D(0.0-0.5) Sediment
POM-E-WR15.4A-B(0.0-0.5) Sediment
POM-E-WR15.4C(0.0-0.5) SedimentLancaster Labs (LLI) #6503513
6503514
6503515
6503516
6503517
6503518
6503519
6503520
6503521
6503522
6503523

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC

LLI

Attn: EDD Group

COPY TO

1 COPY TO

Data Package Group

Questions? Contact your Client Services Representative
Nancy J Bornholm at (717) 656-2300 Ext. 1310

Respectfully Submitted,

Kenneth A Bell
Kenneth A. Bell
Group Leader

Sample Description: POM-E-WR14C(0.0-0.5) Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503513
LLI Group # 1281647
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 10:00 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 01/06/2012 14:32

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

14C-G SDG#: POM03-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	97.6	0.50	1.0	1
07103	3.35 mm	n.a.	97.4	0.50	1.0	1
07103	2.36 mm	n.a.	97.1	0.50	1.0	1
07103	1.18 mm	n.a.	96.1	0.50	1.0	1
07103	0.6 mm	n.a.	93.9	0.50	1.0	1
07103	0.3 mm	n.a.	86.7	0.50	1.0	1
07103	0.15 mm	n.a.	58.2	0.50	1.0	1
07103	0.075 mm	n.a.	34.3	0.50	1.0	1
07103	0.064 mm	n.a.	31.0	0.50	1.0	1
07103	0.05 mm	n.a.	25.5	0.50	1.0	1
07103	0.02 mm	n.a.	16.0	0.50	1.0	1
07103	0.005 mm	n.a.	6.0	0.50	1.0	1
07103	0.002 mm	n.a.	2.0	0.50	1.0	1
07103	0.001 mm	n.a.	1.0	0.50	1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	11354710301A	12/20/2011 13:30	Luz M Groff	1

Sample Description: POM-E-WR14B(0.0-0.5) Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503514
LLI Group # 1281647
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 10:20 by BA

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 12/17/2011 09:45

Reported: 01/06/2012 14:32

14B-G SDG#: POM03-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	98.1	0.50	1.0	1
07103	4.75 mm	n.a.	77.8	0.50	1.0	1
07103	3.35 mm	n.a.	47.9	0.50	1.0	1
07103	2.36 mm	n.a.	28.9	0.50	1.0	1
07103	1.18 mm	n.a.	15.8	0.50	1.0	1
07103	0.6 mm	n.a.	2.9	0.50	1.0	1
07103	0.3 mm	n.a.	N.D.	0.50	1.0	1
07103	0.15 mm	n.a.	N.D.	0.50	1.0	1
07103	0.075 mm	n.a.	N.D.	0.50	1.0	1
07103	0.064 mm	n.a.	N.D.	0.50	1.0	1
07103	0.05 mm	n.a.	0.50 J	0.50	1.0	1
07103	0.02 mm	n.a.	0.50 J	0.50	1.0	1
07103	0.005 mm	n.a.	N.D.	0.50	1.0	1
07103	0.002 mm	n.a.	N.D.	0.50	1.0	1
07103	0.001 mm	n.a.	N.D.	0.50	1.0	1

The grain size percent passing results are anomalous for particle sizes 0.064 mm, 0.05 mm and 0.02 mm due to matrix interference.

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	11354710301A	12/20/2011 13:30	Luz M Groff	1

Sample Description: POM-E-WR15A(0.0-0.5) Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503515
LLI Group # 1281647
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 11:30 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 01/06/2012 14:32

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

15A-G SDG#: POM03-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	100	0.50	1.0	1
07103	3.35 mm	n.a.	99.8	0.50	1.0	1
07103	2.36 mm	n.a.	99.7	0.50	1.0	1
07103	1.18 mm	n.a.	99.5	0.50	1.0	1
07103	0.6 mm	n.a.	97.1	0.50	1.0	1
07103	0.3 mm	n.a.	79.9	0.50	1.0	1
07103	0.15 mm	n.a.	41.3	0.50	1.0	1
07103	0.075 mm	n.a.	20.4	0.50	1.0	1
07103	0.064 mm	n.a.	17.0	0.50	1.0	1
07103	0.05 mm	n.a.	13.0	0.50	1.0	1
07103	0.02 mm	n.a.	8.0	0.50	1.0	1
07103	0.005 mm	n.a.	2.5	0.50	1.0	1
07103	0.002 mm	n.a.	0.50 J	0.50	1.0	1
07103	0.001 mm	n.a.	N.D.	0.50	1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	11354710301A	12/20/2011 13:30	Luz M Groff	1

Sample Description: POM-E-WR15B(0.0-0.5) Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503516
LLI Group # 1281647
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 11:20 by BA

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 12/17/2011 09:45

Reported: 01/06/2012 14:32

15B-G SDG#: POM03-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	98.1	0.50	1.0	1
07103	3.35 mm	n.a.	93.9	0.50	1.0	1
07103	2.36 mm	n.a.	81.9	0.50	1.0	1
07103	1.18 mm	n.a.	43.2	0.50	1.0	1
07103	0.6 mm	n.a.	6.0	0.50	1.0	1
07103	0.3 mm	n.a.	0.75 J	0.50	1.0	1
07103	0.15 mm	n.a.	N.D.	0.50	1.0	1
07103	0.075 mm	n.a.	N.D.	0.50	1.0	1
07103	0.064 mm	n.a.	N.D.	0.50	1.0	1
07103	0.05 mm	n.a.	1.0	0.50	1.0	1
07103	0.02 mm	n.a.	1.5	0.50	1.0	1
07103	0.005 mm	n.a.	N.D.	0.50	1.0	1
07103	0.002 mm	n.a.	N.D.	0.50	1.0	1
07103	0.001 mm	n.a.	N.D.	0.50	1.0	1

The grain size percent passing results are anomalous for particle sizes 0.064 mm, 0.05 mm and 0.02 mm due to matrix interference.

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	11354710301A	12/20/2011 13:30	Luz M Groff	1

Sample Description: POM-E-WR15.2A(0.0-0.5) Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503517
LLI Group # 1281647
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 12:15 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 01/06/2012 14:32

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

152AG SDG#: POM03-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	99.9	0.50	1.0	1
07103	3.35 mm	n.a.	99.8	0.50	1.0	1
07103	2.36 mm	n.a.	99.6	0.50	1.0	1
07103	1.18 mm	n.a.	99.2	0.50	1.0	1
07103	0.6 mm	n.a.	97.0	0.50	1.0	1
07103	0.3 mm	n.a.	89.2	0.50	1.0	1
07103	0.15 mm	n.a.	60.3	0.50	1.0	1
07103	0.075 mm	n.a.	36.7	0.50	1.0	1
07103	0.064 mm	n.a.	33.0	0.50	1.0	1
07103	0.05 mm	n.a.	25.0	0.50	1.0	1
07103	0.02 mm	n.a.	16.0	0.50	1.0	1
07103	0.005 mm	n.a.	4.0	0.50	1.0	1
07103	0.002 mm	n.a.	2.5	0.50	1.0	1
07103	0.001 mm	n.a.	1.0	0.50	1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	11354710301A	12/20/2011 13:30	Luz M Groff	1

Sample Description: POM-E-WR15.2B(0.0-0.5) Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503518
LLI Group # 1281647
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 12:25 by BA

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 12/17/2011 09:45

Reported: 01/06/2012 14:32

152BG SDG#: POM03-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	93.7	0.50	1.0	1
07103	3.35 mm	n.a.	87.2	0.50	1.0	1
07103	2.36 mm	n.a.	75.4	0.50	1.0	1
07103	1.18 mm	n.a.	24.7	0.50	1.0	1
07103	0.6 mm	n.a.	2.1	0.50	1.0	1
07103	0.3 mm	n.a.	N.D.	0.50	1.0	1
07103	0.15 mm	n.a.	N.D.	0.50	1.0	1
07103	0.075 mm	n.a.	N.D.	0.50	1.0	1
07103	0.064 mm	n.a.	N.D.	0.50	1.0	1
07103	0.05 mm	n.a.	0.50 J	0.50	1.0	1
07103	0.02 mm	n.a.	1.0	0.50	1.0	1
07103	0.005 mm	n.a.	N.D.	0.50	1.0	1
07103	0.002 mm	n.a.	N.D.	0.50	1.0	1
07103	0.001 mm	n.a.	N.D.	0.50	1.0	1

The grain size percent passing results are anomalous for particle sizes 0.064 mm, 0.05 mm and 0.02 mm due to matrix interference.

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	11354710301A	12/20/2011 13:30	Luz M Groff	1

Sample Description: POM-E-WR15.2C(0.0-0.5) Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503519
LLI Group # 1281647
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 12:40 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 01/06/2012 14:32

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

152CG SDG#: POM03-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	99.8	0.50	1.0	1
07103	3.35 mm	n.a.	99.7	0.50	1.0	1
07103	2.36 mm	n.a.	99.6	0.50	1.0	1
07103	1.18 mm	n.a.	99.3	0.50	1.0	1
07103	0.6 mm	n.a.	96.1	0.50	1.0	1
07103	0.3 mm	n.a.	53.9	0.50	1.0	1
07103	0.15 mm	n.a.	24.2	0.50	1.0	1
07103	0.075 mm	n.a.	14.3	0.50	1.0	1
07103	0.064 mm	n.a.	13.0	0.50	1.0	1
07103	0.05 mm	n.a.	10.5	0.50	1.0	1
07103	0.02 mm	n.a.	7.0	0.50	1.0	1
07103	0.005 mm	n.a.	2.0	0.50	1.0	1
07103	0.002 mm	n.a.	2.0	0.50	1.0	1
07103	0.001 mm	n.a.	2.0	0.50	1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	11354710301A	12/20/2011 13:30	Luz M Groff	1

Sample Description: POM-E-WR15A(0.0-0.5)-DUP Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503520
LLI Group # 1281647
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 11:30 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 01/06/2012 14:32

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

FD15G SDG#: POM03-08FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	100	0.50	1.0	1
07103	3.35 mm	n.a.	99.8	0.50	1.0	1
07103	2.36 mm	n.a.	99.5	0.50	1.0	1
07103	1.18 mm	n.a.	99.3	0.50	1.0	1
07103	0.6 mm	n.a.	96.2	0.50	1.0	1
07103	0.3 mm	n.a.	75.6	0.50	1.0	1
07103	0.15 mm	n.a.	38.9	0.50	1.0	1
07103	0.075 mm	n.a.	20.2	0.50	1.0	1
07103	0.064 mm	n.a.	17.0	0.50	1.0	1
07103	0.05 mm	n.a.	13.0	0.50	1.0	1
07103	0.02 mm	n.a.	8.0	0.50	1.0	1
07103	0.005 mm	n.a.	3.0	0.50	1.0	1
07103	0.002 mm	n.a.	0.50 J	0.50	1.0	1
07103	0.001 mm	n.a.	N.D.	0.50	1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	11354710301A	12/20/2011 13:30	Luz M Groff	1

Sample Description: POM-E-WR18D(0.0-0.5) Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503521
LLI Group # 1281647
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 13:45 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 01/06/2012 14:32

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

18D-G SDG#: POM03-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	99.5	0.50	1.0	1
07103	3.35 mm	n.a.	99.0	0.50	1.0	1
07103	2.36 mm	n.a.	98.5	0.50	1.0	1
07103	1.18 mm	n.a.	98.2	0.50	1.0	1
07103	0.6 mm	n.a.	88.4	0.50	1.0	1
07103	0.3 mm	n.a.	80.7	0.50	1.0	1
07103	0.15 mm	n.a.	74.8	0.50	1.0	1
07103	0.075 mm	n.a.	69.5	0.50	1.0	1
07103	0.064 mm	n.a.	67.0	0.50	1.0	1
07103	0.05 mm	n.a.	61.0	0.50	1.0	1
07103	0.02 mm	n.a.	48.0	0.50	1.0	1
07103	0.005 mm	n.a.	27.0	0.50	1.0	1
07103	0.002 mm	n.a.	17.0	0.50	1.0	1
07103	0.001 mm	n.a.	10.0	0.50	1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	11354710301A	12/20/2011 13:30	Luz M Groff	1

Sample Description: POM-E-WR15.4A-B(0.0-0.5) Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503522
LLI Group # 1281647
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 14:30 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 01/06/2012 14:32

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

154AG SDG#: POM03-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	93.9	0.50	1.0	1
07103	4.75 mm	n.a.	58.1	0.50	1.0	1
07103	3.35 mm	n.a.	48.3	0.50	1.0	1
07103	2.36 mm	n.a.	41.6	0.50	1.0	1
07103	1.18 mm	n.a.	25.4	0.50	1.0	1
07103	0.6 mm	n.a.	13.4	0.50	1.0	1
07103	0.3 mm	n.a.	6.6	0.50	1.0	1
07103	0.15 mm	n.a.	5.6	0.50	1.0	1
07103	0.075 mm	n.a.	5.4	0.50	1.0	1
07103	0.064 mm	n.a.	5.0	0.50	1.0	1
07103	0.05 mm	n.a.	5.0	0.50	1.0	1
07103	0.02 mm	n.a.	4.0	0.50	1.0	1
07103	0.005 mm	n.a.	1.0	0.50	1.0	1
07103	0.002 mm	n.a.	N.D.	0.50	1.0	1
07103	0.001 mm	n.a.	N.D.	0.50	1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	11354710301A	12/20/2011 13:30	Luz M Groff	1

Sample Description: POM-E-WR15.4C(0.0-0.5) Sediment
WANAQUE RIVER SED PH III

LLI Sample # SW 6503523
LLI Group # 1281647
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 12/15/2011 14:40 by BA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/17/2011 09:45

URS Corporation

Reported: 01/06/2012 14:32

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

154CG SDG#: POM03-11*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	1.0	1
07103	37.5 mm	n.a.	100	0.50	1.0	1
07103	19 mm	n.a.	100	0.50	1.0	1
07103	4.75 mm	n.a.	97.7	0.50	1.0	1
07103	3.35 mm	n.a.	95.4	0.50	1.0	1
07103	2.36 mm	n.a.	93.8	0.50	1.0	1
07103	1.18 mm	n.a.	90.9	0.50	1.0	1
07103	0.6 mm	n.a.	88.2	0.50	1.0	1
07103	0.3 mm	n.a.	71.8	0.50	1.0	1
07103	0.15 mm	n.a.	29.5	0.50	1.0	1
07103	0.075 mm	n.a.	14.7	0.50	1.0	1
07103	0.064 mm	n.a.	12.0	0.50	1.0	1
07103	0.05 mm	n.a.	8.5	0.50	1.0	1
07103	0.02 mm	n.a.	4.0	0.50	1.0	1
07103	0.005 mm	n.a.	0.50 J	0.50	1.0	1
07103	0.002 mm	n.a.	N.D.	0.50	1.0	1
07103	0.001 mm	n.a.	N.D.	0.50	1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	11354710301A	12/20/2011 13:30	Luz M Groff	1

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 01/06/12 at 02:32 PM

Group Number: 1281647

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

For Lancaster Laboratories Use Only

Group No.: 1281647 Sample Nos.: 6503513-23

Acc't: 07032

SCR No: 114544

Cooler No.: _____

21493

Cooler Temperature upon receipt:

 $^{\circ}\text{C}$

Container No.:

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

For Lancaster Laboratories Use Only

Group No.: 1281647

Sample Nos.: 6503513-23

Acc't: 07032

SCR No.: 114544

Cooler No.:

Cooler Temperature upon receipt:

°C

Container No.: 2

21492

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

For Lancaster Laboratories Use Only

Group No.: 1281647

Sample Nos.: 6503513-23

Acc't: 07032

SCR No.: 114544

Cooler No. 3

21490

Cooler Temperature upon receipt:

°C

Container No: 2

1000

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Environmental Sample Administration Receipt Documentation Log

Client/Project: Dupont
 Date of Receipt: 12.17.11
 Time of Receipt: 945
 Source Code: 50-1

Shipping Container Sealed: YES NO

Custody Seal Present * : YES NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	2783	2.8	TB	WI	Y	LeB	
2	↓	0.9	↓	↓	↓	↓	
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody. 0

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Branchy Buckley 2299 Date/Time: 12.17.11 10:17

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ADQM DATA REVIEW NARRATIVE

Site **Pompton Lakes Works - POM**

Project **Wanaque Sediment and Pore Water 8/12**

Project Reviewer **Candia Carle**

Sampling Date **August 6 - 9, 2012**

Analytical Protocol

<u>Laboratory</u>	<u>Analytical Method</u>	<u>Parameter(s)</u>
Brooks Rand	1630	Methyl mercury, dissolved
Brooks Rand	1631	Mercury, low level, dissolved
Lancaster	7470A/7471A	Mercury
Lancaster	5310C/Lloyd Khan	TOC
Lancaster	D422	Grain Size
Lancaster	2540G	Moisture

Sample Receipt

The following items are noted for this data set:

- All sediment samples were received in satisfactory condition and within EPA temperature guidelines at Lancaster Laboratories on August 7 and 9, 2012. All pore water samples were received in satisfactory condition and within EPA temperature guidelines at Brooks Rand Lab on August 8-9, 2012.
- The pore water samples requiring dissolved metals were field filtered at the time of collection and preserved at the laboratory.
- There were discrepancies between the bottle label and the chain. The lab logged per the chain.
- Not all line-outs on the chains were both initialed and dated.

Sample Information

- Sample POM-E-WR-21B(0.0-0.5) did not have sufficient volume to run the Grain Size analyses. Grain size is not available for this sample point.

Data Review

The electronic data submitted for this project was reviewed via the automated DuPont Data Review (DDR) process. Overall the data is acceptable for use without qualification, except as noted below:

- Some of the analytical results have been qualified in the database. See the DuPont Data Review (DDR) Narrative Report for which samples were qualified, the specific reasons for qualification, and potential bias in reported results.
- The MS/MSD samples used for QA/QC at Brooks Rand were not project specific samples.

The following are findings not evaluated by the DDR and therefore not in the DDR Narrative report.

- A field duplicate pair of solid samples was collected for this project. Sample WR-15.3A(0.0-0.5) and its field duplicate were analyzed by Lancaster for the parameters listed in the above table. Acceptable precision (relative percent difference (RPD) <50% or Difference within +/- 2x Practical Quantitation Limit (PQL)) was observed between the pair with the following exceptions. High relative percent differences (RPDs) > 50% were observed for mercury. Therefore the positive results for mercury in this sample and its field duplicate are considered estimated. The affected data **has not** been “J” qualified in the database. Affected data include the following:

<u>Analysis</u>	<u>Parent Sample ID</u>	<u>Duplicate ID</u>	<u>Parent Conc</u>	<u>Dup Conc</u>	<u>RPD</u>
Mercury	WR-15.3A(0.0-0.5)	WR-15.3A(0.0-0.5)-DUP	35600	11400	103

- A field duplicate pair of aqueous matrix samples was collected for this project. Sample WR-15.4C and its field duplicate were analyzed by Brooks Rand for the parameters listed in the above table. Acceptable precision (relative percent difference (RPD) <30% or Difference within +/- 2x Practical Quantitation Limit (PQL)) was observed between each pair with the following exceptions. High relative percent differences (RPDs) > 30% were observed for methyl mercury and low-level mercury. Therefore the positive results in this sample and its field duplicate are considered estimated. The affected data **has not** been “J” qualified in the database. Affected data include the following:

<u>Analysis</u>	<u>Parent Sample ID</u>	<u>Duplicate ID</u>	<u>Parent Conc</u>	<u>Dup Conc</u>	<u>RPD</u>
MeHg	WR-15.4C-DIS	WR-15.4C-DIS-DUP	0.000592	0.000415	35
LL Hg	WR-15.4C-DIS	WR-15.4C-DIS-DUP	0.00966	0.0236	84

- The DDR does not qualify blank outliers for the low level mercury methods. There was low level mercury contamination in the equipment blanks. Affected data was manually qualified with a “B” flag; these outliers do not appear on the DDR narrative report.

Attachments

The DDR narrative report, Laboratory Analysis Summary report, Field data report and the Lancaster Labs summary level report are attached. The full deliverable provided by the lab, due to the large file size, is not attached but stored on the server in the project folder and is available upon request.

DuPont In-House Review (DDR)

The DDR is an automated internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the DuPont CRG Envista database and run through an automated program where a series of checks are performed on the data. The data is evaluated against hold time criteria; checked for blank contamination; assessed against matrix spike(MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes; laboratory control sample(LCS)/control sample duplicate (LCSD) recoveries and the RPDs between these spikes; assessed against RPDs between laboratory replicates (inorganics); and assessed against surrogate spike recoveries (organics). The DDR applies the following data evaluation qualifiers to analysis results, as warranted:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

Please refer to the laboratory report for a description of the lab qualifiers.

Corporate Environmental Database
DDR Narrative Report

Site: POM - POMPTON LAKES WORKS

Project: WANAQUE SED & PORE WATER 8/12

Reporting Limit: MDL

DDR Standards LABSTATS

9/7/2012 15:36:05

Page 1 of 1

The reported result is greater than/equal to the MDL and less than the PQL; it should be considered an estimated value.

Sample ID	Date Sampled	Lab ID	Analyte	Result	Units	MDL	PQL	Qual	Analytical Methods		
									Analysis	Preprep-	Prep-
POM-K-EQBLK-1	8/6/2012	6746273-HG EB	MERCURY	0.000085	MG/L	0.0000C	0.0002C	J	7470A		METHOD
POM-K-EQBLK-2	8/8/2012	6750114-HG EB	MERCURY	0.000088	MG/L	0.0000C	0.0002C	J	7470A		METHOD
POM-K-EQBLK-3	8/9/2012	6750115-HG EB	MERCURY	0.00011	MG/L	0.0000C	0.0002C	J	7470A		METHOD
POM-Z-WR-08.1B-DIS	8/7/2012	1232018-04-1 FS	MONOMETHYL MERCURY	0.038	NG/L	0.024	0.06	J	EPA 1630		METHOD
POM-Z-WR-08-DIS	8/7/2012	1232018-03-1 FS	MONOMETHYL MERCURY	0.048	NG/L	0.024	0.06	J	EPA 1630		METHOD
POM-Z-WR-15.4AB-DIS	8/7/2012	1232018-14-1 FS	MONOMETHYL MERCURY	0.055	NG/L	0.024	0.06	J	EPA 1630		METHOD

**Corporate Environmental Database
Summary of Positive Results
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:19

Project: WANAQUE SED & PORE WATER 8/12

Page 1 of 9

Reporting Limit: MDL

Analyte/Parameter	Result	Qualifiers		Unit	Detection Limit		Analytical Methods		
		LAB	DDR		MDL	PQL	Analysis	Preprep-	Prep-
Sampling Point: WR-07 Date sampled: Aug 07, 2012		Sampleno:		POM-Z-WR-07-DIS					
		Sample type:		Other liquid					
MERCURY	0.96		B	NG/L	0.16	0.42	EPA 1631		METHOD
Sampling Point: WR-20 Date sampled: Aug 08, 2012		Sampleno:		POM-Z-WR-20-DIS					
		Sample type:		Other liquid					
MERCURY	1.08		B	NG/L	0.23	0.61	EPA 1631		METHOD
Sampling Point: EQBLK-1 Date sampled: Aug 06, 2012		Sampleno:		POM-K-EQBLK-1					
		Sample type:		Blank Water					
MERCURY	0.000085	J	J	MG/L	0.0000C	0.0002C	7470A		METHOD
Sampling Point: EQBLK-1 Date sampled: Aug 07, 2012		Sampleno:		POM-K-EQBLK-1					
		Sample type:		Blank Water					
MERCURY	2.37			NG/L	0.15	0.41	EPA 1631		METHOD
Sampling Point: EQBLK-2 Date sampled: Aug 08, 2012		Sampleno:		POM-K-EQBLK-2					
		Sample type:		Blank Water					
MERCURY	1.23			NG/L	0.15	0.4	EPA 1631		METHOD
Sampling Point: EQBLK-2 Date sampled: Aug 08, 2012		Sampleno:		POM-K-EQBLK-2					
		Sample type:		Blank Water					
MERCURY	0.000088	J	J	MG/L	0.0000C	0.0002C	7470A		METHOD
Sampling Point: EQBLK-3 Date sampled: Aug 09, 2012		Sampleno:		POM-K-EQBLK-3					
		Sample type:		Blank Water					
MERCURY	0.00011	J	J	MG/L	0.0000C	0.0002C	7470A		METHOD
Sampling Point: WR-07.1B Date sampled: Aug 07, 2012		Sampleno:		POM-Z-WR-07.1B-DIS					
		Sample type:		Other liquid					
MERCURY	1.29		B	NG/L	0.15	0.4	EPA 1631		METHOD
Sampling Point: WR-08 Date sampled: Aug 07, 2012		Sampleno:		POM-Z-WR-08-DIS					
		Sample type:		Other liquid					
MERCURY	1.49		B	NG/L	0.16	0.42	EPA 1631		METHOD
MONOMETHYL MERCURY	0.048	B	J	NG/L	0.024	0.06	EPA 1630		METHOD
Sampling Point: WR-14 Date sampled: Aug 07, 2012		Sampleno:		POM-Z-WR-14-DIS					
		Sample type:		Other liquid					
MERCURY	21.4		B	NG/L	0.75	1.99	EPA 1631		METHOD

Corporate Environmental Database
Summary of Positive Results
with Laboratory and DDR Qualifiers

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:19

Project: WANAQUE SED & PORE WATER 8/12

Page 2 of 9

Reporting Limit: MDL

Analyte/Parameter	Result	Qualifiers		Unit	Detection Limit		Analytical Methods		
		LAB	DDR		MDL	PQL	Analysis	Preprep-	Prep-
Sampling Point: WR-14 Date sampled: Aug 07, 2012		Sample no:		POM-Z-WR-14-DIS					
		Sample type:		Other liquid					
MONOMETHYL MERCURY	1.15			NG/L	0.023	0.058	EPA 1630		METHOD
Sampling Point: WR-19 Date sampled: Aug 08, 2012		Sample no:		POM-Z-WR-19-DIS					
		Sample type:		Other liquid					
MERCURY	44.5			NG/L	1.52	4.04	EPA 1631		METHOD
MONOMETHYL MERCURY	9.22			NG/L	0.023	0.058	EPA 1630		METHOD
Sampling Point: WR-14B Date sampled: Aug 07, 2012		Sample no:		POM-Z-WR-14B-DIS					
		Sample type:		Other liquid					
MERCURY	5570			NG/L	15.2	40.4	EPA 1631		METHOD
MONOMETHYL MERCURY	0.427			NG/L	0.023	0.057	EPA 1630		METHOD
Sampling Point: WR-14C Date sampled: Aug 07, 2012		Sample no:		POM-Z-WR-14C-DIS					
		Sample type:		Other liquid					
MERCURY	272			NG/L	15.2	40.4	EPA 1631		METHOD
MONOMETHYL MERCURY	0.387			NG/L	0.023	0.058	EPA 1630		METHOD
Sampling Point: WR-19C Date sampled: Aug 08, 2012		Sample no:		POM-Z-WR-19C-DIS					
		Sample type:		Other liquid					
MERCURY	7.05	B		NG/L	0.28	0.75	EPA 1631		METHOD
MONOMETHYL MERCURY	1.85			NG/L	0.023	0.057	EPA 1630		METHOD
Sampling Point: WR-21B Date sampled: Aug 08, 2012		Sample no:		POM-Z-WR-21B-DIS					
		Sample type:		Other liquid					
MERCURY	2.38	B		NG/L	0.24	0.63	EPA 1631		METHOD
MONOMETHYL MERCURY	0.13			NG/L	0.024	0.06	EPA 1630		METHOD
Sampling Point: WR-21C Date sampled: Aug 08, 2012		Sample no:		POM-Z-WR-21C-DIS					
		Sample type:		Other liquid					
MERCURY	1.4	B		NG/L	0.23	0.61	EPA 1631		METHOD
MONOMETHYL MERCURY	0.197			NG/L	0.024	0.059	EPA 1630		METHOD
Sampling Point: WR-22C Date sampled: Aug 08, 2012		Sample no:		POM-Z-WR-22C-DIS					
		Sample type:		Other liquid					
MERCURY	25.9			NG/L	0.26	0.7	EPA 1631		METHOD
MONOMETHYL MERCURY	0.749			NG/L	0.022	0.055	EPA 1630		METHOD
Sampling Point: WR-08.1B Date sampled: Aug 07, 2012		Sample no:		POM-Z-WR-08.1B-DIS					
		Sample type:		Other liquid					
MERCURY	2.64	B	B	NG/L	0.16	0.43	EPA 1631		METHOD
MONOMETHYL MERCURY	0.038	B	J	NG/L	0.024	0.06	EPA 1630		METHOD

Corporate Environmental Database
Summary of Positive Results
with Laboratory and DDR Qualifiers

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:19

Project: WANAQUE SED & PORE WATER 8/12

Page 3 of 9

Reporting Limit: MDL

Analyte/Parameter	Result	Qualifiers		Unit	Detection Limit		Analytical Methods		
		LAB	DDR		MDL	PQL	Analysis	Preprep-	Prep-
Sampling Point: WR-13.1C Date sampled: Aug 07, 2012				Sampleno: POM-Z-WR-13.1C-DIS Sample type: Other liquid					
MERCURY MONOMETHYL MERCURY	9.75 0.425		B	NG/L NG/L	0.31 0.027	0.81 0.067	EPA 1631 EPA 1630		METHOD METHOD
Sampling Point: WR-14.8A Date sampled: Aug 07, 2012				Sampleno: POM-Z-WR-14.8A-DIS Sample type: Other liquid					
MERCURY MONOMETHYL MERCURY	11.1 2.75		B	NG/L NG/L	0.3 0.026	0.81 0.064	EPA 1631 EPA 1630		METHOD METHOD
Sampling Point: WR-15.2A Date sampled: Aug 07, 2012				Sampleno: POM-Z-WR-15.2A-DIS Sample type: Other liquid					
MERCURY MONOMETHYL MERCURY	12.3 0.437		B	NG/L NG/L	0.3 0.024	0.81 0.059	EPA 1631 EPA 1630		METHOD METHOD
Sampling Point: WR-15.2B Date sampled: Aug 07, 2012				Sampleno: POM-Z-WR-15.2B-DIS Sample type: Other liquid					
MERCURY MONOMETHYL MERCURY	31.3 0.428			NG/L NG/L	0.72 0.024	1.93 0.061	EPA 1631 EPA 1630		METHOD METHOD
Sampling Point: WR-15.2C Date sampled: Aug 07, 2012				Sampleno: POM-Z-WR-15.2C-DIS Sample type: Other liquid					
MERCURY MONOMETHYL MERCURY	10.1 0.201		B	NG/L NG/L	0.3 0.023	0.81 0.057	EPA 1631 EPA 1630		METHOD METHOD
Sampling Point: WR-15.3A Date sampled: Aug 07, 2012				Sampleno: POM-Z-WR-15.3A-DIS Sample type: Other liquid					
MERCURY MONOMETHYL MERCURY	22.8 0.533		B	NG/L NG/L	0.78 0.024	2.09 0.06	EPA 1631 EPA 1630		METHOD METHOD
Sampling Point: WR-15.4C Date sampled: Aug 07, 2012				Sampleno: POM-Z-WR-15.4C-DIS Sample type: Other liquid					
MERCURY MONOMETHYL MERCURY	9.66 0.592		B	NG/L NG/L	0.3 0.024	0.81 0.06	EPA 1631 EPA 1630		METHOD METHOD
Sampling Point: WR-15.4C Date sampled: Aug 07, 2012				Sampleno: POM-Z-WR-15.4C-DIS-DUP Sample type: Other liquid					
MERCURY MONOMETHYL MERCURY	23.6 0.415			NG/L NG/L	0.3 0.025	0.79 0.062	EPA 1631 EPA 1630		METHOD METHOD
Sampling Point: WR-15.4AB Date sampled: Aug 07, 2012				Sampleno: POM-Z-WR-15.4AB-DIS Sample type: Other liquid					
MERCURY MONOMETHYL MERCURY	437 0.055	B	J	NG/L NG/L	3.03 0.024	8.08 0.06	EPA 1631 EPA 1630		METHOD METHOD

Corporate Environmental Database
Summary of Positive Results
with Laboratory and DDR Qualifiers

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:19

Project: WANAQUE SED & PORE WATER 8/12

Page 4 of 9

Reporting Limit: MDL

Analyte/Parameter	Result	Qualifiers		Unit	Detection Limit		Analytical Methods		
		LAB	DDR		MDL	PQL	Analysis	Preprep-	Prep-
Sampling Point: WR-21B		Sample no:		POM-E-WR-21B(0.0-0.5)					
Date sampled: Aug 08, 2012		Sample type:		Sediment					
MERCURY	7.37			MG/KG	0.324	3.14	7471A		7471A MOD.
MOISTURE	39.2			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	14200			MG/KG	1730	5180	LLOYD KAHN		
Sampling Point: WR-15.3A		Sample no:		POM-E-WR-15.3A(0.0-0.5)-DUP					
Date sampled: Aug 06, 2012		Sample type:		Sediment					
MERCURY	11.4			MG/KG	0.558	5.40	7471A		7471A MOD.
MOISTURE	55.9			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	18900			MG/KG	1260	3780	LLOYD KAHN		
Sampling Point: WR-21B		Sample no:		POM-E-WR-21B(0.5-1.0)					
Date sampled: Aug 08, 2012		Sample type:		Sediment					
19 MM	100			% PASS	0.50	0.50	D422		
75 MM	100			% PASS	0.50	0.50	D422		
0.3 MM	13.6			% PASS	0.50	0.50	D422		
0.6 MM	26.9			% PASS	0.50	0.50	D422		
0.02 MM	1.0			% PASS	0.50	0.50	D422		
0.05 MM	2.0			% PASS	0.50	0.50	D422		
0.15 MM	6.8			% PASS	0.50	0.50	D422		
1.18 MM	47.8			% PASS	0.50	0.50	D422		
2.36 MM	72.8			% PASS	0.50	0.50	D422		
3.35 MM	83.5			% PASS	0.50	0.50	D422		
37.5 MM	100			% PASS	0.50	0.50	D422		
4.75 MM	90.8			% PASS	0.50	0.50	D422		
MERCURY	0.334			MG/KG	0.0127	0.123	7471A		7471A MOD.
0.002 MM	0.50			% PASS	0.50	0.50	D422		
0.005 MM	1.0			% PASS	0.50	0.50	D422		
0.064 MM	3.5			% PASS	0.50	0.50	D422		
0.075 MM	4.2			% PASS	0.50	0.50	D422		
MOISTURE	20.9			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	2200			MG/KG	516	1550	LLOYD KAHN		
Sampling Point: WR-21B		Sample no:		POM-E-WR-21B(1.0-1.5)					
Date sampled: Aug 08, 2012		Sample type:		Sediment					
19 MM	100			% PASS	0.50	0.50	D422		
75 MM	100			% PASS	0.50	0.50	D422		
0.3 MM	48.2			% PASS	0.50	0.50	D422		
0.6 MM	72.7			% PASS	0.50	0.50	D422		
0.02 MM	7.0			% PASS	0.50	0.50	D422		
0.05 MM	11.5			% PASS	0.50	0.50	D422		
0.15 MM	27.1			% PASS	0.50	0.50	D422		
1.18 MM	92.0			% PASS	0.50	0.50	D422		
2.36 MM	99.8			% PASS	0.50	0.50	D422		
3.35 MM	99.9			% PASS	0.50	0.50	D422		
37.5 MM	100			% PASS	0.50	0.50	D422		
4.75 MM	100			% PASS	0.50	0.50	D422		
MERCURY	1.65			MG/KG	0.0843	0.816	7471A		7471A MOD.
0.002 MM	0.50			% PASS	0.50	0.50	D422		
0.005 MM	2.0			% PASS	0.50	0.50	D422		
0.064 MM	14.0			% PASS	0.50	0.50	D422		
0.075 MM	16.5			% PASS	0.50	0.50	D422		
MOISTURE	42.6			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	15800			MG/KG	1250	3750	LLOYD KAHN		
Sampling Point: WR-22.1C		Sample no:		POM-E-WR-22.1C(0.0-0.5)					
Date sampled: Aug 09, 2012		Sample type:		Sediment					
19 MM	100			% PASS	0.50	0.50	D422		
75 MM	100			% PASS	0.50	0.50	D422		
0.3 MM	47.5			% PASS	0.50	0.50	D422		
0.6 MM	86.7			% PASS	0.50	0.50	D422		
0.02 MM	4.0			% PASS	0.50	0.50	D422		
0.05 MM	3.5			% PASS	0.50	0.50	D422		
0.15 MM	11.5			% PASS	0.50	0.50	D422		
1.18 MM	95.0			% PASS	0.50	0.50	D422		

Corporate Environmental Database
Summary of Positive Results
with Laboratory and DDR Qualifiers

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:19

Project: WANAQUE SED & PORE WATER 8/12

Page 5 of 9

Reporting Limit: MDL

Analyte/Parameter	Result	Qualifiers		Unit	Detection Limit		Analytical Methods		
		LAB	DDR		MDL	PQL	Analysis	Preprep-	Prep-
Sampling Point: WR-22.1C		Sampleno:		POM-E-WR-22.1C(0.0-0.5)					
Date sampled: Aug 09, 2012		Sample type:		Sediment					
2.36 MM	95.4			% PASS	0.50	0.50	D422		
3.35 MM	96.6			% PASS	0.50	0.50	D422		
37.5 MM	100			% PASS	0.50	0.50	D422		
4.75 MM	98.0			% PASS	0.50	0.50	D422		
MERCURY	7.52			MG/KG	0.316	3.05	7471A		7471A MOD.
0.002 MM	0.50			% PASS	0.50	0.50	D422		
0.005 MM	1.5			% PASS	0.50	0.50	D422		
0.064 MM	1.5			% PASS	0.50	0.50	D422		
0.075 MM	0.85			% PASS	0.50	0.50	D422		
MOISTURE	37.3			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	8140			MG/KG	912	2740	LLOYD KAHN		

Sampling Point: WR-19C		Sample no:		POM-E-WR-19C(0.0-0.5)					
Date sampled: Aug 06, 2012		Sample type:		Sediment					
19 MM	100			% PASS	0.50	0.50	D422		
75 MM	100			% PASS	0.50	0.50	D422		
0.3 MM	41.8			% PASS	0.50	0.50	D422		
0.6 MM	58.7			% PASS	0.50	0.50	D422		
0.02 MM	8.0			% PASS	0.50	0.50	D422		
0.05 MM	14.0			% PASS	0.50	0.50	D422		
0.15 MM	27.3			% PASS	0.50	0.50	D422		
1.18 MM	69.9			% PASS	0.50	0.50	D422		
2.36 MM	79.3			% PASS	0.50	0.50	D422		
3.35 MM	84.8			% PASS	0.50	0.50	D422		
37.5 MM	100			% PASS	0.50	0.50	D422		
4.75 MM	90.0			% PASS	0.50	0.50	D422		
MERCURY	8.85			MG/KG	0.380	3.68	7471A		7471A MOD.
0.001 MM	1.0			% PASS	0.50	0.50	D422		
0.002 MM	1.0			% PASS	0.50	0.50	D422		
0.005 MM	2.0			% PASS	0.50	0.50	D422		
0.064 MM	18.0			% PASS	0.50	0.50	D422		
0.075 MM	19.6			% PASS	0.50	0.50	D422		
MOISTURE	48.3			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	19700			MG/KG	1200	3590	LLOYD KAHN		

Sampling Point: WR-21C		Sample no:		POM-E-WR-21C(0.0-0.5)					
Date sampled: Aug 08, 2012		Sample type:		Sediment					
19 MM	100			% PASS	0.50	0.50	D422		
75 MM	100			% PASS	0.50	0.50	D422		
0.3 MM	54.4			% PASS	0.50	0.50	D422		
0.6 MM	82.7			% PASS	0.50	0.50	D422		
0.02 MM	6.0			% PASS	0.50	0.50	D422		
0.05 MM	9.5			% PASS	0.50	0.50	D422		
0.15 MM	26.1			% PASS	0.50	0.50	D422		
1.18 MM	95.2			% PASS	0.50	0.50	D422		
2.36 MM	98.5			% PASS	0.50	0.50	D422		
3.35 MM	98.8			% PASS	0.50	0.50	D422		
37.5 MM	100			% PASS	0.50	0.50	D422		
4.75 MM	99.2			% PASS	0.50	0.50	D422		
MERCURY	2.68			MG/KG	0.0848	0.821	7471A		7471A MOD.
0.001 MM	2.0			% PASS	0.50	0.50	D422		
0.002 MM	2.0			% PASS	0.50	0.50	D422		
0.005 MM	2.5			% PASS	0.50	0.50	D422		
0.064 MM	11.0			% PASS	0.50	0.50	D422		
0.075 MM	12.7			% PASS	0.50	0.50	D422		
MOISTURE	39.5			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	4620			MG/KG	1310	3930	LLOYD KAHN		

Sampling Point: WR-22C		Sample no:		POM-E-WR-22C(0.0-0.5)					
Date sampled: Aug 09, 2012		Sample type:		Sediment					
19 MM	100			% PASS	0.50	0.50	D422		
75 MM	100			% PASS	0.50	0.50	D422		
0.3 MM	54.8			% PASS	0.50	0.50	D422		
0.6 MM	94.5			% PASS	0.50	0.50	D422		
0.02 MM	1.5			% PASS	0.50	0.50	D422		
0.05 MM	2.5			% PASS	0.50	0.50	D422		
0.15 MM	9.7			% PASS	0.50	0.50	D422		
1.18 MM	97.6			% PASS	0.50	0.50	D422		

Corporate Environmental Database
Summary of Positive Results
with Laboratory and DDR Qualifiers

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:19

Project: WANAQUE SED & PORE WATER 8/12

Page 6 of 9

Reporting Limit: MDL

Analyte/Parameter	Result	Qualifiers		Unit	Detection Limit		Analytical Methods		
		LAB	DDR		MDL	PQL	Analysis	Preprep-	Prep-
Sampling Point: WR-22C		Sample no:		POM-E-WR-22C(0.0-0.5)					
Date sampled: Aug 09, 2012		Sample type:		Sediment					
2.36 MM	98.3			% PASS	0.50	0.50	D422		
3.35 MM	98.4			% PASS	0.50	0.50	D422		
37.5 MM	100			% PASS	0.50	0.50	D422		
4.75 MM	98.5			% PASS	0.50	0.50	D422		
MERCURY	2.84			MG/KG	0.139	1.34	7471A		7471A MOD.
0.001 MM	1.5			% PASS	0.50	0.50	D422		
0.002 MM	1.5			% PASS	0.50	0.50	D422		
0.005 MM	1.5			% PASS	0.50	0.50	D422		
0.064 MM	3.0			% PASS	0.50	0.50	D422		
0.075 MM	3.6			% PASS	0.50	0.50	D422		
MOISTURE	25.6			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	3080			MG/KG	433	1300	LLOYD KAHN		

Sampling Point: WR-13.1C		Sample no:		POM-E-WR-13.1C(0.0-0.5)					
Date sampled: Aug 06, 2012		Sample type:		Sediment					
19 MM	100			% PASS	0.50	0.50	D422		
75 MM	100			% PASS	0.50	0.50	D422		
0.3 MM	95.3			% PASS	0.50	0.50	D422		
0.6 MM	98.9			% PASS	0.50	0.50	D422		
0.02 MM	22.0			% PASS	0.50	0.50	D422		
0.05 MM	37.0			% PASS	0.50	0.50	D422		
0.15 MM	72.9			% PASS	0.50	0.50	D422		
1.18 MM	99.6			% PASS	0.50	0.50	D422		
2.36 MM	99.8			% PASS	0.50	0.50	D422		
3.35 MM	99.8			% PASS	0.50	0.50	D422		
37.5 MM	100			% PASS	0.50	0.50	D422		
4.75 MM	100			% PASS	0.50	0.50	D422		
MERCURY	1.97			MG/KG	0.0580	0.562	7471A		7471A MOD.
0.001 MM	2.5			% PASS	0.50	0.50	D422		
0.002 MM	3.5			% PASS	0.50	0.50	D422		
0.005 MM	7.0			% PASS	0.50	0.50	D422		
0.064 MM	45.0			% PASS	0.50	0.50	D422		
0.075 MM	50.3			% PASS	0.50	0.50	D422		
MOISTURE	56.0			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	24700			MG/KG	1320	3960	LLOYD KAHN		

Sampling Point: WR-13.2C		Sample no:		POM-E-WR-13.2C(0.0-0.5)					
Date sampled: Aug 06, 2012		Sample type:		Sediment					
19 MM	100			% PASS	0.50	0.50	D422		
75 MM	100			% PASS	0.50	0.50	D422		
0.3 MM	95.9			% PASS	0.50	0.50	D422		
0.6 MM	98.5			% PASS	0.50	0.50	D422		
0.02 MM	25.0			% PASS	0.50	0.50	D422		
0.05 MM	39.0			% PASS	0.50	0.50	D422		
0.15 MM	76.9			% PASS	0.50	0.50	D422		
1.18 MM	99.2			% PASS	0.50	0.50	D422		
2.36 MM	99.6			% PASS	0.50	0.50	D422		
3.35 MM	99.8			% PASS	0.50	0.50	D422		
37.5 MM	100			% PASS	0.50	0.50	D422		
4.75 MM	99.9			% PASS	0.50	0.50	D422		
MERCURY	26.6			MG/KG	1.10	10.6	7471A		7471A MOD.
0.001 MM	3.0			% PASS	0.50	0.50	D422		
0.002 MM	4.0			% PASS	0.50	0.50	D422		
0.005 MM	8.5			% PASS	0.50	0.50	D422		
0.064 MM	47.0			% PASS	0.50	0.50	D422		
0.075 MM	51.5			% PASS	0.50	0.50	D422		
MOISTURE	54.8			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	9670			MG/KG	1750	5260	LLOYD KAHN		

Sampling Point: WR-13.8C		Sample no:		POM-E-WR-13.8C(0.0-0.5)					
Date sampled: Aug 06, 2012		Sample type:		Sediment					
19 MM	100			% PASS	0.50	0.50	D422		
75 MM	100			% PASS	0.50	0.50	D422		
0.3 MM	88.5			% PASS	0.50	0.50	D422		
0.6 MM	97.9			% PASS	0.50	0.50	D422		
0.02 MM	14.0			% PASS	0.50	0.50	D422		
0.05 MM	26.0			% PASS	0.50	0.50	D422		
0.15 MM	54.2			% PASS	0.50	0.50	D422		

**Corporate Environmental Database
Summary of Positive Results
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:19

Project: WANAQUE SED & PORE WATER 8/12

Page 7 of 9

Reporting Limit: MDL

Analyte/Parameter	Result	Qualifiers		Unit	Detection Limit		Analytical Methods		
		LAB	DDR		MDL	PQL	Analysis	Preprep-	Prep-
Sampling Point: WR-13.8C		SampLeno:		POM-E-WR-13.8C(0.0-0.5)					
Date sampled: Aug 06, 2012		Sample type:		Sediment					
1.18 MM	98.8			% PASS	0.50	0.50	D422		
2.36 MM	99.7			% PASS	0.50	0.50	D422		
3.35 MM	99.9			% PASS	0.50	0.50	D422		
37.5 MM	100			% PASS	0.50	0.50	D422		
4.75 MM	100			% PASS	0.50	0.50	D422		
MERCURY	43.9			MG/KG	2.19	21.2	7471A		7471A MOD.
0.001 MM	2.0			% PASS	0.50	0.50	D422		
0.002 MM	3.5			% PASS	0.50	0.50	D422		
0.005 MM	7.0			% PASS	0.50	0.50	D422		
0.064 MM	31.0			% PASS	0.50	0.50	D422		
0.075 MM	34.2			% PASS	0.50	0.50	D422		
MOISTURE	53.3			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	16600			MG/KG	1120	3350	LLOYD KAHN		

Sampling Point: WR-14.2C		SampLeno:		POM-E-WR-14.2C(0.0-0.5)					
Date sampled: Aug 06, 2012		Sample type:		Sediment					
19 MM	100			% PASS	0.50	0.50	D422		
75 MM	100			% PASS	0.50	0.50	D422		
0.3 MM	63.7			% PASS	0.50	0.50	D422		
0.6 MM	79.8			% PASS	0.50	0.50	D422		
0.02 MM	5.0			% PASS	0.50	0.50	D422		
0.05 MM	9.5			% PASS	0.50	0.50	D422		
0.15 MM	30.8			% PASS	0.50	0.50	D422		
1.18 MM	81.8			% PASS	0.50	0.50	D422		
2.36 MM	82.6			% PASS	0.50	0.50	D422		
3.35 MM	82.8			% PASS	0.50	0.50	D422		
37.5 MM	100			% PASS	0.50	0.50	D422		
4.75 MM	83.3			% PASS	0.50	0.50	D422		
MERCURY	330			MG/KG	15.7	152	7471A		7471A MOD.
0.001 MM	1.0			% PASS	0.50	0.50	D422		
0.002 MM	1.0			% PASS	0.50	0.50	D422		
0.005 MM	2.0			% PASS	0.50	0.50	D422		
0.064 MM	13.0			% PASS	0.50	0.50	D422		
0.075 MM	15.4			% PASS	0.50	0.50	D422		
MOISTURE	38.4			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	3840			MG/KG	781	2340	LLOYD KAHN		

Sampling Point: WR-14.8A		SampLeno:		POM-E-WR-14.8A(0.0-0.5)					
Date sampled: Aug 06, 2012		Sample type:		Sediment					
19 MM	100			% PASS	0.50	0.50	D422		
75 MM	100			% PASS	0.50	0.50	D422		
0.3 MM	38.3			% PASS	0.50	0.50	D422		
0.6 MM	43.1			% PASS	0.50	0.50	D422		
0.02 MM	22.0			% PASS	0.50	0.50	D422		
0.05 MM	28.0			% PASS	0.50	0.50	D422		
0.15 MM	34.8			% PASS	0.50	0.50	D422		
1.18 MM	50.2			% PASS	0.50	0.50	D422		
2.36 MM	59.9			% PASS	0.50	0.50	D422		
3.35 MM	68.1			% PASS	0.50	0.50	D422		
37.5 MM	100			% PASS	0.50	0.50	D422		
4.75 MM	75.7			% PASS	0.50	0.50	D422		
MERCURY	22.3			MG/KG	0.703	6.80	7471A		7471A MOD.
0.001 MM	3.0			% PASS	0.50	0.50	D422		
0.002 MM	5.0			% PASS	0.50	0.50	D422		
0.005 MM	8.0			% PASS	0.50	0.50	D422		
0.064 MM	31.0			% PASS	0.50	0.50	D422		
0.075 MM	32.0			% PASS	0.50	0.50	D422		
MOISTURE	63.3			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	34700			MG/KG	1590	4770	LLOYD KAHN		

Sampling Point: WR-15.3A		SampLeno:		POM-E-WR-15.3A(0.0-0.5)					
Date sampled: Aug 06, 2012		Sample type:		Sediment					
19 MM	100			% PASS	0.50	0.50	D422		
75 MM	100			% PASS	0.50	0.50	D422		
0.3 MM	85.3			% PASS	0.50	0.50	D422		
0.6 MM	98.1			% PASS	0.50	0.50	D422		
0.02 MM	16.0			% PASS	0.50	0.50	D422		
0.05 MM	26.0			% PASS	0.50	0.50	D422		

Corporate Environmental Database
Summary of Positive Results
with Laboratory and DDR Qualifiers

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:19

Project: WANAQUE SED & PORE WATER 8/12

Page 8 of 9

Reporting Limit: MDL

Analyte/Parameter	Result	Qualifiers		Unit	Detection Limit		Analytical Methods		
		LAB	DDR		MDL	PQL	Analysis	Preprep-	Prep-
Sampling Point: WR-15.3A		Sampleno:		POM-E-WR-15.3A(0.0-0.5)					
Date sampled: Aug 06, 2012		Sample type:		Sediment					
0.15 MM	52.7			% PASS	0.50	0.50	D422		
1.18 MM	98.7			% PASS	0.50	0.50	D422		
2.36 MM	99.7			% PASS	0.50	0.50	D422		
3.35 MM	99.8			% PASS	0.50	0.50	D422		
37.5 MM	100			% PASS	0.50	0.50	D422		
4.75 MM	100			% PASS	0.50	0.50	D422		
MERCURY	35.6			MG/KG	0.579	5.60	7471A		7471A MOD.
0.001 MM	2.0			% PASS	0.50	0.50	D422		
0.002 MM	3.0			% PASS	0.50	0.50	D422		
0.005 MM	6.0			% PASS	0.50	0.50	D422		
0.064 MM	31.0			% PASS	0.50	0.50	D422		
0.075 MM	34.5			% PASS	0.50	0.50	D422		
MOISTURE	56.5			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	24800			MG/KG	1130	3380	LLOYD KAHN		

Sampling Point: WR-19.1C		Sample no:		POM-E-WR-19.1C(0.0-0.5)					
Date sampled: Aug 06, 2012		Sample type:		Sediment					
19 MM	100			% PASS	0.50	0.50	D422		
75 MM	100			% PASS	0.50	0.50	D422		
0.3 MM	63.8			% PASS	0.50	0.50	D422		
0.6 MM	82.6			% PASS	0.50	0.50	D422		
0.02 MM	11.0			% PASS	0.50	0.50	D422		
0.05 MM	19.0			% PASS	0.50	0.50	D422		
0.15 MM	41.7			% PASS	0.50	0.50	D422		
1.18 MM	94.0			% PASS	0.50	0.50	D422		
2.36 MM	98.8			% PASS	0.50	0.50	D422		
3.35 MM	98.9			% PASS	0.50	0.50	D422		
37.5 MM	100			% PASS	0.50	0.50	D422		
4.75 MM	99.0			% PASS	0.50	0.50	D422		
MERCURY	23.0			MG/KG	1.00	9.72	7471A		7471A MOD.
0.001 MM	1.0			% PASS	0.50	0.50	D422		
0.002 MM	2.0			% PASS	0.50	0.50	D422		
0.005 MM	5.0			% PASS	0.50	0.50	D422		
0.064 MM	22.0			% PASS	0.50	0.50	D422		
0.075 MM	25.4			% PASS	0.50	0.50	D422		
MOISTURE	49.9			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	17300			MG/KG	1610	4840	LLOYD KAHN		

Sampling Point: WR-19.6A		Sample no:		POM-E-WR-19.6A(0.0-0.5)					
Date sampled: Aug 08, 2012		Sample type:		Sediment					
19 MM	100			% PASS	0.50	0.50	D422		
75 MM	100			% PASS	0.50	0.50	D422		
0.3 MM	25.8			% PASS	0.50	0.50	D422		
0.6 MM	47.3			% PASS	0.50	0.50	D422		
0.02 MM	3.0			% PASS	0.50	0.50	D422		
0.05 MM	3.0			% PASS	0.50	0.50	D422		
0.15 MM	7.3			% PASS	0.50	0.50	D422		
1.18 MM	60.2			% PASS	0.50	0.50	D422		
2.36 MM	71.2			% PASS	0.50	0.50	D422		
3.35 MM	74.9			% PASS	0.50	0.50	D422		
37.5 MM	100			% PASS	0.50	0.50	D422		
4.75 MM	78.8			% PASS	0.50	0.50	D422		
MERCURY	5.12			MG/KG	0.272	2.63	7471A		7471A MOD.
0.001 MM	1.0			% PASS	0.50	0.50	D422		
0.002 MM	1.0			% PASS	0.50	0.50	D422		
0.005 MM	1.5			% PASS	0.50	0.50	D422		
0.064 MM	3.0			% PASS	0.50	0.50	D422		
0.075 MM	3.6			% PASS	0.50	0.50	D422		
MOISTURE	26.9			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	6260			MG/KG	554	1660	LLOYD KAHN		

Sampling Point: WR-21.1A		Sample no:		POM-E-WR-21.1A(0.0-0.5)					
Date sampled: Aug 08, 2012		Sample type:		Sediment					
19 MM	100			% PASS	0.50	0.50	D422		
75 MM	100			% PASS	0.50	0.50	D422		
0.3 MM	86.8			% PASS	0.50	0.50	D422		
0.6 MM	98.0			% PASS	0.50	0.50	D422		
0.02 MM	6.5			% PASS	0.50	0.50	D422		

**Corporate Environmental Database
Summary of Positive Results
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:19

Project: WANAQUE SED & PORE WATER 8/12

Page 9 of 9

Reporting Limit: MDL

Analyte/Parameter	Result	Qualifiers		Unit	Detection Limit		Analytical Methods		
		LAB	DDR		MDL	PQL	Analysis	Preprep-	Prep-
Sampling Point: WR-21.1A		Sample no:		POM-E-WR-21.1A(0.0-0.5)					
Date sampled: Aug 08, 2012		Sample type:		Sediment					
0.05 MM	11.0			% PASS	0.50	0.50	D422		
0.15 MM	42.4			% PASS	0.50	0.50	D422		
1.18 MM	99.4			% PASS	0.50	0.50	D422		
2.36 MM	99.8			% PASS	0.50	0.50	D422		
3.35 MM	99.9			% PASS	0.50	0.50	D422		
37.5 MM	100			% PASS	0.50	0.50	D422		
4.75 MM	100			% PASS	0.50	0.50	D422		
MERCURY	9.11			MG/KG	0.327	3.16	7471A		7471A MOD.
0.001 MM	1.5			% PASS	0.50	0.50	D422		
0.002 MM	1.5			% PASS	0.50	0.50	D422		
0.005 MM	2.5			% PASS	0.50	0.50	D422		
0.064 MM	14.0			% PASS	0.50	0.50	D422		
0.075 MM	17.4			% PASS	0.50	0.50	D422		
MOISTURE	40.7			%	0.50	0.50	SM 2540 G		
TOTAL ORGANIC CARBON	12200			MG/KG	1580	4730	LLOYD KAHN		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:19

Project: WANAQUE SED & PORE WATER 8/12

Page 1 of 21

Reporting Limit: MDL

Location: EQBLK-1

Field Sample ID: POM-K-EQBLK-1

Date Sampled: 8/6/2012 17:30:00

Sample Type: Blank Water

Lab Sample ID: 6746273-HG EB

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	0.000085	J	J	MG/L	1	0.00020	0.000008	08/09/12	7470A	METHOD	
TOTAL ORGANIC CARBON	< 0.50	U		MG/L	1	1.0	0.50	08/09/12	SM 5310 C		

Location: WR-13.1C

Field Sample ID: POM-E-WR-13.1C(0.0-0.5)

Date Sampled: 8/6/2012 12:45:00

Sample Type: Sediment

Lab Sample ID: 6746261-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	1.97			MG/KG	2.5	0.562	0.0580	08/09/12	7471A	7471A MOD.	
MOISTURE	56.0			%	1	0.50	0.50	08/09/12	SM 2540 G		
TOTAL ORGANIC CARBON	24700			MG/KG	1	3960	1320	08/09/12	LLOYD KAHN		
0.001 MM	2.5			% PASSII1		0.50	0.50	08/07/12	D422		
0.002 MM	3.5			% PASSII1		0.50	0.50	08/07/12	D422		
0.005 MM	7.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.02 MM	22.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.05 MM	37.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.064 MM	45.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.075 MM	50.3			% PASSII1		0.50	0.50	08/07/12	D422		
0.15 MM	72.9			% PASSII1		0.50	0.50	08/07/12	D422		
0.3 MM	95.3			% PASSII1		0.50	0.50	08/07/12	D422		
0.6 MM	98.9			% PASSII1		0.50	0.50	08/07/12	D422		
1.18 MM	99.6			% PASSII1		0.50	0.50	08/07/12	D422		
19 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		
2.36 MM	99.8			% PASSII1		0.50	0.50	08/07/12	D422		
3.35 MM	99.8			% PASSII1		0.50	0.50	08/07/12	D422		
37.5 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		
4.75 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		
75 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:19

Project: WANAQUE SED & PORE WATER 8/12

Page 2 of 21

Reporting Limit: MDL

Location: WR-13.2C

Field Sample ID: POM-E-WR-13.2C(0.0-0.5)

Date Sampled: 8/6/2012 13:15:00

Sample Type: Sediment

Lab Sample ID: 6746262-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	26.6			MG/KG	50	10.6	1.10	08/09/12	7471A	7471A MOD.	
MOISTURE	54.8			%	1	0.50	0.50	08/09/12	SM 2540 G		
TOTAL ORGANIC CARBON	9670			MG/KG	1	5260	1750	08/09/12	LLOYD KAHN		
0.001 MM	3.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.002 MM	4.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.005 MM	8.5			% PASSII1		0.50	0.50	08/07/12	D422		
0.02 MM	25.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.05 MM	39.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.064 MM	47.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.075 MM	51.5			% PASSII1		0.50	0.50	08/07/12	D422		
0.15 MM	76.9			% PASSII1		0.50	0.50	08/07/12	D422		
0.3 MM	95.9			% PASSII1		0.50	0.50	08/07/12	D422		
0.6 MM	98.5			% PASSII1		0.50	0.50	08/07/12	D422		
1.18 MM	99.2			% PASSII1		0.50	0.50	08/07/12	D422		
19 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		
2.36 MM	99.6			% PASSII1		0.50	0.50	08/07/12	D422		
3.35 MM	99.8			% PASSII1		0.50	0.50	08/07/12	D422		
37.5 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		
4.75 MM	99.9			% PASSII1		0.50	0.50	08/07/12	D422		
75 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:19

Project: WANAQUE SED & PORE WATER 8/12

Page 3 of 21

Reporting Limit: MDL

Location: WR-13.8C

Field Sample ID: POM-E-WR-13.8C(0.0-0.5)

Date Sampled: 8/6/2012 13:30:00

Sample Type: Sediment

Lab Sample ID: 6746263-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	43.9			MG/KG	100	21.2	2.19	08/09/12	7471A	7471A MOD.	
MOISTURE	53.3			%	1	0.50	0.50	08/09/12	SM 2540 G		
TOTAL ORGANIC CARBON	16600			MG/KG	1	3350	1120	08/09/12	LLOYD KAHN		
0.001 MM	2.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.002 MM	3.5			% PASSII1		0.50	0.50	08/07/12	D422		
0.005 MM	7.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.02 MM	14.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.05 MM	26.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.064 MM	31.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.075 MM	34.2			% PASSII1		0.50	0.50	08/07/12	D422		
0.15 MM	54.2			% PASSII1		0.50	0.50	08/07/12	D422		
0.3 MM	88.5			% PASSII1		0.50	0.50	08/07/12	D422		
0.6 MM	97.9			% PASSII1		0.50	0.50	08/07/12	D422		
1.18 MM	98.8			% PASSII1		0.50	0.50	08/07/12	D422		
19 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		
2.36 MM	99.7			% PASSII1		0.50	0.50	08/07/12	D422		
3.35 MM	99.9			% PASSII1		0.50	0.50	08/07/12	D422		
37.5 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		
4.75 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		
75 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:20

Project: WANAQUE SED & PORE WATER 8/12

Page 4 of 21

Reporting Limit: MDL

Location: WR-14.2C

Field Sample ID: POM-E-WR-14.2C(0.0-0.5)

Date Sampled: 8/6/2012 14:00:00

Sample Type: Sediment

Lab Sample ID: 6746264-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	330			MG/KG	1000	152	15.7	08/09/12	7471A	7471A MOD.	
MOISTURE	38.4			%	1	0.50	0.50	08/09/12	SM 2540 G		
TOTAL ORGANIC CARBON	3840			MG/KG	1	2340	781	08/10/12	LLOYD KAHN		
0.001 MM	1.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.002 MM	1.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.005 MM	2.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.02 MM	5.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.05 MM	9.5			% PASSII1		0.50	0.50	08/07/12	D422		
0.064 MM	13.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.075 MM	15.4			% PASSII1		0.50	0.50	08/07/12	D422		
0.15 MM	30.8			% PASSII1		0.50	0.50	08/07/12	D422		
0.3 MM	63.7			% PASSII1		0.50	0.50	08/07/12	D422		
0.6 MM	79.8			% PASSII1		0.50	0.50	08/07/12	D422		
1.18 MM	81.8			% PASSII1		0.50	0.50	08/07/12	D422		
19 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		
2.36 MM	82.6			% PASSII1		0.50	0.50	08/07/12	D422		
3.35 MM	82.8			% PASSII1		0.50	0.50	08/07/12	D422		
37.5 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		
4.75 MM	83.3			% PASSII1		0.50	0.50	08/07/12	D422		
75 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:20

Project: WANAQUE SED & PORE WATER 8/12

Page 5 of 21

Reporting Limit: MDL

Location: WR-14.8A

Field Sample ID: POM-E-WR-14.8A(0.0-0.5)

Date Sampled: 8/6/2012 14:45:00

Sample Type: Sediment

Lab Sample ID: 6746265-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	22.3			MG/KG	25	6.80	0.703	08/09/12	7471A	7471A MOD.	
MOISTURE	63.3			%	1	0.50	0.50	08/09/12	SM 2540 G		
TOTAL ORGANIC CARBON	34700			MG/KG	1	4770	1590	08/10/12	LLOYD KAHN		
0.001 MM	3.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.002 MM	5.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.005 MM	8.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.02 MM	22.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.05 MM	28.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.064 MM	31.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.075 MM	32.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.15 MM	34.8			% PASSII1		0.50	0.50	08/07/12	D422		
0.3 MM	38.3			% PASSII1		0.50	0.50	08/07/12	D422		
0.6 MM	43.1			% PASSII1		0.50	0.50	08/07/12	D422		
1.18 MM	50.2			% PASSII1		0.50	0.50	08/07/12	D422		
19 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		
2.36 MM	59.9			% PASSII1		0.50	0.50	08/07/12	D422		
3.35 MM	68.1			% PASSII1		0.50	0.50	08/07/12	D422		
37.5 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		
4.75 MM	75.7			% PASSII1		0.50	0.50	08/07/12	D422		
75 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:20

Project: WANAQUE SED & PORE WATER 8/12

Page 6 of 21

Reporting Limit: MDL

Location: WR-15.3A
Date Sampled: 8/6/2012 15:30:00
Lab Sample ID: 6746266-HG FS

Field Sample ID: POM-E-WR-15.3A(0.0-0.5)
Sample Type: Sediment

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis	Analytical Methods		
		LAB	DDR			PQL	MDL	Date	Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	35.6			MG/KG	25	5.60	0.579	08/09/12	7471A	7471A MOD.	
MOISTURE	56.5			%	1	0.50	0.50	08/09/12	SM 2540 G		
TOTAL ORGANIC CARBON	24800			MG/KG	1	3380	1130	08/10/12	LLOYD KAHN		
0.001 MM	2.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.002 MM	3.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.005 MM	6.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.02 MM	16.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.05 MM	26.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.064 MM	31.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.075 MM	34.5			% PASSII1		0.50	0.50	08/07/12	D422		
0.15 MM	52.7			% PASSII1		0.50	0.50	08/07/12	D422		
0.3 MM	85.3			% PASSII1		0.50	0.50	08/07/12	D422		
0.6 MM	98.1			% PASSII1		0.50	0.50	08/07/12	D422		
1.18 MM	98.7			% PASSII1		0.50	0.50	08/07/12	D422		
19 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		
2.36 MM	99.7			% PASSII1		0.50	0.50	08/07/12	D422		
3.35 MM	99.8			% PASSII1		0.50	0.50	08/07/12	D422		
37.5 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		
4.75 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		
75 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		

Location: WR-15.3A
Date Sampled: 8/6/2012 15:30:00
Lab Sample ID: 6746267-HG FS

Field Sample ID: POM-E-WR-15.3A(0.0-0.5)-DUP
Sample Type: Sediment

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	11.4			MG/KG	25	5.40	0.558	08/09/12	7471A	7471A MOD.	
MOISTURE	55.9			%	1	0.50	0.50	08/09/12	SM 2540 G		
TOTAL ORGANIC CARBON	18900			MG/KG	1	3780	1260	08/10/12	LLOYD KAHN		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:20

Project: WANAQUE SED & PORE WATER 8/12

Page 7 of 21

Reporting Limit: MDL

Location: WR-19C

Field Sample ID: POM-E-WR-19C(0.0-0.5)

Date Sampled: 8/6/2012 16:30:00

Sample Type: Sediment

Lab Sample ID: 6746268-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis	Analytical Methods		
		LAB	DDR			PQL	MDL		Date	Analysis-	Prep-
<u>Analytes</u>											
MERCURY	8.85			MG/KG	20	3.68	0.380	08/09/12	7471A	7471A MOD.	
MOISTURE	48.3			%	1	0.50	0.50	08/09/12	SM 2540 G		
TOTAL ORGANIC CARBON	19700			MG/KG	1	3590	1200	08/10/12	LLOYD KAHN		
0.001 MM	1.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.002 MM	1.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.005 MM	2.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.02 MM	8.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.05 MM	14.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.064 MM	18.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.075 MM	19.6			% PASSII1		0.50	0.50	08/07/12	D422		
0.15 MM	27.3			% PASSII1		0.50	0.50	08/07/12	D422		
0.3 MM	41.8			% PASSII1		0.50	0.50	08/07/12	D422		
0.6 MM	58.7			% PASSII1		0.50	0.50	08/07/12	D422		
1.18 MM	69.9			% PASSII1		0.50	0.50	08/07/12	D422		
19 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		
2.36 MM	79.3			% PASSII1		0.50	0.50	08/07/12	D422		
3.35 MM	84.8			% PASSII1		0.50	0.50	08/07/12	D422		
37.5 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		
4.75 MM	90.0			% PASSII1		0.50	0.50	08/07/12	D422		
75 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:20

Project: WANAQUE SED & PORE WATER 8/12

Page 8 of 21

Reporting Limit: MDL

Location: WR-19.1C

Field Sample ID: POM-E-WR-19.1C(0.0-0.5)

Date Sampled: 8/6/2012 16:45:00

Sample Type: Sediment

Lab Sample ID: 6746272-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis	Analytical Methods		
		LAB	DDR			PQL	MDL	Date	Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	23.0			MG/KG	50	9.72	1.00	08/09/12	7471A	7471A MOD.	
MOISTURE	49.9			%	1	0.50	0.50	08/09/12	SM 2540 G		
TOTAL ORGANIC CARBON	17300			MG/KG	1	4840	1610	08/12/12	LLOYD KAHN		
0.001 MM	1.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.002 MM	2.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.005 MM	5.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.02 MM	11.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.05 MM	19.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.064 MM	22.0			% PASSII1		0.50	0.50	08/07/12	D422		
0.075 MM	25.4			% PASSII1		0.50	0.50	08/07/12	D422		
0.15 MM	41.7			% PASSII1		0.50	0.50	08/07/12	D422		
0.3 MM	63.8			% PASSII1		0.50	0.50	08/07/12	D422		
0.6 MM	82.6			% PASSII1		0.50	0.50	08/07/12	D422		
1.18 MM	94.0			% PASSII1		0.50	0.50	08/07/12	D422		
19 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		
2.36 MM	98.8			% PASSII1		0.50	0.50	08/07/12	D422		
3.35 MM	98.9			% PASSII1		0.50	0.50	08/07/12	D422		
37.5 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		
4.75 MM	99.0			% PASSII1		0.50	0.50	08/07/12	D422		
75 MM	100			% PASSII1		0.50	0.50	08/07/12	D422		

Location: EQBLK-2

Field Sample ID: POM-K-EQBLK-2

Date Sampled: 8/8/2012 17:00:00

Sample Type: Blank Water

Lab Sample ID: 6750114-HG EB

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis	Analytical Methods		
		LAB	DDR			PQL	MDL	Date	Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	0.000088	J	J	MG/L	1	0.00020	0.000008	08/11/12	7470A	METHOD	
TOTAL ORGANIC CARBON	< 0.50	U		MG/L	1	1.0	0.50	08/14/12	SM 5310 C		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:20

Project: WANAQUE SED & PORE WATER 8/12

Page 9 of 21

Reporting Limit: MDL

Location: EQBLK-3

Field Sample ID: POM-K-EQBLK-3

Date Sampled: 8/9/2012 09:15:00

Sample Type: Blank Water

Lab Sample ID: 6750115-HG EB

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis	Analytical Methods		
		LAB	DDR			PQL	MDL	Date	Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	0.00011	J	J	MG/L	1	0.00020	0.000008	08/11/12	7470A	METHOD	
TOTAL ORGANIC CARBON	< 0.50	U		MG/L	1	1.0	0.50	08/14/12	SM 5310 C		

Location: WR-21.1A

Field Sample ID: POM-E-WR-21.1A(0.0-0.5)

Date Sampled: 8/8/2012 12:45:00

Sample Type: Sediment

Lab Sample ID: 6750106-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	9.11			MG/KG	20	3.16	0.327	08/15/12	7471A	7471A MOD.	
MOISTURE	40.7			%	1	0.50	0.50	08/14/12	SM 2540 G		
TOTAL ORGANIC CARBON	12200			MG/KG	1	4730	1580	08/20/12	LLOYD KAHN		
0.001 MM	1.5			% PASSII1		0.50	0.50	08/09/12	D422		
0.002 MM	1.5			% PASSII1		0.50	0.50	08/09/12	D422		
0.005 MM	2.5			% PASSII1		0.50	0.50	08/09/12	D422		
0.02 MM	6.5			% PASSII1		0.50	0.50	08/09/12	D422		
0.05 MM	11.0			% PASSII1		0.50	0.50	08/09/12	D422		
0.064 MM	14.0			% PASSII1		0.50	0.50	08/09/12	D422		
0.075 MM	17.4			% PASSII1		0.50	0.50	08/09/12	D422		
0.15 MM	42.4			% PASSII1		0.50	0.50	08/09/12	D422		
0.3 MM	86.8			% PASSII1		0.50	0.50	08/09/12	D422		
0.6 MM	98.0			% PASSII1		0.50	0.50	08/09/12	D422		
1.18 MM	99.4			% PASSII1		0.50	0.50	08/09/12	D422		
19 MM	100			% PASSII1		0.50	0.50	08/09/12	D422		
2.36 MM	99.8			% PASSII1		0.50	0.50	08/09/12	D422		
3.35 MM	99.9			% PASSII1		0.50	0.50	08/09/12	D422		
37.5 MM	100			% PASSII1		0.50	0.50	08/09/12	D422		
4.75 MM	100			% PASSII1		0.50	0.50	08/09/12	D422		
75 MM	100			% PASSII1		0.50	0.50	08/09/12	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:20

Project: WANAQUE SED & PORE WATER 8/12

Page 10 of 21

Reporting Limit: MDL

Location: WR-21B

Field Sample ID: POM-E-WR-21B(0.0-0.5)

Date Sampled: 8/8/2012 15:45:00

Sample Type: Sediment

Lab Sample ID: 6750107-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	7.37			MG/KG	20	3.14	0.324	08/15/12	7471A	7471A MOD.	
MOISTURE	39.2			%	1	0.50	0.50	08/14/12	SM 2540 G		
TOTAL ORGANIC CARBON	14200			MG/KG	1	5180	1730	08/20/12	LLOYD KAHN		

Location: WR-21B

Field Sample ID: POM-E-WR-21B(0.5-1.0)

Date Sampled: 8/8/2012 16:00:00

Sample Type: Sediment

Lab Sample ID: 6750108-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	0.334	U		MG/KG	1	0.123	0.0127	08/15/12	7471A	7471A MOD.	
MOISTURE	20.9			%	1	0.50	0.50	08/14/12	SM 2540 G		
TOTAL ORGANIC CARBON	2200			MG/KG	1	1550	516	08/20/12	LLOYD KAHN		
0.001 MM	< 0.50			% PASSII1		0.50	0.50	08/09/12	D422		
0.002 MM	0.50			% PASSII1		0.50	0.50	08/09/12	D422		
0.005 MM	1.0			% PASSII1		0.50	0.50	08/09/12	D422		
0.02 MM	1.0			% PASSII1		0.50	0.50	08/09/12	D422		
0.05 MM	2.0			% PASSII1		0.50	0.50	08/09/12	D422		
0.064 MM	3.5			% PASSII1		0.50	0.50	08/09/12	D422		
0.075 MM	4.2			% PASSII1		0.50	0.50	08/09/12	D422		
0.15 MM	6.8			% PASSII1		0.50	0.50	08/09/12	D422		
0.3 MM	13.6			% PASSII1		0.50	0.50	08/09/12	D422		
0.6 MM	26.9			% PASSII1		0.50	0.50	08/09/12	D422		
1.18 MM	47.8			% PASSII1		0.50	0.50	08/09/12	D422		
19 MM	100			% PASSII1		0.50	0.50	08/09/12	D422		
2.36 MM	72.8			% PASSII1		0.50	0.50	08/09/12	D422		
3.35 MM	83.5			% PASSII1		0.50	0.50	08/09/12	D422		
37.5 MM	100			% PASSII1		0.50	0.50	08/09/12	D422		
4.75 MM	90.8			% PASSII1		0.50	0.50	08/09/12	D422		
75 MM	100			% PASSII1		0.50	0.50	08/09/12	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:20

Project: WANAQUE SED & PORE WATER 8/12

Page 11 of 21

Reporting Limit: MDL

Location: WR-21B

Field Sample ID: POM-E-WR-21B(1.0-1.5)

Date Sampled: 8/8/2012 16:15:00

Sample Type: Sediment

Lab Sample ID: 6750109-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	1.65	U		MG/KG	5	0.816	0.0843	08/15/12	7471A	7471A MOD.	
MOISTURE	42.6		%	1	0.50	0.50	08/14/12	SM 2540 G			
TOTAL ORGANIC CARBON	15800		MG/KG	1	3750	1250	08/20/12	LLOYD KAHN			
0.001 MM	< 0.50		% PASSII1		0.50	0.50	08/09/12	D422			
0.002 MM	0.50		% PASSII1		0.50	0.50	08/09/12	D422			
0.005 MM	2.0		% PASSII1		0.50	0.50	08/09/12	D422			
0.02 MM	7.0		% PASSII1		0.50	0.50	08/09/12	D422			
0.05 MM	11.5		% PASSII1		0.50	0.50	08/09/12	D422			
0.064 MM	14.0		% PASSII1		0.50	0.50	08/09/12	D422			
0.075 MM	16.5		% PASSII1		0.50	0.50	08/09/12	D422			
0.15 MM	27.1		% PASSII1		0.50	0.50	08/09/12	D422			
0.3 MM	48.2		% PASSII1		0.50	0.50	08/09/12	D422			
0.6 MM	72.7		% PASSII1		0.50	0.50	08/09/12	D422			
1.18 MM	92.0		% PASSII1		0.50	0.50	08/09/12	D422			
19 MM	100		% PASSII1		0.50	0.50	08/09/12	D422			
2.36 MM	99.8		% PASSII1		0.50	0.50	08/09/12	D422			
3.35 MM	99.9		% PASSII1		0.50	0.50	08/09/12	D422			
37.5 MM	100		% PASSII1		0.50	0.50	08/09/12	D422			
4.75 MM	100		% PASSII1		0.50	0.50	08/09/12	D422			
75 MM	100		% PASSII1		0.50	0.50	08/09/12	D422			

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:20

Project: WANAQUE SED & PORE WATER 8/12

Page 12 of 21

Reporting Limit: MDL

Location: WR-19.6A

Field Sample ID: POM-E-WR-19.6A(0.0-0.5)

Date Sampled: 8/8/2012 10:20:00

Sample Type: Sediment

Lab Sample ID: 6750110-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	5.12			MG/KG	20	2.63	0.272	08/15/12	7471A	7471A MOD.	
MOISTURE	26.9			%	1	0.50	0.50	08/14/12	SM 2540 G		
TOTAL ORGANIC CARBON	6260			MG/KG	1	1660	554	08/20/12	LLOYD KAHN		
0.001 MM	1.0			% PASSII1		0.50	0.50	08/09/12	D422		
0.002 MM	1.0			% PASSII1		0.50	0.50	08/09/12	D422		
0.005 MM	1.5			% PASSII1		0.50	0.50	08/09/12	D422		
0.02 MM	3.0			% PASSII1		0.50	0.50	08/09/12	D422		
0.05 MM	3.0			% PASSII1		0.50	0.50	08/09/12	D422		
0.064 MM	3.0			% PASSII1		0.50	0.50	08/09/12	D422		
0.075 MM	3.6			% PASSII1		0.50	0.50	08/09/12	D422		
0.15 MM	7.3			% PASSII1		0.50	0.50	08/09/12	D422		
0.3 MM	25.8			% PASSII1		0.50	0.50	08/09/12	D422		
0.6 MM	47.3			% PASSII1		0.50	0.50	08/09/12	D422		
1.18 MM	60.2			% PASSII1		0.50	0.50	08/09/12	D422		
19 MM	100			% PASSII1		0.50	0.50	08/09/12	D422		
2.36 MM	71.2			% PASSII1		0.50	0.50	08/09/12	D422		
3.35 MM	74.9			% PASSII1		0.50	0.50	08/09/12	D422		
37.5 MM	100			% PASSII1		0.50	0.50	08/09/12	D422		
4.75 MM	78.8			% PASSII1		0.50	0.50	08/09/12	D422		
75 MM	100			% PASSII1		0.50	0.50	08/09/12	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:20

Project: WANAQUE SED & PORE WATER 8/12

Page 13 of 21

Reporting Limit: MDL

Location: WR-21C

Field Sample ID: POM-E-WR-21C(0.0-0.5)

Date Sampled: 8/8/2012 12:30:00

Sample Type: Sediment

Lab Sample ID: 6750111-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	2.68			MG/KG	5	0.821	0.0848	08/15/12	7471A	7471A MOD.	
MOISTURE	39.5			%	1	0.50	0.50	08/14/12	SM 2540 G		
TOTAL ORGANIC CARBON	4620			MG/KG	1	3930	1310	08/20/12	LLOYD KAHN		
0.001 MM	2.0			% PASSII1		0.50	0.50	08/09/12	D422		
0.002 MM	2.0			% PASSII1		0.50	0.50	08/09/12	D422		
0.005 MM	2.5			% PASSII1		0.50	0.50	08/09/12	D422		
0.02 MM	6.0			% PASSII1		0.50	0.50	08/09/12	D422		
0.05 MM	9.5			% PASSII1		0.50	0.50	08/09/12	D422		
0.064 MM	11.0			% PASSII1		0.50	0.50	08/09/12	D422		
0.075 MM	12.7			% PASSII1		0.50	0.50	08/09/12	D422		
0.15 MM	26.1			% PASSII1		0.50	0.50	08/09/12	D422		
0.3 MM	54.4			% PASSII1		0.50	0.50	08/09/12	D422		
0.6 MM	82.7			% PASSII1		0.50	0.50	08/09/12	D422		
1.18 MM	95.2			% PASSII1		0.50	0.50	08/09/12	D422		
19 MM	100			% PASSII1		0.50	0.50	08/09/12	D422		
2.36 MM	98.5			% PASSII1		0.50	0.50	08/09/12	D422		
3.35 MM	98.8			% PASSII1		0.50	0.50	08/09/12	D422		
37.5 MM	100			% PASSII1		0.50	0.50	08/09/12	D422		
4.75 MM	99.2			% PASSII1		0.50	0.50	08/09/12	D422		
75 MM	100			% PASSII1		0.50	0.50	08/09/12	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:20

Project: WANAQUE SED & PORE WATER 8/12

Page 14 of 21

Reporting Limit: MDL

Location: WR-22C

Field Sample ID: POM-E-WR-22C(0.0-0.5)

Date Sampled: 8/9/2012 08:20:00

Sample Type: Sediment

Lab Sample ID: 6750112-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis	Analytical Methods		
		LAB	DDR			PQL	MDL	Date	Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	2.84			MG/KG	10	1.34	0.139	08/15/12	7471A	7471A MOD.	
MOISTURE	25.6			%	1	0.50	0.50	08/14/12	SM 2540 G		
TOTAL ORGANIC CARBON	3080			MG/KG	1	1300	433	08/20/12	LLOYD KAHN		
0.001 MM	1.5			% PASSII1		0.50	0.50	08/09/12	D422		
0.002 MM	1.5			% PASSII1		0.50	0.50	08/09/12	D422		
0.005 MM	1.5			% PASSII1		0.50	0.50	08/09/12	D422		
0.02 MM	1.5			% PASSII1		0.50	0.50	08/09/12	D422		
0.05 MM	2.5			% PASSII1		0.50	0.50	08/09/12	D422		
0.064 MM	3.0			% PASSII1		0.50	0.50	08/09/12	D422		
0.075 MM	3.6			% PASSII1		0.50	0.50	08/09/12	D422		
0.15 MM	9.7			% PASSII1		0.50	0.50	08/09/12	D422		
0.3 MM	54.8			% PASSII1		0.50	0.50	08/09/12	D422		
0.6 MM	94.5			% PASSII1		0.50	0.50	08/09/12	D422		
1.18 MM	97.6			% PASSII1		0.50	0.50	08/09/12	D422		
19 MM	100			% PASSII1		0.50	0.50	08/09/12	D422		
2.36 MM	98.3			% PASSII1		0.50	0.50	08/09/12	D422		
3.35 MM	98.4			% PASSII1		0.50	0.50	08/09/12	D422		
37.5 MM	100			% PASSII1		0.50	0.50	08/09/12	D422		
4.75 MM	98.5			% PASSII1		0.50	0.50	08/09/12	D422		
75 MM	100			% PASSII1		0.50	0.50	08/09/12	D422		

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:20

Project: WANAQUE SED & PORE WATER 8/12

Page 15 of 21

Reporting Limit: MDL

Location: WR-22.1C

Field Sample ID: POM-E-WR-22.1C(0.0-0.5)

Date Sampled: 8/9/2012 08:45:00

Sample Type: Sediment

Lab Sample ID: 6750113-HG FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MERCURY	7.52	U		MG/KG	20	3.05	0.316	08/15/12	7471A	7471A MOD.	
MOISTURE	37.3		%	1	0.50	0.50	08/14/12	SM 2540 G			
TOTAL ORGANIC CARBON	8140		MG/KG	1	2740	912	08/20/12	LLOYD KAHN			
0.001 MM	< 0.50		% PASSII1		0.50	0.50	08/09/12	D422			
0.002 MM	0.50		% PASSII1		0.50	0.50	08/09/12	D422			
0.005 MM	1.5		% PASSII1		0.50	0.50	08/09/12	D422			
0.02 MM	4.0		% PASSII1		0.50	0.50	08/09/12	D422			
0.05 MM	3.5		% PASSII1		0.50	0.50	08/09/12	D422			
0.064 MM	1.5		% PASSII1		0.50	0.50	08/09/12	D422			
0.075 MM	0.85		% PASSII1		0.50	0.50	08/09/12	D422			
0.15 MM	11.5		% PASSII1		0.50	0.50	08/09/12	D422			
0.3 MM	47.5		% PASSII1		0.50	0.50	08/09/12	D422			
0.6 MM	86.7		% PASSII1		0.50	0.50	08/09/12	D422			
1.18 MM	95.0		% PASSII1		0.50	0.50	08/09/12	D422			
19 MM	100		% PASSII1		0.50	0.50	08/09/12	D422			
2.36 MM	95.4		% PASSII1		0.50	0.50	08/09/12	D422			
3.35 MM	96.6		% PASSII1		0.50	0.50	08/09/12	D422			
37.5 MM	100		% PASSII1		0.50	0.50	08/09/12	D422			
4.75 MM	98.0		% PASSII1		0.50	0.50	08/09/12	D422			
75 MM	100		% PASSII1		0.50	0.50	08/09/12	D422			

Location: WR-07

Field Sample ID: POM-Z-WR-07-DIS

Date Sampled: 8/7/2012 15:30:00

Sample Type: Other liquid

Lab Sample ID: 1232018-01-1 FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MONOMETHYL MERCURY	< 0.023	U		NG/L	1	0.058	0.023	08/17/12	EPA 1630	METHOD	
MERCURY	0.96		B	NG/L	1	0.42	0.16	08/16/12	EPA 1631	METHOD	

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:20

Project: WANAQUE SED & PORE WATER 8/12

Page 16 of 21

Reporting Limit: MDL

Location: WR-07.1B

Field Sample ID: POM-Z-WR-07.1B-DIS

Date Sampled: 8/7/2012 16:00:00

Sample Type: Other liquid

Lab Sample ID: 1232018-02-1 FS

Analyte/Parameter	Result	Qualifiers			Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR	Unit		PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MONOMETHYL MERCURY	< 0.024	U		NG/L	1	0.059	0.024	08/17/12	EPA 1630	METHOD	
MERCURY	1.29		B	NG/L	1	0.4	0.15	08/16/12	EPA 1631	METHOD	

Location: WR-08

Field Sample ID: POM-Z-WR-08-DIS

Date Sampled: 8/7/2012 16:45:00

Sample Type: Other liquid

Lab Sample ID: 1232018-03-1 FS

Analyte/Parameter	Result	Qualifiers			Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR	Unit		PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MONOMETHYL MERCURY	0.048	B	J	NG/L	1	0.06	0.024	08/17/12	EPA 1630	METHOD	
MERCURY	1.49		B	NG/L	1	0.42	0.16	08/16/12	EPA 1631	METHOD	

Location: WR-08.1B

Field Sample ID: POM-Z-WR-08.1B-DIS

Date Sampled: 8/7/2012 17:00:00

Sample Type: Other liquid

Lab Sample ID: 1232018-04-1 FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MONOMETHYL MERCURY	0.038	B	J	NG/L	1	0.06	0.024	08/17/12	EPA 1630	METHOD	
MERCURY	2.64		B	NG/L	1	0.43	0.16	08/16/12	EPA 1631	METHOD	

Location: WR-13.1C

Field Sample ID: POM-Z-WR-13.1C-DIS

Date Sampled: 8/7/2012 09:20:00

Sample Type: Other liquid

Lab Sample ID: 1232018-05-1 FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MONOMETHYL MERCURY	0.425			NG/L	1	0.067	0.027	08/17/12	EPA 1630	METHOD	
MERCURY	9.75	B		NG/L	2	0.81	0.31	08/16/12	EPA 1631	METHOD	

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:20

Project: WANAQUE SED & PORE WATER 8/12

Page 17 of 21

Reporting Limit: MDL

Location: WR-14

Field Sample ID: POM-Z-WR-14-DIS

Date Sampled: 8/7/2012 09:50:00

Sample Type: Other liquid

Lab Sample ID: 1232018-06-1 FS

Analyte/Parameter	Result	Qualifiers			Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR	Unit		PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MONOMETHYL MERCURY	1.15			NG/L	1	0.058	0.023	08/17/12	EPA 1630	METHOD	
MERCURY	21.4		B	NG/L	5	1.99	0.75	08/16/12	EPA 1631	METHOD	

Location: WR-14B

Field Sample ID: POM-Z-WR-14B-DIS

Date Sampled: 8/7/2012 10:20:00

Sample Type: Other liquid

Lab Sample ID: 1232018-07-1 FS

Analyte/Parameter	Result	Qualifiers			Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR	Unit		PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MONOMETHYL MERCURY	0.427			NG/L	1	0.057	0.023	08/17/12	EPA 1630	METHOD	
MERCURY	5570			NG/L	101	40.4	15.2	08/16/12	EPA 1631	METHOD	

Location: WR-14C

Field Sample ID: POM-Z-WR-14C-DIS

Date Sampled: 8/7/2012 10:45:00

Sample Type: Other liquid

Lab Sample ID: 1232018-08-1 FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MONOMETHYL MERCURY	0.387			NG/L	1	0.058	0.023	08/17/12	EPA 1630	METHOD	
MERCURY	272			NG/L	101	40.4	15.2	08/16/12	EPA 1631	METHOD	

Location: WR-14.8A

Field Sample ID: POM-Z-WR-14.8A-DIS

Date Sampled: 8/7/2012 11:20:00

Sample Type: Other liquid

Lab Sample ID: 1232018-09-1 FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MONOMETHYL MERCURY	2.75			NG/L	1	0.064	0.026	08/17/12	EPA 1630	METHOD	
MERCURY	11.1		B	NG/L	2	0.81	0.3	08/16/12	EPA 1631	METHOD	

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:20

Project: WANAQUE SED & PORE WATER 8/12

Page 18 of 21

Reporting Limit: MDL

Location: WR-15.2A

Field Sample ID: POM-Z-WR-15.2A-DIS

Date Sampled: 8/7/2012 12:10:00

Sample Type: Other liquid

Lab Sample ID: 1232018-10-1 FS

Analyte/Parameter	Result	Qualifiers			Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR	Unit		PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MONOMETHYL MERCURY	0.437			NG/L	1	0.059	0.024	08/17/12	EPA 1630	METHOD	
MERCURY	12.3	B		NG/L	2	0.81	0.3	08/16/12	EPA 1631	METHOD	

Location: WR-15.2B

Field Sample ID: POM-Z-WR-15.2B-DIS

Date Sampled: 8/7/2012 12:25:00

Sample Type: Other liquid

Lab Sample ID: 1232018-11-1 FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MONOMETHYL MERCURY	0.428			NG/L	1	0.061	0.024	08/17/12	EPA 1630	METHOD	
MERCURY	31.3			NG/L	5	1.93	0.72	08/16/12	EPA 1631	METHOD	

Location: WR-15.2C

Field Sample ID: POM-Z-WR-15.2C-DIS

Date Sampled: 8/7/2012 12:45:00

Sample Type: Other liquid

Lab Sample ID: 1232018-12-1 FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MONOMETHYL MERCURY	0.201			NG/L	1	0.057	0.023	08/17/12	EPA 1630	METHOD	
MERCURY	10.1	B		NG/L	2	0.81	0.3	08/16/12	EPA 1631	METHOD	

Location: WR-15.3A

Field Sample ID: POM-Z-WR-15.3A-DIS

Date Sampled: 8/7/2012 13:10:00

Sample Type: Other liquid

Lab Sample ID: 1232018-13-1 FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MONOMETHYL MERCURY	0.533			NG/L	1	0.06	0.024	08/17/12	EPA 1630	METHOD	
MERCURY	22.8	B		NG/L	5	2.09	0.78	08/16/12	EPA 1631	METHOD	

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:20

Project: WANAQUE SED & PORE WATER 8/12

Page 19 of 21

Reporting Limit: MDL

Location: WR-15.4AB

Field Sample ID: POM-Z-WR-15.4AB-DIS

Date Sampled: 8/7/2012 13:30:00

Sample Type: Other liquid

Lab Sample ID: 1232018-14-1 FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
Analytes											
MONOMETHYL MERCURY	0.055	B	J	NG/L	1	0.06	0.024	08/17/12	EPA 1630	METHOD	
MERCURY	437			NG/L	20	8.08	3.03	08/16/12	EPA 1631	METHOD	

Location: WR-15.4C

Field Sample ID: POM-Z-WR-15.4C-DIS

Date Sampled: 8/7/2012 13:50:00

Sample Type: Other liquid

Lab Sample ID: 1232018-15-1 FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
Analytes											
MONOMETHYL MERCURY	0.592			NG/L	1	0.06	0.024	08/17/12	EPA 1630	METHOD	
MERCURY	9.66		B	NG/L	2	0.81	0.3	08/16/12	EPA 1631	METHOD	

Location: WR-15.4C

Field Sample ID: POM-Z-WR-15.4C-DIS-DUP

Date Sampled: 8/7/2012 13:55:00

Sample Type: Other liquid

Lab Sample ID: 1232018-16-1 FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MONOMETHYL MERCURY	0.415			NG/L	1	0.062	0.025	08/17/12	EPA 1630	METHOD	
MERCURY	23.6			NG/L	2	0.79	0.3	08/16/12	EPA 1631	METHOD	

Location: EQBLK-1

Field Sample ID: POM-K-EQBLK-1

Date Sampled: 8/7/2012 18:45:00

Sample Type: Blank Water

Lab Sample ID: 1232018-17-1 FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MONOMETHYL MERCURY	< 0.023	U		NG/L	1	0.057	0.023	08/17/12	EPA 1630	METHOD	
MERCURY	2.37			NG/L	1	0.41	0.15	08/17/12	EPA 1631	METHOD	

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:20

Project: WANAQUE SED & PORE WATER 8/12

Page 20 of 21

Reporting Limit: MDL

Location: WR-19C

Field Sample ID: POM-Z-WR-19C-DIS

Date Sampled: 8/8/2012 08:45:00

Sample Type: Other liquid

Lab Sample ID: 1232018-18-1 FS

Analyte/Parameter	Result	Qualifiers			Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR	Unit		PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MONOMETHYL MERCURY	1.85			NG/L	1	0.057	0.023	08/17/12	EPA 1630	METHOD	
MERCURY	7.05		B	NG/L	2	0.75	0.28	08/17/12	EPA 1631	METHOD	

Location: WR-19

Field Sample ID: POM-Z-WR-19-DIS

Date Sampled: 8/8/2012 09:05:00

Sample Type: Other liquid

Lab Sample ID: 1232018-19-1 FS

Analyte/Parameter	Result	Qualifiers			Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR	Unit		PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MONOMETHYL MERCURY	9.22			NG/L	1	0.058	0.023	08/17/12	EPA 1630	METHOD	
MERCURY	44.5			NG/L	10	4.04	1.52	08/17/12	EPA 1631	METHOD	

Location: WR-20

Field Sample ID: POM-Z-WR-20-DIS

Date Sampled: 8/8/2012 10:50:00

Sample Type: Other liquid

Lab Sample ID: 1232018-20-1 FS

Analyte/Parameter	Result	Qualifiers			Unit	Dil.	Detection Limit		Analysis	Analytical Methods		
		LAB	DDR				PQL	MDL	Date	Analysis-	Prep-	Preprep-
<u>Analytes</u>												
MONOMETHYL MERCURY	< 0.025	U			NG/L	1	0.063	0.025	08/17/12	EPA 1630	METHOD	
MERCURY	1.08		B		NG/L	2	0.61	0.23	08/17/12	EPA 1631	METHOD	

Location: WR-21C

Field Sample ID: POM-Z-WR-21C-DIS

Date Sampled: 8/8/2012 12:15:00

Sample Type: Other liquid

Lab Sample ID: 1232018-21-1 FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MONOMETHYL MERCURY	0.197			NG/L	1	0.059	0.024	08/17/12	EPA 1630	METHOD	
MERCURY	1.4		B	NG/L	2	0.61	0.23	08/17/12	EPA 1631	METHOD	

**Corporate Environmental Database
Lab Analysis Report
with Laboratory and DDR Qualifiers**

Site: POM - POMPTON LAKES WORKS

9/10/2012 15:20:20

Project: WANAQUE SED & PORE WATER 8/12

Page 21 of 21

Reporting Limit: MDL

Location: WR-21B

Field Sample ID: POM-Z-WR-21B-DIS

Date Sampled: 8/8/2012 12:00:00

Sample Type: Other liquid

Lab Sample ID: 1232018-22-1 FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
Analytes											
MONOMETHYL MERCURY	0.13			NG/L	1	0.06	0.024	08/17/12	EPA 1630	METHOD	
MERCURY	2.38		B	NG/L	2	0.63	0.24	08/17/12	EPA 1631	METHOD	

Location: WR-22C

Field Sample ID: POM-Z-WR-22C-DIS

Date Sampled: 8/8/2012 13:45:00

Sample Type: Other liquid

Lab Sample ID: 1232018-23-1 FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis Date	Analytical Methods		
		LAB	DDR			PQL	MDL		Analysis-	Prep-	Preprep-
Analytes											
MONOMETHYL MERCURY	0.749			NG/L	1	0.055	0.022	08/17/12	EPA 1630	METHOD	
MERCURY	25.9			NG/L	2	0.7	0.26	08/17/12	EPA 1631	METHOD	

Location: EQBLK-2

Field Sample ID: POM-K-EQBLK-2

Date Sampled: 8/8/2012 16:45:00

Sample Type: Blank Water

Lab Sample ID: 1232018-24-1 FS

Analyte/Parameter	Result	Qualifiers		Unit	Dil.	Detection Limit		Analysis	Analytical Methods		
		LAB	DDR			PQL	MDL	Date	Analysis-	Prep-	Preprep-
<u>Analytes</u>											
MONOMETHYL MERCURY	< 0.025	U		NG/L	1	0.062	0.025	08/17/12	EPA 1630	METHOD	
MERCURY	1.23			NG/L	1	0.4	0.15	08/17/12	EPA 1631	METHOD	

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE SED & PORE WATER 8/12

9/10/2012
Page 1 of 14

Batch Identifier 333800 SM 5310 C 14-AUG-12 12227049502A 12177

Method Number: SM 5310 C Prep Method: Pre-prep:
Batch Start Date: 08/14/2012 Intrument: 12177

					<u>RPR Limits</u>			RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: P22749BQQ-TOC LCS			Lab: LANCAS	101	91	113		
TOTAL ORGANIC CARBON		25.2	MG/L	0.50	1.0					
Sample Type	MB	Lab Sample ID: P22749BBB-TOC MB			Lab: LANCAS					
TOTAL ORGANIC CARBON		< 0.50	MG/L	0.50	1.0	107	63	142		
Sample Type	MS	Lab Sample ID: P750962-TOC MS			Lab: LANCAS					
TOTAL ORGANIC CARBON		12.6	MG/L	0.50	1.0					
Sample Type	REP	Lab Sample ID: P750962-TOC REP			Lab: LANCAS				20	4
TOTAL ORGANIC CARBON		2.3	MG/L	0.50	1.0					

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-K-EQBLK-2	8/8/2012	6750114-TOC EB	LANCAS
POM-K-EQBLK-3	8/9/2012	6750115-TOC EB	LANCAS

Batch Identifier 333614 METHOD 7470A 08-AUG-12 122215713001 17384

Method Number: 7470A Prep Method: METHOD Pre-prep:
Batch Start Date: 08/08/2012 Intrument: 17384

						RPR Limits		RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: P22113AQQ-HG	LCS		Lab: LANCAS					
MERCURY		0.0011	MG/L	0.0000081	0.00020	106	80	120		
Sample Type	MB	Lab Sample ID: P22113ABB-HG	MB		Lab: LANCAS					
MERCURY		0.000012	MG/L	0.0000081	0.00020					
Sample Type	MS	Lab Sample ID: P745477-HG	MS		Lab: LANCAS					
MERCURY		0.0010	MG/L	0.0000081	0.00020	103	80	120		
Sample Type	MSD	Lab Sample ID: P745477-HG	MSD		Lab: LANCAS					
MERCURY		0.0010	MG/L	0.0000081	0.00020	99	80	120	3	20
Sample Type	REP	Lab Sample ID: P745477-HG	REP		Lab: LANCAS					
MERCURY		0.000011	MG/L	0.0000081	0.00020				24	20

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-K-EQBLK-1	8/6/2012	6746273-HG EB	LANCAS

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE SED & PORE WATER 8/12

9/10/2012
Page 2 of 14

Batch Identifier 333615 SM 5310 C 09-AUG-12 12222049502A 12177

Method Number: SM 5310 C Prep Method: Pre-prep:
Batch Start Date: 08/09/2012 Instrument: 12177

						RPR Limits		RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: P22249BQQ-TOC LCS			Lab: LANCAS					
TOTAL ORGANIC CARBON		25.3	MG/L	0.50	1.0	101	91	113		
Sample Type	MB	Lab Sample ID: P22249BBB-TOC MB			Lab: LANCAS					
TOTAL ORGANIC CARBON		< 0.50	MG/L	0.50	1.0					
Sample Type	MS	Lab Sample ID: P745730-TOC MS			Lab: LANCAS					
TOTAL ORGANIC CARBON		19.7	MG/L	0.50	1.0	93	63	142		
Sample Type	REP	Lab Sample ID: P745730-TOC REP			Lab: LANCAS					
TOTAL ORGANIC CARBON		9.8	MG/L	0.50	1.0				5	4

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-K-EQBLK-1	8/6/2012	6746273-TOC EB	LANCAS

Batch Identifier 333618 SM 2540 G 09-AUG-12 12222820001B 9001

Method Number: SM 2540 G Prep Method: Pre-prep:
Batch Start Date: 08/09/2012 Instrument: 9001

						<u>RPR Limits</u>		RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: LC22211Q-MOIST LCS			Lab: LANCAS					
MOISTURE		89.5	%	0.50	0.50	100	99	101		
Sample Type	REP	Lab Sample ID: 6746268-MOIST REP			Lab: LANCAS					
MOISTURE		44.1	%	0.50	0.50				9	13

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR-13.1C(0.0-0.5)	8/6/2012	6746261-MOIST FS	LANCAS
POM-E-WR-13.2C(0.0-0.5)	8/6/2012	6746262-MOIST FS	LANCAS
POM-E-WR-13.8C(0.0-0.5)	8/6/2012	6746263-MOIST FS	LANCAS
POM-E-WR-14.2C(0.0-0.5)	8/6/2012	6746264-MOIST FS	LANCAS
POM-E-WR-14.8A(0.0-0.5)	8/6/2012	6746265-MOIST FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)	8/6/2012	6746266-MOIST FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)-DUP	8/6/2012	6746267-MOIST FS	LANCAS
POM-E-WR-19.1C(0.0-0.5)	8/6/2012	6746272-MOIST FS	LANCAS
POM-E-WR-19C(0.0-0.5)	8/6/2012	6746268-MOIST FS	LANCAS

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE SED & PORE WATER 8/12

9/10/2012
Page 3 of 14

Batch Identifier 333619 LLOYD KAHN 09-AUG-12 12222049531A 08610

Method Number: LLOYD KAHN Prep Method: Pre-prep:
Batch Start Date: 08/09/2012 Intrument: 08610

Analyte/Parameter	Result	Unit	MDL	PQL	RPR	RPR Limits		RPD	RPD Max
						Min	Max		
Sample Type LCS	Lab Sample ID: Q746268Q-TOC LCS			Lab: LANCAS					
TOTAL ORGANIC CARBON	12900	MG/KG	1380	4150	97	22	139		
Sample Type MB	Lab Sample ID: B746268B-TOC MB			Lab: LANCAS					
TOTAL ORGANIC CARBON	< 100	MG/KG	100	300					
Sample Type MS	Lab Sample ID: 6746268-TOC MS			Lab: LANCAS					
TOTAL ORGANIC CARBON	25100	MG/KG	824	2470	61	22	155		
Sample Type REP	Lab Sample ID: 6746268-TOC REP			Lab: LANCAS					
TOTAL ORGANIC CARBON	10900	MG/KG	610	1830				7	15

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR-13.1C(0.0-0.5)	8/6/2012	6746261-TOC FS	LANCAS
POM-E-WR-13.2C(0.0-0.5)	8/6/2012	6746262-TOC FS	LANCAS
POM-E-WR-13.8C(0.0-0.5)	8/6/2012	6746263-TOC FS	LANCAS
POM-E-WR-14.2C(0.0-0.5)	8/6/2012	6746264-TOC FS	LANCAS
POM-E-WR-14.8A(0.0-0.5)	8/6/2012	6746265-TOC FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)	8/6/2012	6746266-TOC FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)-DUP	8/6/2012	6746267-TOC FS	LANCAS
POM-E-WR-19C(0.0-0.5)	8/6/2012	6746268-TOC FS	LANCAS

Batch Identifier 333620 7471A MOD. 7471A 08-AUG-12 122215711001 19302

Method Number: 7471A Prep Method: 7471A MOD. Pre-prep:
Batch Start Date: 08/08/2012 Intrument: 19302

Analyte/Parameter	Result	Unit	MDL	PQL	RPR	RPR Limits		RPD	RPD Max
						Min	Max		
Sample Type LCS	Lab Sample ID: P22111AQQ-HG LCS			Lab: LANCAS					
MERCURY	0.101	MG/KG	0.0062	0.0600	101	80	120		
Sample Type MB	Lab Sample ID: P22111ABB-HG MB			Lab: LANCAS					
MERCURY	< 0.0101	MG/KG	0.0101	0.0975					
Sample Type MS	Lab Sample ID: 6746268-HG MS			Lab: LANCAS					
MERCURY	4.62	MG/KG	0.197	1.91	NC	80	120	NC	
Sample Type MSD	Lab Sample ID: 6746268-HG MSD			Lab: LANCAS					
MERCURY	5.22	MG/KG	0.200	1.94	NC	80	120	NC	20
Sample Type REP	Lab Sample ID: 6746268-HG REP			Lab: LANCAS					
MERCURY	4.20	MG/KG	0.198	1.92				9	20

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR-13.1C(0.0-0.5)	8/6/2012	6746261-HG FS	LANCAS
POM-E-WR-13.2C(0.0-0.5)	8/6/2012	6746262-HG FS	LANCAS
POM-E-WR-13.8C(0.0-0.5)	8/6/2012	6746263-HG FS	LANCAS
POM-E-WR-14.2C(0.0-0.5)	8/6/2012	6746264-HG FS	LANCAS
POM-E-WR-14.8A(0.0-0.5)	8/6/2012	6746265-HG FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)	8/6/2012	6746266-HG FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)-DUP	8/6/2012	6746267-HG FS	LANCAS
POM-E-WR-19.1C(0.0-0.5)	8/6/2012	6746272-HG FS	LANCAS
POM-E-WR-19C(0.0-0.5)	8/6/2012	6746268-HG FS	LANCAS

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE SED & PORE WATER 8/12

9/10/2012
Page 4 of 14

Batch Identifier 333621 LLOYD KAHN 12-AUG-12 12224049531A 08610

Method Number: LLOYD KAHN Prep Method: Pre-prep:
Batch Start Date: 08/12/2012 Intrument: 08610

					<u>RPR Limits</u>			RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: Q746272Q-TOC LCS			Lab: LANCAS	98	22	139		
TOTAL ORGANIC CARBON		13000	MG/KG	1390	4160					
Sample Type	MB	Lab Sample ID: B746272B-TOC MB			Lab: LANCAS					
TOTAL ORGANIC CARBON		< 100	MG/KG	100	300	33	22	155		
Sample Type	MS	Lab Sample ID: 6746272-TOC MS			Lab: LANCAS					
TOTAL ORGANIC CARBON		28400	MG/KG	1990	5960					
Sample Type	REP	Lab Sample ID: 6746272-TOC REP			Lab: LANCAS				30	15
TOTAL ORGANIC CARBON		6370	MG/KG	651	1950					

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR-19.1C(0.0-0.5)	8/6/2012	6746272-TOC FS	LANCAS

Batch Identifier 333766 7471A MOD. 7471A 14-AUG-12 122265711002 19302

Method Number: 7471A Prep Method: 7471A MOD. Pre-prep:
Batch Start Date: 08/14/2012 Intrument: 19302

						RPR Limits		RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: P22611BQQ-HG LCS			Lab: LANCAS	106	80	120		
MERCURY		0.106	MG/KG	0.0062	0.0600					
Sample Type	MB	Lab Sample ID: P22611BBB-HG MB			Lab: LANCAS	88	80	120		
MERCURY		0.0128	MG/KG	0.0102	0.0991					
Sample Type	MS	Lab Sample ID: 6750232-HG MS			Lab: LANCAS	90	80	120	0	20
MERCURY		0.380	MG/KG	0.010	0.0966					
Sample Type	MSD	Lab Sample ID: 6750232-HG MSD			Lab: LANCAS	13				
MERCURY		0.381	MG/KG	0.0098	0.0951					
Sample Type	REP	Lab Sample ID: 6750232-HG REP			Lab: LANCAS				13	20
MERCURY		0.270	MG/KG	0.0100	0.0972					

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR-19.6A(0.0-0.5)	8/8/2012	6750110-HG FS	LANCAS
POM-E-WR-21.1A(0.0-0.5)	8/8/2012	6750106-HG FS	LANCAS
POM-E-WR-21B(0.0-0.5)	8/8/2012	6750107-HG FS	LANCAS
POM-E-WR-21B(0.5-1.0)	8/8/2012	6750108-HG FS	LANCAS
POM-E-WR-21B(1.0-1.5)	8/8/2012	6750109-HG FS	LANCAS
POM-E-WR-21C(0.0-0.5)	8/8/2012	6750111-HG FS	LANCAS
POM-E-WR-22.1C(0.0-0.5)	8/9/2012	6750113-HG FS	LANCAS
POM-E-WR-22C(0.0-0.5)	8/9/2012	6750112-HG FS	LANCAS

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE SED & PORE WATER 8/12

9/10/2012
Page 5 of 14

Batch Identifier 333767 SM 2540 G 14-AUG-12 12227820002A 9001

Method Number: SM 2540 G Prep Method: Pre-prep:
Batch Start Date: 08/14/2012 Instrument: 9001

						<u>RPR Limits</u>		RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: LC22712Q-MOIST LCS			Lab: LANCAS					
MOISTURE		89.2	%	0.50	0.50	100	99	101		
Sample Type	REP	Lab Sample ID: P749150-MOIST REP			Lab: LANCAS					
MOISTURE		16.9	%	0.50	0.50				5	13

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR-19.6A(0.0-0.5)	8/8/2012	6750110-MOIST FS	LANCAS
POM-E-WR-21.1A(0.0-0.5)	8/8/2012	6750106-MOIST FS	LANCAS
POM-E-WR-21B(0.0-0.5)	8/8/2012	6750107-MOIST FS	LANCAS
POM-E-WR-21B(0.5-1.0)	8/8/2012	6750108-MOIST FS	LANCAS
POM-E-WR-21B(1.0-1.5)	8/8/2012	6750109-MOIST FS	LANCAS
POM-E-WR-21C(0.0-0.5)	8/8/2012	6750111-MOIST FS	LANCAS
POM-E-WR-22.1C(0.0-0.5)	8/9/2012	6750113-MOIST FS	LANCAS
POM-E-WR-22C(0.0-0.5)	8/9/2012	6750112-MOIST FS	LANCAS

Batch Identifier 333799 METHOD 7470A 10-AUG-12 122235713003 17384

Method Number: 7470A Prep Method: METHOD Pre-prep:
Batch Start Date: 08/10/2012 Instrument: 17384

						RPR Limits		RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: P22313CQ-Q-HG LCS			Lab: LANCAS					
MERCURY		0.0010	MG/L	0.0000081	0.00020	101	80	120		
Sample Type	MB	Lab Sample ID: P22313CBB-HG MB			Lab: LANCAS					
MERCURY		0.000077	MG/L	0.0000081	0.00020					
Sample Type	MS	Lab Sample ID: P749979-HG MS			Lab: LANCAS					
MERCURY		0.00096	MG/L	0.0000081	0.00020	86	80	120		
Sample Type	MSD	Lab Sample ID: P749979-HG MSD			Lab: LANCAS					
MERCURY		0.00097	MG/L	0.0000081	0.00020	87	80	120	1	20
Sample Type	REP	Lab Sample ID: P749979-HG REP			Lab: LANCAS					
MERCURY		0.000085	MG/L	0.0000081	0.00020				22	20

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-K-EQBLK-2	8/8/2012	6750114-HG EB	LANCAS
POM-K-EQBLK-3	8/9/2012	6750115-HG EB	LANCAS

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE SED & PORE WATER 8/12

9/10/2012
Page 6 of 14

Batch Identifier 333803 LLOYD KAHN 20-AUG-12 12233049531A 08610

Method Number: LLOYD KAHN	Prep Method:	Pre-prep:
Batch Start Date: 08/20/2012	Instrument: 08610	

Analyte/Parameter	Result	Unit	MDL	PQL	RPR	RPR Limits		RPD	RPD Max
						Min	Max		
Sample Type LCS	Lab Sample ID: Q750106Q-TOC LCS			Lab: LANCAS					
TOTAL ORGANIC CARBON	14000	MG/KG	1380	4140	105	22	139		
Sample Type MB	Lab Sample ID: B750106B-TOC MB			Lab: LANCAS					
TOTAL ORGANIC CARBON	< 100	MG/KG	100	300					
Sample Type MS	Lab Sample ID: 6750106-TOC MS			Lab: LANCAS					
TOTAL ORGANIC CARBON	63600	MG/KG	1540	4620	122	22	155		
Sample Type REP	Lab Sample ID: 6750106-TOC REP			Lab: LANCAS					
TOTAL ORGANIC CARBON	8030	MG/KG	917	2750				10	15

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR-19.6A(0.0-0.5)	8/8/2012	6750110-TOC FS	LANCAS
POM-E-WR-21.1A(0.0-0.5)	8/8/2012	6750106-TOC FS	LANCAS
POM-E-WR-21B(0.0-0.5)	8/8/2012	6750107-TOC FS	LANCAS
POM-E-WR-21B(0.5-1.0)	8/8/2012	6750108-TOC FS	LANCAS
POM-E-WR-21B(1.0-1.5)	8/8/2012	6750109-TOC FS	LANCAS
POM-E-WR-21C(0.0-0.5)	8/8/2012	6750111-TOC FS	LANCAS
POM-E-WR-22.1C(0.0-0.5)	8/9/2012	6750113-TOC FS	LANCAS
POM-E-WR-22C(0.0-0.5)	8/9/2012	6750112-TOC FS	LANCAS

**Corporate Environmental Database
Lab Analysis QA/QC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE SED & PORE WATER 8/12

9/10/2012
Page 7 of 14

Batch Identifier 334325 D422 07-AUG-12 12220710301A 9458

Method Number: D422	Prep Method:	Pre-prep:
Batch Start Date: 08/07/2012	Instrument: 9458	

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR-13.1C(0.0-0.5)	8/6/2012	6746274-GS.001mm FS	LANCAS
POM-E-WR-13.1C(0.0-0.5)	8/6/2012	6746274-GS.002mm FS	LANCAS
POM-E-WR-13.1C(0.0-0.5)	8/6/2012	6746274-GS.005mm FS	LANCAS
POM-E-WR-13.1C(0.0-0.5)	8/6/2012	6746274-GS.02mm FS	LANCAS
POM-E-WR-13.1C(0.0-0.5)	8/6/2012	6746274-GS.05mm FS	LANCAS
POM-E-WR-13.1C(0.0-0.5)	8/6/2012	6746274-GS.064mm FS	LANCAS
POM-E-WR-13.1C(0.0-0.5)	8/6/2012	6746274-GS.075mm FS	LANCAS
POM-E-WR-13.1C(0.0-0.5)	8/6/2012	6746274-GS.15mm FS	LANCAS
POM-E-WR-13.1C(0.0-0.5)	8/6/2012	6746274-GS.3mm FS	LANCAS
POM-E-WR-13.1C(0.0-0.5)	8/6/2012	6746274-GS.6mm FS	LANCAS
POM-E-WR-13.1C(0.0-0.5)	8/6/2012	6746274-GS1.18mm FS	LANCAS
POM-E-WR-13.1C(0.0-0.5)	8/6/2012	6746274-GS19mm FS	LANCAS
POM-E-WR-13.1C(0.0-0.5)	8/6/2012	6746274-GS2.36mm FS	LANCAS
POM-E-WR-13.1C(0.0-0.5)	8/6/2012	6746274-GS3.35mm FS	LANCAS
POM-E-WR-13.1C(0.0-0.5)	8/6/2012	6746274-GS37.5mm FS	LANCAS
POM-E-WR-13.1C(0.0-0.5)	8/6/2012	6746274-GS4.75mm FS	LANCAS
POM-E-WR-13.1C(0.0-0.5)	8/6/2012	6746274-GS75mm FS	LANCAS
POM-E-WR-13.2C(0.0-0.5)	8/6/2012	6746275-GS.001mm FS	LANCAS
POM-E-WR-13.2C(0.0-0.5)	8/6/2012	6746275-GS.002mm FS	LANCAS
POM-E-WR-13.2C(0.0-0.5)	8/6/2012	6746275-GS.005mm FS	LANCAS
POM-E-WR-13.2C(0.0-0.5)	8/6/2012	6746275-GS.02mm FS	LANCAS
POM-E-WR-13.2C(0.0-0.5)	8/6/2012	6746275-GS.05mm FS	LANCAS
POM-E-WR-13.2C(0.0-0.5)	8/6/2012	6746275-GS.064mm FS	LANCAS
POM-E-WR-13.2C(0.0-0.5)	8/6/2012	6746275-GS.075mm FS	LANCAS
POM-E-WR-13.2C(0.0-0.5)	8/6/2012	6746275-GS.15mm FS	LANCAS
POM-E-WR-13.2C(0.0-0.5)	8/6/2012	6746275-GS.3mm FS	LANCAS
POM-E-WR-13.2C(0.0-0.5)	8/6/2012	6746275-GS.6mm FS	LANCAS
POM-E-WR-13.2C(0.0-0.5)	8/6/2012	6746275-GS1.18mm FS	LANCAS
POM-E-WR-13.2C(0.0-0.5)	8/6/2012	6746275-GS19mm FS	LANCAS
POM-E-WR-13.2C(0.0-0.5)	8/6/2012	6746275-GS2.36mm FS	LANCAS
POM-E-WR-13.2C(0.0-0.5)	8/6/2012	6746275-GS3.35mm FS	LANCAS
POM-E-WR-13.2C(0.0-0.5)	8/6/2012	6746275-GS37.5mm FS	LANCAS
POM-E-WR-13.2C(0.0-0.5)	8/6/2012	6746275-GS4.75mm FS	LANCAS
POM-E-WR-13.2C(0.0-0.5)	8/6/2012	6746275-GS75mm FS	LANCAS
POM-E-WR-13.8C(0.0-0.5)	8/6/2012	6746276-GS.001mm FS	LANCAS
POM-E-WR-13.8C(0.0-0.5)	8/6/2012	6746276-GS.002mm FS	LANCAS
POM-E-WR-13.8C(0.0-0.5)	8/6/2012	6746276-GS.005mm FS	LANCAS
POM-E-WR-13.8C(0.0-0.5)	8/6/2012	6746276-GS.02mm FS	LANCAS
POM-E-WR-13.8C(0.0-0.5)	8/6/2012	6746276-GS.05mm FS	LANCAS
POM-E-WR-13.8C(0.0-0.5)	8/6/2012	6746276-GS.064mm FS	LANCAS
POM-E-WR-13.8C(0.0-0.5)	8/6/2012	6746276-GS.075mm FS	LANCAS
POM-E-WR-13.8C(0.0-0.5)	8/6/2012	6746276-GS.15mm FS	LANCAS
POM-E-WR-13.8C(0.0-0.5)	8/6/2012	6746276-GS.3mm FS	LANCAS
POM-E-WR-13.8C(0.0-0.5)	8/6/2012	6746276-GS.6mm FS	LANCAS
POM-E-WR-13.8C(0.0-0.5)	8/6/2012	6746276-GS1.18mm FS	LANCAS
POM-E-WR-13.8C(0.0-0.5)	8/6/2012	6746276-GS19mm FS	LANCAS
POM-E-WR-13.8C(0.0-0.5)	8/6/2012	6746276-GS2.36mm FS	LANCAS
POM-E-WR-13.8C(0.0-0.5)	8/6/2012	6746276-GS3.35mm FS	LANCAS
POM-E-WR-13.8C(0.0-0.5)	8/6/2012	6746276-GS37.5mm FS	LANCAS
POM-E-WR-13.8C(0.0-0.5)	8/6/2012	6746276-GS4.75mm FS	LANCAS
POM-E-WR-13.8C(0.0-0.5)	8/6/2012	6746276-GS75mm FS	LANCAS
POM-E-WR-14.2C(0.0-0.5)	8/6/2012	6746277-GS.001mm FS	LANCAS
POM-E-WR-14.2C(0.0-0.5)	8/6/2012	6746277-GS.002mm FS	LANCAS
POM-E-WR-14.2C(0.0-0.5)	8/6/2012	6746277-GS.005mm FS	LANCAS
POM-E-WR-14.2C(0.0-0.5)	8/6/2012	6746277-GS.02mm FS	LANCAS
POM-E-WR-14.2C(0.0-0.5)	8/6/2012	6746277-GS.05mm FS	LANCAS
POM-E-WR-14.2C(0.0-0.5)	8/6/2012	6746277-GS.064mm FS	LANCAS
POM-E-WR-14.2C(0.0-0.5)	8/6/2012	6746277-GS.075mm FS	LANCAS
POM-E-WR-14.2C(0.0-0.5)	8/6/2012	6746277-GS.15mm FS	LANCAS

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE SED & PORE WATER 8/12

9/10/2012
Page 8 of 14

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR-14.2C(0.0-0.5)	8/6/2012	6746277-GS.3mm FS	LANCAS
POM-E-WR-14.2C(0.0-0.5)	8/6/2012	6746277-GS.6mm FS	LANCAS
POM-E-WR-14.2C(0.0-0.5)	8/6/2012	6746277-GS1.18mm FS	LANCAS
POM-E-WR-14.2C(0.0-0.5)	8/6/2012	6746277-GS19mm FS	LANCAS
POM-E-WR-14.2C(0.0-0.5)	8/6/2012	6746277-GS2.36mm FS	LANCAS
POM-E-WR-14.2C(0.0-0.5)	8/6/2012	6746277-GS3.35mm FS	LANCAS
POM-E-WR-14.2C(0.0-0.5)	8/6/2012	6746277-GS37.5mm FS	LANCAS
POM-E-WR-14.2C(0.0-0.5)	8/6/2012	6746277-GS4.75mm FS	LANCAS
POM-E-WR-14.2C(0.0-0.5)	8/6/2012	6746277-GS75mm FS	LANCAS
POM-E-WR-14.8A(0.0-0.5)	8/6/2012	6746278-GS.001mm FS	LANCAS
POM-E-WR-14.8A(0.0-0.5)	8/6/2012	6746278-GS.002mm FS	LANCAS
POM-E-WR-14.8A(0.0-0.5)	8/6/2012	6746278-GS.005mm FS	LANCAS
POM-E-WR-14.8A(0.0-0.5)	8/6/2012	6746278-GS.02mm FS	LANCAS
POM-E-WR-14.8A(0.0-0.5)	8/6/2012	6746278-GS.05mm FS	LANCAS
POM-E-WR-14.8A(0.0-0.5)	8/6/2012	6746278-GS.064mm FS	LANCAS
POM-E-WR-14.8A(0.0-0.5)	8/6/2012	6746278-GS.075mm FS	LANCAS
POM-E-WR-14.8A(0.0-0.5)	8/6/2012	6746278-GS.15mm FS	LANCAS
POM-E-WR-14.8A(0.0-0.5)	8/6/2012	6746278-GS.3mm FS	LANCAS
POM-E-WR-14.8A(0.0-0.5)	8/6/2012	6746278-GS.6mm FS	LANCAS
POM-E-WR-14.8A(0.0-0.5)	8/6/2012	6746278-GS1.18mm FS	LANCAS
POM-E-WR-14.8A(0.0-0.5)	8/6/2012	6746278-GS19mm FS	LANCAS
POM-E-WR-14.8A(0.0-0.5)	8/6/2012	6746278-GS2.36mm FS	LANCAS
POM-E-WR-14.8A(0.0-0.5)	8/6/2012	6746278-GS3.35mm FS	LANCAS
POM-E-WR-14.8A(0.0-0.5)	8/6/2012	6746278-GS37.5mm FS	LANCAS
POM-E-WR-14.8A(0.0-0.5)	8/6/2012	6746278-GS4.75mm FS	LANCAS
POM-E-WR-14.8A(0.0-0.5)	8/6/2012	6746278-GS75mm FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)	8/6/2012	6746279-GS.001mm FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)	8/6/2012	6746279-GS.002mm FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)	8/6/2012	6746279-GS.005mm FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)	8/6/2012	6746279-GS.02mm FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)	8/6/2012	6746279-GS.05mm FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)	8/6/2012	6746279-GS.064mm FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)	8/6/2012	6746279-GS.075mm FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)	8/6/2012	6746279-GS.15mm FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)	8/6/2012	6746279-GS.3mm FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)	8/6/2012	6746279-GS.6mm FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)	8/6/2012	6746279-GS1.18mm FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)	8/6/2012	6746279-GS19mm FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)	8/6/2012	6746279-GS2.36mm FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)	8/6/2012	6746279-GS3.35mm FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)	8/6/2012	6746279-GS37.5mm FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)	8/6/2012	6746279-GS4.75mm FS	LANCAS
POM-E-WR-15.3A(0.0-0.5)	8/6/2012	6746279-GS75mm FS	LANCAS
POM-E-WR-19.1C(0.0-0.5)	8/6/2012	6746281-GS.001mm FS	LANCAS
POM-E-WR-19.1C(0.0-0.5)	8/6/2012	6746281-GS.064mm FS	LANCAS
POM-E-WR-19.1C(0.0-0.5)	8/6/2012	6746281-GS.15mm FS	LANCAS
POM-E-WR-19.1C(0.0-0.5)	8/6/2012	6746281-GS75mm FS	LANCAS
POM-E-WR-19.1C(0.0-0.5)	8/6/2012	6746281-GS4.75mm FS	LANCAS
POM-E-WR-19.1C(0.0-0.5)	8/6/2012	6746281-GS37.5mm FS	LANCAS
POM-E-WR-19.1C(0.0-0.5)	8/6/2012	6746281-GS3.35mm FS	LANCAS
POM-E-WR-19.1C(0.0-0.5)	8/6/2012	6746281-GS2.36mm FS	LANCAS
POM-E-WR-19.1C(0.0-0.5)	8/6/2012	6746281-GS19mm FS	LANCAS
POM-E-WR-19.1C(0.0-0.5)	8/6/2012	6746281-GS1.18mm FS	LANCAS
POM-E-WR-19.1C(0.0-0.5)	8/6/2012	6746281-GS.6mm FS	LANCAS
POM-E-WR-19.1C(0.0-0.5)	8/6/2012	6746281-GS.3mm FS	LANCAS
POM-E-WR-19.1C(0.0-0.5)	8/6/2012	6746281-GS.075mm FS	LANCAS
POM-E-WR-19.1C(0.0-0.5)	8/6/2012	6746281-GS.05mm FS	LANCAS
POM-E-WR-19.1C(0.0-0.5)	8/6/2012	6746281-GS.002mm FS	LANCAS
POM-E-WR-19.1C(0.0-0.5)	8/6/2012	6746281-GS.005mm FS	LANCAS
POM-E-WR-19.1C(0.0-0.5)	8/6/2012	6746281-GS.02mm FS	LANCAS
POM-E-WR-19C(0.0-0.5)	8/6/2012	6746280-GS.001mm FS	LANCAS
POM-E-WR-19C(0.0-0.5)	8/6/2012	6746280-GS.002mm FS	LANCAS
POM-E-WR-19C(0.0-0.5)	8/6/2012	6746280-GS.005mm FS	LANCAS
POM-E-WR-19C(0.0-0.5)	8/6/2012	6746280-GS.02mm FS	LANCAS

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE SED & PORE WATER 8/12

9/10/2012
Page 9 of 14

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR-19C(0.0-0.5)	8/6/2012	6746280-GS.05mm FS	LANCAS
POM-E-WR-19C(0.0-0.5)	8/6/2012	6746280-GS.064mm FS	LANCAS
POM-E-WR-19C(0.0-0.5)	8/6/2012	6746280-GS.075mm FS	LANCAS
POM-E-WR-19C(0.0-0.5)	8/6/2012	6746280-GS.15mm FS	LANCAS
POM-E-WR-19C(0.0-0.5)	8/6/2012	6746280-GS.3mm FS	LANCAS
POM-E-WR-19C(0.0-0.5)	8/6/2012	6746280-GS.6mm FS	LANCAS
POM-E-WR-19C(0.0-0.5)	8/6/2012	6746280-GS1.18mm FS	LANCAS
POM-E-WR-19C(0.0-0.5)	8/6/2012	6746280-GS19mm FS	LANCAS
POM-E-WR-19C(0.0-0.5)	8/6/2012	6746280-GS2.36mm FS	LANCAS
POM-E-WR-19C(0.0-0.5)	8/6/2012	6746280-GS3.35mm FS	LANCAS
POM-E-WR-19C(0.0-0.5)	8/6/2012	6746280-GS37.5mm FS	LANCAS
POM-E-WR-19C(0.0-0.5)	8/6/2012	6746280-GS4.75mm FS	LANCAS
POM-E-WR-19C(0.0-0.5)	8/6/2012	6746280-GS75mm FS	LANCAS

Corporate Environmental Database Lab Analysis QA/QC Report

Site: **POMPTON LAKES WORKS**
Project: **WANAQUE SED & PORE WATER 8/12**

9/10/2012
Page 10 of 14

Batch Identifier 334392 D422 09-AUG-12 12222710301A 9458

Method Number: D422 Prep Method: Pre-prep:
Batch Start Date: 08/09/2012 Intrument: 9458

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR-19.6A(0.0-0.5)	8/8/2012	6750139-GS.001mm FS	LANCAS
POM-E-WR-19.6A(0.0-0.5)	8/8/2012	6750139-GS.002mm FS	LANCAS
POM-E-WR-19.6A(0.0-0.5)	8/8/2012	6750139-GS.005mm FS	LANCAS
POM-E-WR-19.6A(0.0-0.5)	8/8/2012	6750139-GS.02mm FS	LANCAS
POM-E-WR-19.6A(0.0-0.5)	8/8/2012	6750139-GS.15mm FS	LANCAS
POM-E-WR-19.6A(0.0-0.5)	8/8/2012	6750139-GS.6mm FS	LANCAS
POM-E-WR-19.6A(0.0-0.5)	8/8/2012	6750139-GS19mm FS	LANCAS
POM-E-WR-19.6A(0.0-0.5)	8/8/2012	6750139-GS3.35mm FS	LANCAS
POM-E-WR-19.6A(0.0-0.5)	8/8/2012	6750139-GS4.75mm FS	LANCAS
POM-E-WR-19.6A(0.0-0.5)	8/8/2012	6750139-GS75mm FS	LANCAS
POM-E-WR-19.6A(0.0-0.5)	8/8/2012	6750139-GS37.5mm FS	LANCAS
POM-E-WR-19.6A(0.0-0.5)	8/8/2012	6750139-GS2.36mm FS	LANCAS
POM-E-WR-19.6A(0.0-0.5)	8/8/2012	6750139-GS1.18mm FS	LANCAS
POM-E-WR-19.6A(0.0-0.5)	8/8/2012	6750139-GS.3mm FS	LANCAS
POM-E-WR-19.6A(0.0-0.5)	8/8/2012	6750139-GS.075mm FS	LANCAS
POM-E-WR-19.6A(0.0-0.5)	8/8/2012	6750139-GS.064mm FS	LANCAS
POM-E-WR-19.6A(0.0-0.5)	8/8/2012	6750139-GS.05mm FS	LANCAS
POM-E-WR-21.1A(0.0-0.5)	8/8/2012	6750135-GS.001mm FS	LANCAS
POM-E-WR-21.1A(0.0-0.5)	8/8/2012	6750135-GS.002mm FS	LANCAS
POM-E-WR-21.1A(0.0-0.5)	8/8/2012	6750135-GS.005mm FS	LANCAS
POM-E-WR-21.1A(0.0-0.5)	8/8/2012	6750135-GS.02mm FS	LANCAS
POM-E-WR-21.1A(0.0-0.5)	8/8/2012	6750135-GS.05mm FS	LANCAS
POM-E-WR-21.1A(0.0-0.5)	8/8/2012	6750135-GS.064mm FS	LANCAS
POM-E-WR-21.1A(0.0-0.5)	8/8/2012	6750135-GS.075mm FS	LANCAS
POM-E-WR-21.1A(0.0-0.5)	8/8/2012	6750135-GS.15mm FS	LANCAS
POM-E-WR-21.1A(0.0-0.5)	8/8/2012	6750135-GS.3mm FS	LANCAS
POM-E-WR-21.1A(0.0-0.5)	8/8/2012	6750135-GS.6mm FS	LANCAS
POM-E-WR-21.1A(0.0-0.5)	8/8/2012	6750135-GS1.18mm FS	LANCAS
POM-E-WR-21.1A(0.0-0.5)	8/8/2012	6750135-GS19mm FS	LANCAS
POM-E-WR-21.1A(0.0-0.5)	8/8/2012	6750135-GS2.36mm FS	LANCAS
POM-E-WR-21.1A(0.0-0.5)	8/8/2012	6750135-GS3.35mm FS	LANCAS
POM-E-WR-21.1A(0.0-0.5)	8/8/2012	6750135-GS37.5mm FS	LANCAS
POM-E-WR-21.1A(0.0-0.5)	8/8/2012	6750135-GS4.75mm FS	LANCAS
POM-E-WR-21.1A(0.0-0.5)	8/8/2012	6750135-GS75mm FS	LANCAS
POM-E-WR-21B(0.5-1.0)	8/8/2012	6750137-GS.001mm FS	LANCAS
POM-E-WR-21B(0.5-1.0)	8/8/2012	6750137-GS.002mm FS	LANCAS
POM-E-WR-21B(0.5-1.0)	8/8/2012	6750137-GS.005mm FS	LANCAS
POM-E-WR-21B(0.5-1.0)	8/8/2012	6750137-GS.02mm FS	LANCAS
POM-E-WR-21B(0.5-1.0)	8/8/2012	6750137-GS.05mm FS	LANCAS
POM-E-WR-21B(0.5-1.0)	8/8/2012	6750137-GS.064mm FS	LANCAS
POM-E-WR-21B(0.5-1.0)	8/8/2012	6750137-GS.075mm FS	LANCAS
POM-E-WR-21B(0.5-1.0)	8/8/2012	6750137-GS.15mm FS	LANCAS
POM-E-WR-21B(0.5-1.0)	8/8/2012	6750137-GS.3mm FS	LANCAS
POM-E-WR-21B(0.5-1.0)	8/8/2012	6750137-GS.6mm FS	LANCAS
POM-E-WR-21B(0.5-1.0)	8/8/2012	6750137-GS1.18mm FS	LANCAS
POM-E-WR-21B(0.5-1.0)	8/8/2012	6750137-GS19mm FS	LANCAS
POM-E-WR-21B(0.5-1.0)	8/8/2012	6750137-GS2.36mm FS	LANCAS
POM-E-WR-21B(0.5-1.0)	8/8/2012	6750137-GS3.35mm FS	LANCAS
POM-E-WR-21B(0.5-1.0)	8/8/2012	6750137-GS37.5mm FS	LANCAS
POM-E-WR-21B(0.5-1.0)	8/8/2012	6750137-GS4.75mm FS	LANCAS
POM-E-WR-21B(0.5-1.0)	8/8/2012	6750137-GS75mm FS	LANCAS
POM-E-WR-21B(1.0-1.5)	8/8/2012	6750138-GS.001mm FS	LANCAS
POM-E-WR-21B(1.0-1.5)	8/8/2012	6750138-GS.002mm FS	LANCAS
POM-E-WR-21B(1.0-1.5)	8/8/2012	6750138-GS.005mm FS	LANCAS
POM-E-WR-21B(1.0-1.5)	8/8/2012	6750138-GS.02mm FS	LANCAS
POM-E-WR-21B(1.0-1.5)	8/8/2012	6750138-GS.05mm FS	LANCAS
POM-E-WR-21B(1.0-1.5)	8/8/2012	6750138-GS.064mm FS	LANCAS
POM-E-WR-21B(1.0-1.5)	8/8/2012	6750138-GS.075mm FS	LANCAS
POM-E-WR-21B(1.0-1.5)	8/8/2012	6750138-GS.15mm FS	LANCAS

**Corporate Environmental Database
Lab Analysis QA/QC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE SED & PORE WATER 8/12

9/10/2012
Page 11 of 14

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-E-WR-21B(1.0-1.5)	8/8/2012	6750138-GS.3mm FS	LANCAS
POM-E-WR-21B(1.0-1.5)	8/8/2012	6750138-GS.6mm FS	LANCAS
POM-E-WR-21B(1.0-1.5)	8/8/2012	6750138-GS1.18mm FS	LANCAS
POM-E-WR-21B(1.0-1.5)	8/8/2012	6750138-GS19mm FS	LANCAS
POM-E-WR-21B(1.0-1.5)	8/8/2012	6750138-GS2.36mm FS	LANCAS
POM-E-WR-21B(1.0-1.5)	8/8/2012	6750138-GS3.35mm FS	LANCAS
POM-E-WR-21B(1.0-1.5)	8/8/2012	6750138-GS37.5mm FS	LANCAS
POM-E-WR-21B(1.0-1.5)	8/8/2012	6750138-GS4.75mm FS	LANCAS
POM-E-WR-21B(1.0-1.5)	8/8/2012	6750138-GS75mm FS	LANCAS
POM-E-WR-21C(0.0-0.5)	8/8/2012	6750140-GS.001mm FS	LANCAS
POM-E-WR-21C(0.0-0.5)	8/8/2012	6750140-GS.002mm FS	LANCAS
POM-E-WR-21C(0.0-0.5)	8/8/2012	6750140-GS.005mm FS	LANCAS
POM-E-WR-21C(0.0-0.5)	8/8/2012	6750140-GS.02mm FS	LANCAS
POM-E-WR-21C(0.0-0.5)	8/8/2012	6750140-GS.05mm FS	LANCAS
POM-E-WR-21C(0.0-0.5)	8/8/2012	6750140-GS.064mm FS	LANCAS
POM-E-WR-21C(0.0-0.5)	8/8/2012	6750140-GS.075mm FS	LANCAS
POM-E-WR-21C(0.0-0.5)	8/8/2012	6750140-GS.15mm FS	LANCAS
POM-E-WR-21C(0.0-0.5)	8/8/2012	6750140-GS.3mm FS	LANCAS
POM-E-WR-21C(0.0-0.5)	8/8/2012	6750140-GS.6mm FS	LANCAS
POM-E-WR-21C(0.0-0.5)	8/8/2012	6750140-GS1.18mm FS	LANCAS
POM-E-WR-21C(0.0-0.5)	8/8/2012	6750140-GS19mm FS	LANCAS
POM-E-WR-21C(0.0-0.5)	8/8/2012	6750140-GS2.36mm FS	LANCAS
POM-E-WR-21C(0.0-0.5)	8/8/2012	6750140-GS3.35mm FS	LANCAS
POM-E-WR-21C(0.0-0.5)	8/8/2012	6750140-GS37.5mm FS	LANCAS
POM-E-WR-21C(0.0-0.5)	8/8/2012	6750140-GS4.75mm FS	LANCAS
POM-E-WR-21C(0.0-0.5)	8/8/2012	6750140-GS75mm FS	LANCAS
POM-E-WR-22.1C(0.0-0.5)	8/9/2012	6750142-GS.001mm FS	LANCAS
POM-E-WR-22.1C(0.0-0.5)	8/9/2012	6750142-GS.002mm FS	LANCAS
POM-E-WR-22.1C(0.0-0.5)	8/9/2012	6750142-GS.02mm FS	LANCAS
POM-E-WR-22.1C(0.0-0.5)	8/9/2012	6750142-GS.064mm FS	LANCAS
POM-E-WR-22.1C(0.0-0.5)	8/9/2012	6750142-GS.15mm FS	LANCAS
POM-E-WR-22.1C(0.0-0.5)	8/9/2012	6750142-GS75mm FS	LANCAS
POM-E-WR-22.1C(0.0-0.5)	8/9/2012	6750142-GS4.75mm FS	LANCAS
POM-E-WR-22.1C(0.0-0.5)	8/9/2012	6750142-GS37.5mm FS	LANCAS
POM-E-WR-22.1C(0.0-0.5)	8/9/2012	6750142-GS3.35mm FS	LANCAS
POM-E-WR-22.1C(0.0-0.5)	8/9/2012	6750142-GS2.36mm FS	LANCAS
POM-E-WR-22.1C(0.0-0.5)	8/9/2012	6750142-GS19mm FS	LANCAS
POM-E-WR-22.1C(0.0-0.5)	8/9/2012	6750142-GS1.18mm FS	LANCAS
POM-E-WR-22.1C(0.0-0.5)	8/9/2012	6750142-GS.6mm FS	LANCAS
POM-E-WR-22.1C(0.0-0.5)	8/9/2012	6750142-GS.3mm FS	LANCAS
POM-E-WR-22.1C(0.0-0.5)	8/9/2012	6750142-GS.075mm FS	LANCAS
POM-E-WR-22.1C(0.0-0.5)	8/9/2012	6750142-GS.05mm FS	LANCAS
POM-E-WR-22.1C(0.0-0.5)	8/9/2012	6750142-GS.005mm FS	LANCAS
POM-E-WR-22C(0.0-0.5)	8/9/2012	6750141-GS.001mm FS	LANCAS
POM-E-WR-22C(0.0-0.5)	8/9/2012	6750141-GS.002mm FS	LANCAS
POM-E-WR-22C(0.0-0.5)	8/9/2012	6750141-GS.005mm FS	LANCAS
POM-E-WR-22C(0.0-0.5)	8/9/2012	6750141-GS.02mm FS	LANCAS
POM-E-WR-22C(0.0-0.5)	8/9/2012	6750141-GS.05mm FS	LANCAS
POM-E-WR-22C(0.0-0.5)	8/9/2012	6750141-GS.064mm FS	LANCAS
POM-E-WR-22C(0.0-0.5)	8/9/2012	6750141-GS.075mm FS	LANCAS
POM-E-WR-22C(0.0-0.5)	8/9/2012	6750141-GS.15mm FS	LANCAS
POM-E-WR-22C(0.0-0.5)	8/9/2012	6750141-GS.3mm FS	LANCAS
POM-E-WR-22C(0.0-0.5)	8/9/2012	6750141-GS.6mm FS	LANCAS
POM-E-WR-22C(0.0-0.5)	8/9/2012	6750141-GS1.18mm FS	LANCAS
POM-E-WR-22C(0.0-0.5)	8/9/2012	6750141-GS19mm FS	LANCAS
POM-E-WR-22C(0.0-0.5)	8/9/2012	6750141-GS2.36mm FS	LANCAS
POM-E-WR-22C(0.0-0.5)	8/9/2012	6750141-GS3.35mm FS	LANCAS
POM-E-WR-22C(0.0-0.5)	8/9/2012	6750141-GS37.5mm FS	LANCAS
POM-E-WR-22C(0.0-0.5)	8/9/2012	6750141-GS4.75mm FS	LANCAS
POM-E-WR-22C(0.0-0.5)	8/9/2012	6750141-GS75mm FS	LANCAS

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE SED & PORE WATER 8/12

9/10/2012
Page 12 of 14

Batch Identifier 334673 **METHOD** EPA 1630 14-AUG-12 B121370 MMHG-09

Method Number: EPA 1630 Prep Method: METHOD Pre-prep:
Batch Start Date: 08/14/2012 Intrument: MMHG-09

					RPR Limits			RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: B121370-BS1-1	LCS		Lab: BRL					
MONOMETHYL MERCURY		1.002	NG/L	0.023	0.058	99	67	133		
Sample Type	LCS	Lab Sample ID: B121370-BS2-1	LCS		Lab: BRL					
MONOMETHYL MERCURY		1.088	NG/L	0.023	0.058	110	67	133		
Sample Type	MB	Lab Sample ID: B121370-BLK1-1	MB		Lab: BRL					
MONOMETHYL MERCURY		< 0.022	NG/L	0.022	0.055					
Sample Type	MB	Lab Sample ID: B121370-BLK2-1	MB		Lab: BRL					
MONOMETHYL MERCURY		< 0.022	NG/L	0.022	0.055					
Sample Type	MB	Lab Sample ID: B121370-BLK3-1	MB		Lab: BRL					
MONOMETHYL MERCURY		< 0.022	NG/L	0.022	0.055					
Sample Type	MB	Lab Sample ID: B121370-BLK4-1	MB		Lab: BRL					
MONOMETHYL MERCURY		< 0.022	NG/L	0.022	0.055					
Sample Type	MS	Lab Sample ID: B121370-MS1-1	MS		Lab: BRL					
MONOMETHYL MERCURY		1.405	NG/L	0.022	0.055	102	65	135		
Sample Type	MS	Lab Sample ID: B121370-MS2-1	MS		Lab: BRL					
MONOMETHYL MERCURY		1.529	NG/L	0.023	0.058	99	65	135		
Sample Type	MS	Lab Sample ID: B121370-MS3-1	MS		Lab: BRL					
MONOMETHYL MERCURY		0.978	NG/L	0.023	0.059	107	65	135		
Sample Type	MSD	Lab Sample ID: B121370-MSD1-1	MSD		Lab: BRL					
MONOMETHYL MERCURY		1.35	NG/L	0.023	0.057	95	65	135	4	35
Sample Type	MSD	Lab Sample ID: B121370-MSD2-1	MSD		Lab: BRL					
MONOMETHYL MERCURY		1.636	NG/L	0.022	0.055	111	65	135	7	35
Sample Type	MSD	Lab Sample ID: B121370-MSD3-1	MSD		Lab: BRL					
MONOMETHYL MERCURY		0.978	NG/L	0.023	0.057	107	65	135	0	35

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-K-EQBLK-1	8/7/2012	1232018-17-1 FS	BRL
POM-K-EQBLK-2	8/8/2012	1232018-24-1 FS	BRL
POM-Z-WR-07-DIS	8/7/2012	1232018-01-1 FS	BRL
POM-Z-WR-07.1B-DIS	8/7/2012	1232018-02-1 FS	BRL
POM-Z-WR-08-DIS	8/7/2012	1232018-03-1 FS	BRL
POM-Z-WR-08.1B-DIS	8/7/2012	1232018-04-1 FS	BRL
POM-Z-WR-13.1C-DIS	8/7/2012	1232018-05-1 FS	BRL
POM-Z-WR-14-DIS	8/7/2012	1232018-06-1 FS	BRL
POM-Z-WR-14.8A-DIS	8/7/2012	1232018-09-1 FS	BRL
POM-Z-WR-14B-DIS	8/7/2012	1232018-07-1 FS	BRL
POM-Z-WR-14C-DIS	8/7/2012	1232018-08-1 FS	BRL
POM-Z-WR-15.2A-DIS	8/7/2012	1232018-10-1 FS	BRL
POM-Z-WR-15.2B-DIS	8/7/2012	1232018-11-1 FS	BRL
POM-Z-WR-15.2C-DIS	8/7/2012	1232018-12-1 FS	BRL
POM-Z-WR-15.3A-DIS	8/7/2012	1232018-13-1 FS	BRL
POM-Z-WR-15.4AB-DIS	8/7/2012	1232018-14-1 FS	BRL
POM-Z-WR-15.4C-DIS	8/7/2012	1232018-15-1 FS	BRL
POM-Z-WR-15.4C-DIS-DUP	8/7/2012	1232018-16-1 FS	BRL
POM-Z-WR-19-DIS	8/8/2012	1232018-19-1 FS	BRL
POM-Z-WR-19C-DIS	8/8/2012	1232018-18-1 FS	BRL
POM-Z-WR-20-DIS	8/8/2012	1232018-20-1 FS	BRL
POM-Z-WR-21B-DIS	8/8/2012	1232018-22-1 FS	BRL
POM-Z-WR-21C-DIS	8/8/2012	1232018-21-1 FS	BRL
POM-Z-WR-22C-DIS	8/8/2012	1232018-23-1 FS	BRL

Corporate Environmental Database Lab Analysis QAQC Report

Site: POMPTON LAKES WORKS
Project: WANAQUE SED & PORE WATER 8/12

9/10/2012
Page 13 of 14

Batch Identifier 334674 METHOD EPA 1631 10-AUG-12 B121429 THG-05

Method Number: EPA 1631 Prep Method: METHOD
Batch Start Date: 08/10/2012 Intrument: THG-05 Pre-prep:

Analyte/Parameter		Result	Unit	MDL	PQL	RPR	RPR Limits		RPD	
							Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: B121429-SRM1-1 LCS			Lab: BRL	102	85	115		
MERCURY		15.96	NG/L	0.15	0.4					
Sample Type	MB	Lab Sample ID: B121429-BLK1-1 MB			Lab: BRL					
MERCURY		0.23	NG/L	0.15	0.4					
Sample Type	MB	Lab Sample ID: B121429-BLK2-1 MB			Lab: BRL					
MERCURY		< 0.15	NG/L	0.15	0.41					
Sample Type	MB	Lab Sample ID: B121429-BLK3-1 MB			Lab: BRL					
MERCURY		< 0.15	NG/L	0.15	0.4					
Sample Type	MB	Lab Sample ID: B121429-BLK4-1 MB			Lab: BRL					
MERCURY		< 0.15	NG/L	0.15	0.4					
Sample Type	MS	Lab Sample ID: B121429-MS1-1 MS			Lab: BRL	110	71	125		
MERCURY		157.3	NG/L	0.3	0.81					
Sample Type	MS	Lab Sample ID: B121429-MS2-1 MS			Lab: BRL	114	71	125		
MERCURY		146.9	NG/L	0.51	1.37					
Sample Type	MSD	Lab Sample ID: B121429-MSD1-1 MSD			Lab: BRL	112	71	125	1	24
MERCURY		159.7	NG/L	0.3	0.81					
Sample Type	MSD	Lab Sample ID: B121429-MSD2-1 MSD			Lab: BRL	110	71	125	3	24
MERCURY		143.1	NG/L	0.51	1.37					

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-Z-WR-07-DIS	8/7/2012	1232018-01RE1-1 FS	BRL
POM-Z-WR-07.1B-DIS	8/7/2012	1232018-02RE1-1 FS	BRL
POM-Z-WR-08-DIS	8/7/2012	1232018-03RE1-1 FS	BRL
POM-Z-WR-08.1B-DIS	8/7/2012	1232018-04RE1-1 FS	BRL
POM-Z-WR-13.1C-DIS	8/7/2012	1232018-05RE1-1 FS	BRL
POM-Z-WR-14-DIS	8/7/2012	1232018-06RE1-1 FS	BRL
POM-Z-WR-14.8A-DIS	8/7/2012	1232018-09RE1-1 FS	BRL
POM-Z-WR-14B-DIS	8/7/2012	1232018-07-1 FS	BRL
POM-Z-WR-14C-DIS	8/7/2012	1232018-08-1 FS	BRL
POM-Z-WR-15.2A-DIS	8/7/2012	1232018-10RE1-1 FS	BRL
POM-Z-WR-15.2B-DIS	8/7/2012	1232018-11RE1-1 FS	BRL
POM-Z-WR-15.2C-DIS	8/7/2012	1232018-12-1 FS	BRL
POM-Z-WR-15.3A-DIS	8/7/2012	1232018-13RE1-1 FS	BRL
POM-Z-WR-15.4AB-DIS	8/7/2012	1232018-14RE1-1 FS	BRL
POM-Z-WR-15.4C-DIS	8/7/2012	1232018-15RE1-1 FS	BRL
POM-Z-WR-15.4C-DIS-DUP	8/7/2012	1232018-16-1 FS	BRL

**Corporate Environmental Database
Lab Analysis QAQC Report**

Site: POMPTON LAKES WORKS
Project: WANAQUE SED & PORE WATER 8/12

9/10/2012
Page 14 of 14

Batch Identifier 334678 METHOD EPA 1631 15-AUG-12 B121451 THG-05

Method Number: EPA 1631	Prep Method: METHOD	Pre-prep:
Batch Start Date: 08/15/2012	Intrument: THG-05	

						RPR Limits		RPD		
Analyte/Parameter		Result	Unit	MDL	PQL	RPR	Min	Max	RPD	Max
Sample Type	LCS	Lab Sample ID: B121451-SRM1-1 LCS			Lab: BRL	100	85	115		
MERCURY		15.73	NG/L	0.15	0.4					
Sample Type	MB	Lab Sample ID: B121451-BLK1-1 MB			Lab: BRL					
MERCURY		0.23	NG/L	0.15	0.4					
Sample Type	MB	Lab Sample ID: B121451-BLK2-1 MB			Lab: BRL					
MERCURY		0.17	NG/L	0.15	0.41					
Sample Type	MB	Lab Sample ID: B121451-BLK3-1 MB			Lab: BRL					
MERCURY		< 0.15	NG/L	0.15	0.4					
Sample Type	MB	Lab Sample ID: B121451-BLK4-1 MB			Lab: BRL					
MERCURY		< 0.15	NG/L	0.15	0.4					
Sample Type	MS	Lab Sample ID: B121451-MS1-1 MS			Lab: BRL	112	71	125		
MERCURY		261	NG/L	0.51	1.36					
Sample Type	MSD	Lab Sample ID: B121451-MSD1-1 MSD			Lab: BRL	106	71	125	6	24
MERCURY		245.9	NG/L	0.5	1.34					

The following field samples are included in this batch:

Sampleno	Datesmpl	Lab Id	Lab
POM-K-EQBLK-1	8/7/2012	1232018-17RE1-1 FS	BRL
POM-K-EQBLK-2	8/8/2012	1232018-24-1 FS	BRL
POM-Z-WR-19-DIS	8/8/2012	1232018-19RE1-1 FS	BRL
POM-Z-WR-19C-DIS	8/8/2012	1232018-18RE1-1 FS	BRL
POM-Z-WR-20-DIS	8/8/2012	1232018-20RE1-1 FS	BRL
POM-Z-WR-21B-DIS	8/8/2012	1232018-22RE1-1 FS	BRL
POM-Z-WR-21C-DIS	8/8/2012	1232018-21RE1-1 FS	BRL
POM-Z-WR-22C-DIS	8/8/2012	1232018-23RE1-1 FS	BRL

**Corporate Environmental Database
Summary Report
Field Sample Data**

Site: POMPTON LAKES WORKS
Project: WANAQUE SED & PORE WATER 8/12

Page 1 of 1
Sep 25, 2012 9:28 AM

Source Name	Analysis Date	Dissolved Oxygen (field) (mg/l)	Ph (field) (std units)	Redox (field) (mv)	Specific Conductance (field) (umhos/cm)	Temperature (field) (degrees c)	Total Well Depth (feet)
WR-07	8/7/2012 15:30:00	--	7.41	78	0.251	23.1	0.5
WR-07.1B	8/7/2012 16:00:00	--	7.15	100	0.266	23.8	1.5
WR-08	8/7/2012 16:45:00	--	7.04	-15	0.246	23.8	0.5
WR-08.1B	8/7/2012 17:00:00	--	7.22	82	0.256	24.2	2
WR-13.1C	8/7/2012 09:20:00	--	6.16	-44	0.181	20.6	0.5
WR-14	8/7/2012 09:50:00	--	6.65	-85	0.286	22.2	0.5
WR-14.8A	8/7/2012 11:20:00	--	6.44	-118	0.449	24.4	0.25
WR-14B	8/7/2012 10:20:00	--	6.94	102	0.262	22.4	1
WR-14C	8/7/2012 10:45:00	--	6.55	-26	0.248	22.5	1
WR-15.2A	8/7/2012 12:10:00	--	6.6	-110	0.361	23	1
WR-15.2B	8/7/2012 12:25:00	--	6.8	-89	0.313	23.7	1
WR-15.2C	8/7/2012 12:45:00	--	6.56	-69	0.33	22.9	1
WR-15.3A	8/7/2012 13:10:00	--	6.51	-83	0.475	23	0.5
WR-15.4AB	8/7/2012 13:30:00	--	6.84	5	0.28	23.5	1
WR-15.4C	8/7/2012 13:50:00	--	7.2	-54	0.267	24.2	1.5
WR-19	8/8/2012 09:05:00	--	6.54	-35	0.517	22.7	0.5
WR-19C	8/8/2012 08:45:00	--	6.24	-99	0.355	21.8	1
WR-20	8/8/2012 10:50:00	--	6.94	92	0.839	23	1
WR-21B	8/8/2012 12:00:00	--	6.82	-93	0.543	24.8	0.5
WR-21C	8/8/2012 12:15:00	--	6.44	-49	0.707	25.2	2
WR-22C	8/8/2012 01:45:00	--	6.68	-71	0.354	24.2	0.5

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

August 17, 2012

Project: POM - WANAQUE RIVER SEDIMENT

Submittal Date: 08/07/2012

Group Number: 1327129

SDG: POM42

PO Number: LBIO-66380

Release Number: LA35978

State of Sample Origin: NJ

Client Sample DescriptionLancaster Labs (LLI) #

POM-E-WR-13.1C(0.0-0.5) Sediment Sample	6746261
POM-E-WR-13.2C(0.0-0.5) Sediment Sample	6746262
POM-E-WR-13.8C(0.0-0.5) Sediment Sample	6746263
POM-E-WR-14.2C(0.0-0.5) Sediment Sample	6746264
POM-E-WR-14.8A(0.0-0.5) Sediment Sample	6746265
POM-E-WR-15.3A(0.0-0.5) Sediment Sample	6746266
POM-E-WR-15.3A(0.0-0.5)-DUP Sediment Sample	6746267
POM-E-WR-19C(0.0-0.5) Sediment Sample	6746268
POM-E-WR-19C(0.0-0.5)-MS Matrix Spike	6746269
POM-E-WR-19C(0.0-0.5)-MSD Matrix Spike Dup	6746270
POM-E-WR-19C(0.0-0.5) Duplicate Sediment Sample	6746271
POM-E-WR-19.1C(0.0-0.5) Sediment Sample	6746272
POM-K-EQBLK-1 Blank Water Sample	6746273

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC

LLI

Attn: EDD Group

COPY TO

1 COPY TO

Data Package Group

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Sample Description: POM-E-WR-13.1C(0.0-0.5) Sediment Sample
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6746261
LLI Group # 1327129
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/06/2012 12:45 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/07/2012 16:00

Reported: 08/17/2012 11:27

PWR01 SDG#: POM42-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 1.97	mg/kg 0.0580	mg/kg 0.562	2.5
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 24,700	mg/kg 1,320	mg/kg 3,960	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 56.0	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	122215711001	08/09/2012 08:04	Damary Valentin	2.5
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	122215711001	08/08/2012 23:50	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	12222049531A	08/09/2012 22:46	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	12222820001B	08/09/2012 18:59	Scott W Freisher	1

Sample Description: POM-E-WR-13.2C(0.0-0.5) Sediment Sample
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6746262
LLI Group # 1327129
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/06/2012 13:15 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/07/2012 16:00

Reported: 08/17/2012 11:27

PWR02 SDG#: POM42-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 26.6	mg/kg 1.10	mg/kg 10.6	50
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 9,670	mg/kg 1,750	mg/kg 5,260	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 54.8	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	122215711001	08/09/2012 08:16	Damary Valentin	50
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	122215711001	08/08/2012 23:50	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	12222049531A	08/09/2012 23:01	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	12222820001B	08/09/2012 18:59	Scott W Freisher	1

Sample Description: POM-E-WR-13.8C(0.0-0.5) Sediment Sample
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6746263
LLI Group # 1327129
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/06/2012 13:30 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/07/2012 16:00

Reported: 08/17/2012 11:27

PWR03 SDG#: POM42-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 43.9	mg/kg 2.19	mg/kg 21.2	100
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 16,600	mg/kg 1,120	mg/kg 3,350	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 53.3	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	122215711001	08/09/2012 08:22	Damary Valentin	100
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	122215711001	08/08/2012 23:50	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	12222049531A	08/09/2012 23:09	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	12222820001B	08/09/2012 18:59	Scott W Freisher	1

Sample Description: POM-E-WR-14.2C(0.0-0.5) Sediment Sample
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6746264
LLI Group # 1327129
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/06/2012 14:00 by JC

CRG-E.I.DuPont de Nemours & Co

Submitted: 08/07/2012 16:00

URS Corporation

Reported: 08/17/2012 11:27

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PWR04 SDG#: POM42-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 330	mg/kg 15.7	mg/kg 152	1000
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 3,840	mg/kg 781	mg/kg 2,340	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 38.4	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	122215711001	08/09/2012 08:34	Damary Valentin	1000
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	122215711001	08/08/2012 23:50	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	12222049531A	08/10/2012 00:18	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	12222820001B	08/09/2012 18:59	Scott W Freisher	1

Sample Description: POM-E-WR-14.8A(0.0-0.5) Sediment Sample
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6746265
LLI Group # 1327129
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/06/2012 14:45 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/07/2012 16:00

Reported: 08/17/2012 11:27

PWR05 SDG#: POM42-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 22.3	mg/kg 0.703	mg/kg 6.80	25
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 34,700	mg/kg 1,590	mg/kg 4,770	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 63.3	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	122215711001	08/09/2012 08:44	Damary Valentin	25
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	122215711001	08/08/2012 23:50	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	12222049531A	08/10/2012 00:28	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	12222820001B	08/09/2012 18:59	Scott W Freisher	1

Sample Description: POM-E-WR-15.3A(0.0-0.5) Sediment Sample
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6746266
LLI Group # 1327129
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/06/2012 15:30 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/07/2012 16:00

Reported: 08/17/2012 11:27

PWR06 SDG#: POM42-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 35.6	mg/kg 0.579	mg/kg 5.60	25
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 24,800	mg/kg 1,130	mg/kg 3,380	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 56.5	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	122215711001	08/09/2012 08:50	Damary Valentin	25
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	122215711001	08/08/2012 23:50	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	12222049531A	08/10/2012 00:43	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	12222820001B	08/09/2012 18:59	Scott W Freisher	1

Sample Description: POM-E-WR-15.3A(0.0-0.5)-DUP Sediment Sample
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6746267
LLI Group # 1327129
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/06/2012 15:30 by JC

CRG-E.I.DuPont de Nemours & Co

Submitted: 08/07/2012 16:00

URS Corporation

Reported: 08/17/2012 11:27

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PWR07 SDG#: POM42-07FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 11.4	mg/kg 0.558	mg/kg 5.40	25
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 18,900	mg/kg 1,260	mg/kg 3,780	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 55.9	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	122215711001	08/09/2012 08:56	Damary Valentin	25
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	122215711001	08/08/2012 23:50	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	12222049531A	08/10/2012 00:54	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	12222820001B	08/09/2012 18:59	Scott W Freisher	1

Sample Description: POM-E-WR-19C(0.0-0.5) Sediment Sample
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6746268
LLI Group # 1327129
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/06/2012 16:30 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/07/2012 16:00

Reported: 08/17/2012 11:27

PWR08 SDG#: POM42-08BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 8.85	mg/kg 0.380	mg/kg 3.68	20
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 19,700	mg/kg 1,200	mg/kg 3,590	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 48.3	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	122215711001	08/09/2012 09:11	Damary Valentin	20
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	122215711001	08/08/2012 23:50	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	12222049531A	08/10/2012 01:14	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	12222820001B	08/09/2012 18:59	Scott W Freisher	1

Sample Description: POM-E-WR-19C(0.0-0.5)-MS Matrix Spike
Sediment Sample
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6746269
LLI Group # 1327129
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/06/2012 16:30 by JC

CRG-E.I.DuPont de Nemours & Co

Submitted: 08/07/2012 16:00

URS Corporation

Reported: 08/17/2012 11:27

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PWR08 SDG#: POM42-08MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 8.94	mg/kg 0.381	mg/kg 3.69	20
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 48,600	mg/kg 1,590	mg/kg 4,780	1
Wet Chemistry						
00118	Moisture	SM20 2540 G n.a.	% 48.3	% 0.50	% 0.50	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	122215711001	08/09/2012 09:17	Damary Valentin	20
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	122215711001	08/08/2012 23:50	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	12222049531A	08/10/2012 01:45	James S Mathiot	1
00118	Moisture	SM20 2540 G	1	12222820001B	08/09/2012 18:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: POM-E-WR-19C(0.0-0.5)-MSD Matrix Spike Dup
Sediment Sample
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6746270
LLI Group # 1327129
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/06/2012 16:30 by JC

CRG-E.I.DuPont de Nemours & Co

Submitted: 08/07/2012 16:00

URS Corporation

Reported: 08/17/2012 11:27

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PWR08 SDG#: POM42-08MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 10.1	mg/kg 0.388	mg/kg 3.75	20
Wet Chemistry						
00118	Moisture	SM20 2540 G n.a.	% 48.3	% 0.50	% 0.50	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	122215711001	08/09/2012 09:19	Damary Valentin	20
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	122215711001	08/08/2012 23:50	Annamaria Stipkovits	1
00118	Moisture	SM20 2540 G	1	12222820001B	08/09/2012 18:59	Scott W Freisher	1

Sample Description: POM-E-WR-19C(0.0-0.5) Duplicate Sediment Sample
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6746271
LLI Group # 1327129
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/06/2012 16:30 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/07/2012 16:00

Reported: 08/17/2012 11:27

PWR08 SDG#: POM42-08DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 8.12	mg/kg 0.384	mg/kg 3.71	20
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 21,000	mg/kg 1,180	mg/kg 3,540	1
Wet Chemistry						
00118	Moisture	SM20 2540 G n.a.	% 48.3	% 0.50	% 0.50	1
00121	Moisture Duplicate	n.a.	44.1	0.50	0.50	1
The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	122215711001	08/09/2012 09:15	Damary Valentin	20
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	122215711001	08/08/2012 23:50	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	12222049531A	08/10/2012 01:58	James S Mathiot	1
00118	Moisture	SM20 2540 G	1	12222820001B	08/09/2012 18:59	Scott W Freisher	1
00121	Moisture Duplicate	SM20 2540 G	1	12222820001B	08/09/2012 18:59	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: POM-E-WR-19.1C(0.0-0.5) Sediment Sample
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6746272
LLI Group # 1327129
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/06/2012 16:45 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/07/2012 16:00

Reported: 08/17/2012 11:27

PWR09 SDG#: POM42-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 23.0	mg/kg 1.00	mg/kg 9.72	50
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 17,300	mg/kg 1,610	mg/kg 4,840	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 49.9	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	122215711001	08/09/2012 09:26	Damary Valentin	50
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	122215711001	08/08/2012 23:50	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	12224049531A	08/12/2012 21:45	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	12222820001B	08/09/2012 18:59	Scott W Freisher	1

Sample Description: POM-K-EQBLK-1 Blank Water Sample
WANAQUE SED&PORE WATER 8/12

LLI Sample # WW 6746273
LLI Group # 1327129
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/06/2012 17:30 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/07/2012 16:00

Reported: 08/17/2012 11:27

PWR10 SDG#: POM42-10EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
00259	Mercury	SW-846 7470A 7439-97-6	mg/l 0.000085 J	mg/l 0.0000081	mg/l 0.00020	1
Wet Chemistry						
00273	Total Organic Carbon	SM20 5310 C n.a.	mg/l N.D.	mg/l 0.50	mg/l 1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	122215713001	08/09/2012 09:00	Damary Valentin	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	122215713001	08/08/2012 16:11	Nelli S Markaryan	1
00273	Total Organic Carbon	SM20 5310 C	1	12222049502A	08/09/2012 06:35	James S Mathiot	1

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 08/17/12 at 11:27 AM

Group Number: 1327129

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 122215711001 Mercury	Sample number(s): 6746261-6746272 N.D.	0.0101	0.0975	mg/kg	101		80-120		
Batch number: 122215713001 Mercury	Sample number(s): 6746273 0.000012 J	0.00000 81	0.00020	mg/l	106		80-120		
Batch number: 12222049502A Total Organic Carbon	Sample number(s): 6746273 N.D.	0.50	1.0	mg/l	101		91-113		
Batch number: 12222049531A Total Organic Carbon	Sample number(s): 6746261-6746269, 6746271 N.D.	100.	300	mg/kg	97		22-139		
Batch number: 12224049531A Total Organic Carbon	Sample number(s): 6746272 N.D.	100.	300	mg/kg	98		22-139		
Batch number: 12222820001B Moisture	Sample number(s): 6746261-6746272				100		99-101		
Moisture					100		99-101		
Moisture Duplicate					100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 122215711001 Mercury	Sample number(s): 6746261-6746272 27 (2)	397 (2)	80-120	12	20	UNSPK: 6746268 4.58	BKG: 6746268 4.20	9 (1)	20
Batch number: 122215713001 Mercury	Sample number(s): 6746273 103	99	80-120	3	20	UNSPK: P745477 0.0000084 J	BKG: P745477 0.000011 J	24* (1)	20
Batch number: 12222049502A Total Organic Carbon	Sample number(s): 6746273 93		63-142			UNSPK: P745730 10.4	BKG: P745730 9.8	5*	4
Batch number: 12222049531A Total Organic Carbon	Sample number(s): 6746261-6746269, 6746271 61		22-155			UNSPK: 6746268 10,200	BKG: 6746268 10,900	7	15
Batch number: 12224049531A	Sample number(s): 6746272					UNSPK: 6746272	BKG: 6746272		

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 08/17/12 at 11:27 AM

Group Number: 1327129

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

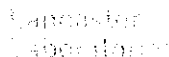
<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Total Organic Carbon	33		22-155			8,660	6,370	30* (1)	15
Batch number: 12222820001B	Sample number(s): 6746261-6746272 BKG: 6746268								
Moisture						48.3	44.1	9	13
Moisture						48.3	44.1	9	15
Moisture Duplicate						48.3	44.1	9	15

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.



1 of 1

Group No.: 1327129

Sample Nos.: 6746261-73

SCR No.: 126185

Cooler No.

23174

Cooler Temperature upon receipt:

00

Container No :

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

For Lancaster Laboratories Use Only

Group No.: 1327129 Sample Nos.: 6746261-73 C18044 23175
Acc't: 07032 SOR No.: 126185 Cooler No.:
Cooler Temperature upon receipt: 1.6 °C Container No.:

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only

Group No.: 1327/29 Sample Nos.: 6746261-73 C21603 23176
Acc't: 07032 SQR No.: 126185 Cooler No.:
Cooler Temperature upon receipt: 16 °C Container No.: 1

Acc't: 07032

SQR No.: 126185

Cooler No.:

Container No.: 1

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

1 of 1

Group No.: 1327129 Sample Nos.: 6746261-73
 Acc't: 07032 SCR No.: 126185 Cooler No.: C18942 23181
 Cooler Temperature upon receipt: 1.6 °C Container No.:

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Environmental Sample Administration
Receipt Documentation LogClient/Project: DuPont Pompton LakesDate of Receipt: 8/7/12Time of Receipt: 1600Source Code: 01Shipping Container Sealed: YES NOCustody Seal Present *: YES NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	0429951	1.6°	TB	WI	Y	B	
2							
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

13.8c time=1530#73 Jar for 19c time=1430Unpacker Signature/Emp#: [Signature] 2308 Date/Time: 8/7/12 1600

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

August 28, 2012

Project: POM - WANAQUE RIVER SEDIMENT

Submittal Date: 08/07/2012

Group Number: 1327130

SDG: POM43

PO Number: LBIO-66380

Release Number: LA35978

State of Sample Origin: NJ

Client Sample DescriptionPOM-E-WR-13.1C(0.0-0.5) Sediment
POM-E-WR-13.2C(0.0-0.5) Sediment
POM-E-WR-13.8C(0.0-0.5) Sediment
POM-E-WR-14.2C(0.0-0.5) Sediment
POM-E-WR-14.8A(0.0-0.5) Sediment
POM-E-WR-15.3A(0.0-0.5) Sediment
POM-E-WR-19C(0.0-0.5) Sediment
POM-E-WR-19.1C(0.0-0.5) SedimentLancaster Labs (LLI) #6746274
6746275
6746276
6746277
6746278
6746279
6746280
6746281

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC

LLI

Attn: EDD Group

COPY TO

1 COPY TO

Data Package Group

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Sample Description: POM-E-WR-13.1C(0.0-0.5) Sediment
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6746274
LLI Group # 1327130
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/06/2012 12:45 by JC

CRG-E.I.DuPont de Nemours & Co

Submitted: 08/07/2012 16:00

URS Corporation

Reported: 08/28/2012 21:36

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

GRSZ1 SDG#: POM43-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	0.50	1
07103	37.5 mm	n.a.	100	0.50	0.50	1
07103	19 mm	n.a.	100	0.50	0.50	1
07103	4.75 mm	n.a.	100	0.50	0.50	1
07103	3.35 mm	n.a.	99.8	0.50	0.50	1
07103	2.36 mm	n.a.	99.8	0.50	0.50	1
07103	1.18 mm	n.a.	99.6	0.50	0.50	1
07103	0.6 mm	n.a.	98.9	0.50	0.50	1
07103	0.3 mm	n.a.	95.3	0.50	0.50	1
07103	0.15 mm	n.a.	72.9	0.50	0.50	1
07103	0.075 mm	n.a.	50.3	0.50	0.50	1
07103	0.064 mm	n.a.	45.0	0.50	0.50	1
07103	0.05 mm	n.a.	37.0	0.50	0.50	1
07103	0.02 mm	n.a.	22.0	0.50	0.50	1
07103	0.005 mm	n.a.	7.0	0.50	0.50	1
07103	0.002 mm	n.a.	3.5	0.50	0.50	1
07103	0.001 mm	n.a.	2.5	0.50	0.50	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	12220710301A	08/07/2012 21:30	Luz M Groff	1

Sample Description: POM-E-WR-13.2C(0.0-0.5) Sediment
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6746275
LLI Group # 1327130
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/06/2012 13:15 by JC

CRG-E.I.DuPont de Nemours & Co

Submitted: 08/07/2012 16:00

URS Corporation

Reported: 08/28/2012 21:36

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

GRSZ2 SDG#: POM43-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	0.50	1
07103	37.5 mm	n.a.	100	0.50	0.50	1
07103	19 mm	n.a.	100	0.50	0.50	1
07103	4.75 mm	n.a.	99.9	0.50	0.50	1
07103	3.35 mm	n.a.	99.8	0.50	0.50	1
07103	2.36 mm	n.a.	99.6	0.50	0.50	1
07103	1.18 mm	n.a.	99.2	0.50	0.50	1
07103	0.6 mm	n.a.	98.5	0.50	0.50	1
07103	0.3 mm	n.a.	95.9	0.50	0.50	1
07103	0.15 mm	n.a.	76.9	0.50	0.50	1
07103	0.075 mm	n.a.	51.5	0.50	0.50	1
07103	0.064 mm	n.a.	47.0	0.50	0.50	1
07103	0.05 mm	n.a.	39.0	0.50	0.50	1
07103	0.02 mm	n.a.	25.0	0.50	0.50	1
07103	0.005 mm	n.a.	8.5	0.50	0.50	1
07103	0.002 mm	n.a.	4.0	0.50	0.50	1
07103	0.001 mm	n.a.	3.0	0.50	0.50	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	12220710301A	08/07/2012 21:30	Luz M Groff	1

Sample Description: POM-E-WR-13.8C(0.0-0.5) Sediment
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6746276
LLI Group # 1327130
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/06/2012 13:30 by JC

CRG-E.I.DuPont de Nemours & Co

Submitted: 08/07/2012 16:00

URS Corporation

Reported: 08/28/2012 21:36

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

GRSZ3 SDG#: POM43-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	0.50	1
07103	37.5 mm	n.a.	100	0.50	0.50	1
07103	19 mm	n.a.	100	0.50	0.50	1
07103	4.75 mm	n.a.	100	0.50	0.50	1
07103	3.35 mm	n.a.	99.9	0.50	0.50	1
07103	2.36 mm	n.a.	99.7	0.50	0.50	1
07103	1.18 mm	n.a.	98.8	0.50	0.50	1
07103	0.6 mm	n.a.	97.9	0.50	0.50	1
07103	0.3 mm	n.a.	88.5	0.50	0.50	1
07103	0.15 mm	n.a.	54.2	0.50	0.50	1
07103	0.075 mm	n.a.	34.2	0.50	0.50	1
07103	0.064 mm	n.a.	31.0	0.50	0.50	1
07103	0.05 mm	n.a.	26.0	0.50	0.50	1
07103	0.02 mm	n.a.	14.0	0.50	0.50	1
07103	0.005 mm	n.a.	7.0	0.50	0.50	1
07103	0.002 mm	n.a.	3.5	0.50	0.50	1
07103	0.001 mm	n.a.	2.0	0.50	0.50	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	12220710301A	08/07/2012 21:30	Luz M Groff	1

Sample Description: POM-E-WR-14.2C(0.0-0.5) Sediment
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6746277
LLI Group # 1327130
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/06/2012 14:00 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/07/2012 16:00

Reported: 08/28/2012 21:36

GRSZ4 SDG#: POM43-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	0.50	1
07103	37.5 mm	n.a.	100	0.50	0.50	1
07103	19 mm	n.a.	100	0.50	0.50	1
07103	4.75 mm	n.a.	83.3	0.50	0.50	1
07103	3.35 mm	n.a.	82.8	0.50	0.50	1
07103	2.36 mm	n.a.	82.6	0.50	0.50	1
07103	1.18 mm	n.a.	81.8	0.50	0.50	1
07103	0.6 mm	n.a.	79.8	0.50	0.50	1
07103	0.3 mm	n.a.	63.7	0.50	0.50	1
07103	0.15 mm	n.a.	30.8	0.50	0.50	1
07103	0.075 mm	n.a.	15.4	0.50	0.50	1
07103	0.064 mm	n.a.	13.0	0.50	0.50	1
07103	0.05 mm	n.a.	9.5	0.50	0.50	1
07103	0.02 mm	n.a.	5.0	0.50	0.50	1
07103	0.005 mm	n.a.	2.0	0.50	0.50	1
07103	0.002 mm	n.a.	1.0	0.50	0.50	1
07103	0.001 mm	n.a.	1.0	0.50	0.50	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	12220710301A	08/07/2012 21:30	Luz M Groff	1

Sample Description: POM-E-WR-14.8A(0.0-0.5) Sediment
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6746278
LLI Group # 1327130
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/06/2012 14:45 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/07/2012 16:00

Reported: 08/28/2012 21:36

GRSZ5 SDG#: POM43-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	0.50	1
07103	37.5 mm	n.a.	100	0.50	0.50	1
07103	19 mm	n.a.	100	0.50	0.50	1
07103	4.75 mm	n.a.	75.7	0.50	0.50	1
07103	3.35 mm	n.a.	68.1	0.50	0.50	1
07103	2.36 mm	n.a.	59.9	0.50	0.50	1
07103	1.18 mm	n.a.	50.2	0.50	0.50	1
07103	0.6 mm	n.a.	43.1	0.50	0.50	1
07103	0.3 mm	n.a.	38.3	0.50	0.50	1
07103	0.15 mm	n.a.	34.8	0.50	0.50	1
07103	0.075 mm	n.a.	32.0	0.50	0.50	1
07103	0.064 mm	n.a.	31.0	0.50	0.50	1
07103	0.05 mm	n.a.	28.0	0.50	0.50	1
07103	0.02 mm	n.a.	22.0	0.50	0.50	1
07103	0.005 mm	n.a.	8.0	0.50	0.50	1
07103	0.002 mm	n.a.	5.0	0.50	0.50	1
07103	0.001 mm	n.a.	3.0	0.50	0.50	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	12220710301A	08/07/2012 21:30	Luz M Groff	1

Sample Description: POM-E-WR-15.3A(0.0-0.5) Sediment
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6746279
LLI Group # 1327130
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/06/2012 15:30 by JC

CRG-E.I.DuPont de Nemours & Co

Submitted: 08/07/2012 16:00

URS Corporation

Reported: 08/28/2012 21:36

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

GRSZ6 SDG#: POM43-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	0.50	1
07103	37.5 mm	n.a.	100	0.50	0.50	1
07103	19 mm	n.a.	100	0.50	0.50	1
07103	4.75 mm	n.a.	100	0.50	0.50	1
07103	3.35 mm	n.a.	99.8	0.50	0.50	1
07103	2.36 mm	n.a.	99.7	0.50	0.50	1
07103	1.18 mm	n.a.	98.7	0.50	0.50	1
07103	0.6 mm	n.a.	98.1	0.50	0.50	1
07103	0.3 mm	n.a.	85.3	0.50	0.50	1
07103	0.15 mm	n.a.	52.7	0.50	0.50	1
07103	0.075 mm	n.a.	34.5	0.50	0.50	1
07103	0.064 mm	n.a.	31.0	0.50	0.50	1
07103	0.05 mm	n.a.	26.0	0.50	0.50	1
07103	0.02 mm	n.a.	16.0	0.50	0.50	1
07103	0.005 mm	n.a.	6.0	0.50	0.50	1
07103	0.002 mm	n.a.	3.0	0.50	0.50	1
07103	0.001 mm	n.a.	2.0	0.50	0.50	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	12220710301A	08/07/2012 21:30	Luz M Groff	1

Sample Description: POM-E-WR-19C(0.0-0.5) Sediment
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6746280
LLI Group # 1327130
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/06/2012 16:30 by JC

CRG-E.I.DuPont de Nemours & Co

Submitted: 08/07/2012 16:00

URS Corporation

Reported: 08/28/2012 21:36

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

GRSZ7 SDG#: POM43-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	0.50	1
07103	37.5 mm	n.a.	100	0.50	0.50	1
07103	19 mm	n.a.	100	0.50	0.50	1
07103	4.75 mm	n.a.	90.0	0.50	0.50	1
07103	3.35 mm	n.a.	84.8	0.50	0.50	1
07103	2.36 mm	n.a.	79.3	0.50	0.50	1
07103	1.18 mm	n.a.	69.9	0.50	0.50	1
07103	0.6 mm	n.a.	58.7	0.50	0.50	1
07103	0.3 mm	n.a.	41.8	0.50	0.50	1
07103	0.15 mm	n.a.	27.3	0.50	0.50	1
07103	0.075 mm	n.a.	19.6	0.50	0.50	1
07103	0.064 mm	n.a.	18.0	0.50	0.50	1
07103	0.05 mm	n.a.	14.0	0.50	0.50	1
07103	0.02 mm	n.a.	8.0	0.50	0.50	1
07103	0.005 mm	n.a.	2.0	0.50	0.50	1
07103	0.002 mm	n.a.	1.0	0.50	0.50	1
07103	0.001 mm	n.a.	1.0	0.50	0.50	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	12220710301A	08/07/2012 21:30	Luz M Groff	1

Sample Description: POM-E-WR-19.1C(0.0-0.5) Sediment
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6746281
LLI Group # 1327130
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/06/2012 16:45 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/07/2012 16:00

Reported: 08/28/2012 21:36

GRSZ8 SDG#: POM43-08*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	0.50	1
07103	37.5 mm	n.a.	100	0.50	0.50	1
07103	19 mm	n.a.	100	0.50	0.50	1
07103	4.75 mm	n.a.	99.0	0.50	0.50	1
07103	3.35 mm	n.a.	98.9	0.50	0.50	1
07103	2.36 mm	n.a.	98.8	0.50	0.50	1
07103	1.18 mm	n.a.	94.0	0.50	0.50	1
07103	0.6 mm	n.a.	82.6	0.50	0.50	1
07103	0.3 mm	n.a.	63.8	0.50	0.50	1
07103	0.15 mm	n.a.	41.7	0.50	0.50	1
07103	0.075 mm	n.a.	25.4	0.50	0.50	1
07103	0.064 mm	n.a.	22.0	0.50	0.50	1
07103	0.05 mm	n.a.	19.0	0.50	0.50	1
07103	0.02 mm	n.a.	11.0	0.50	0.50	1
07103	0.005 mm	n.a.	5.0	0.50	0.50	1
07103	0.002 mm	n.a.	2.0	0.50	0.50	1
07103	0.001 mm	n.a.	1.0	0.50	0.50	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	12220710301A	08/07/2012 21:30	Luz M Groff	1

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 08/28/12 at 09:36 PM

Group Number: 1327130

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

For Lancaster Laboratories Use Only

Group No.: 1327130 Sample Nos.: 6746274-81 C180414 23174
Acc#: 07032 SCR No.: 126185 Cooler No.:
Cooler Temperature upon receipt: 16 °C Container No.: 1

Acc't: 07032

SCR No.: 126185

Cooler No

23174

Cooler Temperature upon receipt:

04

Container No.:

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

For Lancaster Laboratories Use Only

Group No.: 1327130

Sample Nos.: 6746274-8

Acc't: 07032

SQR No.: 126185

Cooler No.

Cooler Temperature upon receipt:

0

Container No. _____

23175

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike · Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

For Lancaster Laboratories Use Only

Group No.: 1327130 Sample Nos.: 6746274-81 Acc't: 07032 SQR No.: 126185 Cooler No.: C21403 23176
Cooler Temperature upon receipt: 16 °C Container No.: 1

Acc't: 07032

SQR No.: 126185

Cooler No.:

Cooler Temperature upon receipt:

01

Container No.:

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Environmental Sample Administration
Receipt Documentation LogClient/Project: DuPont Pompton LakesDate of Receipt: 8/7/12Time of Receipt: 1600Source Code: 01Shipping Container Sealed: YES NOCustody Seal Present *: YES NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	0429951	1.6°	TB	WI	Y	B	
2							
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

13.8c time=1530#73 Jar for 19c time=1430

Unpacker Signature/Emp#:

2308

Date/Time:

8/7/12 1600

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

August 21, 2012

Project: POM - WANAQUE RIVER SEDIMENT

Submittal Date: 08/09/2012

Group Number: 1327822

SDG: POM44

PO Number: LBIO-66380

Release Number: LA35978

State of Sample Origin: NJ

Client Sample DescriptionPOM-E-WR-21.1A(0.0-0.5) Sediment Sample
POM-E-WR-21B(0.0-0.5) Sediment Sample
POM-E-WR-21B(0.5-1.0) Sediment Sample
POM-E-WR-21B(1.0-1.5) Sediment Sample
POM-E-WR-19.6A(0.0-0.5) Sediment Sample
POM-E-WR-21C(0.0-0.5) Sediment Sample
POM-E-WR-22C(0.0-0.5) Sediment Sample
POM-E-WR-22.1C(0.0-0.5) Sediment Sample
POM-K-EQBLK-2 Blank Water Sample
POM-K-EQBLK-3 Blank Water SampleLancaster Labs (LLI) #6750106
6750107
6750108
6750109
6750110
6750111
6750112
6750113
6750114
6750115

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC
COPY TO
1 COPY TOLLI
Data Package Group

Attn: EDD Group

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Sample Description: POM-E-WR-21.1A(0.0-0.5) Sediment Sample
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6750106
LLI Group # 1327822
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/08/2012 12:45 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/09/2012 15:10

Reported: 08/21/2012 14:35

21-1A SDG#: POM44-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 9.11	mg/kg 0.327	mg/kg 3.16	20
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 12,200	mg/kg 1,580	mg/kg 4,730	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 40.7	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	122265711002	08/15/2012 00:49	Parker D Lindstrom	20
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	122265711002	08/14/2012 02:00	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	12233049531A	08/20/2012 03:19	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	12227820002A	08/14/2012 21:41	Scott W Freisher	1

Sample Description: POM-E-WR-21B(0.0-0.5) Sediment Sample
 WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6750107
LLI Group # 1327822
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/08/2012 15:45 by JC

CRG-E.I.DuPont de Nemours & Co

Submitted: 08/09/2012 15:10

URS Corporation

Reported: 08/21/2012 14:35

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

WR21B SDG#: POM44-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 7.37	mg/kg 0.324	mg/kg 3.14	20
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 14,200	mg/kg 1,730	mg/kg 5,180	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 39.2	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	122265711002	08/15/2012 00:51	Parker D Lindstrom	20
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	122265711002	08/14/2012 02:00	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	12233049531A	08/20/2012 03:46	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	12227820002A	08/14/2012 21:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: POM-E-WR-21B(0.5-1.0) Sediment Sample
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6750108
LLI Group # 1327822
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/08/2012 16:00 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/09/2012 15:10

Reported: 08/21/2012 14:35

W21B2 SDG#: POM44-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 0.334	mg/kg 0.0127	mg/kg 0.123	1
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 2,200	mg/kg 516	mg/kg 1,550	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 20.9	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	122265711002	08/15/2012 00:15	Parker D Lindstrom	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	122265711002	08/14/2012 02:00	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	12233049531A	08/20/2012 03:54	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	12227820002A	08/14/2012 21:41	Scott W Freisher	1

Sample Description: POM-E-WR-21B(1.0-1.5) Sediment Sample
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6750109
LLI Group # 1327822
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/08/2012 16:15 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/09/2012 15:10

Reported: 08/21/2012 14:35

W21B3 SDG#: POM44-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 1.65	mg/kg 0.0843	mg/kg 0.816	5
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 15,800	mg/kg 1,250	mg/kg 3,750	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 42.6	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	122265711002	08/15/2012 00:53	Parker D Lindstrom	5
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	122265711002	08/14/2012 02:00	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	12233049531A	08/20/2012 21:10	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	12227820002A	08/14/2012 21:41	Scott W Freisher	1

Sample Description: POM-E-WR-19.6A(0.0-0.5) Sediment Sample
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6750110
LLI Group # 1327822
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/08/2012 10:20 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/09/2012 15:10

Reported: 08/21/2012 14:35

WR196 SDG#: POM44-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 5.12	mg/kg 0.272	mg/kg 2.63	20
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 6,260	mg/kg 554	mg/kg 1,660	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 26.9	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	122265711002	08/15/2012 00:55	Parker D Lindstrom	20
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	122265711002	08/14/2012 02:00	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	12233049531A	08/20/2012 21:23	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	12227820002A	08/14/2012 21:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: POM-E-WR-21C(0.0-0.5) Sediment Sample
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6750111
LLI Group # 1327822
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/08/2012 12:30 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/09/2012 15:10

Reported: 08/21/2012 14:35

WR21C SDG#: POM44-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 2.68	mg/kg 0.0848	mg/kg 0.821	5
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 4,620	mg/kg 1,310	mg/kg 3,930	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 39.5	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	122265711002	08/15/2012 01:01	Parker D Lindstrom	5
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	122265711002	08/14/2012 02:00	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	12233049531A	08/20/2012 21:31	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	12227820002A	08/14/2012 21:41	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: POM-E-WR-22C(0.0-0.5) Sediment Sample
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6750112
LLI Group # 1327822
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/09/2012 08:20 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/09/2012 15:10

Reported: 08/21/2012 14:35

WR22C SDG#: POM44-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 2.84	mg/kg 0.139	mg/kg 1.34	10
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 3,080	mg/kg 433	mg/kg 1,300	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 25.6	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	122265711002	08/15/2012 01:03	Parker D Lindstrom	10
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	122265711002	08/14/2012 02:00	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	12233049531A	08/20/2012 21:39	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	12227820002A	08/14/2012 21:41	Scott W Freisher	1

Sample Description: POM-E-WR-22.1C(0.0-0.5) Sediment Sample
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6750113
LLI Group # 1327822
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/09/2012 08:45 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/09/2012 15:10

Reported: 08/21/2012 14:35

WR221 SDG#: POM44-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 7.52	mg/kg 0.316	mg/kg 3.05	20
Wet Chemistry						
00383	Total Organic Carbon	Lloyd Kahn modified n.a.	mg/kg 8,140	mg/kg 912	mg/kg 2,740	1
Wet Chemistry						
00111	Moisture	SM20 2540 G n.a.	% 37.3	% 0.50	% 0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	122265711002	08/15/2012 01:05	Parker D Lindstrom	20
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	122265711002	08/14/2012 02:00	Annamaria Stipkovits	1
00383	Total Organic Carbon	Lloyd Kahn modified	1	12233049531A	08/20/2012 21:51	James S Mathiot	1
00111	Moisture	SM20 2540 G	1	12227820002A	08/14/2012 21:41	Scott W Freisher	1

Sample Description: POM-K-EQBLK-2 Blank Water Sample
WANAQUE SED&PORE WATER 8/12

LLI Sample # WW 6750114
LLI Group # 1327822
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/08/2012 17:00 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/09/2012 15:10

Reported: 08/21/2012 14:35

POME2 SDG#: POM44-09EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
00259	Mercury	SW-846 7470A 7439-97-6	mg/l 0.000088 J	mg/l 0.0000081	mg/l 0.00020	1
Wet Chemistry						
00273	Total Organic Carbon	SM20 5310 C n.a.	mg/l N.D.	mg/l 0.50	mg/l 1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	122235713003	08/11/2012 08:56	Damary Valentin	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	122235713003	08/10/2012 16:15	Damary Valentin	1
00273	Total Organic Carbon	SM20 5310 C	1	12227049502A	08/14/2012 02:06	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: POM-K-EQBLK-3 Blank Water Sample
WANAQUE SED&PORE WATER 8/12

LLI Sample # WW 6750115
LLI Group # 1327822
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/09/2012 09:15 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/09/2012 15:10

Reported: 08/21/2012 14:35

POME3 SDG#: POM44-10EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
00259	Mercury	SW-846 7470A 7439-97-6	mg/l 0.00011 J	mg/l 0.0000081	mg/l 0.00020	1
Wet Chemistry						
00273	Total Organic Carbon	SM20 5310 C n.a.	mg/l N.D.	mg/l 0.50	mg/l 1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	122235713003	08/11/2012 08:58	Damary Valentin	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	122235713003	08/10/2012 16:15	Damary Valentin	1
00273	Total Organic Carbon	SM20 5310 C	1	12227049502A	08/14/2012 02:20	James S Mathiot	1

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 08/21/12 at 02:35 PM

Group Number: 1327822

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 122235713003 Mercury	Sample number(s): 6750114-6750115 0.000077 J	0.00000 81	0.00020	mg/l	101		80-120		
Batch number: 122265711002 Mercury	Sample number(s): 6750106-6750113 0.0128 J	0.0102	0.0991	mg/kg	106		80-120		
Batch number: 12227049502A Total Organic Carbon	Sample number(s): 6750114-6750115 N.D.	0.50	1.0	mg/l	101		91-113		
Batch number: 12233049531A Total Organic Carbon	Sample number(s): 6750106-6750113 N.D.	100.	300	mg/kg	105		22-139		
Batch number: 12227820002A Moisture	Sample number(s): 6750106-6750113				100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

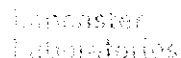
<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 122235713003 Mercury	Sample number(s): 6750114-6750115 86	87	80-120	1	20	UNSPK: P749979 0.00011 J	BKG: P749979 0.000085 J	22* (1)	20
Batch number: 122265711002 Mercury	Sample number(s): 6750106-6750113 88	90	80-120	0	20	UNSPK: P750232 0.238	BKG: P750232 0.270	13 (1)	20
Batch number: 12227049502A Total Organic Carbon	Sample number(s): 6750114-6750115 107		63-142			UNSPK: P750962 1.9	BKG: P750962 2.3	20* (1)	4
Batch number: 12233049531A Total Organic Carbon	Sample number(s): 6750106-6750113 122		22-155			UNSPK: 6750106 7,240	BKG: 6750106 8,030	10 (1)	15
Batch number: 12227820002A Moisture	Sample number(s): 6750106-6750113					BKG: P749150 17.6	16.9	5	13

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.



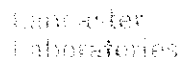
1 of 1

Group No.: 1327822 Sample Nos.: 6750106-15
Acc't: 07032 SOR No.: 126185 Cooler No.: C21403 23177
Cooler Temperature upon receipt: 1.9 °C Container No.: 1

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.



1 of 1

Group No.: 1327822 Sample Nos.: 6750106-15
 Acc't: 07032 SCR No.: 126185 Cooler No.: C15357 23178
 Cooler Temperature upon receipt: 19 °C Container No.: 1

[illegible]

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

For Lancaster Laboratories Use Only

Group No.: 1327822 Sample Nos.: 6750106-15
 Acc't: 07032 SCR No.: 126185 Cooler No.: C1535 23179
 Cooler Temperature upon receipt: 1.9 °C Container No.: 1

Acc't: 07032

SCR No.: 126185

Cooler No.:

Cooler Temperature upon receipt:

1.9- °C

Container No.:

Facility Name: Pompton Lakes		Project Manager: Gary Long		Analyses Required												Comments:							
Facility Contact: Josh Collins		Facility Contact Phone No.: 215-367-2476																					
Facility Address: Pompton Lakes Works		Job No.: 9267-7720100C-WH06 50																					
2000 Cannonball Road		Release No.: LA35978																					
Pompton Lakes NJ 07442		PO Number: LBIO-66380																					
Sampler(s): SC, BR																							
Project Name: WANAQUE SED&PORE WATER 8/12																							
Sample Identification	Date Collected	Time Collected	Matrix	Containers			Grain Size (ASTM D422)	Hg (7471A)	Moisture (SM20 2540 G)	TOC (Lloyd Kahn)													Condition upon receipt:
				Volume (ml)	Preserv	No.																	
POM-E-WR-21C(0.0-0.5)	8/8/12	12:36	SW	125	None	1		X	X	X													intact
POM-E-WR-21C(0.0-0.5)	8/8/12	12:36	SW	500	None	1	X																
POM-E-WR-22C(0.0-0.5)	8/9/12	8:20	SW	125	None	1		X	X	X													
POM-E-WR-22C(0.0-0.5)	8/9/12	8:20	SW	500	None	1	X																
POM-E-WR-22.1C(0.0-0.5)	8/9/12	8:45	SW	125	None	1		X	X	X													
POM-E-WR-22.1C(0.0-0.5)	8/9/12	8:45	SW	500	None	1	X																
Turnaround Time Requested (please circle: Normal) Rush Number of days: _____				Special Instructions: Full Deliverables needed																			
Bottles Relinquished by: [Signature]		Date: 8/9/12	Time: 10:00	Bottles Received by: [Signature]		Date: 8/9/12	Time: 11:00																
Bottles Relinquished by: [Signature]		Date: 8/9/12	Time: 15:10	Bottles Received by: [Signature]		Date:	Time:																
Bottles Relinquished by:		Date:	Time:	Bottles Received by:		Date:	Time:																
Bottles Relinquished by:		Date:	Time:	Bottles Received by: [Signature]		Date: 8/9/12	Time: 15:10																

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.



1 of 1

Group No.: 1327822 Sample Nos.: 6750106-15 C18962 **23182**
Acc't: 07032 SCR No.: 126185 Cooler No.: C18962
Cooler Temperature upon receipt: 1.9" °C Container No.: 1

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only

Group No.: 1327822

Sample Nos.: 6750106-15

Acc't: 07032

SCR No.: 126185

Cooler No. 1

Cooler Temperature upon receipt:

^o

Container No. _____

23183

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Environmental Sample Administration Receipt Documentation Log

Client/Project: DuPont Pompton Lakes

Shipping Container Sealed: YES NO

Date of Receipt: 8/9/12

Custody Seal Present * : YES NO

Time of Receipt: 1510

* Custody seal was intact unless otherwise noted in the discrepancy section

Source Code: 01

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	6429951	1.9°	TB	WI	Y	B	
2							
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#:

[Signature] 2308

Date/Time: 8/9/12 1623

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

August 28, 2012

Project: POM - WANAQUE RIVER SEDIMENT

Submittal Date: 08/09/2012

Group Number: 1327825

SDG: POM45

PO Number: LBIO-66380

Release Number: LA35978

State of Sample Origin: NJ

Client Sample DescriptionPOM-E-WR-21.1A(0.0-0.5) Sediment
POM-E-WR-21B(0.5-1.0) Sediment
POM-E-WR-21B(1.0-1.5) Sediment
POM-E-WR-19.6A(0.0-0.5) Sediment
POM-E-WR-21C(0.0-0.5) Sediment
POM-E-WR-22C(0.0-0.5) Sediment
POM-E-WR-22.1C(0.0-0.5) SedimentLancaster Labs (LLI) #6750135
6750137
6750138
6750139
6750140
6750141
6750142

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC

LLI

Attn: EDD Group

COPY TO

1 COPY TO

Data Package Group

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Sample Description: POM-E-WR-21.1A(0.0-0.5) Sediment
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6750135
LLI Group # 1327825
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/08/2012 12:45 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/09/2012 15:10

Reported: 08/28/2012 21:43

GRZ01 SDG#: POM45-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	0.50	1
07103	37.5 mm	n.a.	100	0.50	0.50	1
07103	19 mm	n.a.	100	0.50	0.50	1
07103	4.75 mm	n.a.	100	0.50	0.50	1
07103	3.35 mm	n.a.	99.9	0.50	0.50	1
07103	2.36 mm	n.a.	99.8	0.50	0.50	1
07103	1.18 mm	n.a.	99.4	0.50	0.50	1
07103	0.6 mm	n.a.	98.0	0.50	0.50	1
07103	0.3 mm	n.a.	86.8	0.50	0.50	1
07103	0.15 mm	n.a.	42.4	0.50	0.50	1
07103	0.075 mm	n.a.	17.4	0.50	0.50	1
07103	0.064 mm	n.a.	14.0	0.50	0.50	1
07103	0.05 mm	n.a.	11.0	0.50	0.50	1
07103	0.02 mm	n.a.	6.5	0.50	0.50	1
07103	0.005 mm	n.a.	2.5	0.50	0.50	1
07103	0.002 mm	n.a.	1.5	0.50	0.50	1
07103	0.001 mm	n.a.	1.5	0.50	0.50	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	12222710301A	08/09/2012 20:50	Luz M Groff	1

Sample Description: POM-E-WR-21B(0.5-1.0) Sediment
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6750137
LLI Group # 1327825
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/08/2012 16:00 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/09/2012 15:10

Reported: 08/28/2012 21:43

GRZ03 SDG#: POM45-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	0.50	1
07103	37.5 mm	n.a.	100	0.50	0.50	1
07103	19 mm	n.a.	100	0.50	0.50	1
07103	4.75 mm	n.a.	90.8	0.50	0.50	1
07103	3.35 mm	n.a.	83.5	0.50	0.50	1
07103	2.36 mm	n.a.	72.8	0.50	0.50	1
07103	1.18 mm	n.a.	47.8	0.50	0.50	1
07103	0.6 mm	n.a.	26.9	0.50	0.50	1
07103	0.3 mm	n.a.	13.6	0.50	0.50	1
07103	0.15 mm	n.a.	6.8	0.50	0.50	1
07103	0.075 mm	n.a.	4.2	0.50	0.50	1
07103	0.064 mm	n.a.	3.5	0.50	0.50	1
07103	0.05 mm	n.a.	2.0	0.50	0.50	1
07103	0.02 mm	n.a.	1.0	0.50	0.50	1
07103	0.005 mm	n.a.	1.0	0.50	0.50	1
07103	0.002 mm	n.a.	0.50	0.50	0.50	1
07103	0.001 mm	n.a.	N.D.	0.50	0.50	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	12222710301A	08/09/2012 20:50	Luz M Groff	1

Sample Description: POM-E-WR-21B(1.0-1.5) Sediment
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6750138
LLI Group # 1327825
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/08/2012 16:15 by JC

CRG-E.I.DuPont de Nemours & Co

Submitted: 08/09/2012 15:10

URS Corporation

Reported: 08/28/2012 21:43

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

GRZ04 SDG#: POM45-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	0.50	1
07103	37.5 mm	n.a.	100	0.50	0.50	1
07103	19 mm	n.a.	100	0.50	0.50	1
07103	4.75 mm	n.a.	100	0.50	0.50	1
07103	3.35 mm	n.a.	99.9	0.50	0.50	1
07103	2.36 mm	n.a.	99.8	0.50	0.50	1
07103	1.18 mm	n.a.	92.0	0.50	0.50	1
07103	0.6 mm	n.a.	72.7	0.50	0.50	1
07103	0.3 mm	n.a.	48.2	0.50	0.50	1
07103	0.15 mm	n.a.	27.1	0.50	0.50	1
07103	0.075 mm	n.a.	16.5	0.50	0.50	1
07103	0.064 mm	n.a.	14.0	0.50	0.50	1
07103	0.05 mm	n.a.	11.5	0.50	0.50	1
07103	0.02 mm	n.a.	7.0	0.50	0.50	1
07103	0.005 mm	n.a.	2.0	0.50	0.50	1
07103	0.002 mm	n.a.	0.50	0.50	0.50	1
07103	0.001 mm	n.a.	N.D.	0.50	0.50	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	12222710301A	08/09/2012 20:50	Luz M Groff	1

Sample Description: POM-E-WR-19.6A(0.0-0.5) Sediment
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6750139
LLI Group # 1327825
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/08/2012 10:20 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/09/2012 15:10

Reported: 08/28/2012 21:43

GRZ05 SDG#: POM45-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	0.50	1
07103	37.5 mm	n.a.	100	0.50	0.50	1
07103	19 mm	n.a.	100	0.50	0.50	1
07103	4.75 mm	n.a.	78.8	0.50	0.50	1
07103	3.35 mm	n.a.	74.9	0.50	0.50	1
07103	2.36 mm	n.a.	71.2	0.50	0.50	1
07103	1.18 mm	n.a.	60.2	0.50	0.50	1
07103	0.6 mm	n.a.	47.3	0.50	0.50	1
07103	0.3 mm	n.a.	25.8	0.50	0.50	1
07103	0.15 mm	n.a.	7.3	0.50	0.50	1
07103	0.075 mm	n.a.	3.6	0.50	0.50	1
07103	0.064 mm	n.a.	3.0	0.50	0.50	1
07103	0.05 mm	n.a.	3.0	0.50	0.50	1
07103	0.02 mm	n.a.	3.0	0.50	0.50	1
07103	0.005 mm	n.a.	1.5	0.50	0.50	1
07103	0.002 mm	n.a.	1.0	0.50	0.50	1
07103	0.001 mm	n.a.	1.0	0.50	0.50	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	12222710301A	08/09/2012 20:50	Luz M Groff	1

Sample Description: POM-E-WR-21C(0.0-0.5) Sediment
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6750140
LLI Group # 1327825
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/08/2012 12:30 by JC

CRG-E.I.DuPont de Nemours & Co

Submitted: 08/09/2012 15:10

URS Corporation

Reported: 08/28/2012 21:43

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

GRZ06 SDG#: POM45-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	0.50	1
07103	37.5 mm	n.a.	100	0.50	0.50	1
07103	19 mm	n.a.	100	0.50	0.50	1
07103	4.75 mm	n.a.	99.2	0.50	0.50	1
07103	3.35 mm	n.a.	98.8	0.50	0.50	1
07103	2.36 mm	n.a.	98.5	0.50	0.50	1
07103	1.18 mm	n.a.	95.2	0.50	0.50	1
07103	0.6 mm	n.a.	82.7	0.50	0.50	1
07103	0.3 mm	n.a.	54.4	0.50	0.50	1
07103	0.15 mm	n.a.	26.1	0.50	0.50	1
07103	0.075 mm	n.a.	12.7	0.50	0.50	1
07103	0.064 mm	n.a.	11.0	0.50	0.50	1
07103	0.05 mm	n.a.	9.5	0.50	0.50	1
07103	0.02 mm	n.a.	6.0	0.50	0.50	1
07103	0.005 mm	n.a.	2.5	0.50	0.50	1
07103	0.002 mm	n.a.	2.0	0.50	0.50	1
07103	0.001 mm	n.a.	2.0	0.50	0.50	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	12222710301A	08/09/2012 20:50	Luz M Groff	1

Sample Description: POM-E-WR-22C(0.0-0.5) Sediment
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6750141
LLI Group # 1327825
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/09/2012 08:20 by JC

CRG-E.I.DuPont de Nemours & Co

Submitted: 08/09/2012 15:10

URS Corporation

Reported: 08/28/2012 21:43

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

GRZ07 SDG#: POM45-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	0.50	1
07103	37.5 mm	n.a.	100	0.50	0.50	1
07103	19 mm	n.a.	100	0.50	0.50	1
07103	4.75 mm	n.a.	98.5	0.50	0.50	1
07103	3.35 mm	n.a.	98.4	0.50	0.50	1
07103	2.36 mm	n.a.	98.3	0.50	0.50	1
07103	1.18 mm	n.a.	97.6	0.50	0.50	1
07103	0.6 mm	n.a.	94.5	0.50	0.50	1
07103	0.3 mm	n.a.	54.8	0.50	0.50	1
07103	0.15 mm	n.a.	9.7	0.50	0.50	1
07103	0.075 mm	n.a.	3.6	0.50	0.50	1
07103	0.064 mm	n.a.	3.0	0.50	0.50	1
07103	0.05 mm	n.a.	2.5	0.50	0.50	1
07103	0.02 mm	n.a.	1.5	0.50	0.50	1
07103	0.005 mm	n.a.	1.5	0.50	0.50	1
07103	0.002 mm	n.a.	1.5	0.50	0.50	1
07103	0.001 mm	n.a.	1.5	0.50	0.50	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	12222710301A	08/09/2012 20:50	Luz M Groff	1

Sample Description: POM-E-WR-22.1C(0.0-0.5) Sediment
WANAQUE SED&PORE WATER 8/12

LLI Sample # SW 6750142
LLI Group # 1327825
Account # 07032

Project Name: POM - WANAQUE RIVER SEDIMENT

Collected: 08/09/2012 08:45 by JC

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/09/2012 15:10

Reported: 08/28/2012 21:43

GRZ08 SDG#: POM45-08*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D422	% Passing	% Passing	% Passing	
07103	75 mm	n.a.	100	0.50	0.50	1
07103	37.5 mm	n.a.	100	0.50	0.50	1
07103	19 mm	n.a.	100	0.50	0.50	1
07103	4.75 mm	n.a.	98.0	0.50	0.50	1
07103	3.35 mm	n.a.	96.6	0.50	0.50	1
07103	2.36 mm	n.a.	95.4	0.50	0.50	1
07103	1.18 mm	n.a.	95.0	0.50	0.50	1
07103	0.6 mm	n.a.	86.7	0.50	0.50	1
07103	0.3 mm	n.a.	47.5	0.50	0.50	1
07103	0.15 mm	n.a.	11.5	0.50	0.50	1
07103	0.075 mm	n.a.	0.85	0.50	0.50	1
07103	0.064 mm	n.a.	1.5	0.50	0.50	1
07103	0.05 mm	n.a.	3.5	0.50	0.50	1
07103	0.02 mm	n.a.	4.0	0.50	0.50	1
07103	0.005 mm	n.a.	1.5	0.50	0.50	1
07103	0.002 mm	n.a.	0.50	0.50	0.50	1
07103	0.001 mm	n.a.	N.D.	0.50	0.50	1

The grain size percent passing results are anomalous for particle sizes 0.064 mm, 0.05 mm, 0.02 mm and 0.005 mm due to matrix interference.

General Sample Comments

State of New Jersey Lab Certification No. PA011

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07103	Grain Size to 1 um	ASTM D422	1	12222710301A	08/09/2012 20:50	Luz M Groff	1

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 08/28/12 at 09:43 PM

Group Number: 1327825

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

For Lancaster Laboratories Use Only

Group No.: 1327825

Sample Nos.: 6750135-42

Acc't: 07032

SCR No.: 126185

Cooler N

23177

Cooler Temperature upon receipt:

11.9 °C

Container No. :

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

For Lancaster Laboratories Use Only

Group No.: 1327825 Sample Nos.: 6750135-42
Acc't: 07032 SCR No.: 126185 Cooler No.: C15357 23178
Cooler Temperature upon receipt: 9 °C Container No.: 1

Acc't: 07032

SCR No.: 126185

Cooler No.: C/333 / 23178

Cooler Temperature upon receipt:

92 00

Container No. :

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

For Lancaster Laboratories Use Only

Group No.: 1327825 Sample Nos.: 6750135-42
 Acc't: 07032 SCR No.: 126185 Cooler No.: C1535 23179
 Cooler Temperature upon receipt: 1.9 °C Container No.: 1

Acc't: 07032

SCR No.: 126185

Cooler No.

Cooler Temperature upon receipt:

0

Container No. _____

23179

[illegible]

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Environmental Sample Administration Receipt Documentation Log

Client/Project: Point Pompton Lakes

Shipping Container Sealed: YES NO

Date of Receipt: 8/9/12

Custody Seal Present *: YES NO

Time of Receipt: 1510

* Custody seal was intact unless otherwise noted in the discrepancy section

Source Code: 01

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	6424951	1.9	TB	WI	Y	B	
2							
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#:

32 2308

Date/Time:

8/9/12 1623

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Report of Water Analyses Mercury

Project: DuPont Pompton Lakes Works, NJ

Samples Collected: August 7 – 8, 2012

Report Date: August 31, 2012

Prepared for:

Candia Carle

URS Corporation

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

Brooks Rand Labs

Project ID: DUP002



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Table of Contents

Case Narrative	3
Report Information.....	6
Sample Information	7
Batch Summary.....	7
Sample Results	8
Accuracy & Precision Summary	11
Method Blanks & Reporting Limits	14
Instrument Calibration	17
Sample Containers.....	20
Shipping Containers	26
Chain-of-Custody Forms	27
Waybills.....	30
Mercury Data Sequence 1200638, Batch B121429	32
Mercury Data Sequence 1200642, Batch B121451	68
Mercury Data Sequence 1200640, Batch B121370	109

Case Narrative

Shipping and Receiving

On August 8, 2012, Brooks Rand Labs (BRL) received seventeen (17) water samples at 9:15 AM in a cooler packed with ice and at a temperature of 0.3°C. On August 9, 2012, BRL received an additional seven (7) water samples at 8:45 AM in a cooler packed with ice and at a temperature of 0.1°C. Samples were logged-in for the contracted analyses of dissolved mercury (Hg) and dissolved methyl mercury (MeHg) determination. All samples were field-filtered by the client. The samples were received and stored securely according to BRL standard operating procedures (SOP) and EPA methodology.

Preservation and Holding Time

All method and SOP requirements for preservation and holding time were satisfied.

Total Mercury in Water by EPA Method 1631 (SOP BR-0006)

All samples are prepared and analyzed in accordance with EPA Method 1631. Samples are oxidized with bromine monochloride (BrCl) and then analyzed with stannous chloride (SnCl₂) reduction, single gold amalgamation, and cold vapor atomic fluorescence spectroscopy (CVAFS) detection using a BRL Model III CVAFS Mercury Analyzer.

Typically, samples from the client are used as quality control samples. This did not occur for the samples in this work order due to the limited volume of the samples.

Sequence 1200638

Instrument calibration, meeting all quality control criteria, was successfully achieved on the day of sample analysis.

Batch B121429

The sample *POM-Z-WR-15.4C-DIS-DUP* (1232018-16) was identified as a field duplicate. The relative percent difference (RPD) between the field duplicate and the native sample *POM-Z-WR-15.4C-DIS* (1232018-15) was 84%.

All data was reported without qualification and all associated quality control sample results met the acceptance criteria.

Sequence 1200642

Instrument calibration, meeting all quality control criteria, was successfully achieved on the day of sample analysis.

Several continuing calibration blanks (CCBs) were analyzed on the purge vessel (PV4) to remove any possible carryover. The continuing calibration verification (CCV) CCV2 was analyzed on this purge vessel, which resulted in an elevated recovery (157%). Another CCV (CCV3) was immediately analyzed on a different purge vessel and recovered within acceptance criteria. Since the result for CCV2 was indicative of the carryover on the purge vessel (PV4) and not the method performance, CCV2 was not reported. PV4 was replaced after the analysis of CCV2 and no other client samples were analyzed using that purge vessel. All samples analyzed on PV4 were re-analyzed.

Batch B121451

Samples *POM-K-EQBLK-1* (1232018-17) and *POM-Z-K-EQBLK-2* (1232018-24) were identified as equipment blanks and produced detectable Hg concentrations of 2.37 ng/L and 1.23 ng/L, respectively. Sample *POM-Z-K-EQBLK-2* (1232018-24) was re-analyzed and confirmed the initial result. Several sample results were within 10x the concentration of the equipment blanks. The results for the samples may demonstrate possible contamination.

All data was reported without qualification and all associated quality control sample results met the acceptance criteria.

Methylmercury in Water by EPA Method 1630 (SOP BR-0011)

Water samples are prepared by distillation. Distillates are analyzed by ethylation, Tenax trap collection, gas chromatography separation, isothermal decomposition, and cold vapor fluorescence spectroscopy (CVAFS).

The results were method blank-corrected as described in the calculations section of the relevant BRL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

Typically, samples from the client are used as quality control samples. This did not occur for the samples in this work order due to the limited volume of the samples.

Sequence 1200640

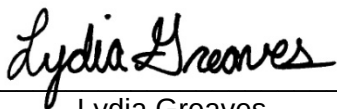
The results of the three of the first four continuing calibration blanks (CCB1, CCB2, and CCB4) were greater than the low calibration standard. None of the CCBs bracketed the analysis of client samples nor was there further evidence of carryover or contamination. All other instrument calibration, meeting all quality control criteria, was successfully achieved on the day of sample analysis.

Analytical run #4 was manually integrated and approved by BRL's QA department.

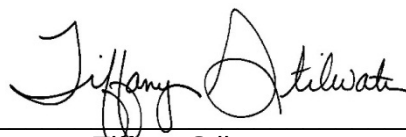
Batch B12370

There was an instrument issue (Trap A failed) causing the data un-usable when these samples were initially analyzed. The sample preparations were re-analyzed the next day (3 days after preparation) and all spiked quality control samples recovered within the range of 95 – 120%. On this basis, the data has been reported without qualification. BRL's QA department signed off on the change to standard practice. Aside from concentration qualifiers, all data was reported without qualification and all associated quality control sample results met the acceptance criteria.

We 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. BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.



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Tiffany Stilwater
Project Manager
tiffany@brooksrnd.com

Report Information

Laboratory Accreditation

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksrand.com/default.asp?contentID=586>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

BLK	method blank	MS	matrix spike
BRL	Brooks Rand Labs	MSD	matrix spike duplicate
BS	laboratory fortified blank	ND	non-detect
CAL	calibration standard	NR	non-reportable
CCV	continuing calibration verification	PS	post preparation spike
COC	chain of custody record	REC	percent recovery
CRM	certified reference material	RPD	relative percent difference
D	dissolved fraction	RSD	relative standard deviation
DUP	duplicate	SCV	secondary calibration verification
ICV	initial calibration verification	SOP	standard operating procedure
MDL	method detection limit	SRM	standard reference material
MRL	method reporting limit	T	total recoverable fraction

Definition of Data Qualifiers

(Effective 9/23/09)

B	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Result is estimated.
J	Estimated value. A full explanation is presented in the narrative.
J-M	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N	Spike recovery was not within acceptance criteria. Result is estimated.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
POM-Z-WR-07-DIS	1232018-01	Pore Water	Sample	08/07/2012	08/08/2012
POM-Z-WR-07.1B-DIS	1232018-02	Pore Water	Sample	08/07/2012	08/08/2012
POM-Z-WR-08-DIS	1232018-03	Pore Water	Sample	08/07/2012	08/08/2012
POM-Z-WR-08.1B-DIS	1232018-04	Pore Water	Sample	08/07/2012	08/08/2012
POM-Z-WR-13.1C-DIS	1232018-05	Pore Water	Sample	08/07/2012	08/08/2012
POM-Z-WR-14-DIS	1232018-06	Pore Water	Sample	08/07/2012	08/08/2012
POM-Z-WR-14B-DIS	1232018-07	Pore Water	Sample	08/07/2012	08/08/2012
POM-Z-WR-14C-DIS	1232018-08	Pore Water	Sample	08/07/2012	08/08/2012
POM-Z-WR-14.8A-DIS	1232018-09	Pore Water	Sample	08/07/2012	08/08/2012
POM-Z-WR-15.2A-DIS	1232018-10	Pore Water	Sample	08/07/2012	08/08/2012
POM-Z-WR-15.2B-DIS	1232018-11	Pore Water	Sample	08/07/2012	08/08/2012
POM-Z-WR-15.2C-DIS	1232018-12	Pore Water	Sample	08/07/2012	08/08/2012
POM-Z-WR-15.3A-DIS	1232018-13	Pore Water	Sample	08/07/2012	08/08/2012
POM-Z-WR-15.4AB-DIS	1232018-14	Pore Water	Sample	08/07/2012	08/08/2012
POM-Z-WR-15.4C-DIS	1232018-15	Pore Water	Sample	08/07/2012	08/08/2012
POM-Z-WR-15.4C-DIS-DUP	1232018-16	Pore Water	Field Duplicate	08/07/2012	08/08/2012
POM-K-EQBLK-1	1232018-17	DIW	Equip. Blank	08/07/2012	08/08/2012
POM-Z-WR-19C-DIS	1232018-18	Pore Water	Sample	08/08/2012	08/09/2012
POM-Z-WR-19-DIS	1232018-19	Pore Water	Sample	08/08/2012	08/09/2012
POM-Z-WR-20-DIS	1232018-20	Pore Water	Sample	08/08/2012	08/09/2012
POM-Z-WR-21C-DIS	1232018-21	Pore Water	Sample	08/08/2012	08/09/2012
POM-Z-WR-21B-DIS	1232018-22	Pore Water	Sample	08/08/2012	08/09/2012
POM-Z-WR-22C-DIS	1232018-23	Pore Water	Sample	08/08/2012	08/09/2012
POM-Z-K-EQBLK-2	1232018-24	DIW	Equip. Blank	08/08/2012	08/09/2012

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Hg	Water	EPA 1631	08/10/2012	08/16/2012	B121429	1200638
Hg	Water	EPA 1631	08/15/2012	08/17/2012	B121451	1200642
MeHg	Water	EPA 1630	08/14/2012	08/17/2012	B121370	1200640

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
POM-K-EQBLK-1										
1232018-17	Hg	DIW	D	2.37		0.15	0.41	ng/L	B121451	1200642
1232018-17	MeHg	DIW	D	0.023	U	0.023	0.057	ng/L	B121370	1200640
POM-Z-K-EQBLK-2										
1232018-24	Hg	DIW	D	1.23		0.15	0.40	ng/L	B121451	1200642
1232018-24	MeHg	DIW	D	0.025	U	0.025	0.062	ng/L	B121370	1200640
POM-Z-WR-07.1B-DIS										
1232018-02	Hg	Pore Water	D	1.29		0.15	0.40	ng/L	B121429	1200638
1232018-02	MeHg	Pore Water	D	0.024	U	0.024	0.059	ng/L	B121370	1200640
POM-Z-WR-07-DIS										
1232018-01	Hg	Pore Water	D	0.96		0.16	0.42	ng/L	B121429	1200638
1232018-01	MeHg	Pore Water	D	0.023	U	0.023	0.058	ng/L	B121370	1200640
POM-Z-WR-08.1B-DIS										
1232018-04	Hg	Pore Water	D	2.64		0.16	0.43	ng/L	B121429	1200638
1232018-04	MeHg	Pore Water	D	0.038	B	0.024	0.060	ng/L	B121370	1200640
POM-Z-WR-08-DIS										
1232018-03	Hg	Pore Water	D	1.49		0.16	0.42	ng/L	B121429	1200638
1232018-03	MeHg	Pore Water	D	0.048	B	0.024	0.060	ng/L	B121370	1200640
POM-Z-WR-13.1C-DIS										
1232018-05	Hg	Pore Water	D	9.75		0.31	0.81	ng/L	B121429	1200638
1232018-05	MeHg	Pore Water	D	0.425		0.027	0.067	ng/L	B121370	1200640
POM-Z-WR-14.8A-DIS										
1232018-09	Hg	Pore Water	D	11.1		0.30	0.81	ng/L	B121429	1200638
1232018-09	MeHg	Pore Water	D	2.75		0.026	0.064	ng/L	B121370	1200640
POM-Z-WR-14B-DIS										
1232018-07	Hg	Pore Water	D	5570		15.2	40.4	ng/L	B121429	1200638
1232018-07	MeHg	Pore Water	D	0.427		0.023	0.057	ng/L	B121370	1200640

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
POM-Z-WR-14C-DIS										
1232018-08	Hg	Pore Water	D	272		15.2	40.4	ng/L	B121429	1200638
1232018-08	MeHg	Pore Water	D	0.387		0.023	0.058	ng/L	B121370	1200640
POM-Z-WR-14-DIS										
1232018-06	Hg	Pore Water	D	21.4		0.75	1.99	ng/L	B121429	1200638
1232018-06	MeHg	Pore Water	D	1.15		0.023	0.058	ng/L	B121370	1200640
POM-Z-WR-15.2A-DIS										
1232018-10	Hg	Pore Water	D	12.3		0.30	0.81	ng/L	B121429	1200638
1232018-10	MeHg	Pore Water	D	0.437		0.024	0.059	ng/L	B121370	1200640
POM-Z-WR-15.2B-DIS										
1232018-11	Hg	Pore Water	D	31.3		0.72	1.93	ng/L	B121429	1200638
1232018-11	MeHg	Pore Water	D	0.428		0.024	0.061	ng/L	B121370	1200640
POM-Z-WR-15.2C-DIS										
1232018-12	Hg	Pore Water	D	10.1		0.30	0.81	ng/L	B121429	1200638
1232018-12	MeHg	Pore Water	D	0.201		0.023	0.057	ng/L	B121370	1200640
POM-Z-WR-15.3A-DIS										
1232018-13	Hg	Pore Water	D	22.8		0.78	2.09	ng/L	B121429	1200638
1232018-13	MeHg	Pore Water	D	0.533		0.024	0.060	ng/L	B121370	1200640
POM-Z-WR-15.4AB-DIS										
1232018-14	Hg	Pore Water	D	437		3.03	8.08	ng/L	B121429	1200638
1232018-14	MeHg	Pore Water	D	0.055	B	0.024	0.060	ng/L	B121370	1200640
POM-Z-WR-15.4C-DIS										
1232018-15	Hg	Pore Water	D	9.66		0.30	0.81	ng/L	B121429	1200638
1232018-15	MeHg	Pore Water	D	0.592		0.024	0.060	ng/L	B121370	1200640
POM-Z-WR-15.4C-DIS-DUP										
1232018-16	Hg	Pore Water	D	23.6		0.30	0.79	ng/L	B121429	1200638
1232018-16	MeHg	Pore Water	D	0.415		0.025	0.062	ng/L	B121370	1200640



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
POM-Z-WR-19C-DIS										
1232018-18	Hg	Pore Water	D	7.05		0.28	0.75	ng/L	B121451	1200642
1232018-18	MeHg	Pore Water	D	1.85		0.023	0.057	ng/L	B121370	1200640
POM-Z-WR-19-DIS										
1232018-19	Hg	Pore Water	D	44.5		1.52	4.04	ng/L	B121451	1200642
1232018-19	MeHg	Pore Water	D	9.22		0.023	0.058	ng/L	B121370	1200640
POM-Z-WR-20-DIS										
1232018-20	Hg	Pore Water	D	1.08		0.23	0.61	ng/L	B121451	1200642
1232018-20	MeHg	Pore Water	D	0.025	U	0.025	0.063	ng/L	B121370	1200640
POM-Z-WR-21B-DIS										
1232018-22	Hg	Pore Water	D	2.38		0.24	0.63	ng/L	B121451	1200642
1232018-22	MeHg	Pore Water	D	0.130		0.024	0.060	ng/L	B121370	1200640
POM-Z-WR-21C-DIS										
1232018-21	Hg	Pore Water	D	1.40		0.23	0.61	ng/L	B121451	1200642
1232018-21	MeHg	Pore Water	D	0.197		0.024	0.059	ng/L	B121370	1200640
POM-Z-WR-22C-DIS										
1232018-23	Hg	Pore Water	D	25.9		0.26	0.70	ng/L	B121451	1200642
1232018-23	MeHg	Pore Water	D	0.749		0.022	0.055	ng/L	B121370	1200640

Accuracy & Precision Summary

Batch: B121370
Lab Matrix: Water
Method: EPA 1630

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B121370-BS1	Laboratory Fortified Blank (1230015) MeHg		1.010	1.002	ng/L	99% 67-133	
B121370-BS2	Laboratory Fortified Blank (1230015) MeHg		0.9930	1.088	ng/L	110% 67-133	
B121370-MS1	Matrix Spike (1232008-01) MeHg	0.300	1.086	1.405	ng/L	102% 65-135	
B121370-MSD1	Matrix Spike Duplicate (1232008-01) MeHg	0.300	1.099	1.350	ng/L	95% 65-135	4% 35
B121370-MS2	Matrix Spike (1232009-01) MeHg	0.420	1.117	1.529	ng/L	99% 65-135	
B121370-MSD2	Matrix Spike Duplicate (1232009-01) MeHg	0.420	1.099	1.636	ng/L	111% 65-135	7% 35
B121370-MS3	Matrix Spike (1232014-01) MeHg	0.123	0.8016	0.978	ng/L	107% 65-135	
B121370-MSD3	Matrix Spike Duplicate (1232014-01) MeHg	0.123	0.8020	0.978	ng/L	107% 65-135	0.03% 35



Accuracy & Precision Summary

Batch: B121429
Lab Matrix: Water
Method: EPA 1631

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B121429-SRM1	Certified Reference Material (1232065, NIST 1641d 1000x dilution)						
	Hg		15.68	15.96	ng/L	102% 85-115	
B121429-MS1	Matrix Spike (1231039-02)						
	Hg	23.75	122.0	157.3	ng/L	110% 71-125	
B121429-MSD1	Matrix Spike Duplicate (1231039-02)						
	Hg	23.75	121.4	159.7	ng/L	112% 71-125	1% 24
B121429-MS2	Matrix Spike (1232007-03)						
	Hg	22.79	109.3	146.9	ng/L	114% 71-125	
B121429-MSD2	Matrix Spike Duplicate (1232007-03)						
	Hg	22.79	109.3	143.1	ng/L	110% 71-125	3% 24

Accuracy & Precision Summary

Batch: B121451
Lab Matrix: Water
Method: EPA 1631

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B121451-SRM1	Certified Reference Material (1232065, NIST 1641d 1000x dilution)						
	Hg		15.68	15.73	ng/L	100% 85-115	
B121451-MS1	Matrix Spike (1232024-01)						
	Hg	39.73	197.5	261.0	ng/L	112% 71-125	
B121451-MSD1	Matrix Spike Duplicate (1232024-01)						
	Hg	39.73	194.6	245.9	ng/L	106% 71-125	6% 24

Method Blanks & Reporting Limits

Batch: B121370

Matrix: Water

Method: EPA 1630

Analyte: MeHg

Sample	Result	Units
B121370-BLK1	0.007	ng/L
B121370-BLK2	0.009	ng/L
B121370-BLK3	0.006	ng/L
B121370-BLK4	0.006	ng/L

Average: 0.007

Limit: 0.045

Standard Deviation: 0.001

Limit: 0.015

MDL: 0.022

MRL: 0.055

Project ID: DUP002
PM: Amanda Royal



BRL Report 1232018
Client PM: Candia Carle
Client PO: LBIO-66358

Method Blanks & Reporting Limits

Batch: B121429
Matrix: Water
Method: EPA 1631
Analyte: Hg

Sample	Result	Units
B121429-BLK1	0.23	ng/L
B121429-BLK2	0.11	ng/L
B121429-BLK3	0.09	ng/L
B121429-BLK4	0.07	ng/L

Average: 0.13
Limit: 0.50

Standard Deviation: 0.07
Limit: 0.10

MDL: 0.15
MRL: 0.40

Project ID: DUP002
PM: Amanda Royal



BRL Report 1232018
Client PM: Candia Carle
Client PO: LBIO-66358

Method Blanks & Reporting Limits

Batch: B121451
Matrix: Water
Method: EPA 1631
Analyte: Hg

Sample	Result	Units
B121451-BLK1	0.23	ng/L
B121451-BLK2	0.17	ng/L
B121451-BLK3	0.08	ng/L
B121451-BLK4	0.07	ng/L

Average: 0.14
Limit: 0.50

Standard Deviation: 0.08
Limit: 0.10

MDL: 0.15
MRL: 0.40



Instrument Calibration

Sequence: 1200638
Instrument: THG-05
Date: 08/16/2012
Analyte: Hg

Total Mercury and Mercury Speciation by CVAFS
Method: EPA 1631

Lab ID	True Value	Result	Units	REC & Limits	
1200638-IBL1		5.82	pg of Hg		
1200638-IBL2		6.51	pg of Hg		
1200638-IBL3		6.53	pg of Hg		
1200638-IBL4		6.43	pg of Hg		
1200638-CAL1	25.00	23.15	pg of Hg	93%	
1200638-CAL2	100.0	99.28	pg of Hg	99%	
1200638-CAL3	500.0	497.8	pg of Hg	100%	
1200638-CAL4	2500	2614	pg of Hg	105%	
1200638-CAL5	10000	10500	pg of Hg	105%	
1200638-ICV1	1568	1596	pg of Hg	102%	85-115
1200638-CCV1	500.0	436.8	pg of Hg	87%	77-123
1200638-CCB1		12.0	pg of Hg		
1200638-ICB1		24.75	pg of Hg		
1200638-CCV2	500.0	524.5	pg of Hg	105%	77-123
1200638-CCV3	500.0	476.2	pg of Hg	95%	77-123
1200638-CCB2		5.28	pg of Hg		
1200638-CCV4	500.0	507.3	pg of Hg	101%	77-123
1200638-CCV5	500.0	497.2	pg of Hg	99%	77-123



Instrument Calibration

Sequence: 1200640
Instrument: MMHG-09
Date: 08/17/2012
Analyte: MeHg

Total Mercury and Mercury Speciation by CVAFS
Method: EPA 1630

Lab ID	True Value	Result	Units	REC & Limits	
1200640-IBL1		0.155	pg MeHg		
1200640-IBL2		0.168	pg MeHg		
1200640-IBL3		0.197	pg MeHg		
1200640-CAL1	0.5000	0.494	pg MeHg	99%	
1200640-CAL2	1.000	0.993	pg MeHg	99%	
1200640-CAL3	2.000	2.118	pg MeHg	106%	
1200640-CAL4	10.00	10.98	pg MeHg	110%	
1200640-CAL5	50.00	47.38	pg MeHg	95%	
1200640-CAL6	250.0	208.8	pg MeHg	84%	
1200640-CAL7	1000	1147	pg MeHg	115%	
1200640-CCB1		1.67	pg MeHg		
1200640-ICV1	99.99	87.84	pg MeHg	88%	80-120
1200640-CCB2		3.68	pg MeHg		
1200640-CCV1	25.00	22.18	pg MeHg	89%	67-133
1200640-CCB3		0.382	pg MeHg		
1200640-CCB4		0.650	pg MeHg		
1200640-CCB5		0.319	pg MeHg		
1200640-CCV2	25.00	26.13	pg MeHg	105%	67-133
1200640-CCB6		0.290	pg MeHg		
1200640-CCV3	25.00	26.69	pg MeHg	107%	67-133
1200640-CCB7		0.260	pg MeHg		
1200640-CCV4	25.00	26.86	pg MeHg	107%	67-133
1200640-CCB8		0.151	pg MeHg		
1200640-CCV5	25.00	27.26	pg MeHg	109%	67-133
1200640-CCB9		0.122	pg MeHg		
1200640-CCV6	25.00	27.15	pg MeHg	109%	67-133
1200640-CCBA		0.193	pg MeHg		
1200640-CCV7	25.00	27.93	pg MeHg	112%	67-133
1200640-CCBB		0.155	pg MeHg		
1200640-CCV8	25.00	26.65	pg MeHg	107%	67-133
1200640-CCBC		0.143	pg MeHg		

Instrument Calibration

Sequence: 1200642
Instrument: THG-05
Date: 08/17/2012
Analyte: Hg

Total Mercury and Mercury Speciation by CVAFS
Method: EPA 1631

Lab ID	True Value	Result	Units	REC & Limits	
1200642-IBL1		5.91	pg of Hg		
1200642-IBL2		5.43	pg of Hg		
1200642-IBL3		4.83	pg of Hg		
1200642-IBL4		6.71	pg of Hg		
1200642-CAL1	25.00	25.25	pg of Hg	101%	
1200642-CAL2	100.0	93.67	pg of Hg	94%	
1200642-CAL3	500.0	477.2	pg of Hg	95%	
1200642-CAL4	2500	2661	pg of Hg	106%	
1200642-CAL5	10000	10470	pg of Hg	105%	
1200642-ICV1	1568	1573	pg of Hg	100%	85-115
1200642-CCV1	500.0	469.5	pg of Hg	94%	77-123
1200642-CCB1		12.0	pg of Hg		
1200642-CCB2		3260	pg of Hg		
1200642-CCB3		462	pg of Hg		
1200642-CCB4		645	pg of Hg		
1200642-CCB5		378	pg of Hg		
1200642-CCB6		284	pg of Hg		
1200642-CCB7		357	pg of Hg		
1200642-CCB8		222	pg of Hg		
1200642-CCV3	500.0	516.3	pg of Hg	103%	77-123
1200642-CCB9		2.30	pg of Hg		
1200642-CCV4	500.0	546.6	pg of Hg	109%	77-123
1200642-CCBA		3.49	pg of Hg		
1200642-ICB2		9.07	pg of Hg		
1200642-CCV5	500.0	546.0	pg of Hg	109%	77-123

Project ID: DUP002
PM: Amanda Royal



BRL Report 1232018
Client PM: Candia Carle
Client PO: LBIO-66358

Sample Containers

Lab ID: 1232018-01
Sample: POM-Z-WR-07-DIS

Report Matrix: Pore Water
Sample Type: Sample

Collected: 08/07/2012
Received: 08/08/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1202068	<2	Cooler
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1202068	<2	Cooler

Lab ID: 1232018-02
Sample: POM-Z-WR-07.1B-DIS

Report Matrix: Pore Water
Sample Type: Sample

Collected: 08/07/2012
Received: 08/08/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1202068	<2	Cooler
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1202068	<2	Cooler

Lab ID: 1232018-03
Sample: POM-Z-WR-08-DIS

Report Matrix: Pore Water
Sample Type: Sample

Collected: 08/07/2012
Received: 08/08/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1202068	<2	Cooler
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1202068	<2	Cooler

Lab ID: 1232018-04
Sample: POM-Z-WR-08.1B-DIS

Report Matrix: Pore Water
Sample Type: Sample

Collected: 08/07/2012
Received: 08/08/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1202068	<2	Cooler
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1202068	<2	Cooler

Project ID: DUP002
PM: Amanda Royal



BRL Report 1232018
Client PM: Candia Carle
Client PO: LBIO-66358

Sample Containers

Lab ID: 1232018-05
Sample: POM-Z-WR-13.1C-DIS

Report Matrix: Pore Water
Sample Type: Sample

Collected: 08/07/2012
Received: 08/08/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1202068	<2	Cooler
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1202068	<2	Cooler

Lab ID: 1232018-06
Sample: POM-Z-WR-14-DIS

Report Matrix: Pore Water
Sample Type: Sample

Collected: 08/07/2012
Received: 08/08/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1202068	<2	Cooler
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1202068	<2	Cooler

Lab ID: 1232018-07
Sample: POM-Z-WR-14B-DIS

Report Matrix: Pore Water
Sample Type: Sample

Collected: 08/07/2012
Received: 08/08/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1202068	<2	Cooler
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1202068	<2	Cooler

Lab ID: 1232018-08
Sample: POM-Z-WR-14C-DIS

Report Matrix: Pore Water
Sample Type: Sample

Collected: 08/07/2012
Received: 08/08/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1202068	<2	Cooler
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1202068	<2	Cooler

Project ID: DUP002
PM: Amanda Royal



BRL Report 1232018
Client PM: Candia Carle
Client PO: LBIO-66358

Sample Containers

Lab ID: 1232018-09
Sample: POM-Z-WR-14.8A-DIS

Report Matrix: Pore Water
Sample Type: Sample

Collected: 08/07/2012
Received: 08/08/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1202068	<2	Cooler
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1202068	<2	Cooler

Lab ID: 1232018-10
Sample: POM-Z-WR-15.2A-DIS

Report Matrix: Pore Water
Sample Type: Sample

Collected: 08/07/2012
Received: 08/08/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1202068	<2	Cooler
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1202068	<2	Cooler

Lab ID: 1232018-11
Sample: POM-Z-WR-15.2B-DIS

Report Matrix: Pore Water
Sample Type: Sample

Collected: 08/07/2012
Received: 08/08/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1202068	<2	Cooler
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1202068	<2	Cooler

Lab ID: 1232018-12
Sample: POM-Z-WR-15.2C-DIS

Report Matrix: Pore Water
Sample Type: Sample

Collected: 08/07/2012
Received: 08/08/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1202068	<2	Cooler
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1202068	<2	Cooler

Project ID: DUP002
PM: Amanda Royal



BRL Report 1232018
Client PM: Candia Carle
Client PO: LBIO-66358

Sample Containers

Lab ID: 1232018-13
Sample: POM-Z-WR-15.3A-DIS

Report Matrix: Pore Water
Sample Type: Sample

Collected: 08/07/2012
Received: 08/08/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1202068	<2	Cooler
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1202068	<2	Cooler

Lab ID: 1232018-14
Sample: POM-Z-WR-15.4AB-DIS

Report Matrix: Pore Water
Sample Type: Sample

Collected: 08/07/2012
Received: 08/08/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1202068	<2	Cooler
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1202068	<2	Cooler

Lab ID: 1232018-15
Sample: POM-Z-WR-15.4C-DIS

Report Matrix: Pore Water
Sample Type: Sample

Collected: 08/07/2012
Received: 08/08/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1202068	<2	Cooler
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1202068	<2	Cooler

Lab ID: 1232018-16
Sample: POM-Z-WR-15.4C-DIS-DUP

Report Matrix: Pore Water
Sample Type: Field Duplicate

Collected: 08/07/2012
Received: 08/08/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1202068	<2	Cooler
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1202068	<2	Cooler

Project ID: DUP002
PM: Amanda Royal



BRL Report 1232018
Client PM: Candia Carle
Client PO: LBIO-66358

Sample Containers

Lab ID: 1232018-17
Sample: POM-K-EQBLK-1

Report Matrix: DIW
Sample Type: Equip. Blank

Collected: 08/07/2012
Received: 08/08/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1202068	<2	Cooler
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1202068	<2	Cooler

Lab ID: 1232018-18
Sample: POM-Z-WR-19C-DIS

Report Matrix: Pore Water
Sample Type: Sample

Collected: 08/08/2012
Received: 08/09/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1229011	<2	Cooler 2
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1229011	<2	Cooler 2

Lab ID: 1232018-19
Sample: POM-Z-WR-19-DIS

Report Matrix: Pore Water
Sample Type: Sample

Collected: 08/08/2012
Received: 08/09/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1229011	<2	Cooler 2
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1229011	<2	Cooler 2

Lab ID: 1232018-20
Sample: POM-Z-WR-20-DIS

Report Matrix: Pore Water
Sample Type: Sample

Collected: 08/08/2012
Received: 08/09/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1229011	<2	Cooler 2
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1229011	<2	Cooler 2

Project ID: DUP002
PM: Amanda Royal



BRL Report 1232018
Client PM: Candia Carle
Client PO: LBIO-66358

Sample Containers

Lab ID: 1232018-21
Sample: POM-Z-WR-21C-DIS

Report Matrix: Pore Water
Sample Type: Sample

Collected: 08/08/2012
Received: 08/09/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1229011	<2	Cooler 2
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1229011	<2	Cooler 2

Lab ID: 1232018-22
Sample: POM-Z-WR-21B-DIS

Report Matrix: Pore Water
Sample Type: Sample

Collected: 08/08/2012
Received: 08/09/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1229011	<2	Cooler 2
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1229011	<2	Cooler 2

Lab ID: 1232018-23
Sample: POM-Z-WR-22C-DIS

Report Matrix: Pore Water
Sample Type: Sample

Collected: 08/08/2012
Received: 08/09/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1229011	<2	Cooler 2
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1229011	<2	Cooler 2

Lab ID: 1232018-24
Sample: POM-Z-K-EQBLK-2

Report Matrix: DIW
Sample Type: Equip. Blank

Collected: 08/08/2012
Received: 08/09/2012

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-T	250 mL	71659890 20	0.4% HCl (BRL)	1229011	<2	Cooler 2
B	Bottle Glass Hg-SP	125 mL	71402520 10	0.4% HCl (BRL)	1229011	<2	Cooler 2

Project ID: DUP002
PM: Amanda Royal



BRL Report 1232018
Client PM: Candia Carle
Client PO: LBIO-66358

Shipping Containers

Cooler

Received: August 8, 2012 9:15
Tracking No: 874613657017 via FedEx
Coolant Type: Ice
Temperature: 0.3 °C

Description: Cooler
Damaged in transit? No
Returned to client? No

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes

Cooler 2

Received: August 9, 2012 8:45
Tracking No: 8684 2268 8097 via FedEx
Coolant Type: Ice
Temperature: 0.1 °C

Description: Cooler 2
Damaged in transit? No
Returned to client? No

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes



MEANINGFUL METALS DATA

3958 6th Avenue NW
Seattle, WA 98107
Phone: 206-632-6206
Fax: 206-632-6017

samples@brooksrand.com
www.brooksrand.com

Chain of Custody Record

Page 1 of 2
BRL Report 4232018

1232018

White: LAB COPY
Yellow: CUSTOMER COPY

Client: DuPont		Address: Iron Hill Corporate Center Newark, DE 19713		COC receipt confirmation? <u>Y</u> / N If so, by: <u>email</u> / fax (circle one)	
Contact: Candia Carle					
Client project ID: DUP002		DuPont Pompton Lakes Works, NJ		Email: <u>gary.long@us.6m</u>	
PO #: LBIO-66358		Phone #: 302-781-5880		Fax #:	

Sample ID	Collection		Miscellaneous				Field Preservation			Analyses required						Comments		
	Date	Time	Sampler (initials)	Matrix type	# of containers	Field filtered? (Y/N)	Unpreserved / ice only	<u>NONE</u> / HNO ₃ (circle one) <u>Receipt</u>	Other (specify)	Dis-Methyl Hg, EPA 1630	Dis Hg, EPA 1631							
1	POM-Z-WR-07-DIS	8/7/12	15:30	SC/BP	PW	1	Y	X	X		X	X						* Receive samples upon Receipt.
2	POM-Z-WR-07.1B-DIS		16:00		PW	1	Y	X	X		X	X						All samples have been field filtered but have <u>not</u> been preserved
3	POM-Z-WR-08-DIS		16:45		PW	1	Y	X	X		X	X						
4	POM-Z-WR-08.1B-DIS		17:00		PW	1	Y	X	X		X	X						
5	POM-Z-WR-13.1C-DIS		09:20		PW	1	Y	X	X		X	X						
6	POM-Z-WR-14-DIS		09:50		PW	1	Y	X	X		X	X						
7	POM-Z-WR-14B-DIS		10:30		PW	1	Y	X	X		X	X						
8	POM-Z-WR-14C-DIS		10:45		PW	1	Y	X	X		X	X						
9	POM-Z-WR-14.8A-DIS		11:20		PW	1	Y	X	X		X	X						
10	POM-Z-WR-15.2A-DIS		12:10		PW	1	Y	X	X		X	X						

Relinquished by: <u>Jim A. Collier</u>	Date: <u>8/7/12</u>	Time: <u>18:30</u>	Relinquished by:	Date:	Time:
Received by:	Date:	Time:	Received at BRL by: <u>Counting</u>	Date: <u>8/8/12</u>	Time: <u>0915</u>
Shipping carrier: <u>Fed Ex</u>	# of coolers: <u>1</u>	BRL work order ID:	BRL project ID:		



MEANINGFUL METALS DATA

3958 6th Avenue NW
Seattle, WA 98107
Phone: 206-632-6206
Fax: 206-632-6017

samples@brooksrands.com
www.brooksrands.com

Chain of Custody Record

1232018

Page 2 of 3
BRL Report 4232018

White: LAB COPY
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Client: DuPont		Address: Iron Hill Corporate Center Newark, DE 19713		COC receipt confirmation? <u>Y</u> / N If so, by: email / fax (circle one)	
Contact: Candia Carle					
Client project ID: DUP002		DuPont Pompton Lakes Works, NJ		Email: <u>gary.long@URS.com</u>	
PO #: LBIO-66358		Phone #: 302-781-5880		Fax #:	

Requested TAT in business days: ☒ 20 (standard) ☐ 15 ☐ 10 ☐ 5 ☐ Other _____ Surcharges apply for expedited turn around times.		Collection		Miscellaneous			Field Preservation			Analyses required						Comments		
Sample ID	Date	Time	Sampler (initials)	Matrix type	# of containers	Field filtered? (Y/N)	Unpreserved / ice only	Hg / HNO ₃ (circle one)	Other (specify)	Dis MeHg, EPA 1630	Dis Hg, EPA 1631							
1	POM-Z-WR-15.2B-DIS	8/7	12:25	SC/BB	PW	1	Y	X	X		X	X						* All samples are UN preserved and need to be preserved upon receipt.
2	POM-Z-WR-15.2C-DIS		12:45		PW	1	Y	X	X		X	X						
3	POM-Z-WR-15.3A-DIS		13:10		PW	1	Y	X	X		X	X						
4	POM-Z-WR-15.4AB-DIS		13:30		PW	1	Y	X	X		X	X						
5	POM-Z-WR-15.4C-DIS		13:50		PW	1	Y	X	X		X	X						
6	POM-Z-WR-15.4D-DIS		13:55		PW	1	Y	X	X		X	X						
7	~~POM-Z-WR-19-DIS~~		18:45	SC/BB	PW	1	Y	X	X		X	X						POM-K-EQB1K-1
8	~~POM-Z-WR-20-DIS~~				PW	1	Y		X		X	X						
9	~~POM-Z-WR-21B-DIS~~				PW	1	Y		X		X	X						
10	~~POM-Z-WR-21C-DIS~~				PW	1	Y		X		X	X						

Relinquished by: <u>[Signature]</u>		Date: <u>8/7/12</u>		Time: <u>18:30</u>		Relinquished by:		Date:		Time:	
Received by:		Date:		Time:		Received at BRL by: <u>[Signature]</u>		Date: <u>8/8/12</u>		Time: <u>0915</u>	
Shipping carrier:		# of coolers:		BRL work order ID:				BRL project ID:			



MEANINGFUL METALS DATA

3958 6th Avenue NW
Seattle, WA 98107
Phone: 206-632-6206
Fax: 206-632-6017

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www.brooksrands.com

Chain of Custody Record

Page 1 of 1

1232018

White: LAB COPY
Yellow: CUSTOMER COPY

Client: Dupont		Address: IRON HILL corporate		COC receipt confirmation? ☒ / N	
Contact: Carla Carle		Newark, DE 19713		If so, by: <u>email</u> / fax (circle one)	
Client project ID: Dupond		Dupont Smelter Lakes, NJ		Email: gary.lung@ups.com	
PO #: LB10-66358		Phone #: 302 781 5880		Fax #:	

Requested TAT in business days: ☒ 20 (standard) ☐ 15 ☐ 10 ☐ 5 ☐ Other _____ Surcharges apply for expedited turn around times.	Collection		Miscellaneous				Field Preservation		Analyses required								Comments		
	Date	Time	Sampler (initials)	Matrix type	# of containers	Field filtered? (Y/N)	Unpreserved / Ice only	HCl / HNO ₃ (circle one)	Other (specify)	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As / Se species (specify)	% Solids	Filtration	Other (specify)		Other (specify)	
	1	Pom-Z-WR-19C-DES	8/8/12	8:45	SL/BR	Pu	1	Y	X			X	X						* All samples are field
	2	Pom-Z-WR-19C-DES	8/8/12	9:05			1	Y	X			X	X					Filtered but <u>not</u>	
	3	Pom-Z-WR-20C-DES	8/8/12	10:50			1	Y	X			X	X					preserved.	
	4	Pom-Z-WR-21C-DES	8/8/12	12:15			1	Y	X			X	X					Please preserve during	
	5	Pom-Z-WR-21B-DES	8/8/12	12:00			1	Y	X			X	X					check-in.	
	6	Pom-Z-WR-22C-DES	8/8/12	13:45			1	Y	X			X	X						
	7	Pom-K-EQBLK-2	8/8/12	16:45			1	Y	X			X	X						
	8																		
	9																		
	10																		

Relinquished by: John Williams	Date: 8/8/12	Time: 18:00	Relinquished by:	Date:	Time:
Received by:	Date:	Time:	Received at BRL by: Cristina	Date: 8/9/12	Time: 0845
Shipping carrier:	# of coolers:	BRL work order ID:	BRL project ID:		

FedEx Express US Airbill

 FedEx
Tracking
Number

8746 1365 7017

0200

Form
ID No.

FedEx Retrieval Copy

1 From Date 8/7/12 Sender's FedEx Account Number 0331544515

Sender's Name Josh Collins Phone 604 602.4674

Company URS Corporation

Address 335 Commerce Drive

City Ft. Washington, State PA ZIP 19034

Your Internal Billing Reference

To Recipient's Name Brooks Rand Lab3 Phone 206 630

Company

Address 3958 6th Avenue NW

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address Seattle

City Seattle State WA ZIP 98107

Dept./Room/Suite/Room

31 ☐ HOLD Weekday
FedEx location address
REQUIRED. NOT available for
FedEx First Overnight.

31 ☐ HOLD Saturday
FedEx location address
REQUIRED. Available ONLY for
FedEx Priority Overnight and
FedEx 2Day to select locations.

4a Express Package Service

01 ☒ FedEx Priority Overnight
Next business morning. * Friday
shipments will be delivered on Monday
unless SATURDAY Delivery is selected.

05 ☐ FedEx Standard Overnight
Next business afternoon.
Saturday Delivery NOT available.

06 ☐ FedEx First Overnight
Earliest next business morning
delivery to select locations.*

03 ☐ FedEx 2Day
Second business day. * Thursday
shipments will be delivered on Monday
unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver
Third business day.
Saturday Delivery NOT available.

4b Express Freight Service

70 ☐ FedEx 1Day Freight
Next business day. * Friday shipments will
be delivered on Monday unless SATURDAY
Delivery is selected.

80 ☐ FedEx 2Day Freight
Second business day. * Thursday shipments will be delivered
on Monday unless SATURDAY Delivery is selected.

83 ☐ FedEx 3Day Freight
Third business day. * Saturday Delivery NOT available.

5 Packaging *Declared value limit \$500.

06 ☐ FedEx Envelope* 02 ☐ FedEx Pak*
Includes FedEx Small Pak and
FedEx Large Pak.

03 ☐ FedEx Box 04 ☐ FedEx Tube 01 ☒ Other

6 Special Handling and Delivery Signature Options

03 SATURDAY DELIVERY

☐ No Signature Required
Package may be left without
obtaining a signature for delivery.

10 ☐ Direct Signature
Someone at recipient's address
may sign for delivery. Fee applies.

34 ☐ Indirect Signature
If no one is available at recipient's
address, someone at a neighboring
address may sign for delivery. For
residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?
One box must be checked.

☒ No 04 ☐ Yes
As per attached
Shipper's Declaration.

☐ Yes
Shipper's Declaration
not required.

06 ☐ Dry Ice
Dry Ice, 5, UN 1845

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging
or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment Bill to:

1 ☒ Sender
Acct. No. in Section
1 will be billed.

2 ☐ Recipient

3 ☐ Third Party

4 ☐ Credit Card

5 ☐ Cash/Check

Enter FedEx Acct. No. or Credit Card No. below.

Obtain recip.
Acct. No. ☐

Total Packages 1 Total Weight 50 lbs.

Credit Card Auth.

Your liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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8746 1365 7017

606

FedEx Express **US Airbill**

8684 2268 8097

0200

Form ID No.

FedEx Retrieval Copy

1 From
Date 8/6/12 Sender's FedEx Account Number 0331544515
Sender's Name 3056 WILKES Phone 609 602 1694
Company WILKES
Address 325 WILKES Dept./Floor/Suite/Room
City FL State PA ZIP 19024

2 Your Internal Billing Reference

3 To
Recipient's Name Samuel P. P... Phone 706 602 1694
Company B...
Recipient's Address 3955 6th Ave NW Dept./Floor/Suite/Room
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Address SE
To request a package be held at a specific FedEx location, print FedEx address here.
City SEATTLE State WA ZIP 98107

4a Express Package Service Packages up to 150 lbs.
1 ☒ **FedEx Priority Overnight** Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
5 ☐ **FedEx Standard Overnight** Next business afternoon.* Saturday Delivery NOT available.
6 ☐ **FedEx First Overnight** Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
3 ☐ **FedEx 2Day** Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
20 ☐ **FedEx Express Saver** Third business day.* Saturday Delivery NOT available.
* FedEx Envelope rate not available. Minimum charge: One-pound rate. *To most locations.

4b Express Freight Service Packages over 150 lbs.
7 ☐ **FedEx 1Day Freight** Next business day.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
8 ☐ **FedEx 2Day Freight** Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
83 ☐ **FedEx 3Day Freight** Third business day.* Saturday Delivery NOT available.
* Call for Confirmation. **To most locations.

5 Packaging
6 ☐ **FedEx Envelope*** 2 ☐ **FedEx Pak*** Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. 3 ☐ **FedEx Box** 4 ☐ **FedEx Tube** 1 ☒ **Other**
*Declared value limit \$500.

6 Special Handling Include FedEx address in Section 3.
3 ☐ **FedEx 1Day Freight** Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 2Day Freight.
1 ☐ **HOLD Weekday at FedEx Location** Not available for FedEx First Overnight.
31 ☐ **HOLD Saturday at FedEx Location** Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.
Does this shipment contain dangerous goods? One box must be checked.
☒ No 4 ☐ Yes As per attached Shipper's Declaration. Yes Shipper's Declaration not required.
6 ☐ **Dry Ice** Dry Ice, S, UN 1845 x kg. ☐ **Cargo Aircraft Only**
Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No.
1 ☒ **Sender** Acct. No. in Section 1 will be billed. 2 ☐ **Recipient** 3 ☐ **Third Party** 4 ☐ **Credit Card** 5 ☐ **Cash/Check**

Total Packages 1 Total Weight 2.00 **520**

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.
No Signature Required Packages may be left without obtaining a signature for delivery. 10 ☐ **Direct Signature** Someone at recipient's address may sign for delivery. Fee applies. 34 ☐ **Indirect Signature** If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

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ANALYSIS SEQUENCE

BRL Report 1232018

Brooks Rand Labs

1200638

Instrument: THG-05

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1200638-IBL1	1200638	QC	1		-			
1200638-IBL2	1200638	QC	2		-			
1200638-IBL3	1200638	QC	3		-			
1200638-IBL4	1200638	QC	4		-			
1200638-CAL1	1200638	QC	5	1232058	-			
1200638-CAL2	1200638	QC	6	1232059	-			
1200638-CAL3	1200638	QC	7	1232060	-			
1200638-CAL4	1200638	QC	8	1232061	-			
1200638-CAL5	1200638	QC	9	1232062	-			
1200638-ICV1	1200638	QC	10	1232064	-			
B121429-SRM1	B121429	QC	11		-			
1200638-CCV1	1200638	QC	12	1232063	-			
B121429-BLK1	B121429	QC	13		-			
1200638-CCB1	1200638	QC	14		-			
B121429-BLK2	B121429	QC	15		-			
B121429-BLK3	B121429	QC	16		-			
B121429-BLK4	B121429	QC	17		-			
1200638-ICB1	1200638	QC	18		-			
1232012-03	B121429	Hg-W-BrCl-CVAFS-TR	19			CIT-TW0802	8/17/2012	Notify PM if Effluent is >2.0 ng/L Hist: CIT002
1232007-02	B121429	Hg-W-BrCl-CVAFS-TR	20			DUK-HV1201	8/17/2012	
1231039-01	B121429	Hg-W-BrCl-CVAFS-TR	21			CGP-GP1001	8/27/2012	
1232007-04	B121429	Hg-W-BrCl-CVAFS-TR	22			DUK-HV1201	8/17/2012	
1231039-02	B121429	Hg-W-BrCl-CVAFS-TR	23			CGP-GP1001	8/27/2012	
1232007-03	B121429	Hg-W-BrCl-CVAFS-TR	24			DUK-HV1201	8/17/2012	
1232011-01	B121429	Hg-W-BrCl-CVAFS-TR	25			ORS-CN1201	8/29/2012	
1232011-03	B121429	Hg-W-BrCl-CVAFS-TR	26			ORS-CN1201	8/29/2012	

ANALYSIS SEQUENCE

BRL Report 1232018

Brooks Rand Labs

1200638

Instrument: THG-05

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1231039-03	B121429	Hg-W-BrCl-CVAFS-TR	27			CGP-GP1001	8/27/2012	
1232018-01	B121429	Hg-W-BrCl-CVAFS-Diss	28			DUP002	8/30/2012	
1232018-07	B121429	Hg-W-BrCl-CVAFS-Diss	29			DUP002	8/30/2012	
1232018-13	B121429	Hg-W-BrCl-CVAFS-Diss	30			DUP002	8/30/2012	
1232018-15	B121429	Hg-W-BrCl-CVAFS-Diss	31			DUP002	8/30/2012	
B121429-MS1	B121429	QC	32		1231039-02			
B121429-MSD1	B121429	QC	33		1231039-02			
B121429-MS2	B121429	QC	34		1232007-03			
B121429-MSD2	B121429	QC	35		1232007-03			
B121429-MS3	B121429	QC	36		1232011-01			
B121429-MSD3	B121429	QC	37		1232011-01			
1232018-01RE1	B121429	Hg-W-BrCl-CVAFS-Diss	38			DUP002	8/30/2012	Added 8/16/2012 by M_H
1232018-13RE1	B121429	Hg-W-BrCl-CVAFS-Diss	39			DUP002	8/30/2012	Added 8/16/2012 by M_H
1232018-15RE1	B121429	Hg-W-BrCl-CVAFS-Diss	40			DUP002	8/30/2012	Added 8/16/2012 by M_H
1200638-CCV2	1200638	QC	41	1232063	-			
1233001-01	B121429	Hg-W-BrCl-CVAFS-TR	42			BCT001	8/17/2012	Please notify PM if the sample result is >14ng/L
1232018-02	B121429	Hg-W-BrCl-CVAFS-Diss	43			DUP002	8/30/2012	
1232018-03	B121429	Hg-W-BrCl-CVAFS-Diss	44			DUP002	8/30/2012	
1232018-04	B121429	Hg-W-BrCl-CVAFS-Diss	45			DUP002	8/30/2012	
1232018-05	B121429	Hg-W-BrCl-CVAFS-Diss	46			DUP002	8/30/2012	
1232018-06	B121429	Hg-W-BrCl-CVAFS-Diss	47			DUP002	8/30/2012	
1232018-08	B121429	Hg-W-BrCl-CVAFS-Diss	48			DUP002	8/30/2012	
1232018-09	B121429	Hg-W-BrCl-CVAFS-Diss	49			DUP002	8/30/2012	
1232018-11	B121429	Hg-W-BrCl-CVAFS-Diss	50			DUP002	8/30/2012	
1232018-10	B121429	Hg-W-BrCl-CVAFS-Diss	51			DUP002	8/30/2012	
B121429-MS4	B121429	QC	52		1233001-01			

ANALYSIS SEQUENCE

BRL Report 1232018

Brooks Rand Labs

1200638

Instrument: THG-05

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
B121429-MSD4	B121429	QC	53		1233001-01			
1232018-02RE1	B121429	Hg-W-BrCl-CVAFS-Diss	54			DUP002	8/30/2012	Added 8/16/2012 by M_H
1232018-03RE1	B121429	Hg-W-BrCl-CVAFS-Diss	55			DUP002	8/30/2012	Added 8/16/2012 by M_H
1232018-04RE1	B121429	Hg-W-BrCl-CVAFS-Diss	56			DUP002	8/30/2012	Added 8/16/2012 by M_H
1232018-05RE1	B121429	Hg-W-BrCl-CVAFS-Diss	57			DUP002	8/30/2012	Added 8/16/2012 by M_H
1232018-06RE1	B121429	Hg-W-BrCl-CVAFS-Diss	58			DUP002	8/30/2012	Added 8/16/2012 by M_H
1232018-09RE1	B121429	Hg-W-BrCl-CVAFS-Diss	59			DUP002	8/30/2012	Added 8/16/2012 by M_H
1232018-11RE1	B121429	Hg-W-BrCl-CVAFS-Diss	60			DUP002	8/30/2012	Added 8/16/2012 by M_H
1232018-10RE1	B121429	Hg-W-BrCl-CVAFS-Diss	61			DUP002	8/30/2012	Added 8/16/2012 by M_H
1200638-CCV3	1200638	QC	62	1232063	-			
1232018-12	B121429	Hg-W-BrCl-CVAFS-Diss	63			DUP002	8/30/2012	
1232018-14	B121429	Hg-W-BrCl-CVAFS-Diss	64			DUP002	8/30/2012	
1232018-16	B121429	Hg-W-BrCl-CVAFS-Diss	65			DUP002	8/30/2012	
1232007-01	B121429	Hg-W-BrCl-CVAFS-TR	66			DUK-HV1201	8/17/2012	
1232011-02	B121429	Hg-W-BrCl-CVAFS-Diss	67			ORS-CN1201	8/29/2012	
1232011-04	B121429	Hg-W-BrCl-CVAFS-Diss	68			ORS-CN1201	8/29/2012	
1232012-02	B121429	Hg-W-BrCl-CVAFS-TR	69			CIT-TW0802	8/17/2012	Notify PM if Effluent is >2.0 ng/L Hist: CIT002
1231039-04	B121429	Hg-W-BrCl-CVAFS-TR	70			CGP-GP1001	8/27/2012	
1231039-05	B121429	Hg-W-BrCl-CVAFS-TR	71			CGP-GP1001	8/27/2012	
1200638-CCB2	1200638	QC	72		-			
1200638-CCV4	1200638	QC	73	1229079	-			
1231039-06	B121429	Hg-W-BrCl-CVAFS-TR	74			CGP-GP1001	8/27/2012	
1231039-07	B121429	Hg-W-BrCl-CVAFS-TR	75			CGP-GP1001	8/27/2012	
1231039-08	B121429	Hg-W-BrCl-CVAFS-Diss	76			CGP-GP1001	8/27/2012	
1232012-01	B121429	Hg-W-BrCl-CVAFS-TR	77			CIT-TW0802	8/17/2012	Notify PM if Effluent is >2.0 ng/L Hist: CIT002
1232018-14RE1	B121429	Hg-W-BrCl-CVAFS-Diss	78			DUP002	8/30/2012	Added 8/16/2012 by M_H

ANALYSIS SEQUENCE

BRL Report 1232018

Brooks Rand Labs

1200638

Instrument: THG-05

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1232011-04RE1	B121429	Hg-W-BrCl-CVAFS-Diss	79			ORS-CN1201	8/29/2012	Added 8/16/2012 by M_H
1200638-CCV5	1200638	QC	80	1229079	-			
1233001-01	B121429	Hg-W-BrCl-CVAFS-Diss	81			BCT001	1/1/1980	BatchQC
1232011-01	B121429	Hg-W-BrCl-CVAFS-Diss	82			ORS-CN1201	1/1/1980	BatchQC
1232007-03	B121429	Hg-W-BrCl-CVAFS-Diss	83			DUK-HV1201	1/1/1980	BatchQC
1231039-02	B121429	Hg-W-BrCl-CVAFS-Diss	84			CGP-GP1001	1/1/1980	BatchQC

SOP(s) / Rev#(s): 0006-084e**Hg Analysis Sheet : T-Hg** Other: _____Page 1 of 3Sequence: 1200630Batch(es): B121429Analyst: MCHDate: 8.16.12Instrument ID: TL4-0510ng/mL std ID: 12320361ng/mL std ID: 1232055ICV std ID: 1233012NH₂OH·HCl #: 1232004SnCl₂ #: 1230056Initial offset: 10,021Initial PMT: 494.6Trap Serial #: 12145

Run #	Split Bottle	Trap	Bubb.	Brooks Rand Sample ID	Analy. Vol. (mL)	Dilution Factor	Analysis comments / For spiked QC: Source sample, standard ID, and spiked volume (mL)
1	1	1	1	SEQ-IBL1	---		
2	2	2	2	SEQ-IBL2	---		
3	3	3	3	SEQ-IBL3	---		
4	4	4	4	SEQ-IBL4	---		
5	1	6	1	SEQ-CAL1	0.025		1ng/mL
6	2	7	2	SEQ-CAL2	0.100		1ng/mL
7	3	8	3	SEQ-CAL3	0.050		10ng/mL
8	4	10	4	SEQ-CAL4	0.250		10ng/mL
9	1	11	1	SEQ-CAL5	1.00		10ng/mL
10	2	12	2	SEQ-ICV1	1.00		NIST 1641d
11	3	1	3	SEQ-CCV	0.050		10ng/mL
12	4	2	4	B121429-BLK1	100.93		
13	1	3	1	SEQ-CCB1	---		
14	2	4	2	B121429-BLK2	99.22		
15	3	6	3	↓ -BLK3	100.10		
16	4	7	4	↓ -BLK4	100.86		
17	1	8	1	SEQ-TOX2-ICB	100.63		
18	2	10	2	1232012-03	99.95		
19	3	11	3	1232007-02	99.36		
20	4	12	4	1231039-01	50.91		
21	1	1	1	1232007-04	99.77		
22	2	2	2	1231039-02	50.92		
23	3	3	3	1232007-03	30.40		
24	4	4	4	1232011-01	99.20		

Comments: _____

Balance ID: BL-01

SOP(s) / Rev#(s): 0006-004eHg Analysis Sheet: T-Hg / Other: _____Page 2 of 3Sequence: 1200638 Analyst: MLH Date: 8.16.12

Run #	Split Bottle	Trap	Bubb.	Brooks Rand Sample ID	Analy. Vol. (mL)	Dilution Factor	Analysis comments / For spiked QC: Source sample, standard ID, and spiked volume (mL)
25	1	6	1	1232011-03	100.74		
26	2	7	2	1231039-03	50.66		
27	3	8	3	1232018-01	1.00		
28	4	10	4	↓ -07	1.00		
29	1	11	1	↓ -13	↓		
30	2	12	2	↓ -15	↓		
31	3	1	3	B121429-MS1	50.20		NATIVE: 1231039-02 + 6000 (600 µL of 10 ng/mL)
32	4	2	4	↓ -MSD1	50.42		↓
33	1	3	1	↓ -MS2	29.88		NATIVE: 1232007-03 + 3200 (320 µL of 10 ng/mL)
34	2	4	2	↓ -MSD2	29.88		↓
35	3	6	3	↓ -MS3	100.00		NATIVE: 1232011-01 + 900 (900 µL of 1 ng/mL)
36	4	7	4	↓ -MSD3	99.65		↓
37	1	8	1	1232018-01 RE1	97.15		
38	2	10	2	↓ -13 RE1	19.36		
39	3	11	3	↓ -15 RE1	50.12		
40	4	12	4	SEQ-CCV	0.050		10 ng/mL
41	1	1	1	1233001-01	75.32		
42	2	2	2	1232018-02	1.00		
43	3	3	3	↓ -03	↓		
44	4	4	4	↓ -04	↓		
45	1	6	1	1232018-05	↓		
46	2	7	2	↓ -06	↓		
47	3	8	3	↓ -08	↓		
48	4	10	4	↓ -09	↓		
49	1	11	1	1232018-11	1.00		
50	2	12	2	↓ -10	1.00		
51	3	1	3	B121429-MS4	76.33		NATIVE: 1233001-01 + 2500 (250 µL of 10 ng/mL)
52	4	2	4	↓ -MSD4	74.61		↓
53	1	3	1	1232018-02 RE1	100.15		
54	2	4	2	↓ -03 RE1	97.02		
55	3	6	3	↓ -04 RE1	94.28		
56	4	7	4	↓ -05 RE1	49.67		

Comments: _____

SOP(s) / Rev#(s): 0006-007C

Hg Analysis Sheet: T-Hg Other: _____

Page 3 of 3

Sequence: 1200638

Analyst: MHT

Date: 8.16.12

Run #	Split Bottle	Trap	Bubb.	Brooks Rand Sample ID	Analy. Vol. (mL)	Dilution Factor	Analysis comments / For spiked QC: Source sample, standard ID, and spiked volume (mL)
57	1	9	1	1232018-06RE1	20.30		
58	2	10	2	-09RE1	49.94		
59	3	11	3	-11RE1	20.91		
60	4	12	4	-10RE1	50.12		
61	1	1	1	SEQ-CCV	11.050		10ng/mL
62	2	2	2	1232018-12	49.79		
63	3	3	3	-14	50.79		COVER CAN 5 72x: WITH KUNN)
64	4	4	4	-16	50.88		
65	1	6	1	1232007-01	5.00		
66	2	7	2	1232011-02	100.51		
67	3	8	3	-04	99.58		IN HIGHT BUBBLER: WILL REVIEW
68	4	10	4	1232012-02	99.43		
69	1	11	1	1231039-04	49.10		
70	2	12	2	-05	49.14		
71	3	1	3	-06	50.25		SEQ-CCB2
72	4	2	4	SEQ-CCV	11.050		10ng/mL
73	1	3	1	1231039-06	49.46		
74	2	4	2	-07	99.68		
75	3	5	3	-08	99.20		
76	4	7	4	1232012-01	16.00		
77	1	8	1	1232018-14RE1	5.00		
78	2	10	2	1232011-04RE1	100.72		
79	3	11	3	SEQ-CCV	11.050		10ng/mL
MHT 8.16.12							

Comments: _____

Prepped By: AAP

Batch: B121429

Prep Start Date/Time: 8.10.12/1531

BrCl ID: 1230052

1st - 24 hr Check Date/Time: 10.10 8.16.12

Prep End Date/Time: 8.10.12/1550

2nd - 24 hr Check Date/Time: 3.10 8.16.12

* Time when the first reagents are added.

** Time when the last sample is brought up to volume.

Sample ID	Sample Aliquot (mL)	BrCl added (mL)	%BrCl	24-hr Check (Initials)	only fill out if additional BrCl is added		
					Additional BrCl Added (mL)	2nd - 24 hr Check (Initials)	Adjusted %BrCl
1231039-01	250	5	2%	MCH			
1231039-02							
1231039-03							
1231039-04							
1231039-05							
1231039-06							
1231039-07		2.5	1%				
1231039-08							
1232007-01							
1232007-02							
1232007-03		5	2%				
1232007-04		2.5	1%				
1232011-01	500	10	2%				
1232011-02		5	1%				
1232011-03	250		2%				
1232011-04		2.5	1%				
1232012-01		5	2%		7.5	MCH	5% *
1232012-02		2.5	1%				
1232012-03							
1232018-01	100	1					
1232018-02							
1232018-03							
1232018-04							
1232018-05							
1232018-06							
1232018-07							
1232018-08							
1232018-09							
1232018-10							
1232018-11							
1232018-12							
1232018-13							
1232018-14							
1232018-15							
1232018-16							
B121429-BLK1	250	2.5					
B121429-BLK2							
B121429-BLK3							
B121429-BLK4							
~~11.11.12~~							

Date/Time in: 8.13.12/1035
Date/Time out: 8.13.12/1435

Thermometer ID: PL-12

Oven Temp (measured / corrected): 65 / 65
Oven Temp (measured / corrected): 64 / 64

NOTES:

timer
2nd oven for 2nd pg.

* OVEN FOR
PL-12
65/65
TIMER
Rev. 05/07/12
8.14.12 11:05

* Time when the first reagents are added.

**** Time when the last sample is brought up to volume.**

Date/Time in: 8.15.12/1017
Date/Time out: 8.15.12/1417

Thermometer ID: PL-12
 Sured / corrected): 66 / 66
 Sured / corrected): /

NOTES:

timer

Rev. 05/07/12

Peak Report

Batch Number: B121429

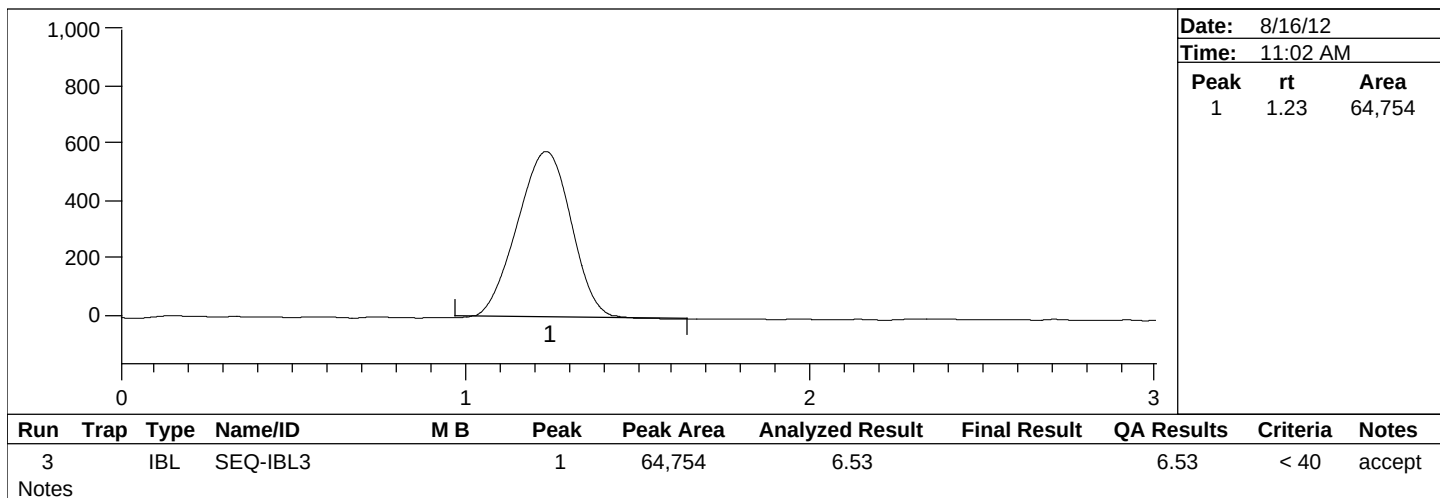
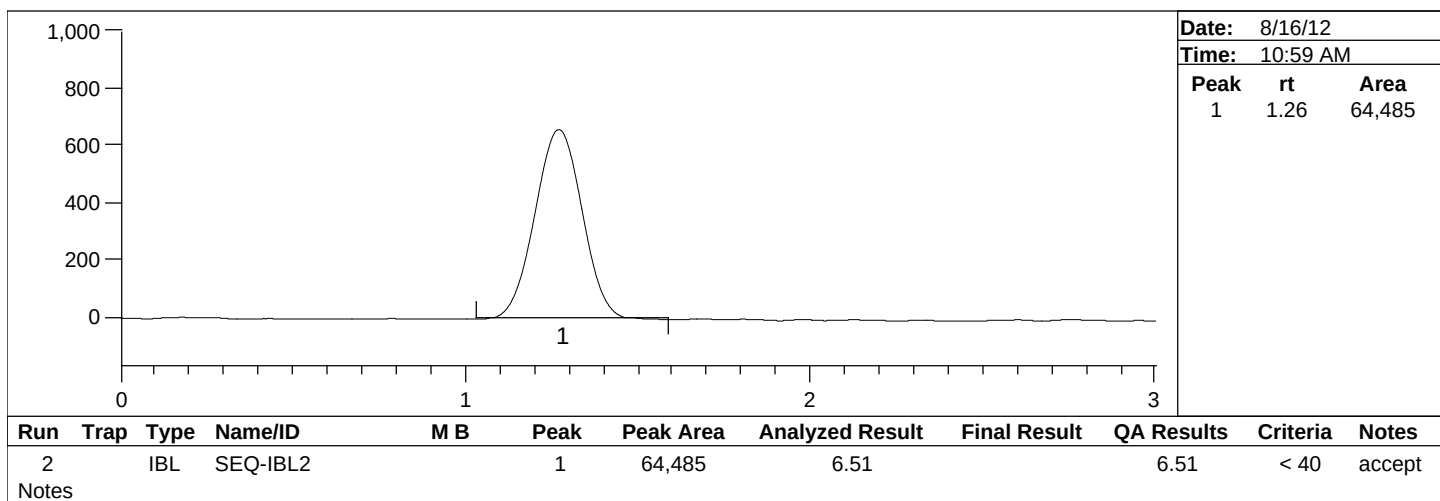
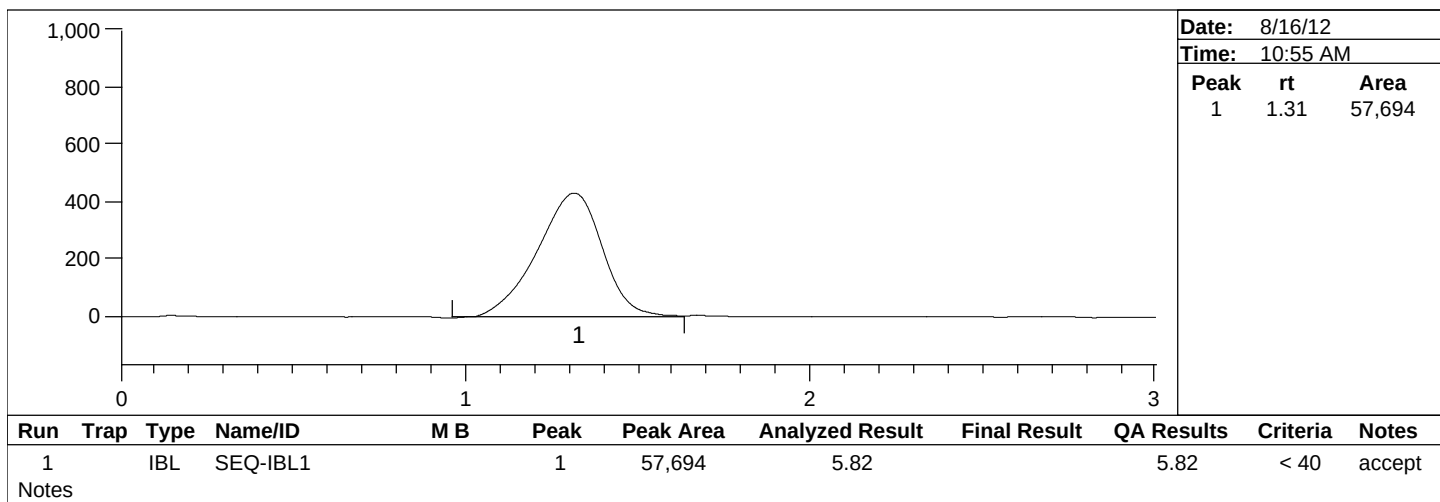
Method Number: CVAFS BR-0006

Project Number(s): 1200638

Instrument ID: THG-05

Date Analyzed: 8/16/12

Analyst Name: MLH



Peak Report

Batch Number: B121429

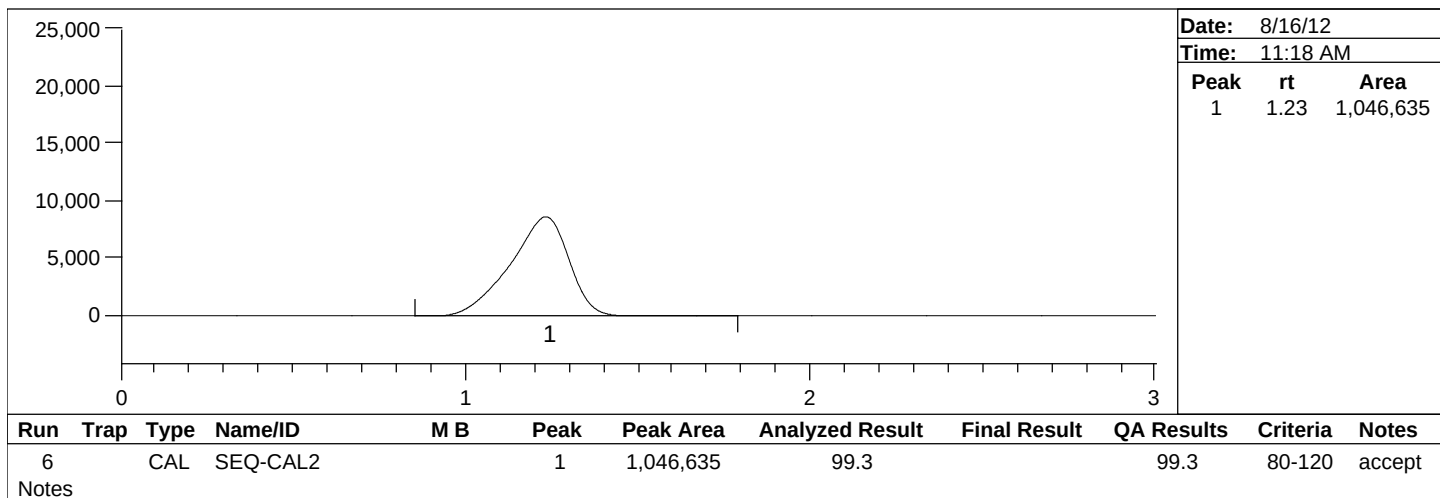
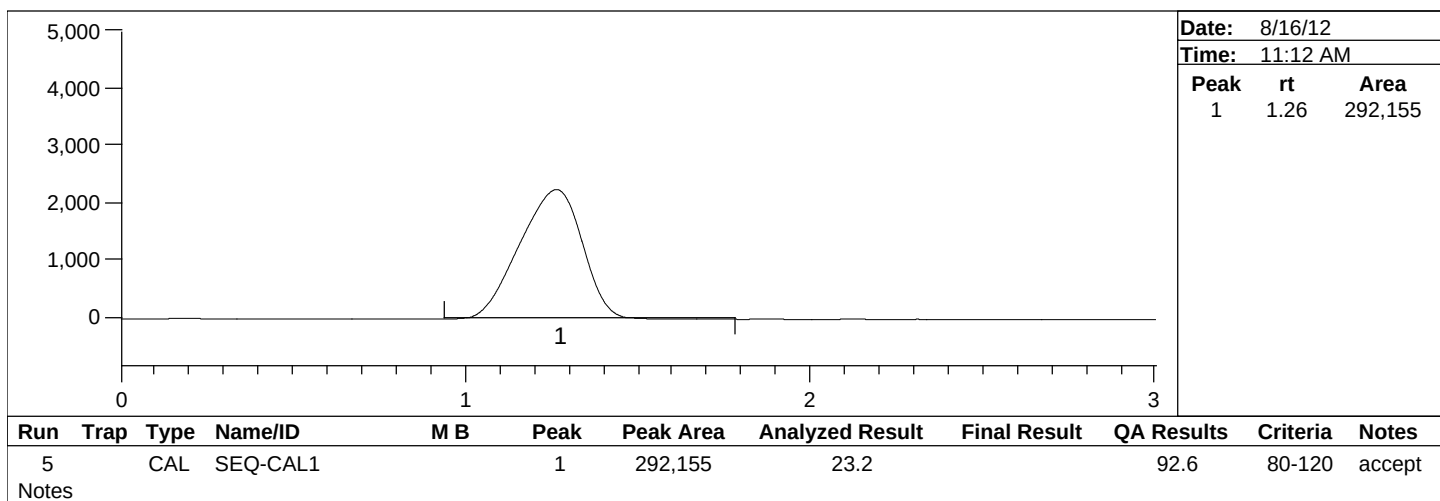
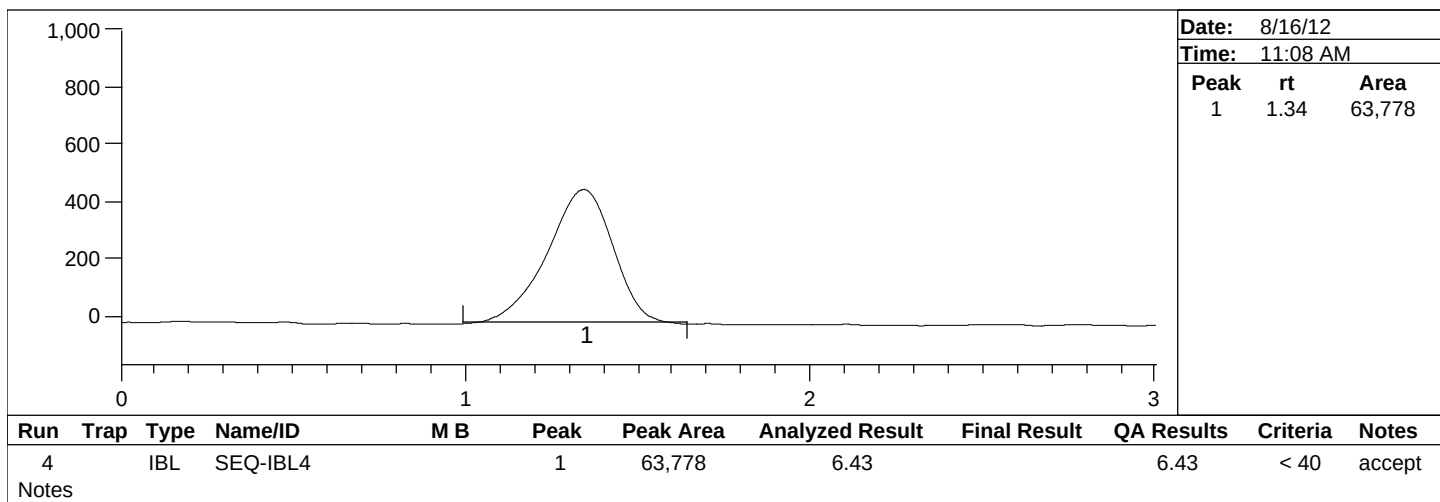
Method Number: CVAFS BR-0006

Project Number(s): 1200638

Instrument ID: THG-05

Date Analyzed: 8/16/12

Analyst Name: MLH



Peak Report

Batch Number: B121429

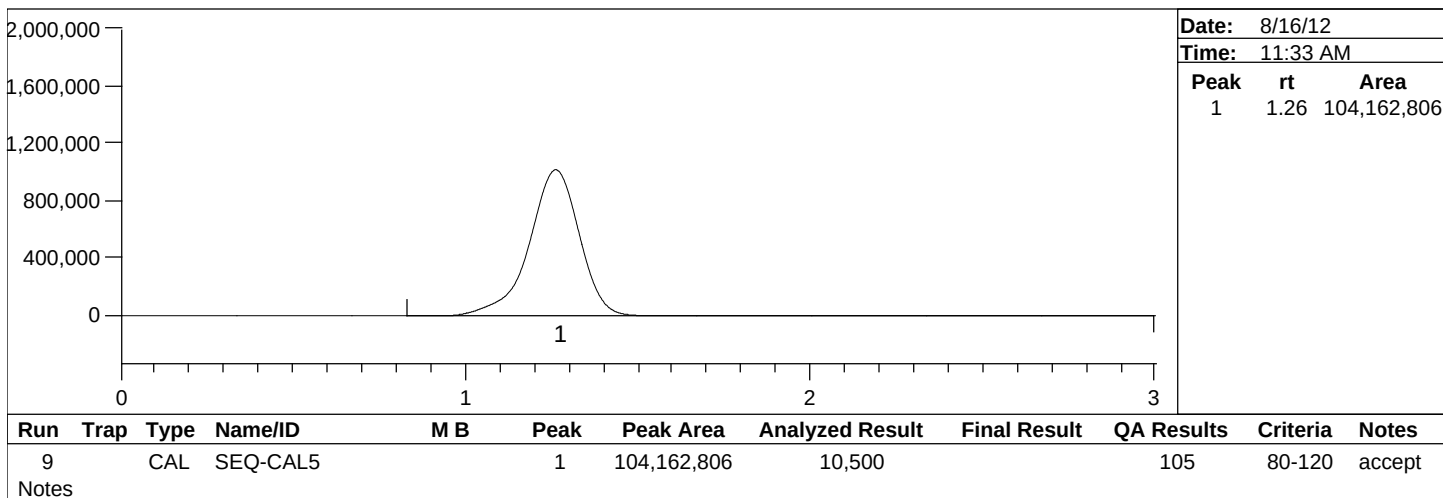
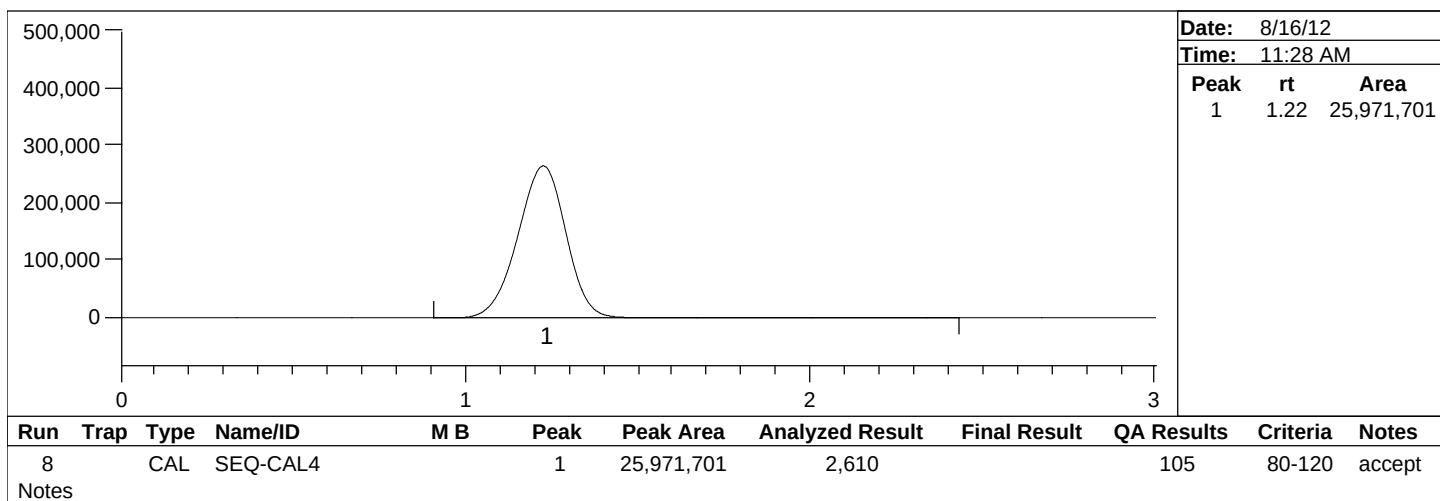
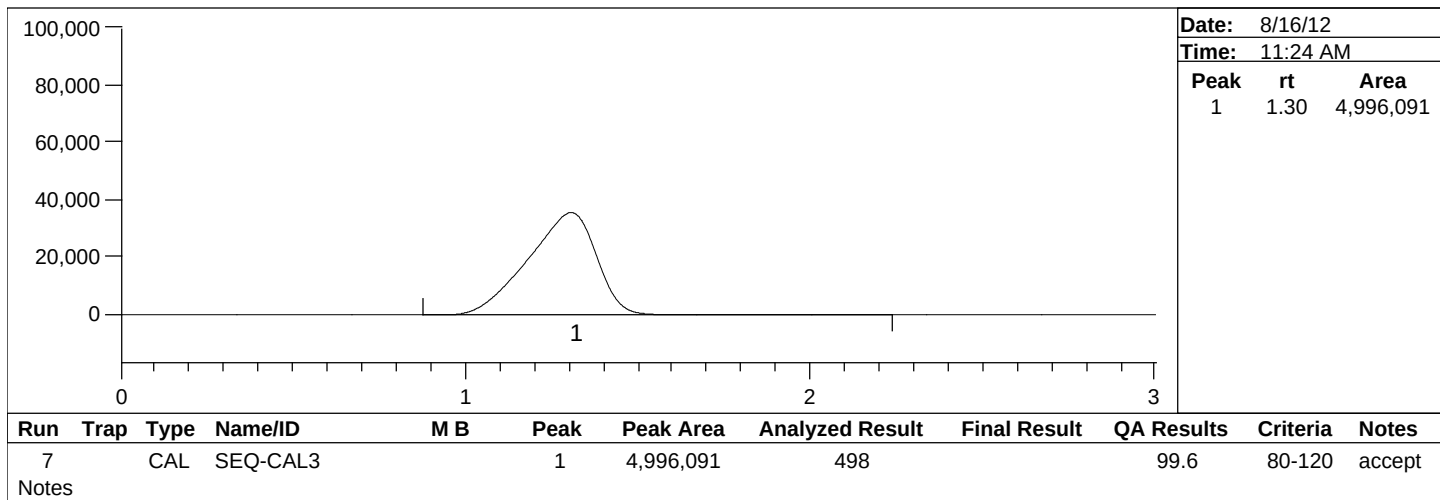
Method Number: CVAFS BR-0006

Project Number(s): 1200638

Instrument ID: THG-05

Date Analyzed: 8/16/12

Analyst Name: MLH



Peak Report

Batch Number: B121429

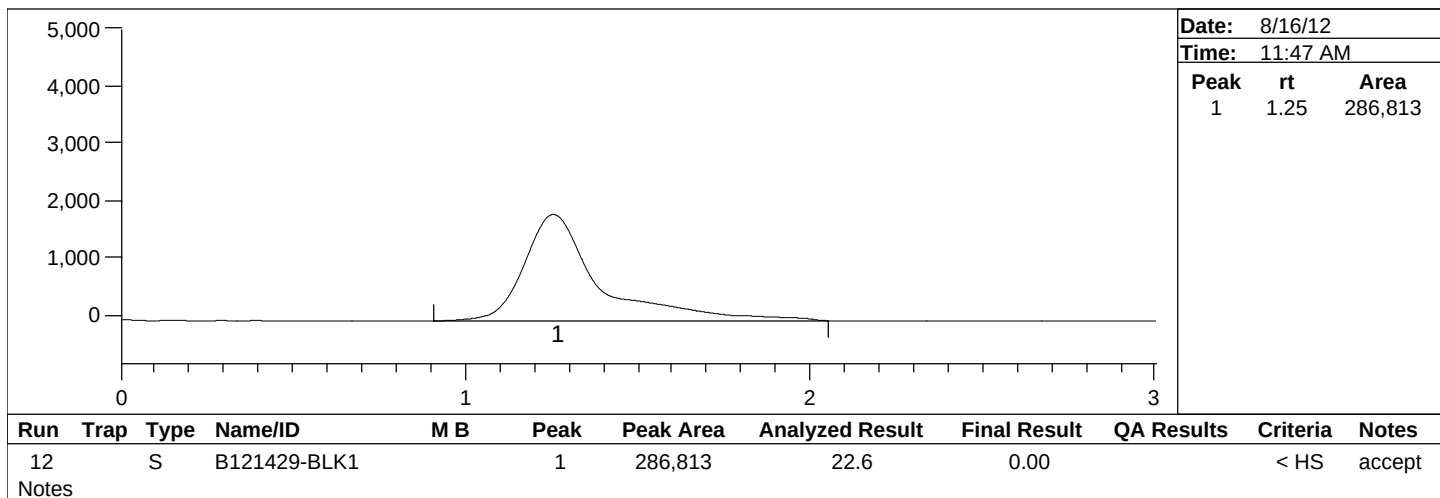
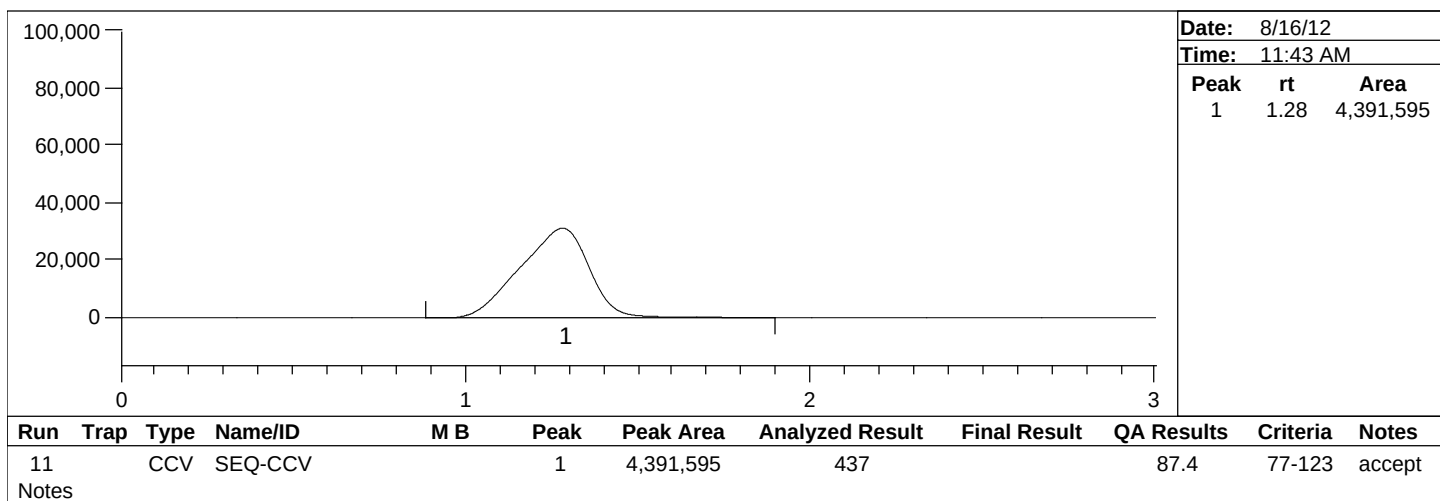
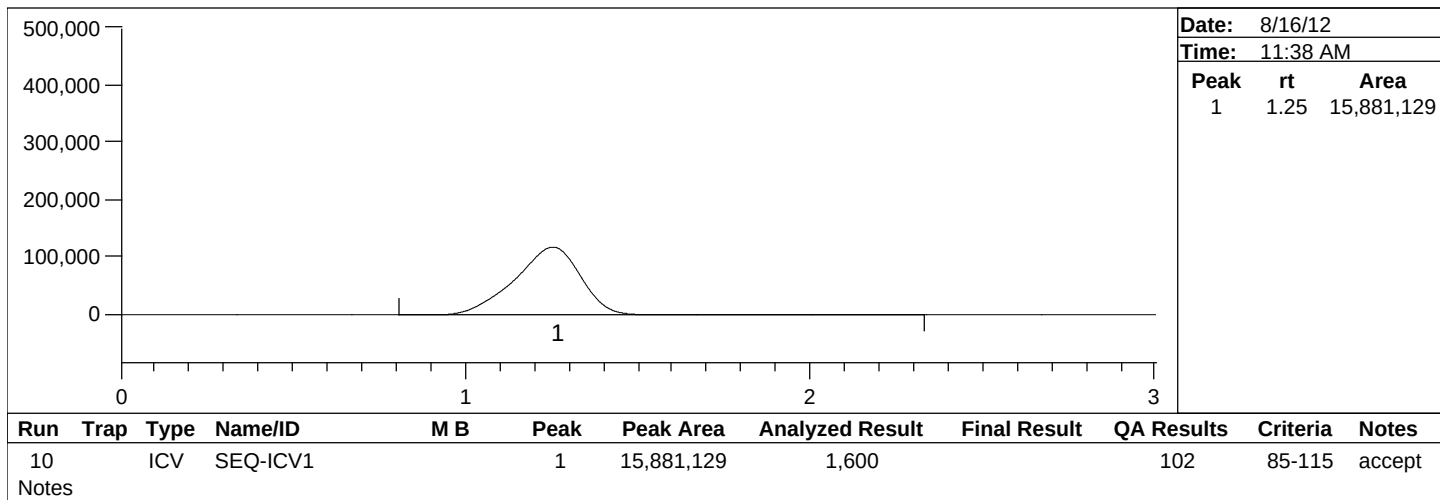
Method Number: CVAFS BR-0006

Project Number(s): 1200638

Instrument ID: THG-05

Date Analyzed: 8/16/12

Analyst Name: MLH



Peak Report

Batch Number: B121429

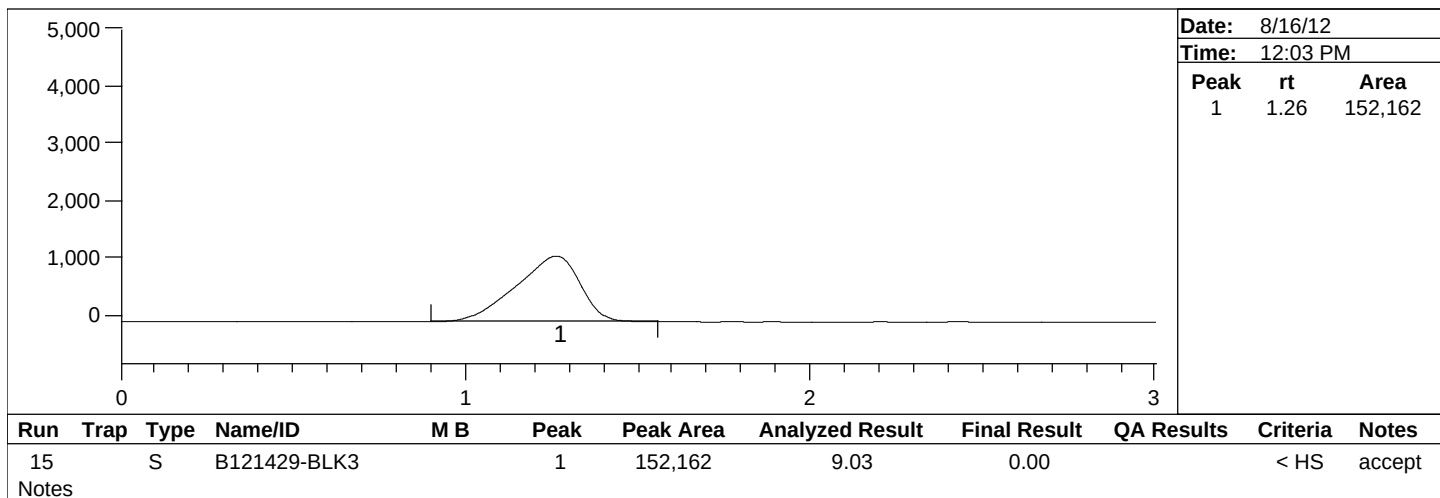
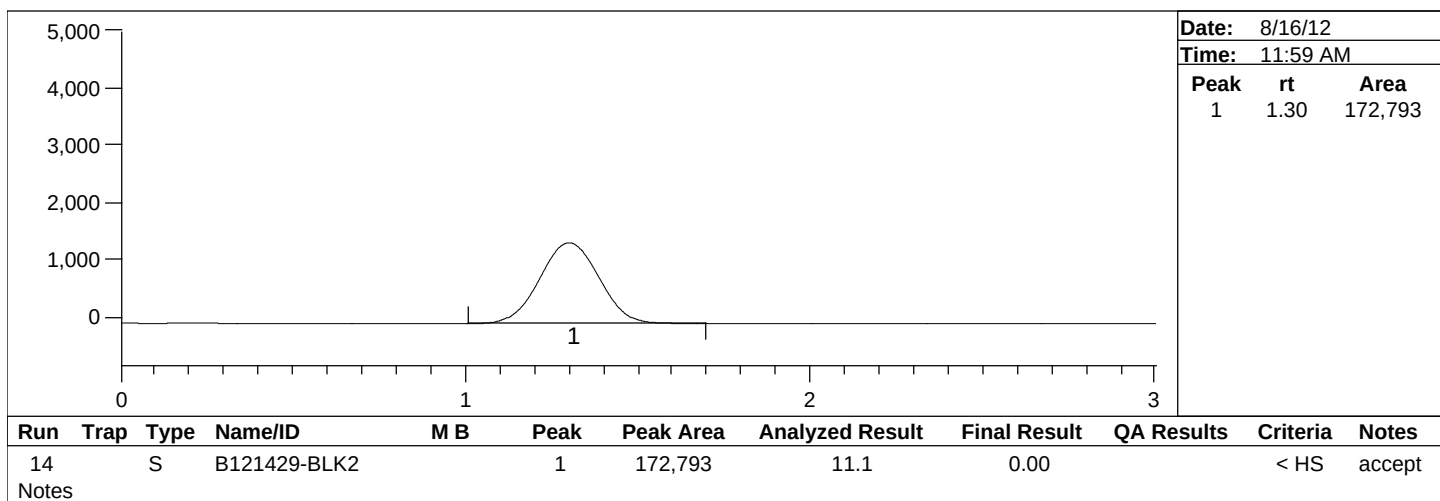
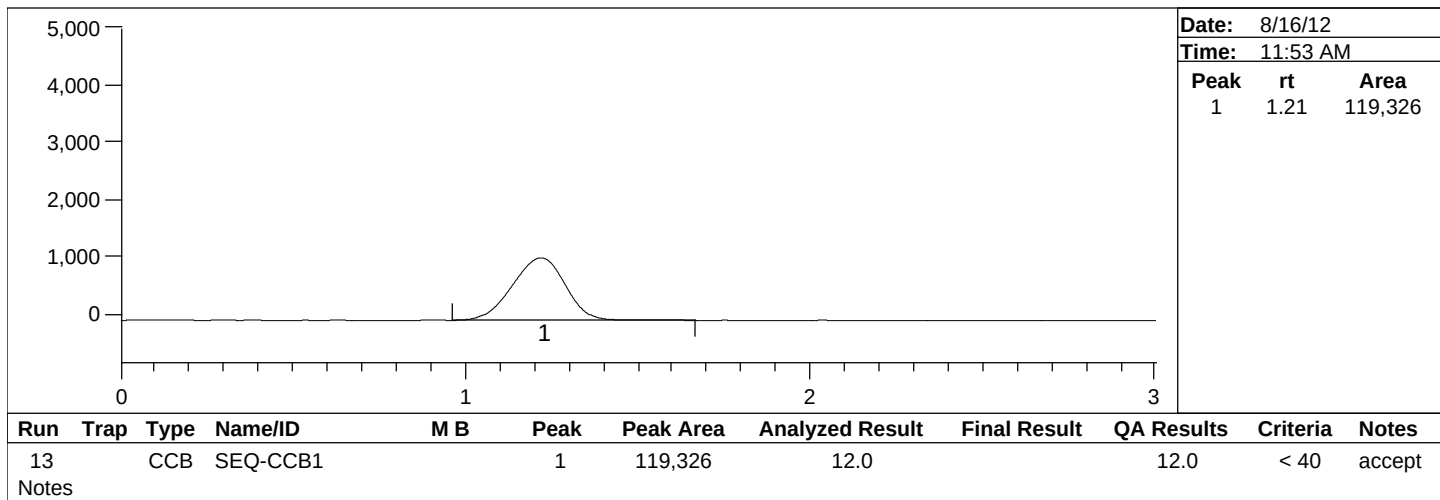
Method Number: CVAFS BR-0006

Project Number(s): 1200638

Instrument ID: THG-05

Date Analyzed: 8/16/12

Analyst Name: MLH



Peak Report

Batch Number: B121429

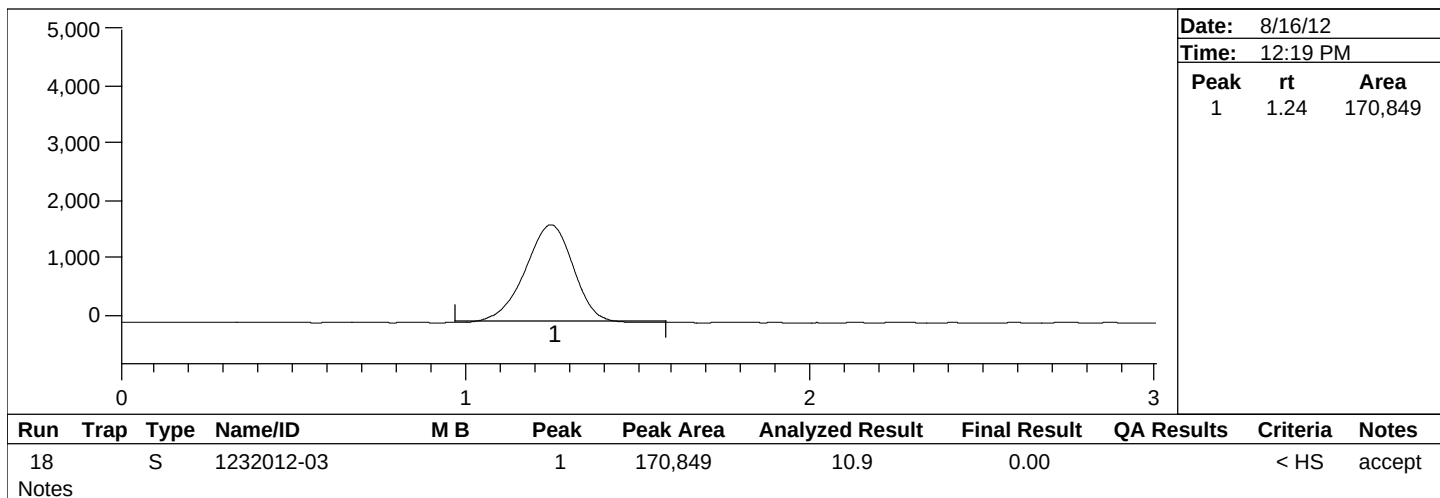
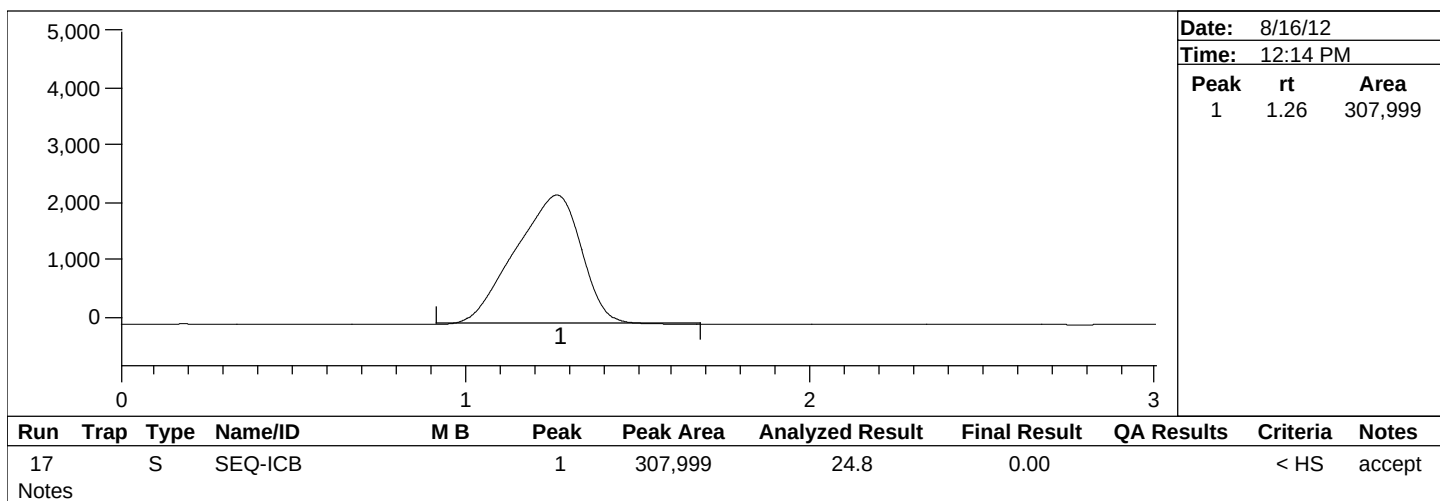
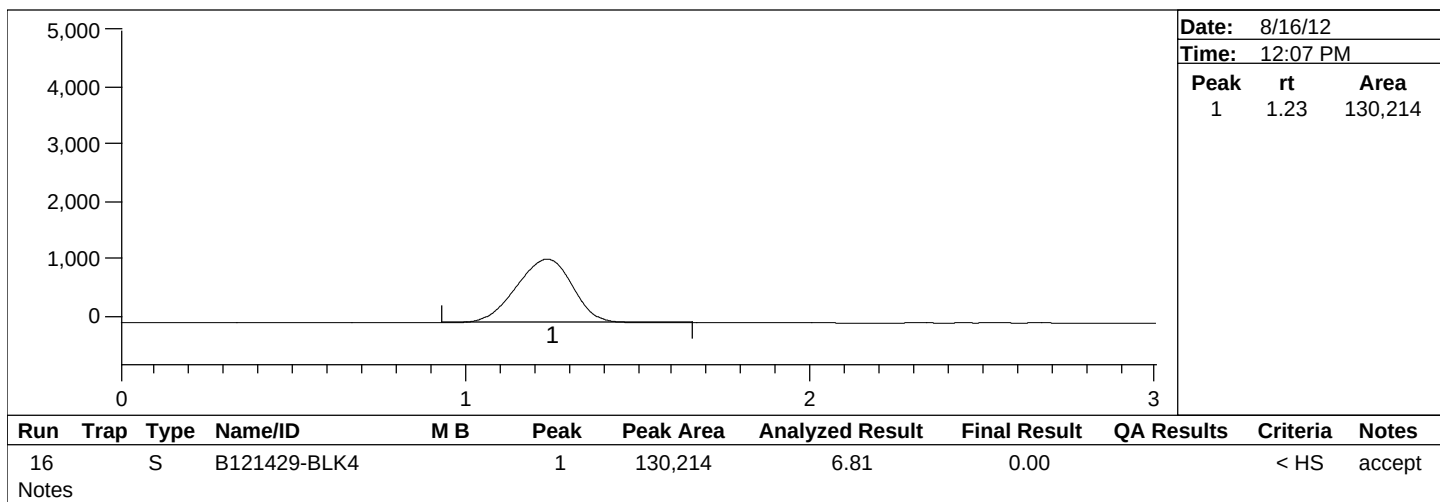
Method Number: CVAFS BR-0006

Project Number(s): 1200638

Instrument ID: THG-05

Date Analyzed: 8/16/12

Analyst Name: MLH



Peak Report

Batch Number: B121429

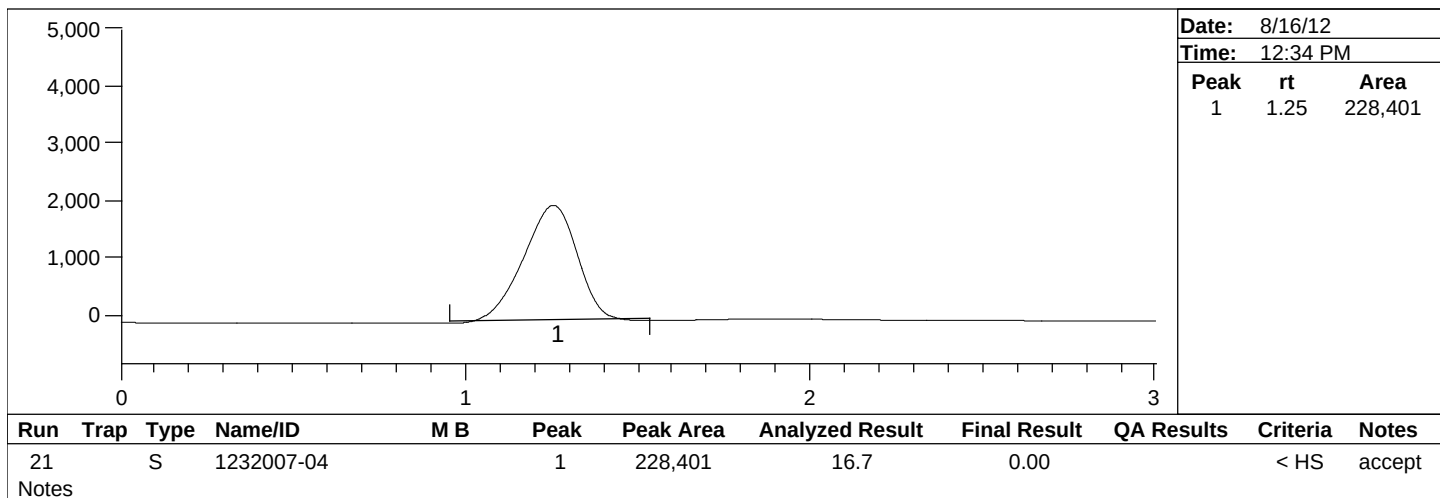
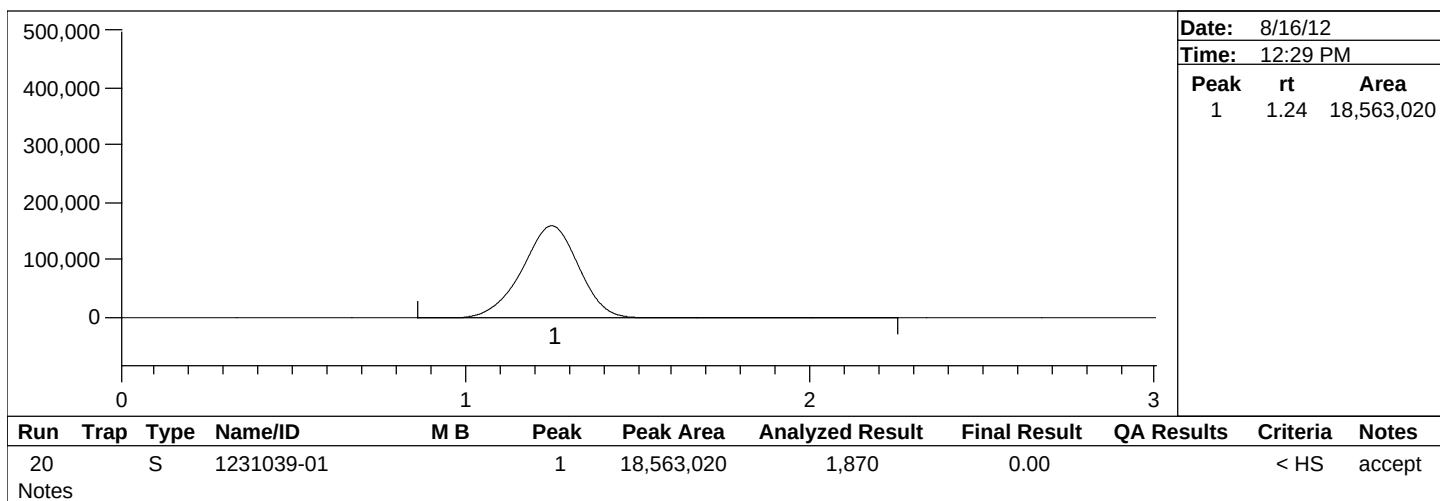
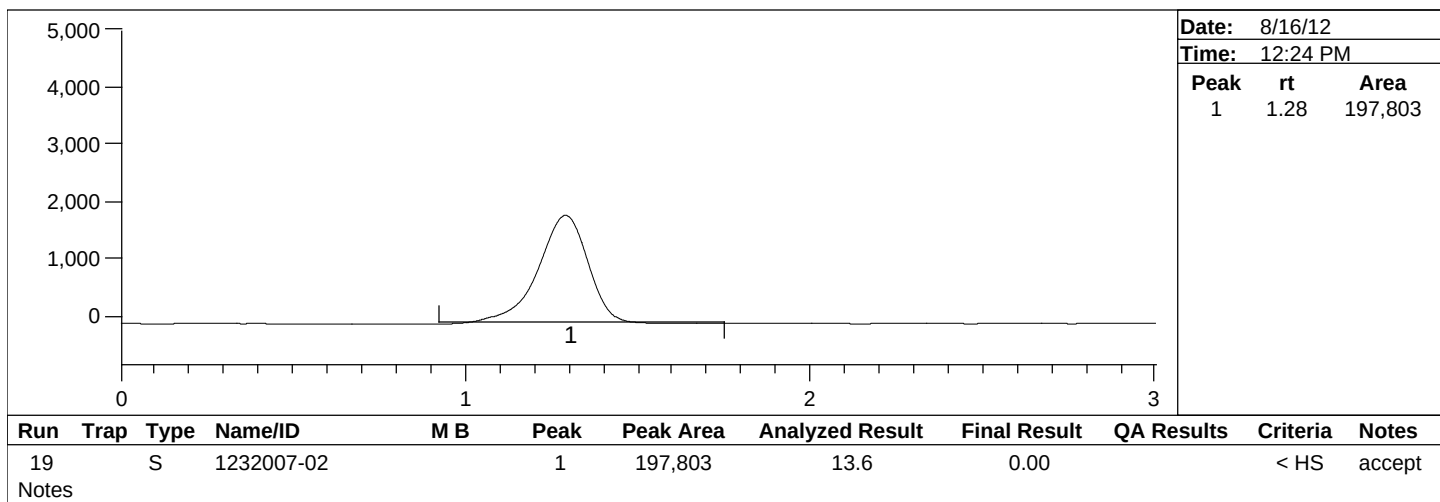
Method Number: CVAFS BR-0006

Project Number(s): 1200638

Instrument ID: THG-05

Date Analyzed: 8/16/12

Analyst Name: MLH



Peak Report

Batch Number: B121429

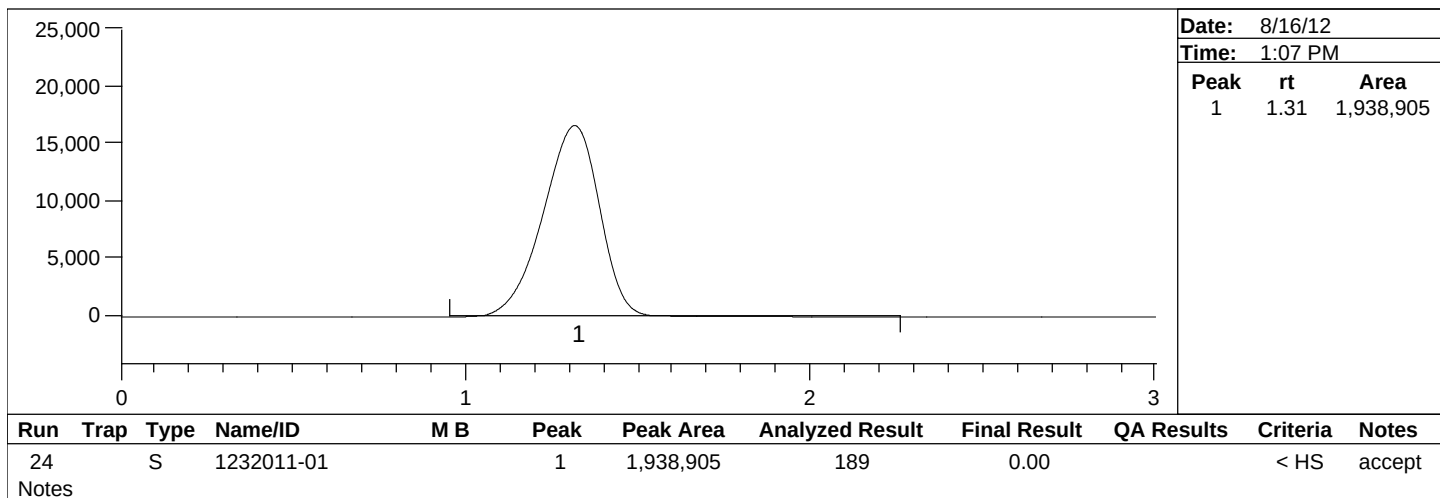
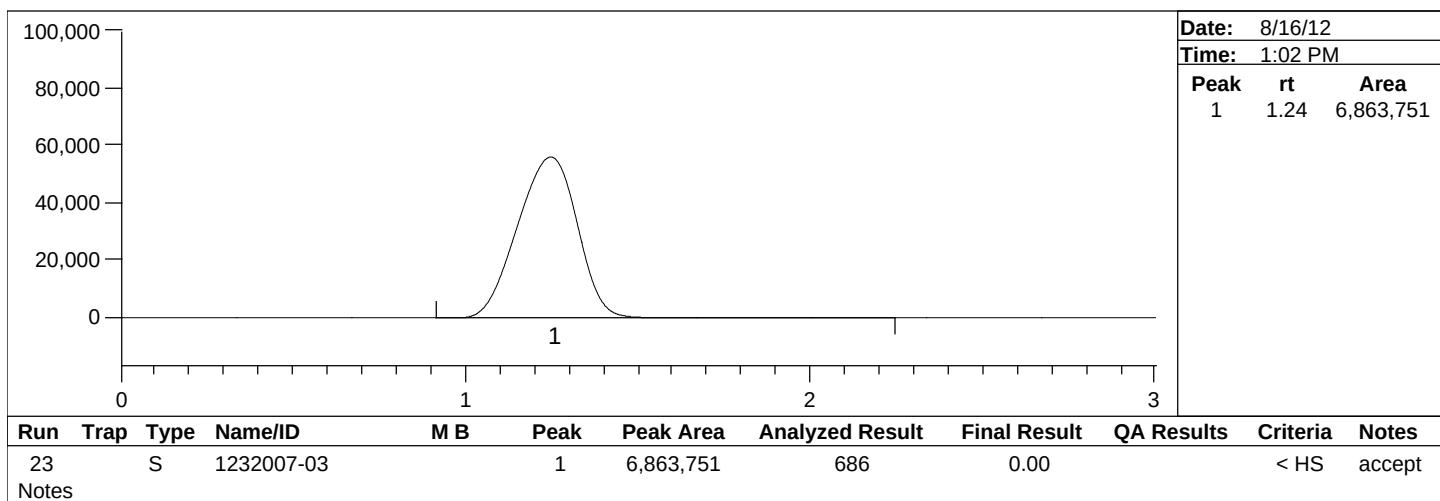
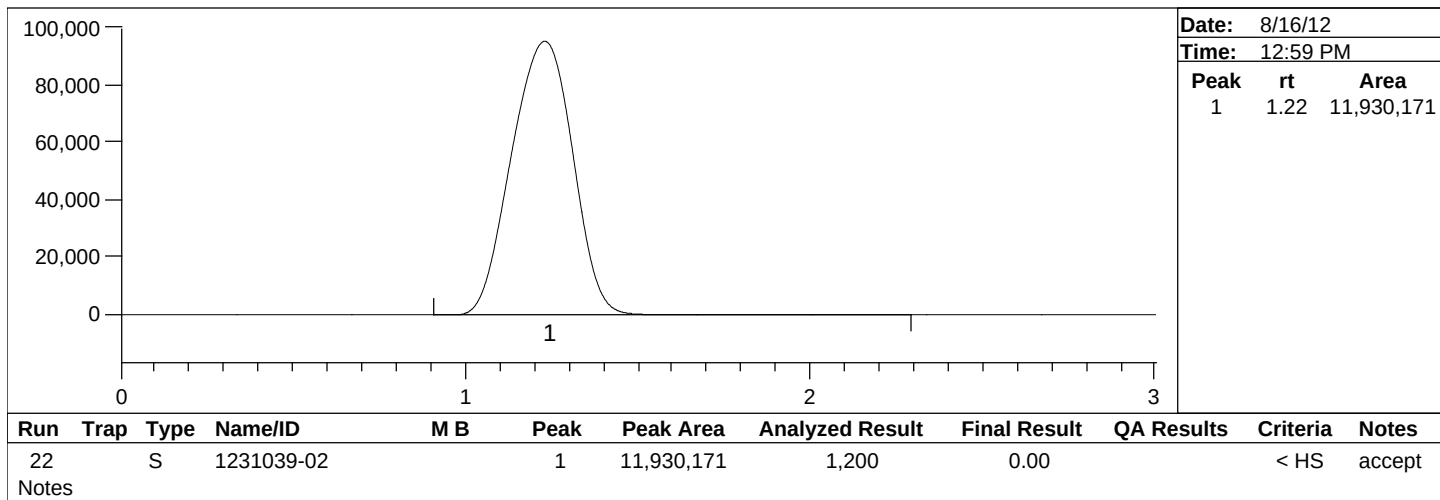
Method Number: CVAFS BR-0006

Project Number(s): 1200638

Instrument ID: THG-05

Date Analyzed: 8/16/12

Analyst Name: MLH



Peak Report

Batch Number: B121429

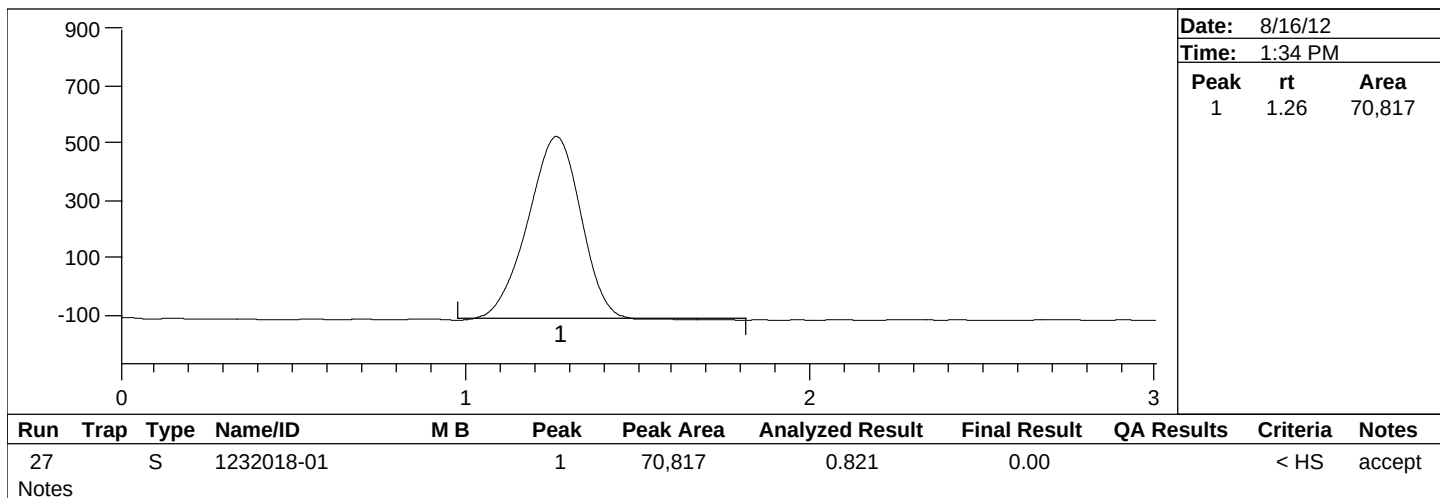
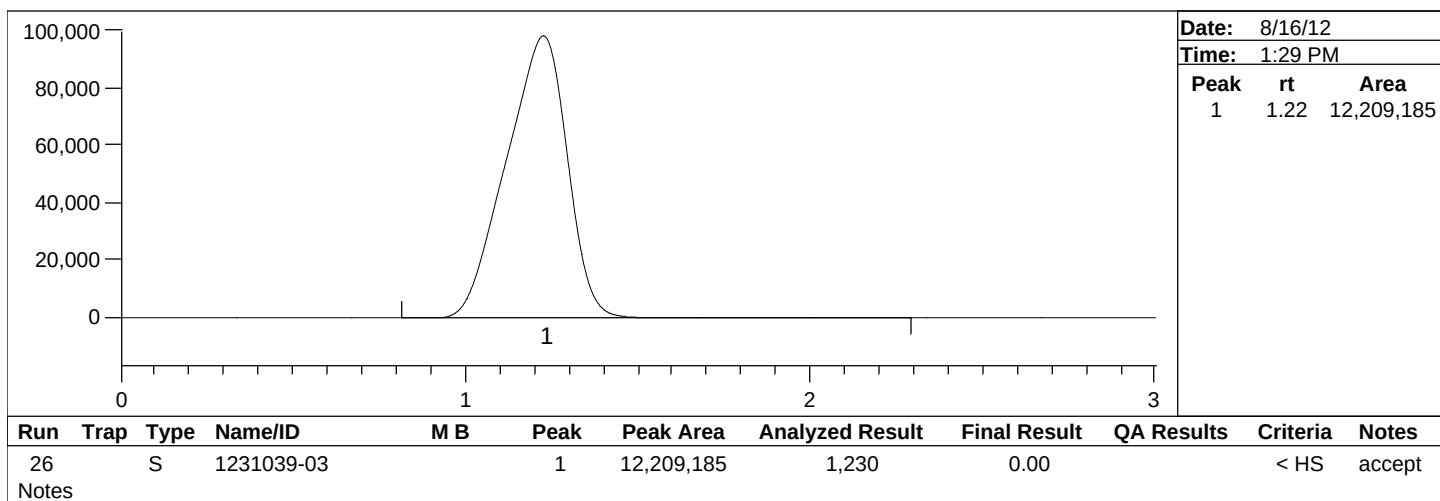
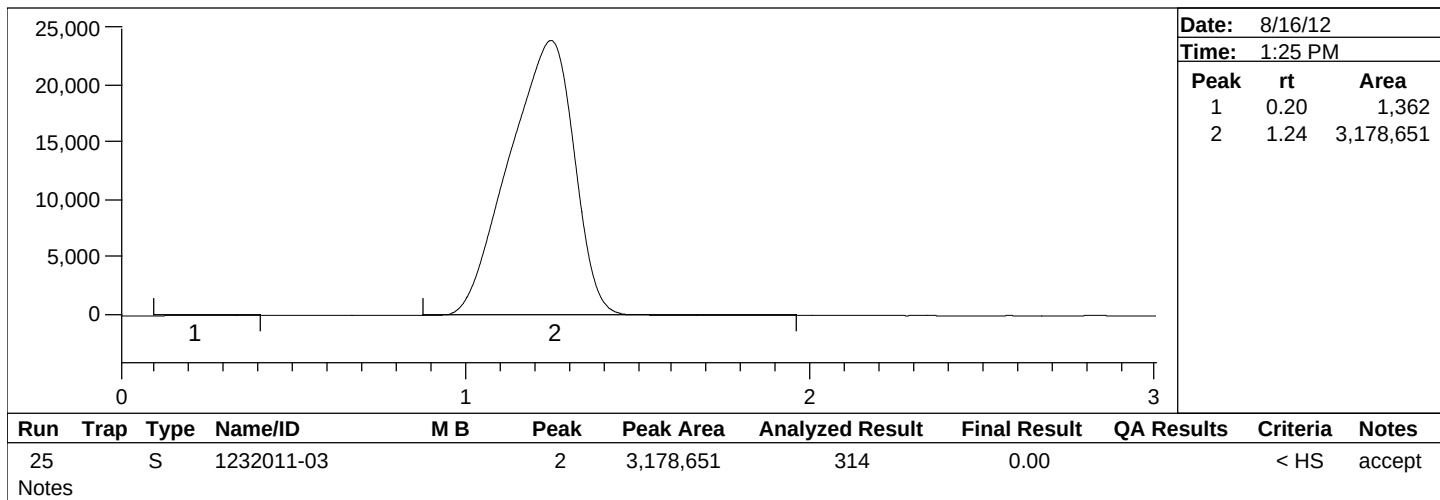
Method Number: CVAFS BR-0006

Project Number(s): 1200638

Instrument ID: THG-05

Date Analyzed: 8/16/12

Analyst Name: MLH



Peak Report

Batch Number: B121429

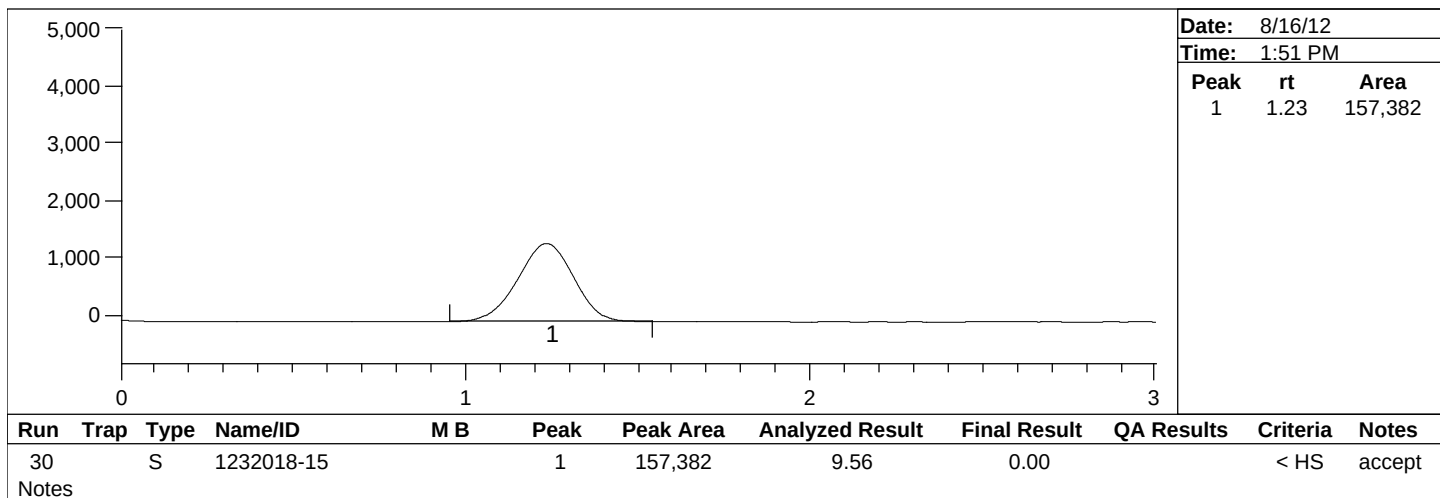
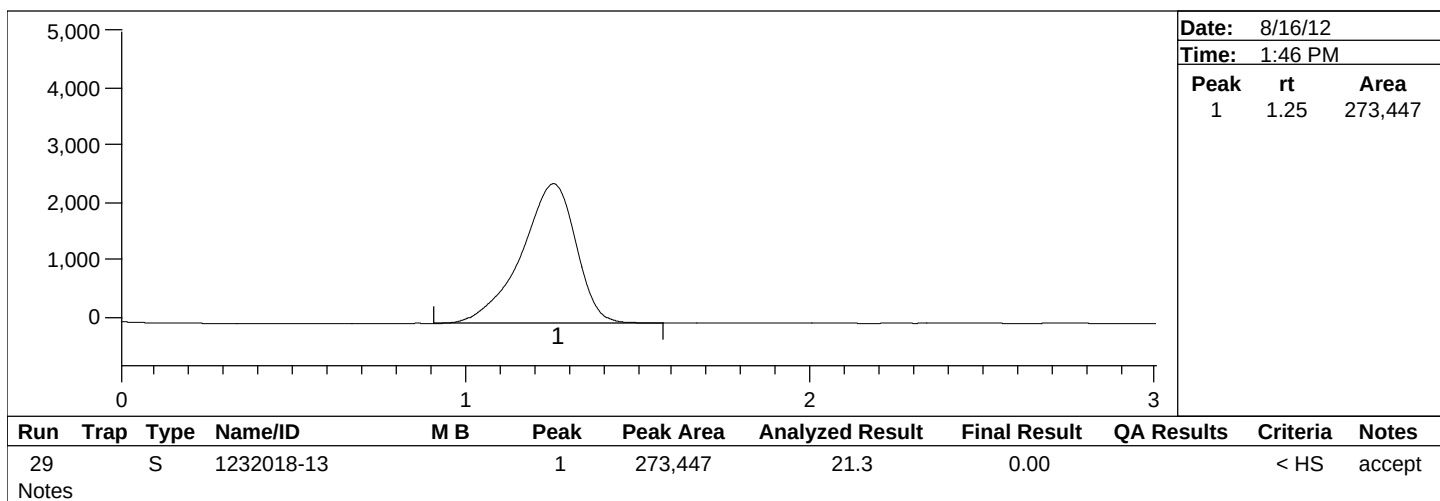
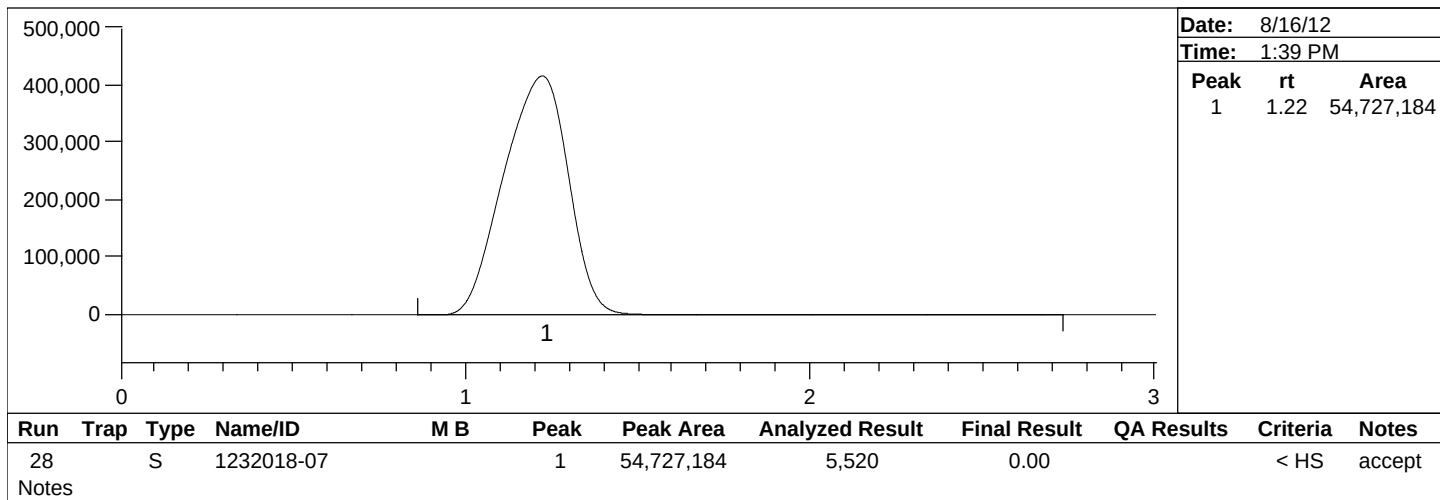
Method Number: CVAFS BR-0006

Project Number(s): 1200638

Instrument ID: THG-05

Date Analyzed: 8/16/12

Analyst Name: MLH



Peak Report

Batch Number: B121429

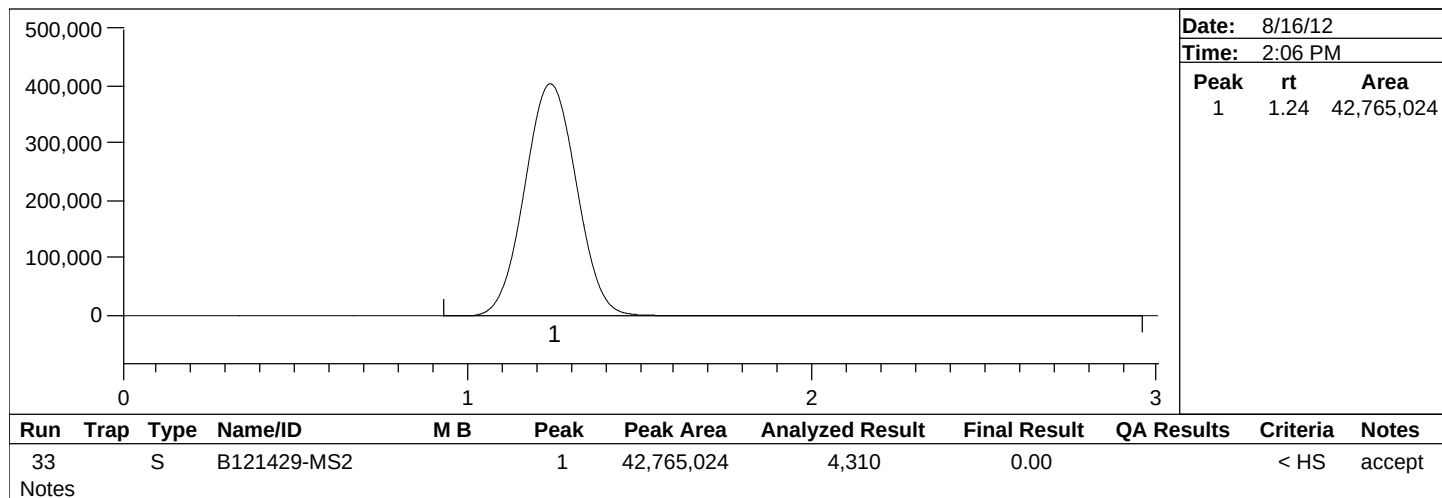
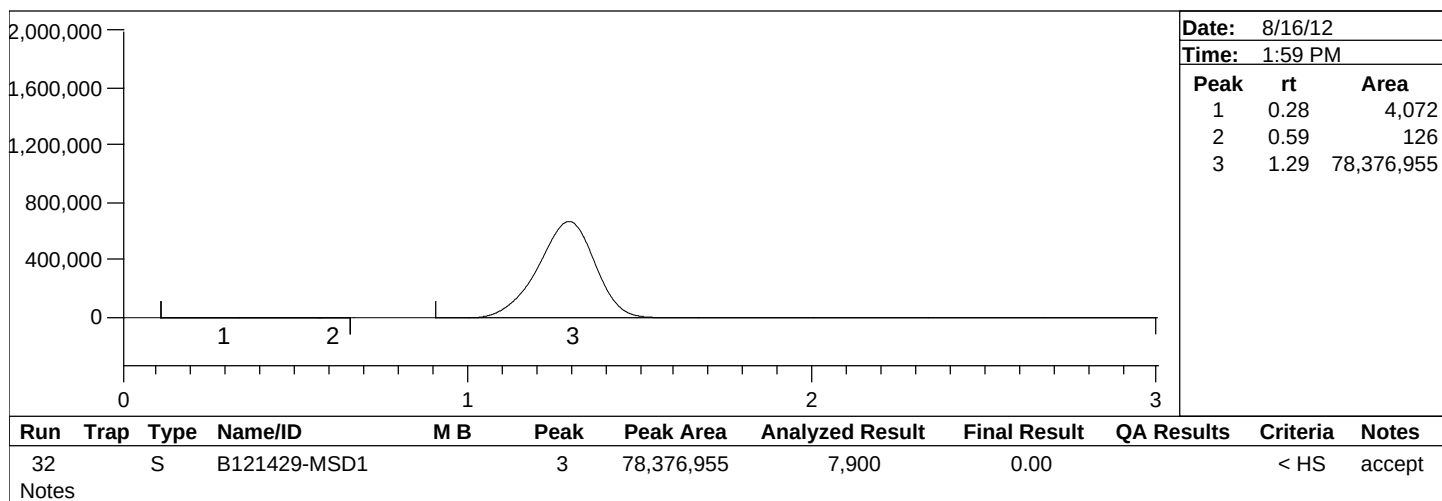
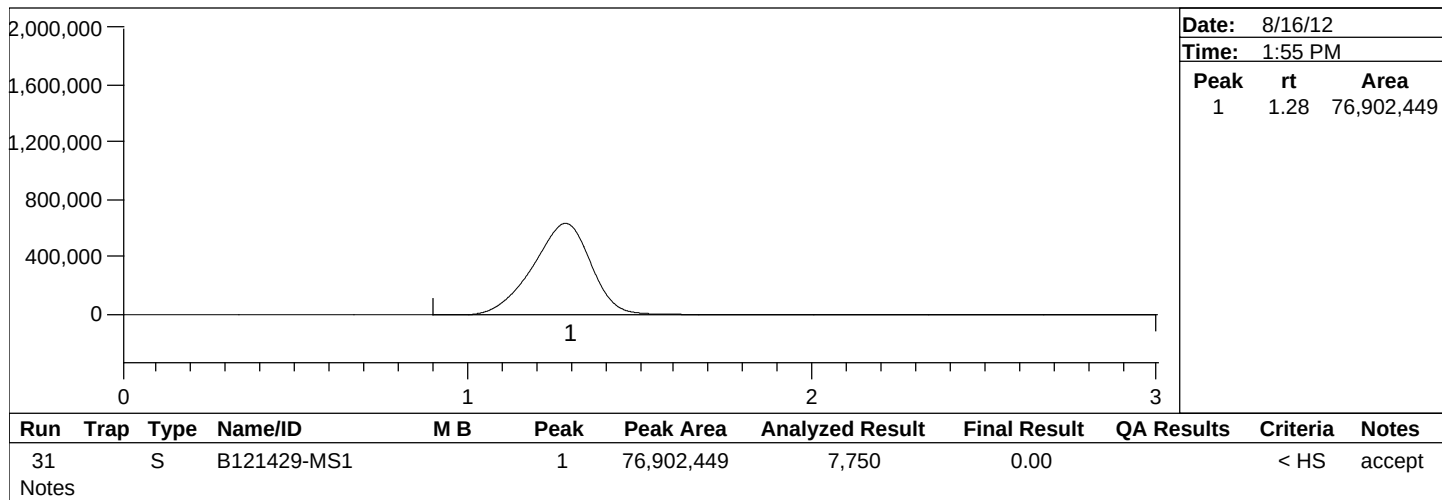
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Project Number(s): 1200638

Instrument ID: THG-05

Date Analyzed: 8/16/12

Analyst Name: MLH



Peak Report

Batch Number: B121429

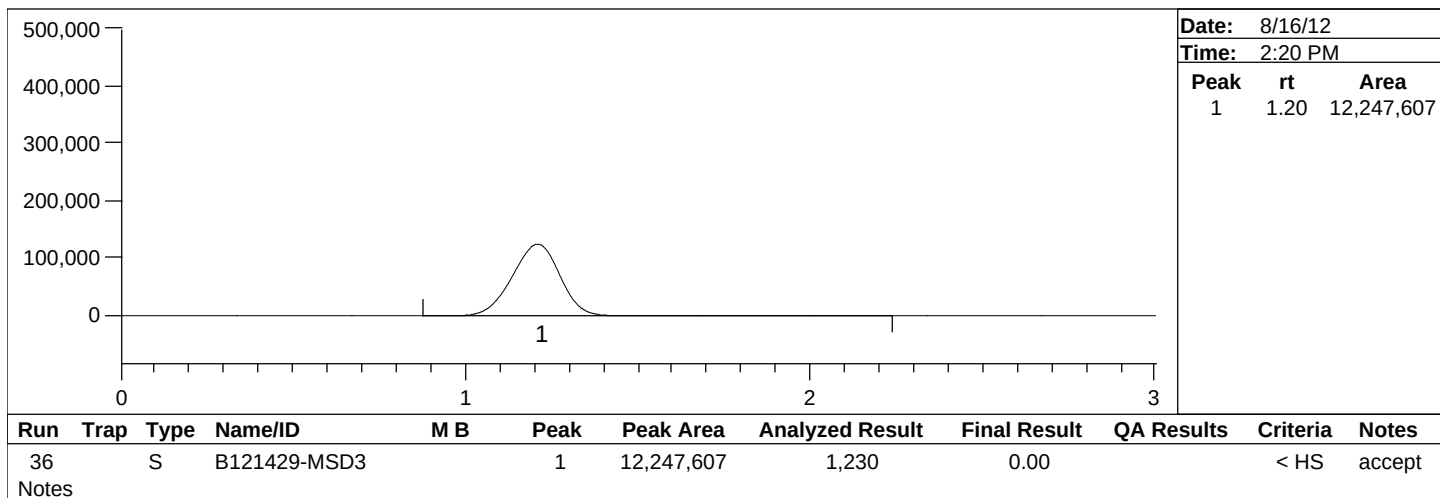
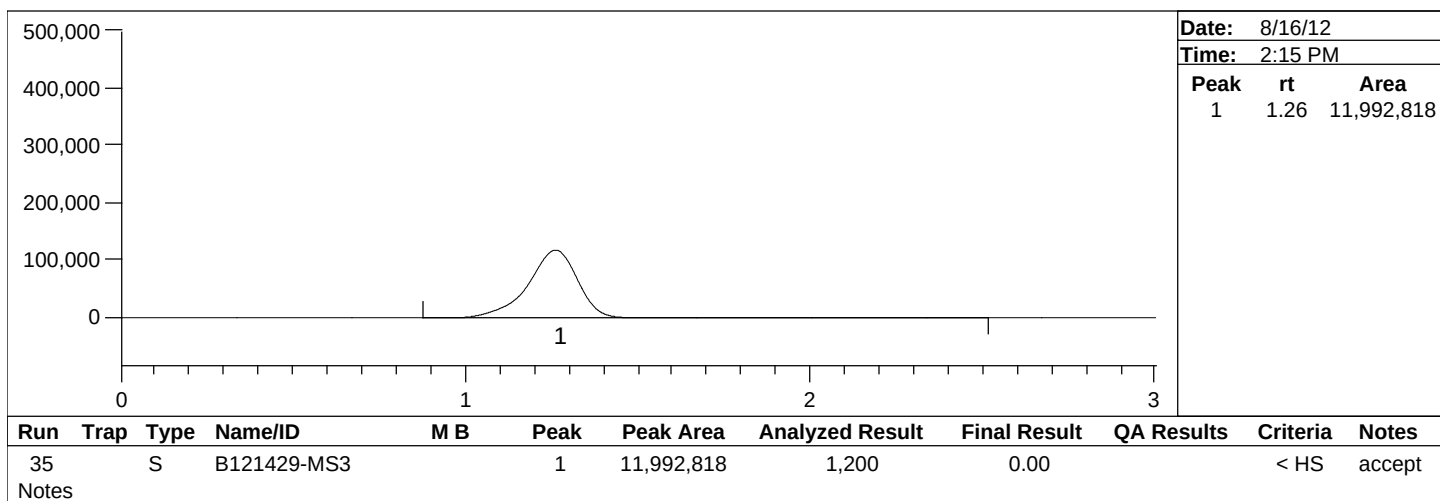
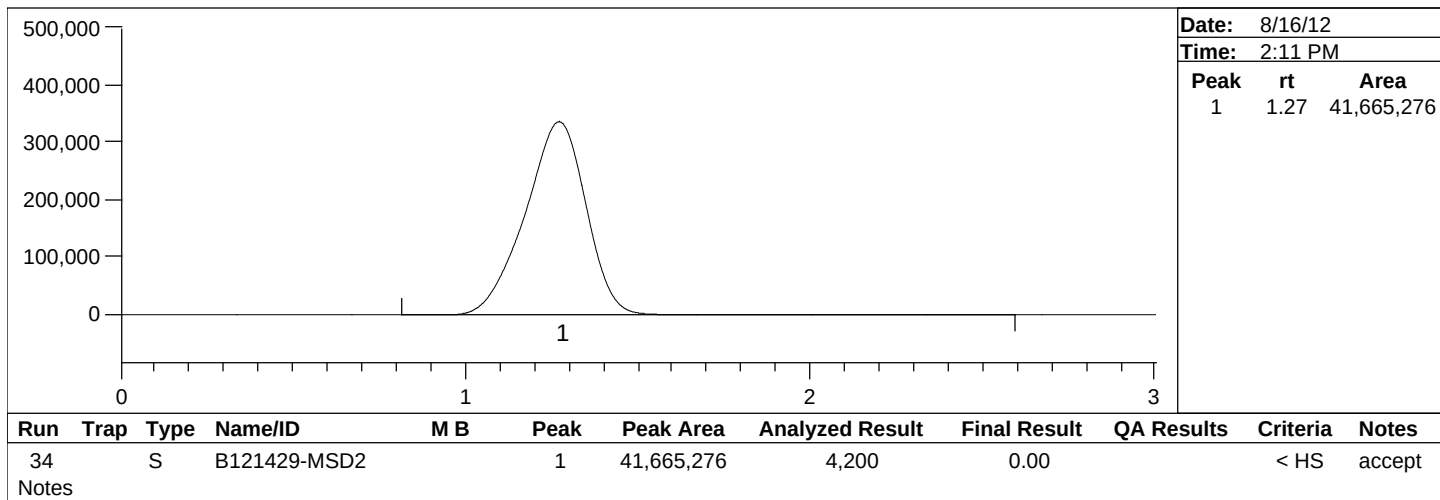
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Project Number(s): 1200638

Instrument ID: THG-05

Date Analyzed: 8/16/12

Analyst Name: MLH



Peak Report

Batch Number: B121429

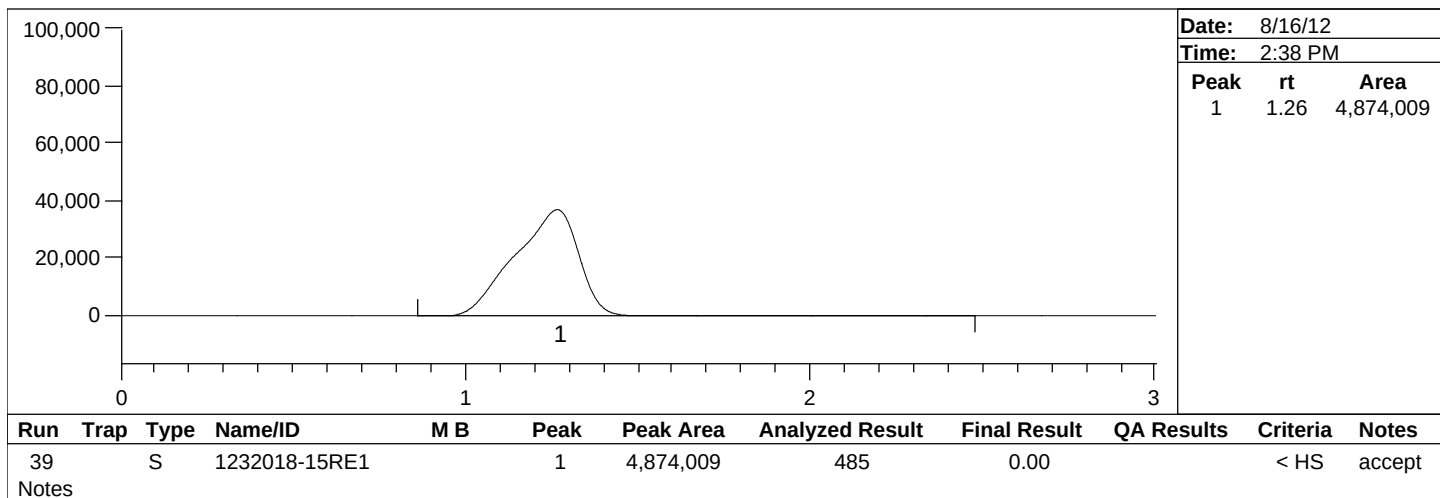
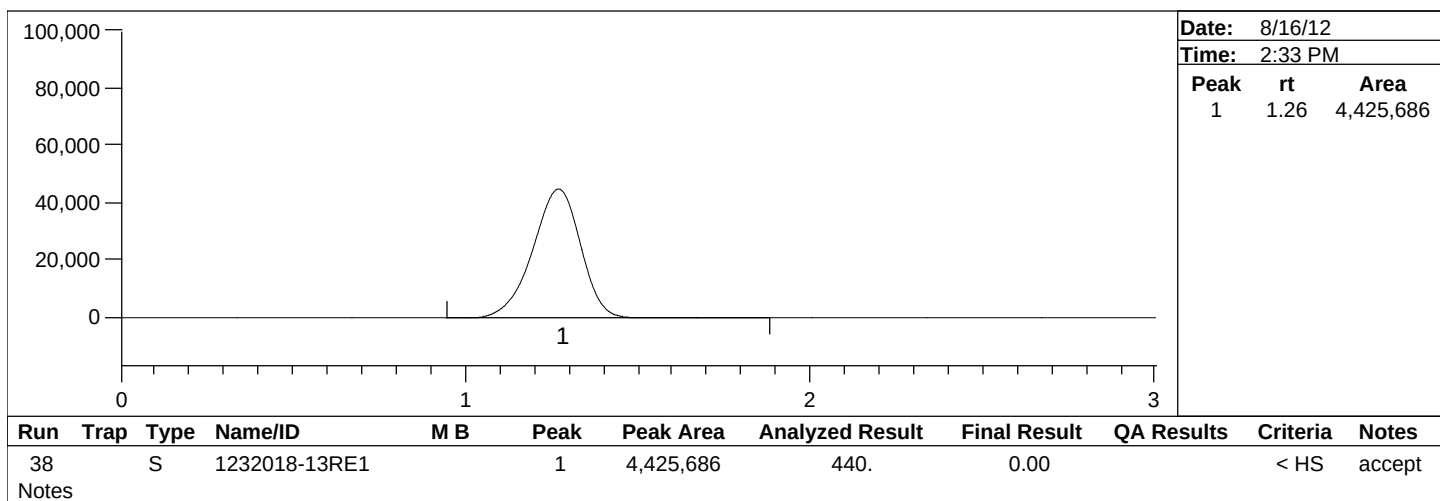
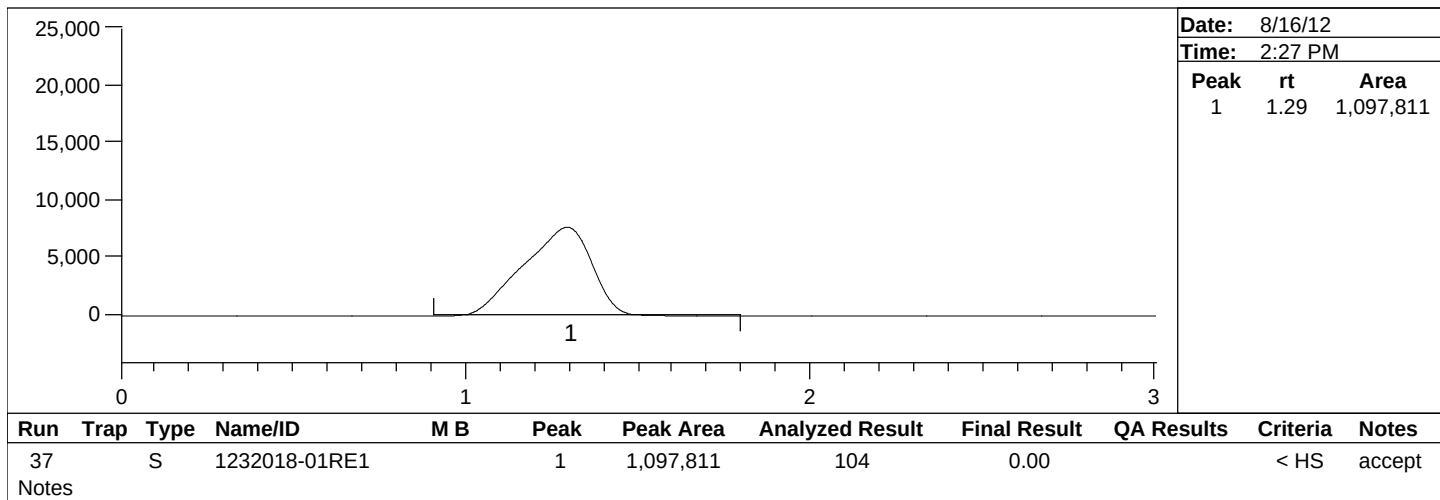
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Project Number(s): 1200638

Instrument ID: THG-05

Date Analyzed: 8/16/12

Analyst Name: MLH



Peak Report

Batch Number: B121429

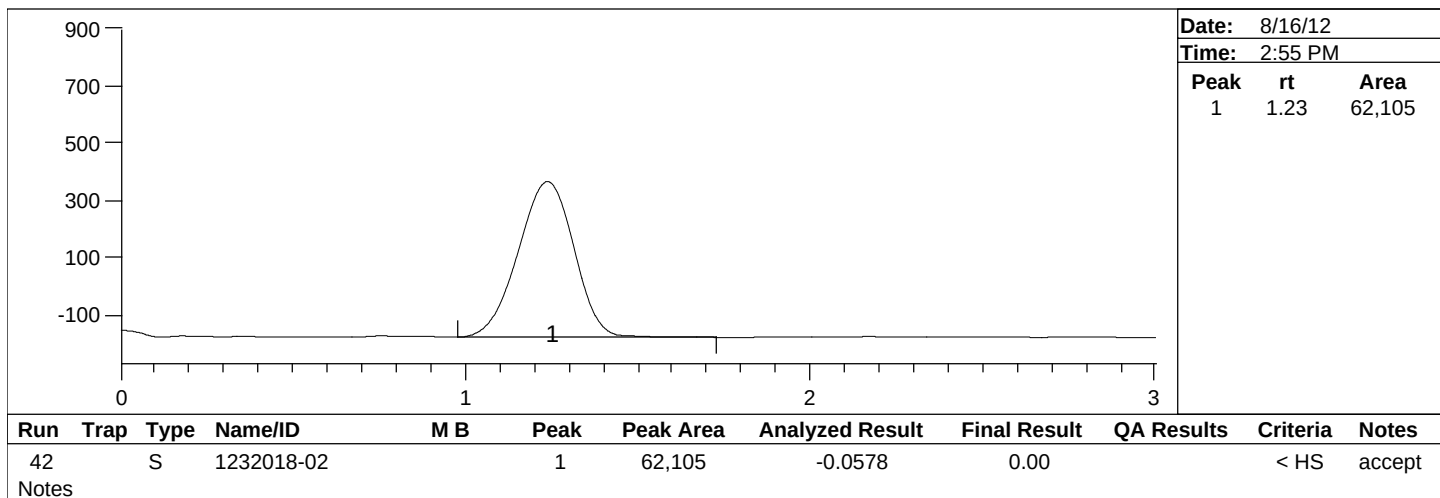
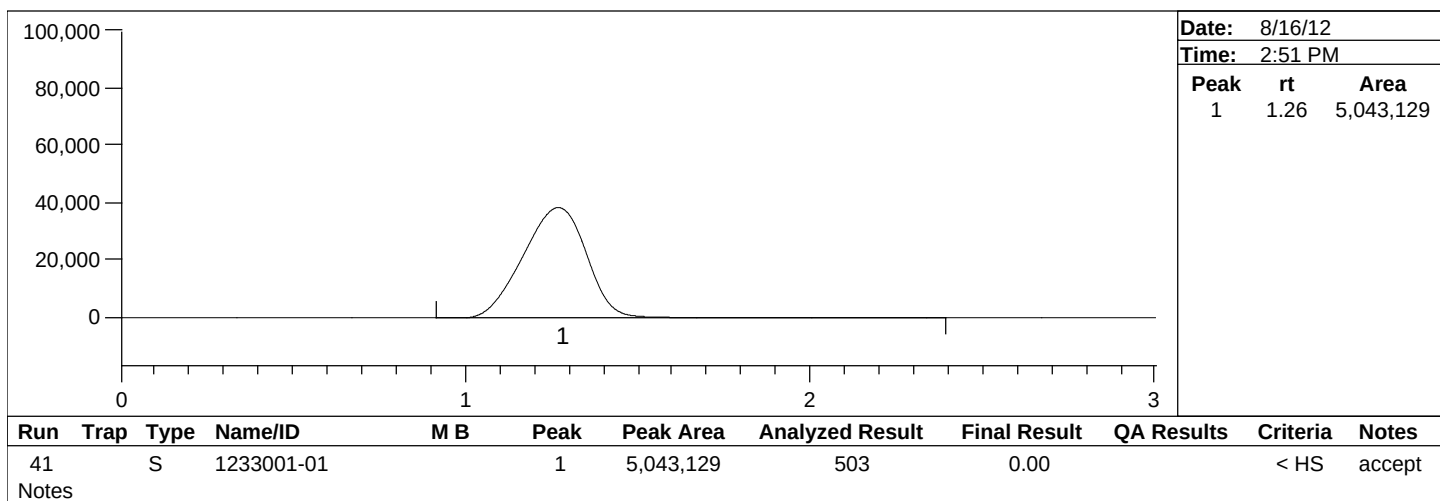
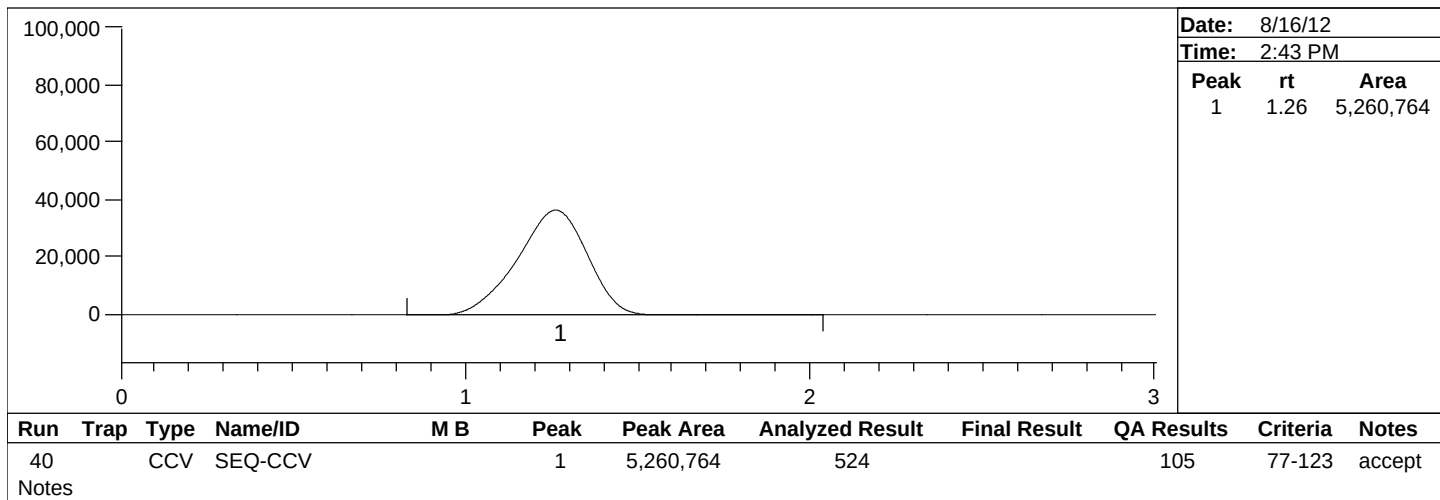
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Instrument ID: THG-05

Date Analyzed: 8/16/12

Analyst Name: MLH



Peak Report

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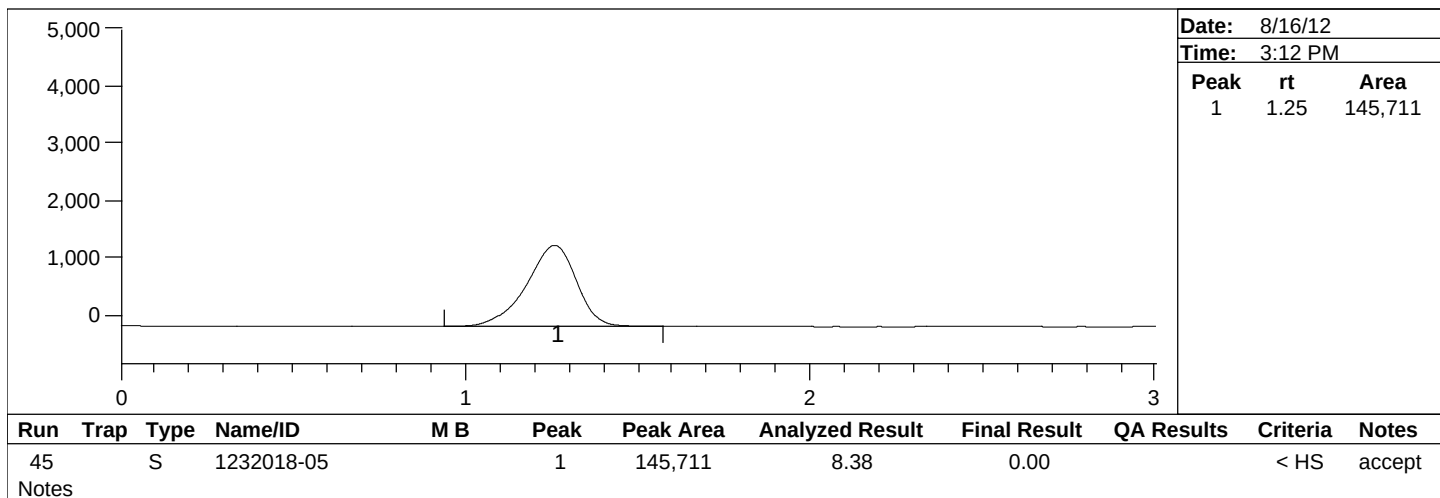
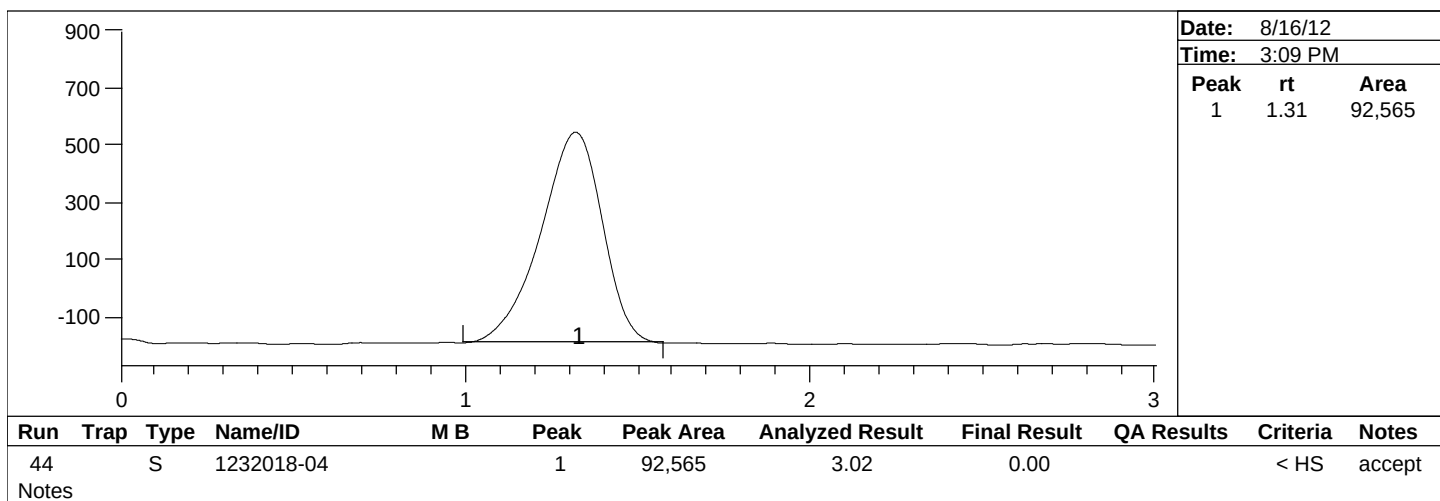
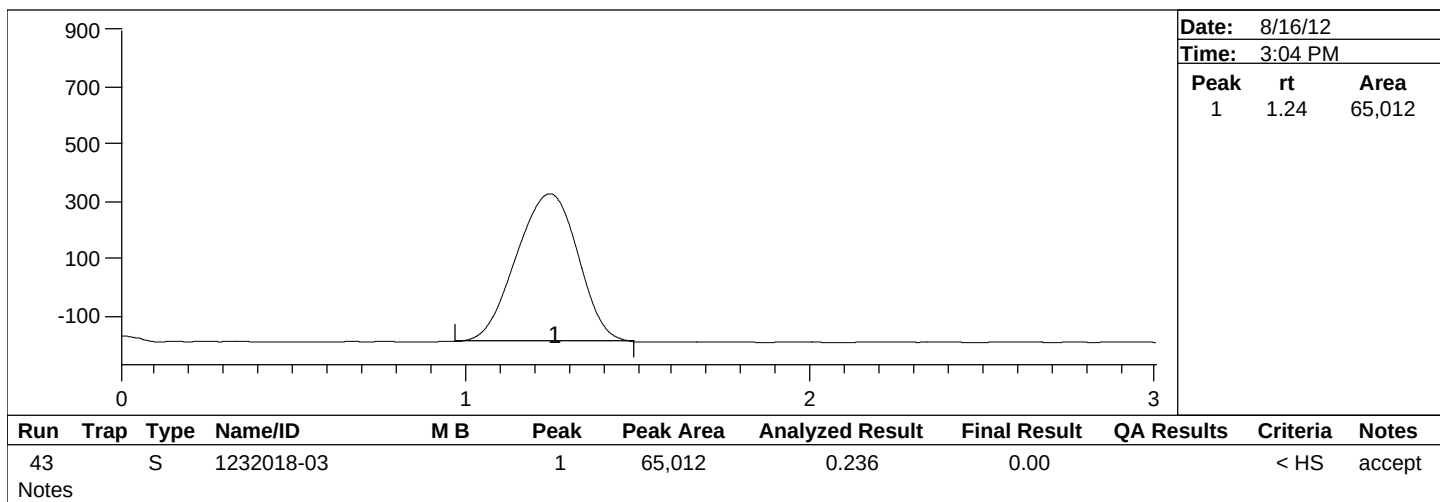
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Instrument ID: THG-05

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Analyst Name: MLH



Peak Report

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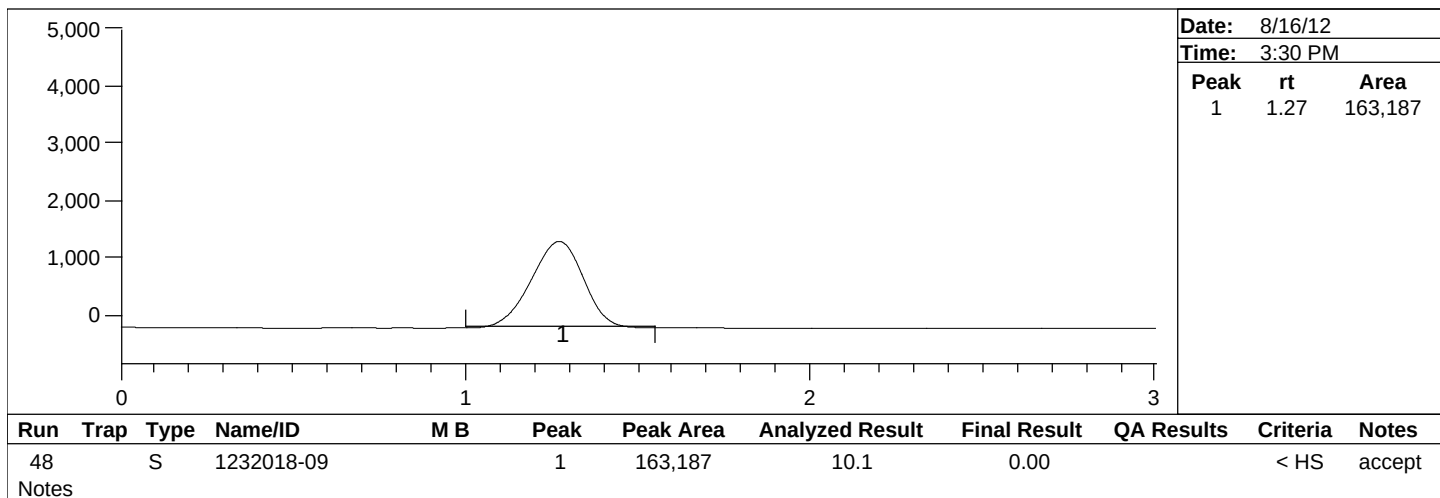
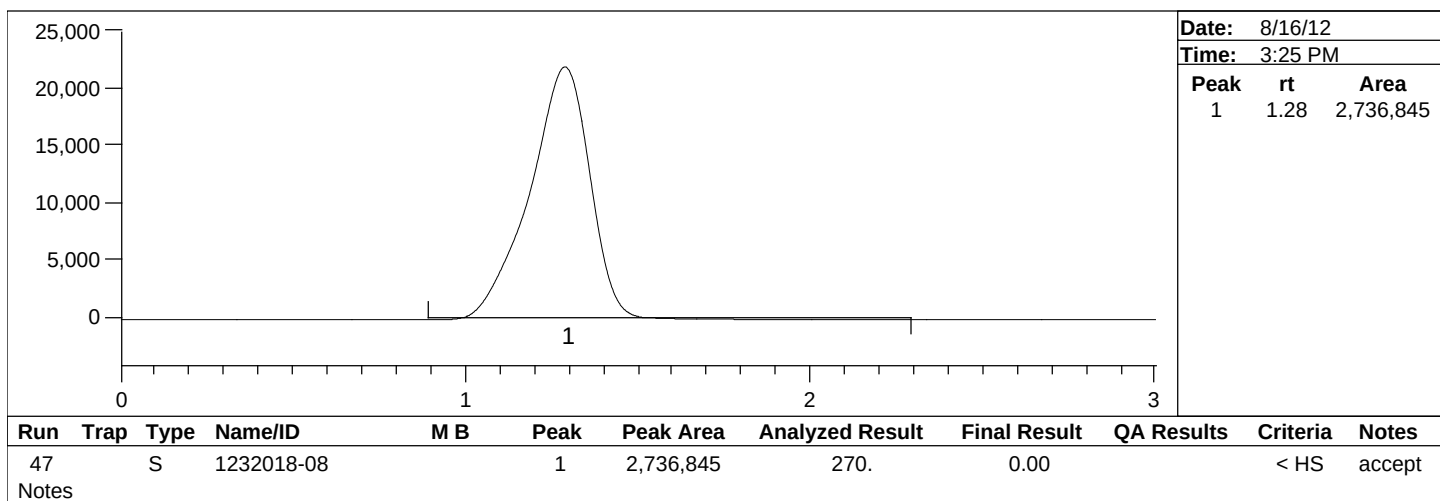
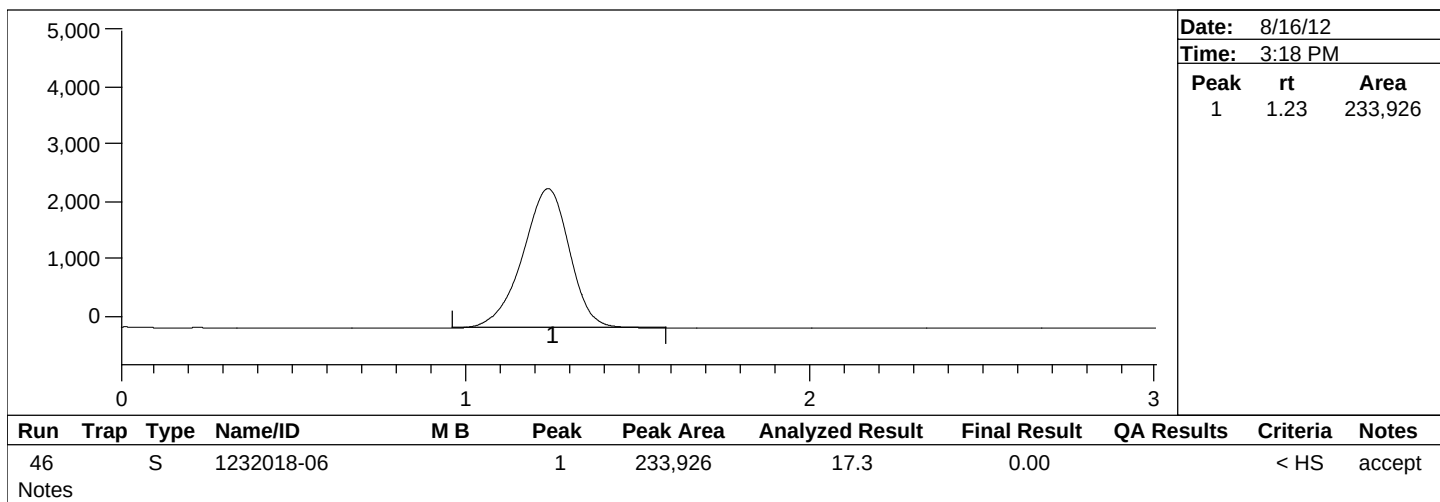
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Analyst Name: MLH



Peak Report

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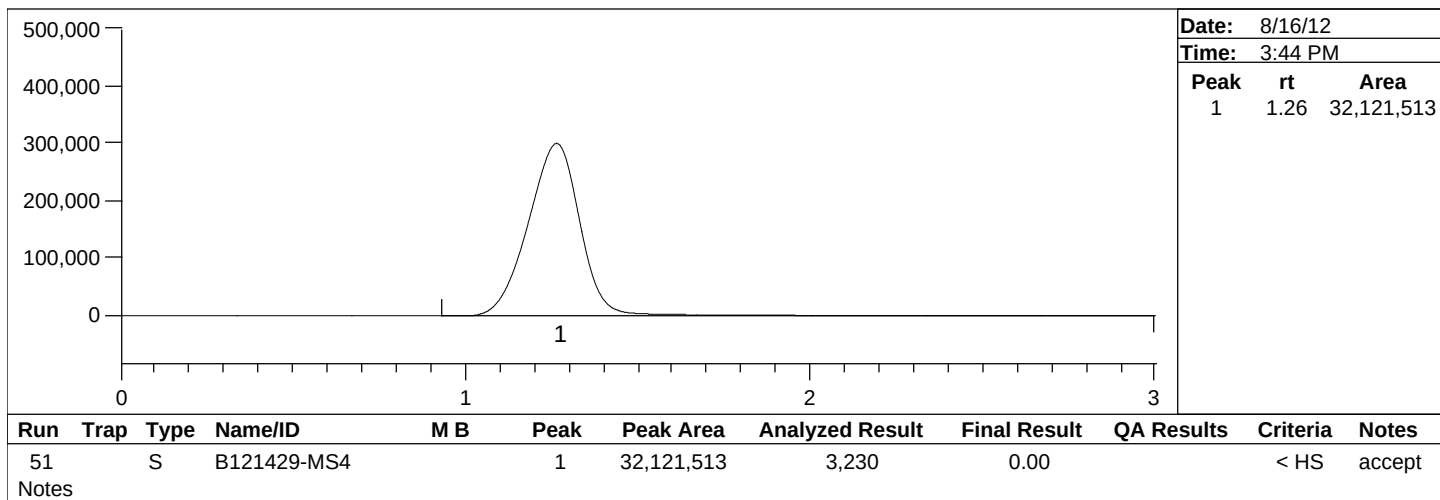
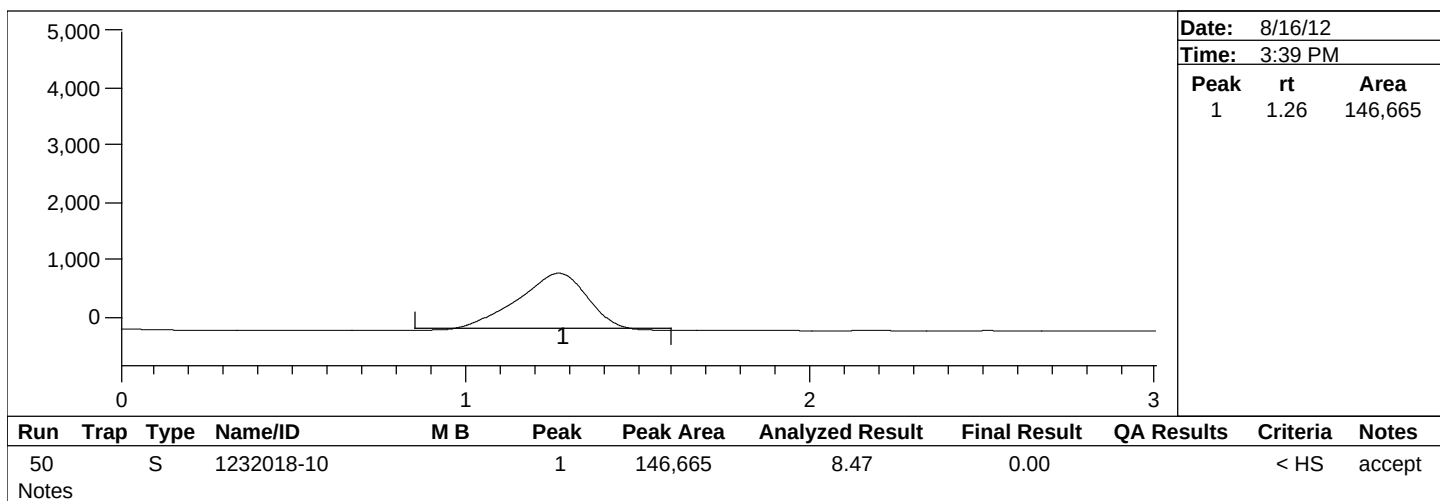
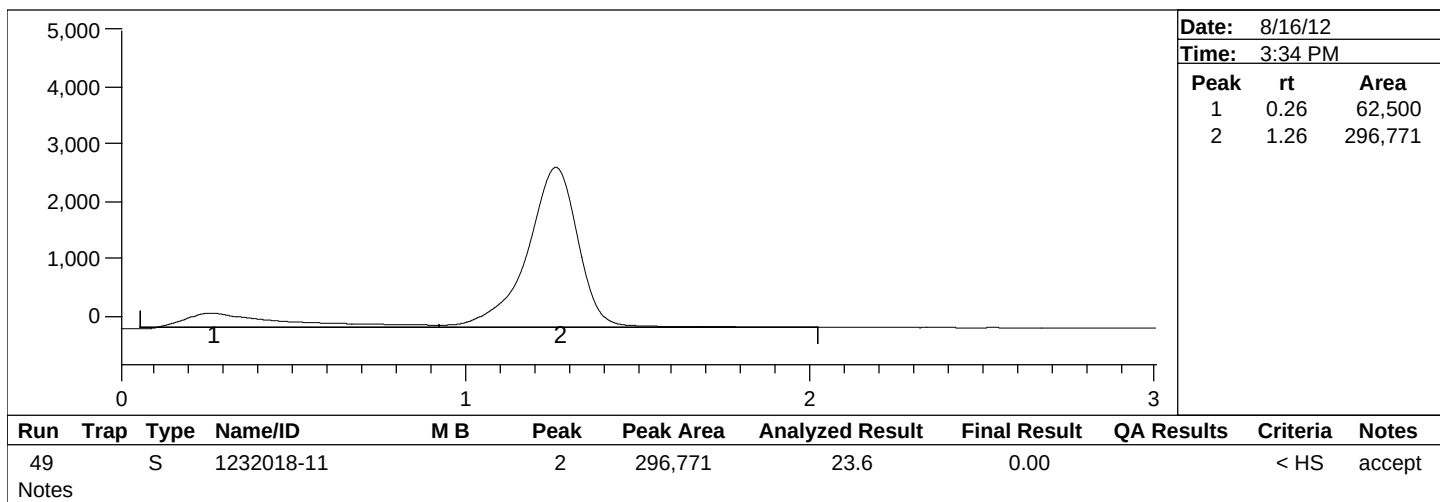
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Analyst Name: MLH



Peak Report

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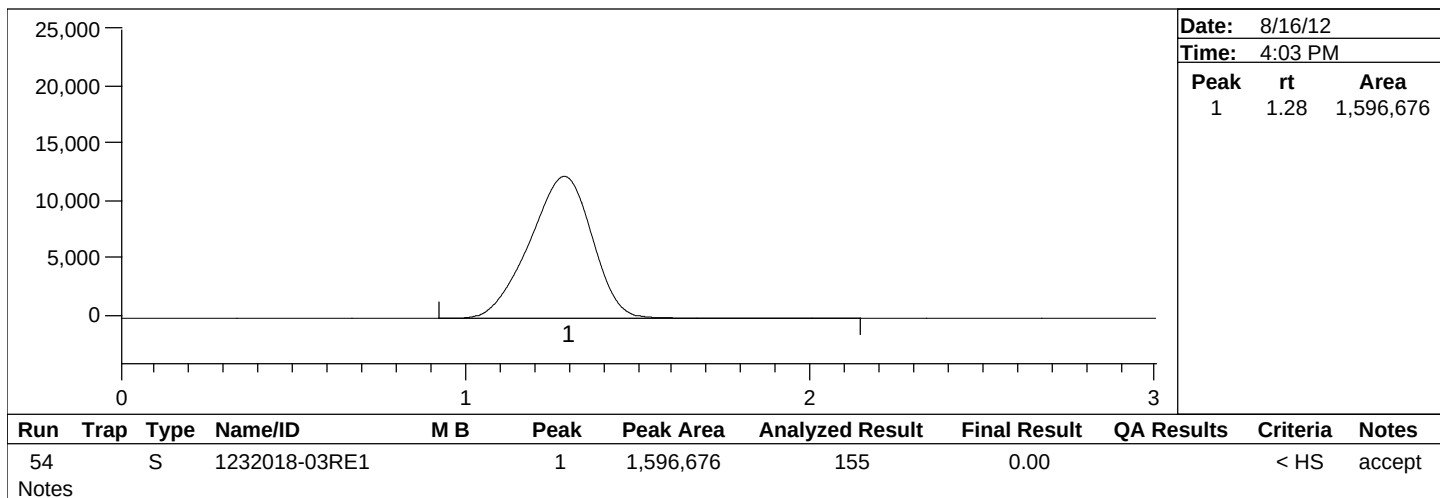
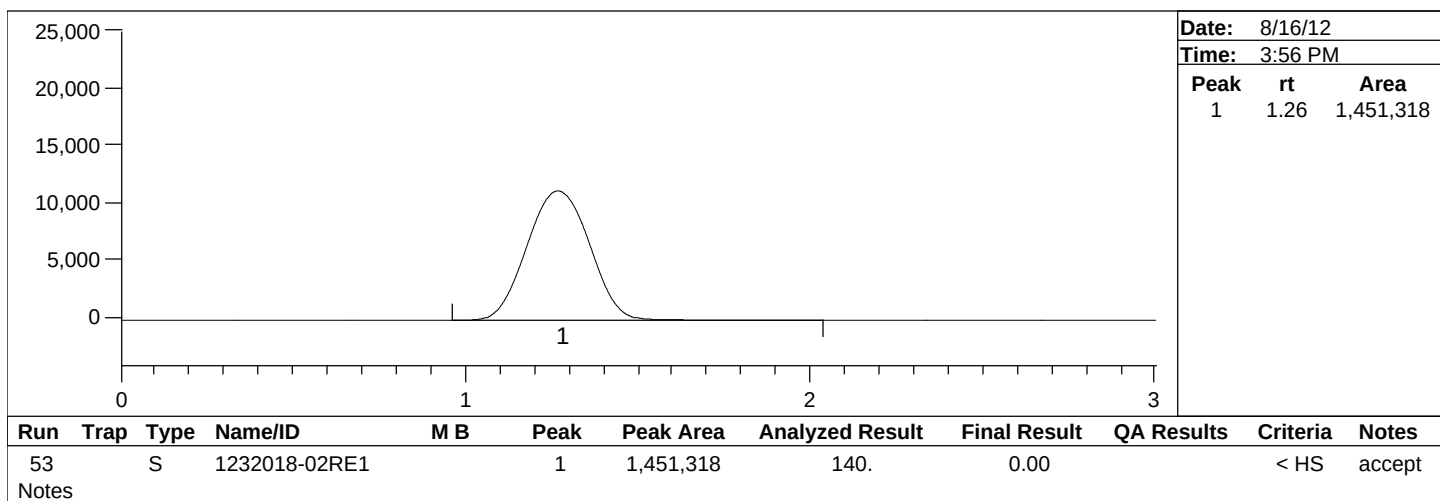
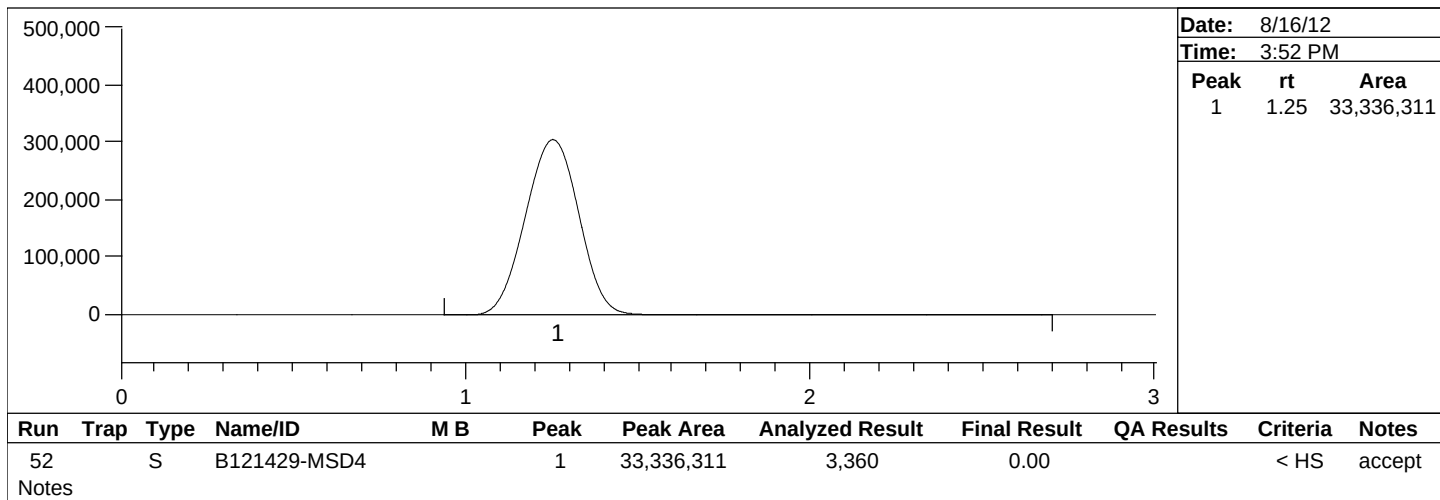
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Instrument ID: THG-05

Date Analyzed: 8/16/12

Analyst Name: MLH



Peak Report

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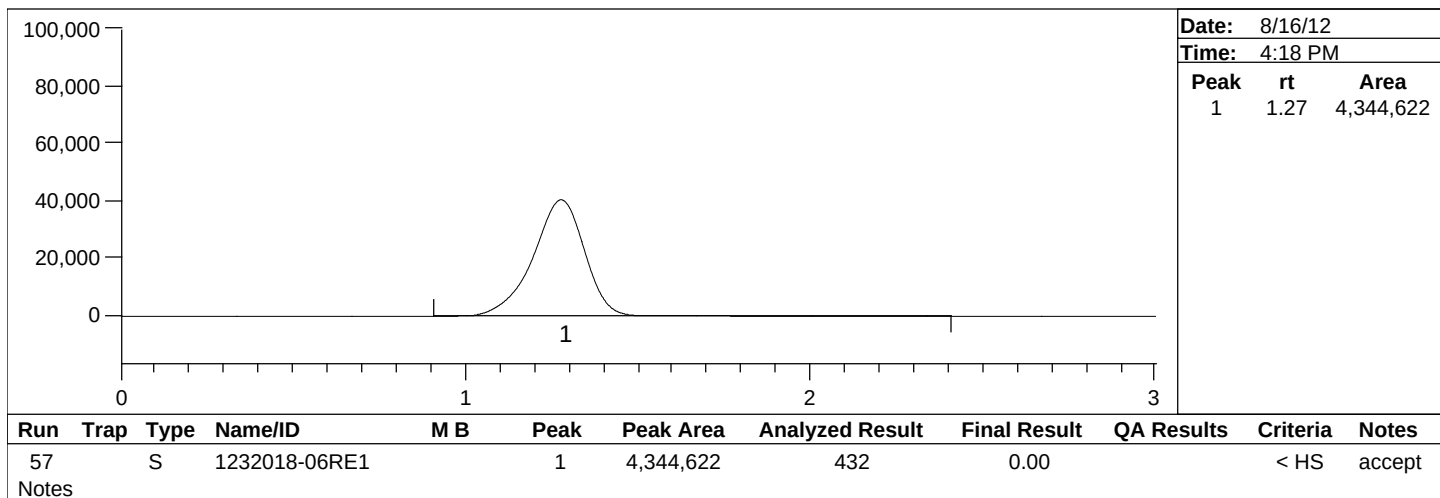
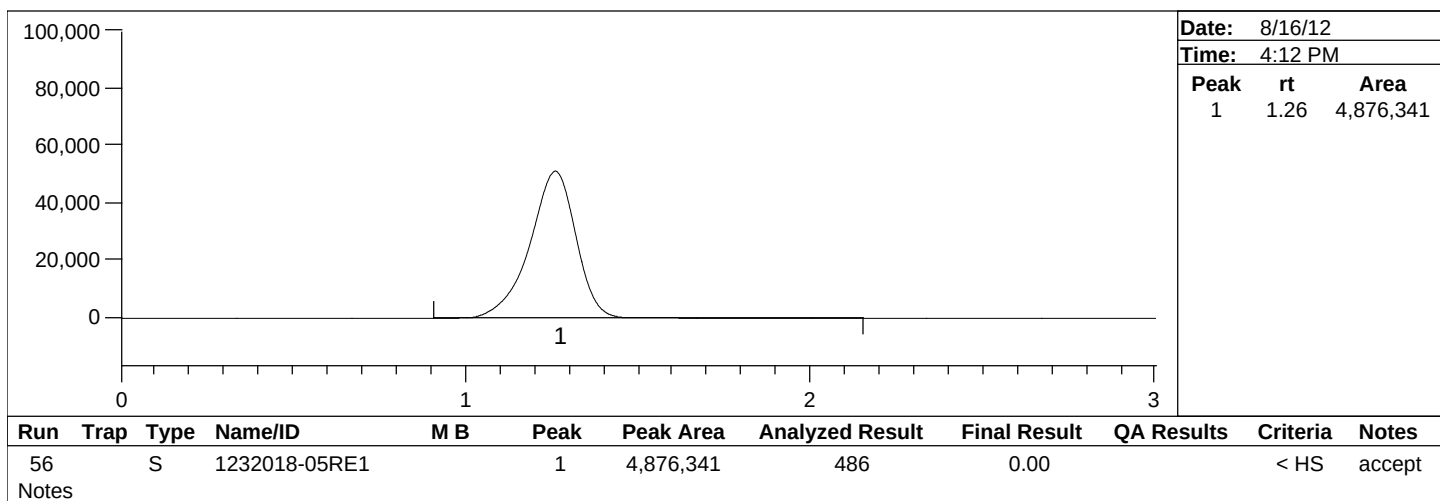
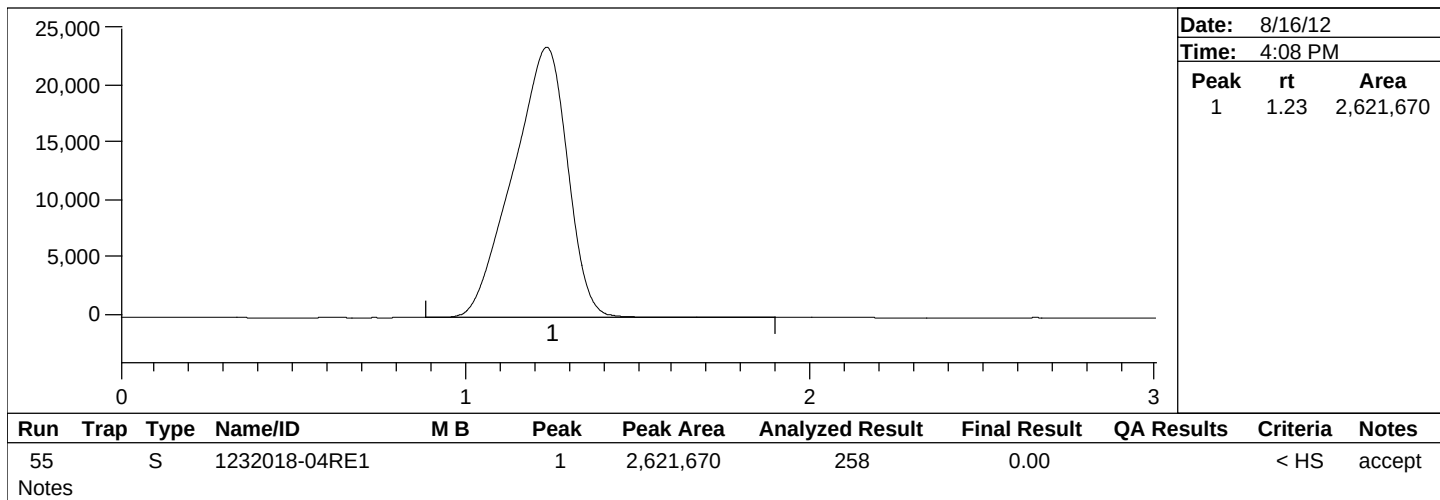
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Analyst Name: MLH



Peak Report

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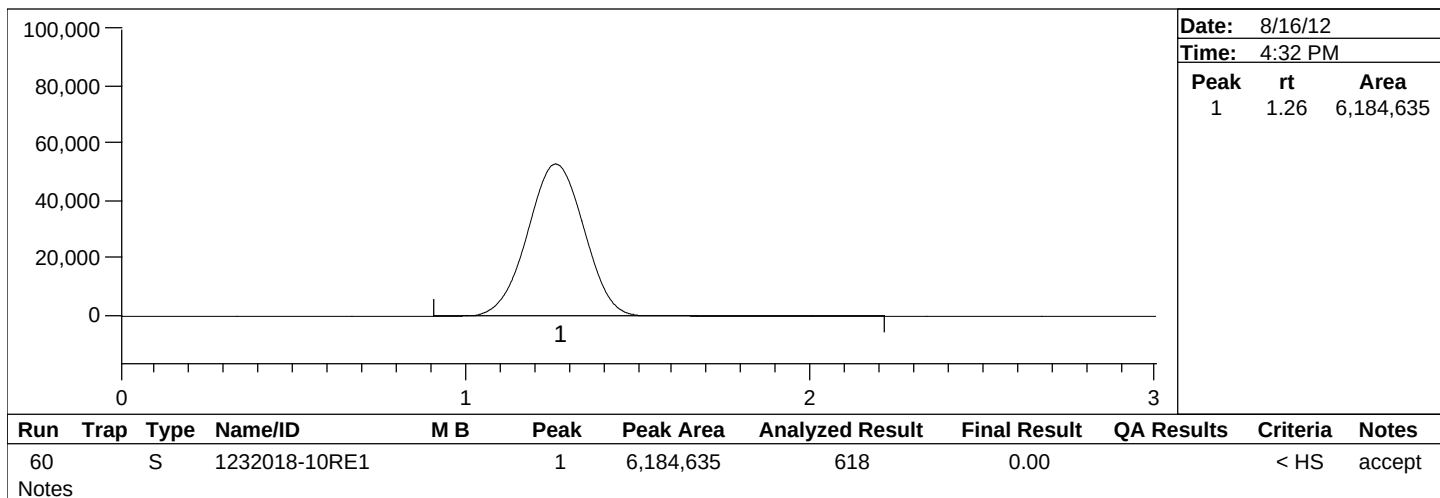
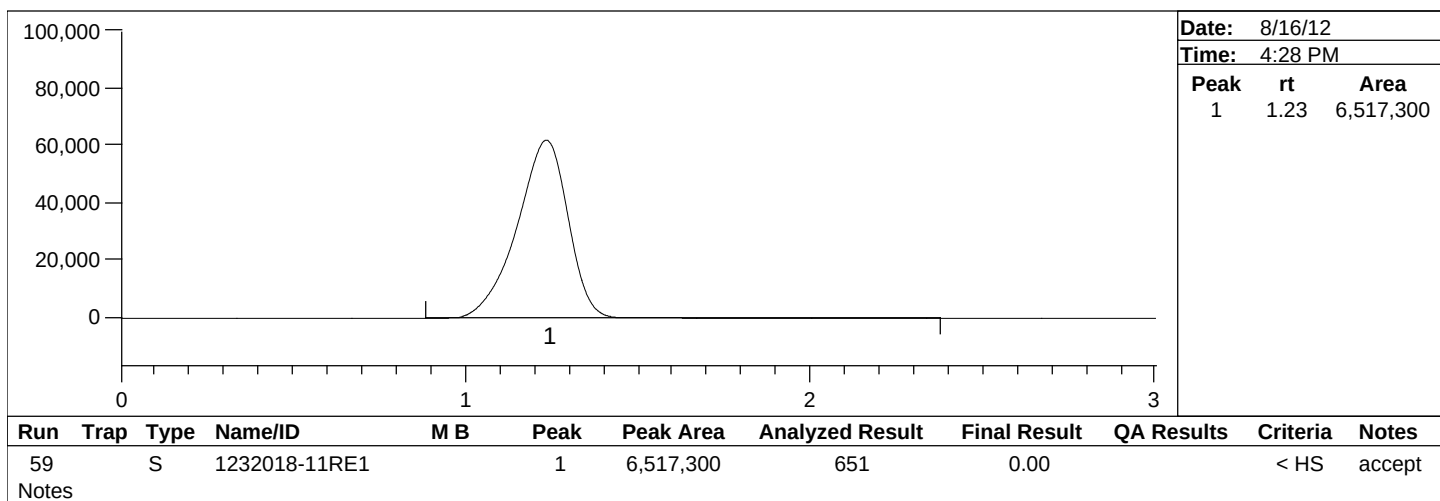
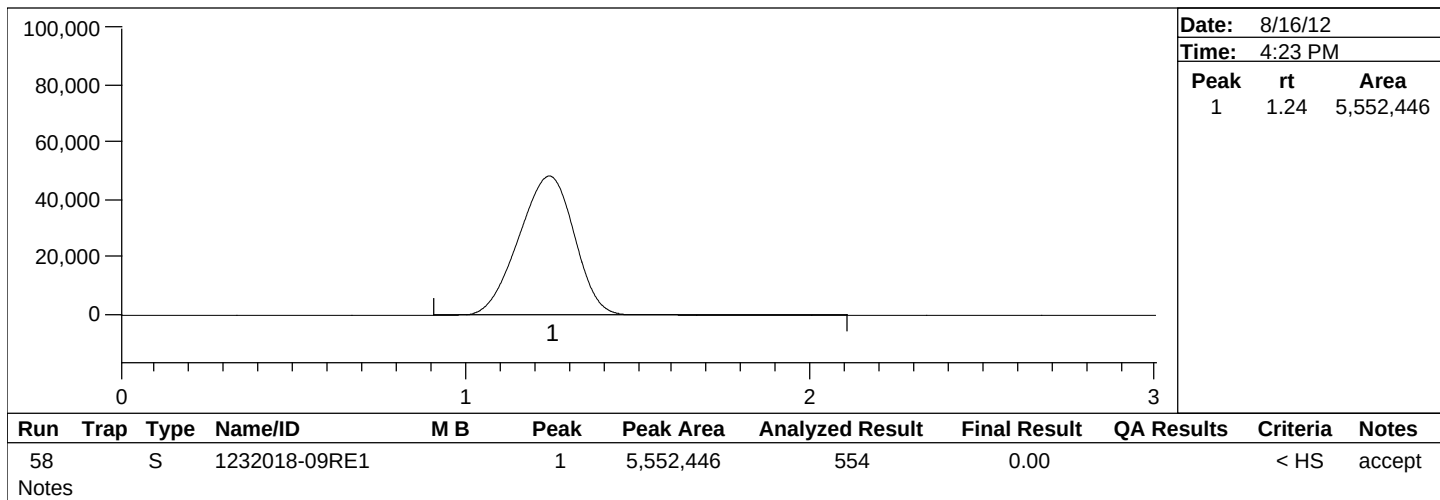
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Date Analyzed: 8/16/12

Analyst Name: MLH



Peak Report

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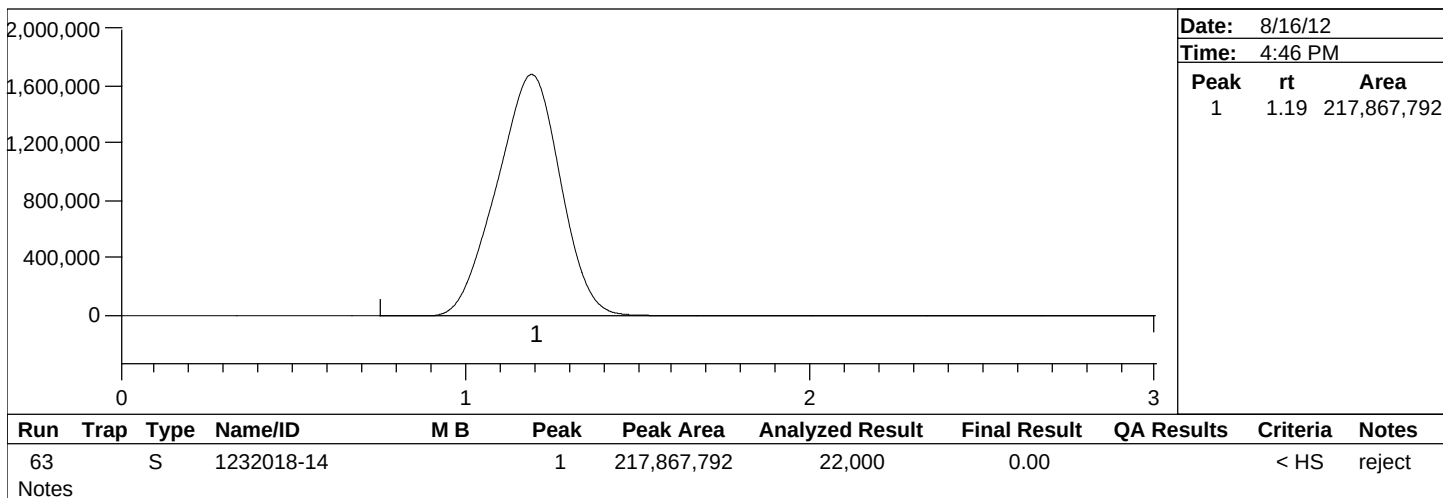
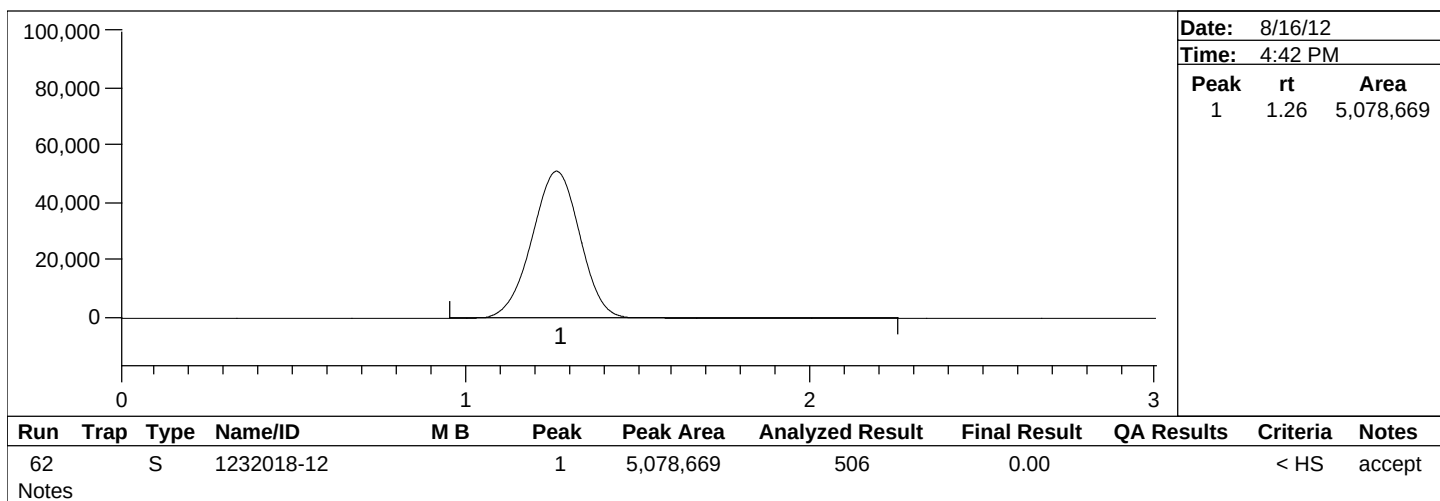
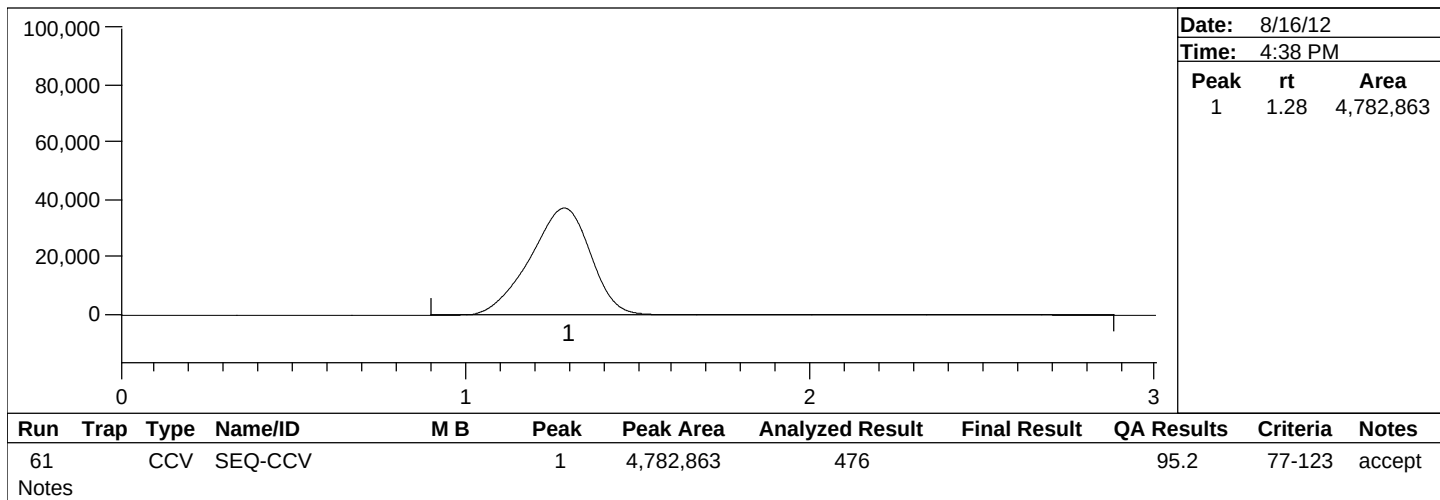
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Analyst Name: MLH



Peak Report

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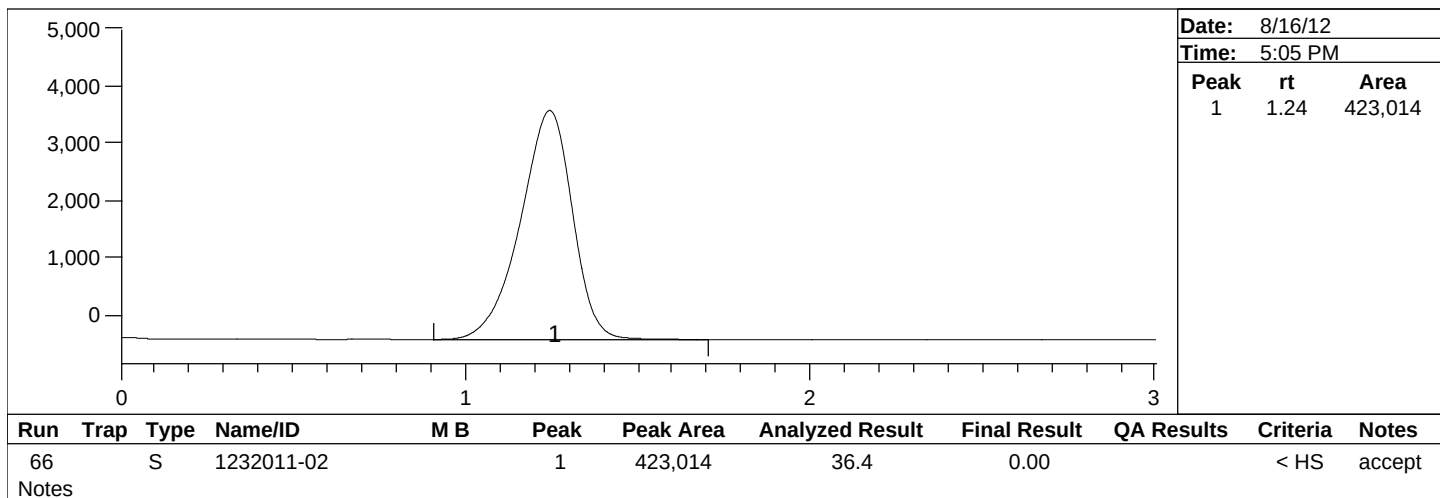
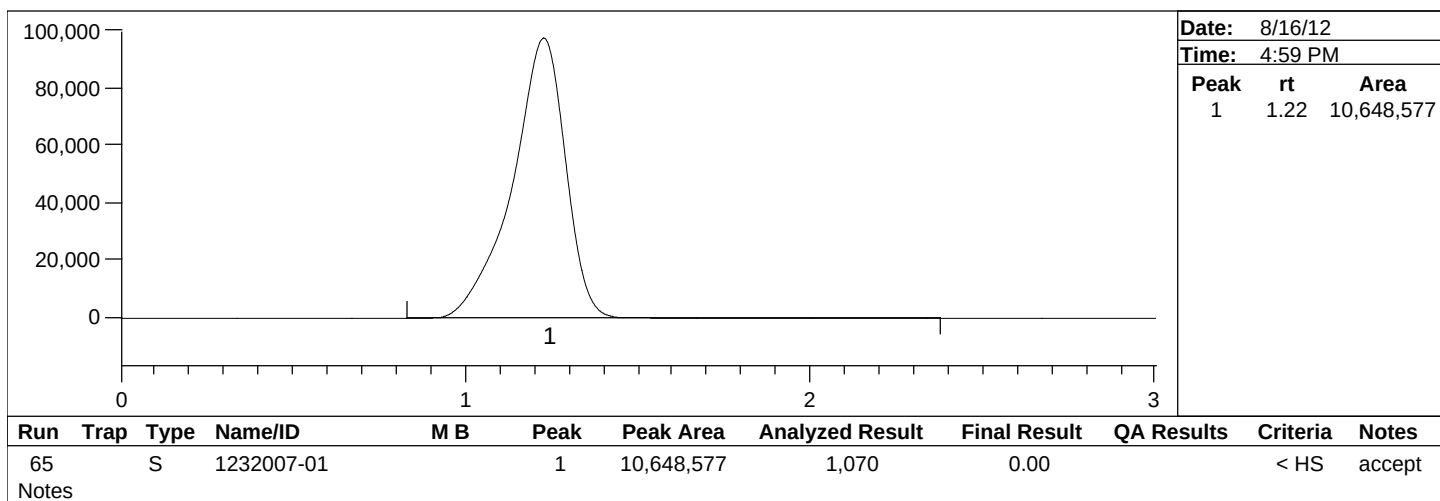
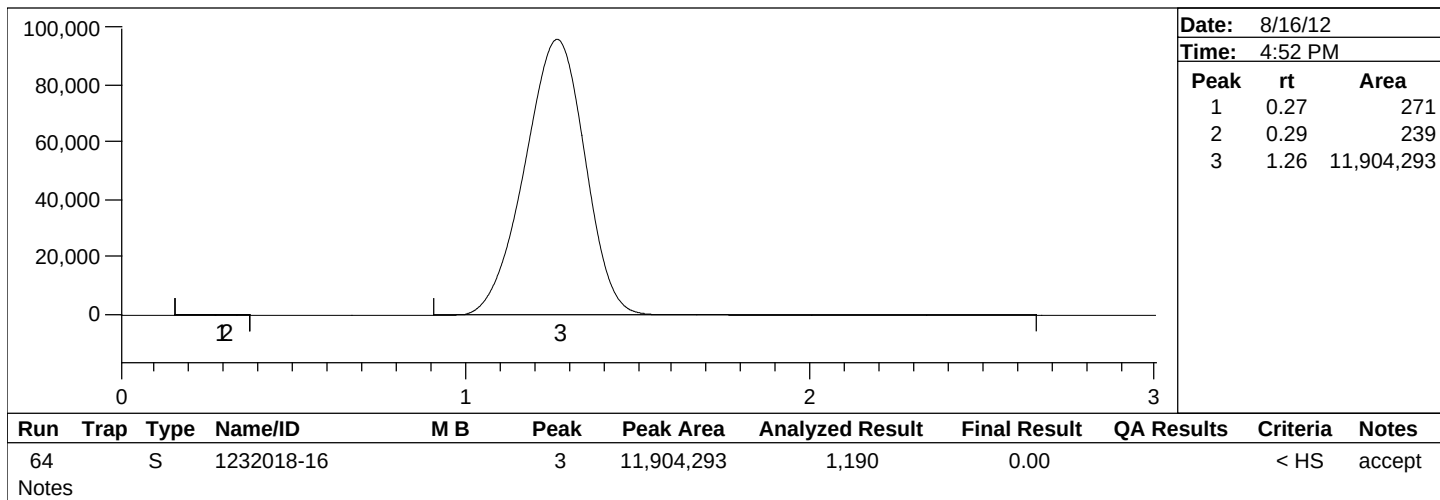
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Peak Report

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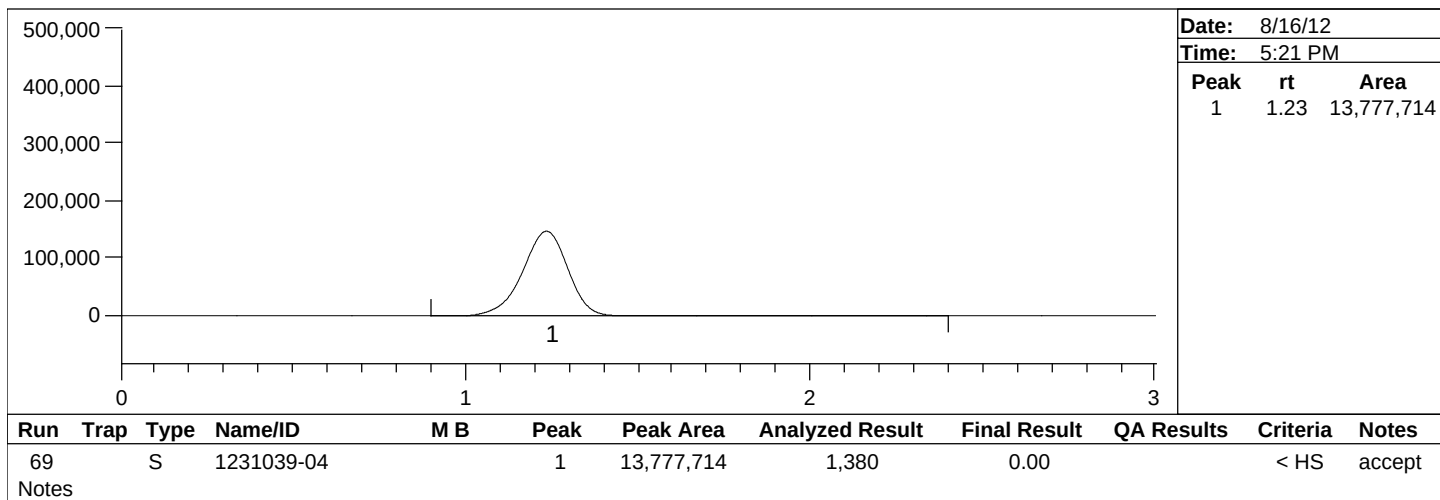
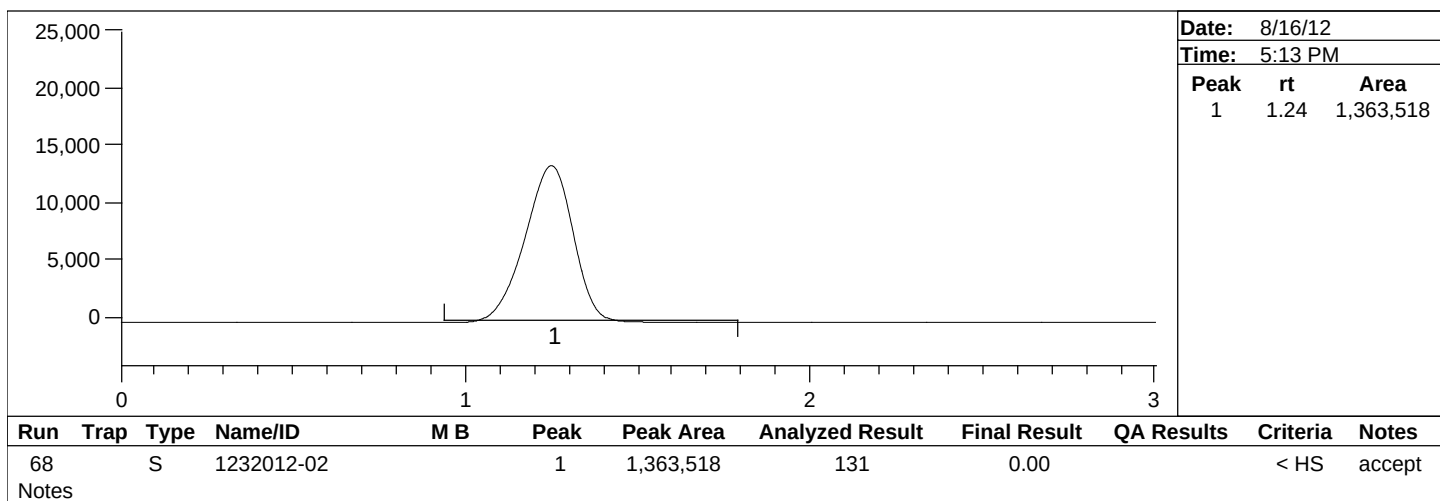
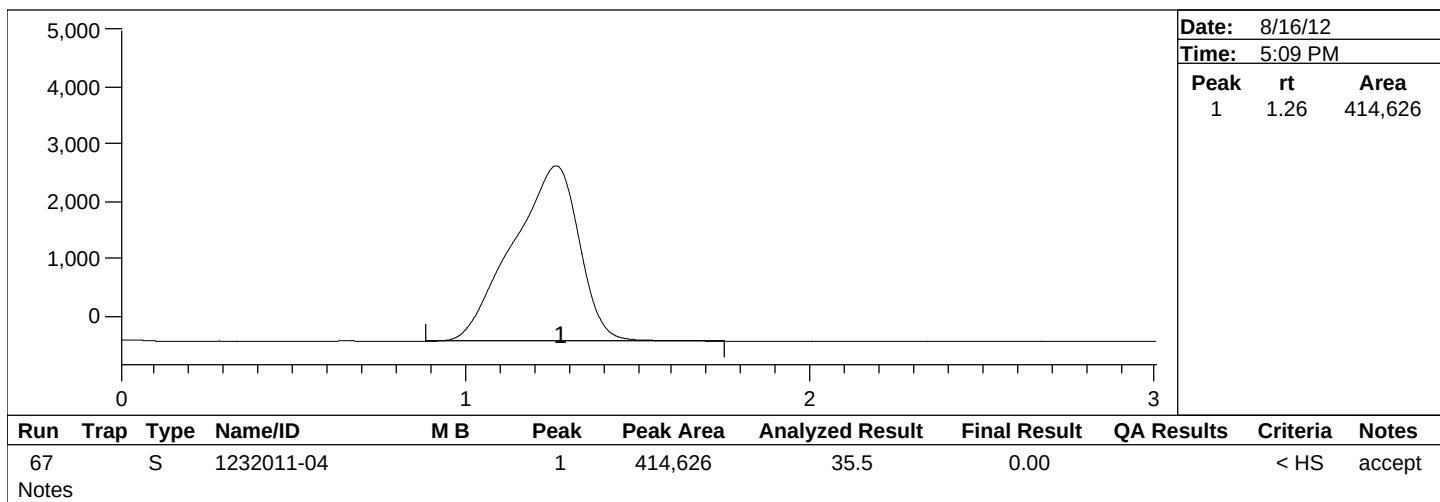
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Instrument ID: THG-05

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Peak Report

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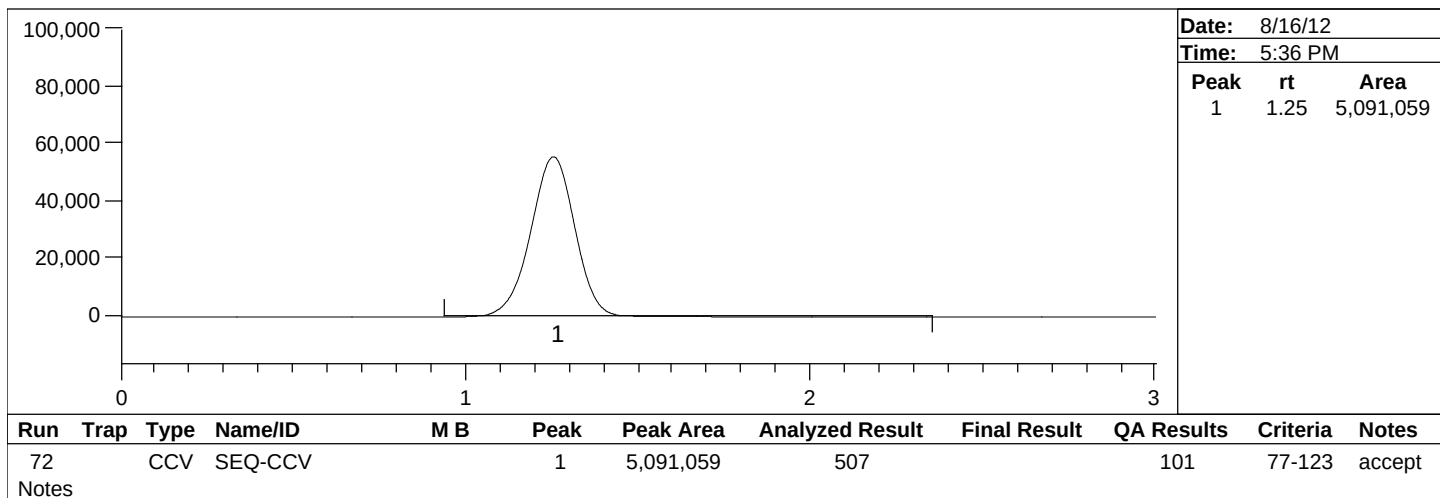
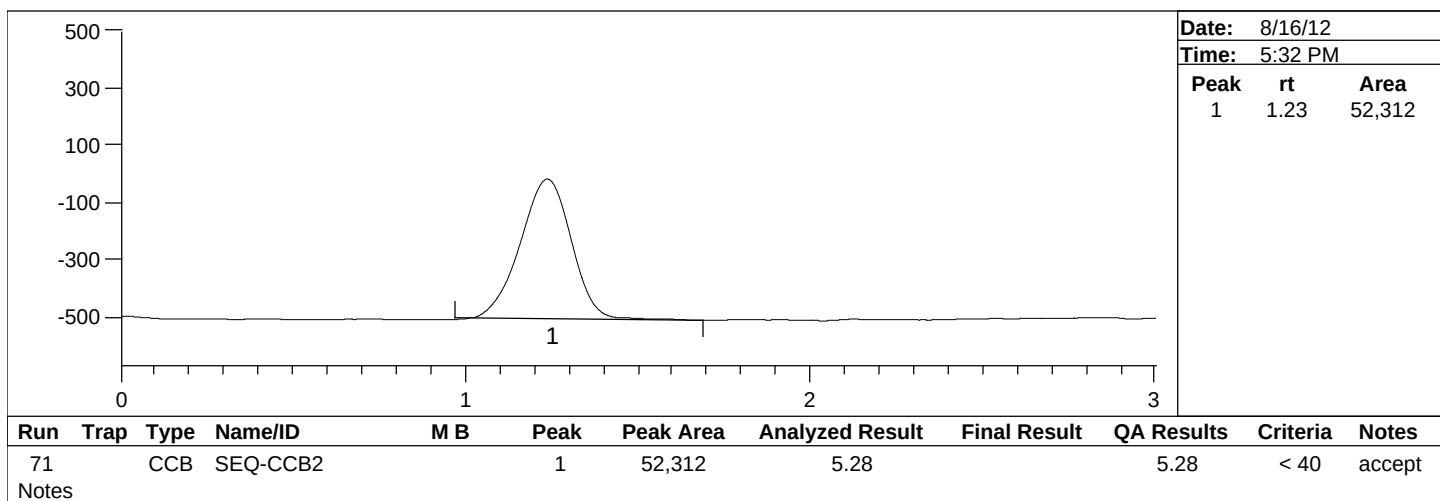
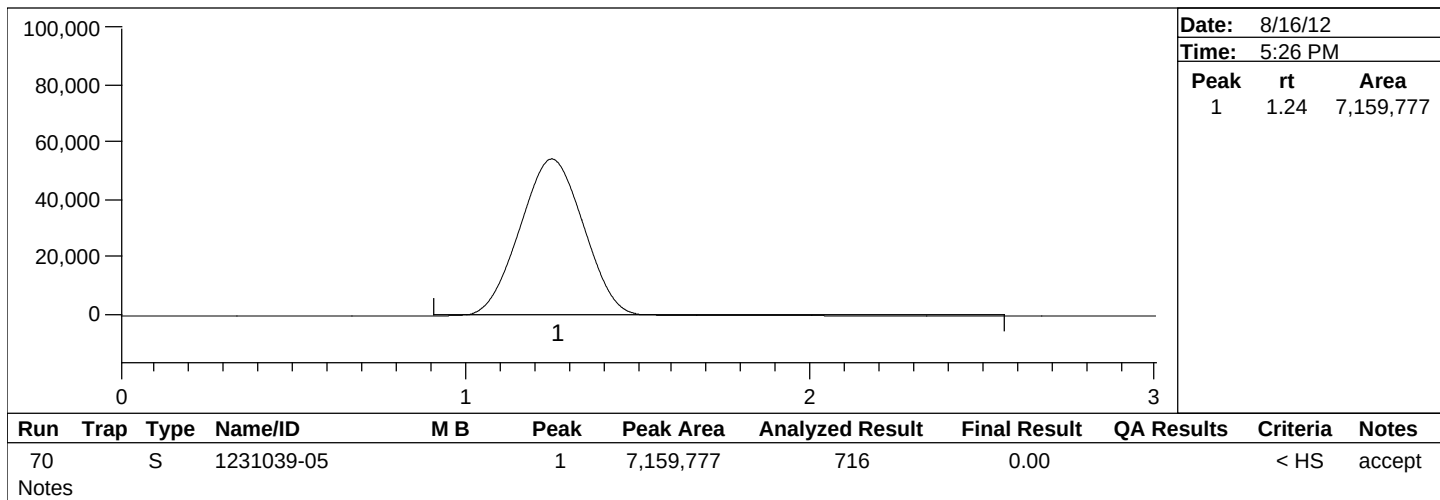
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Project Number(s): 1200638

Instrument ID: THG-05

Date Analyzed: 8/16/12

Analyst Name: MLH



Peak Report

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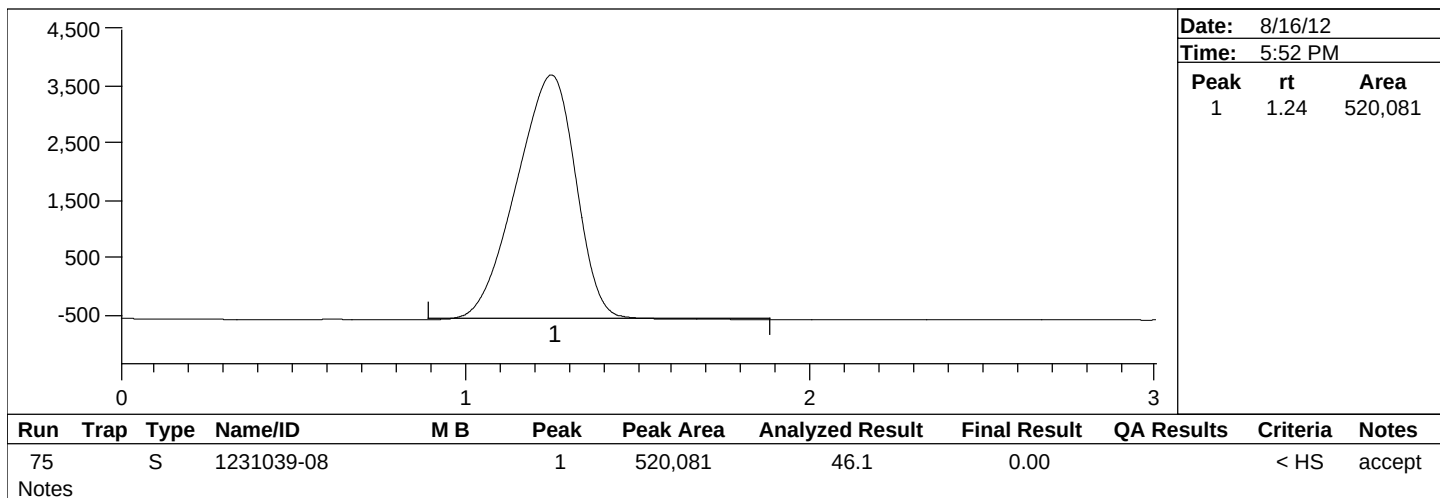
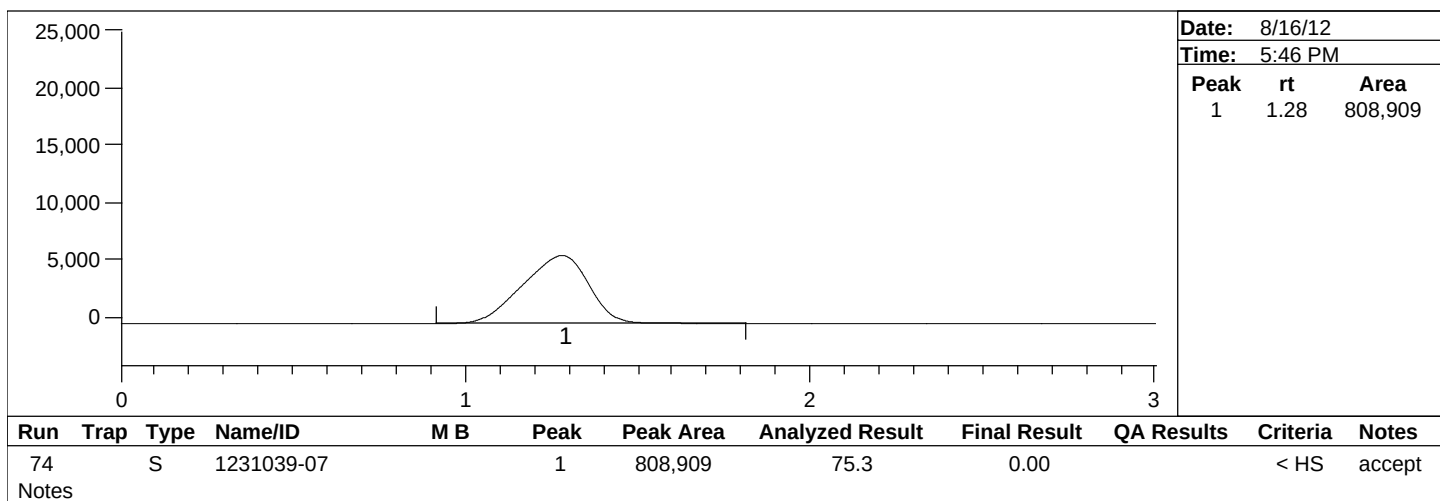
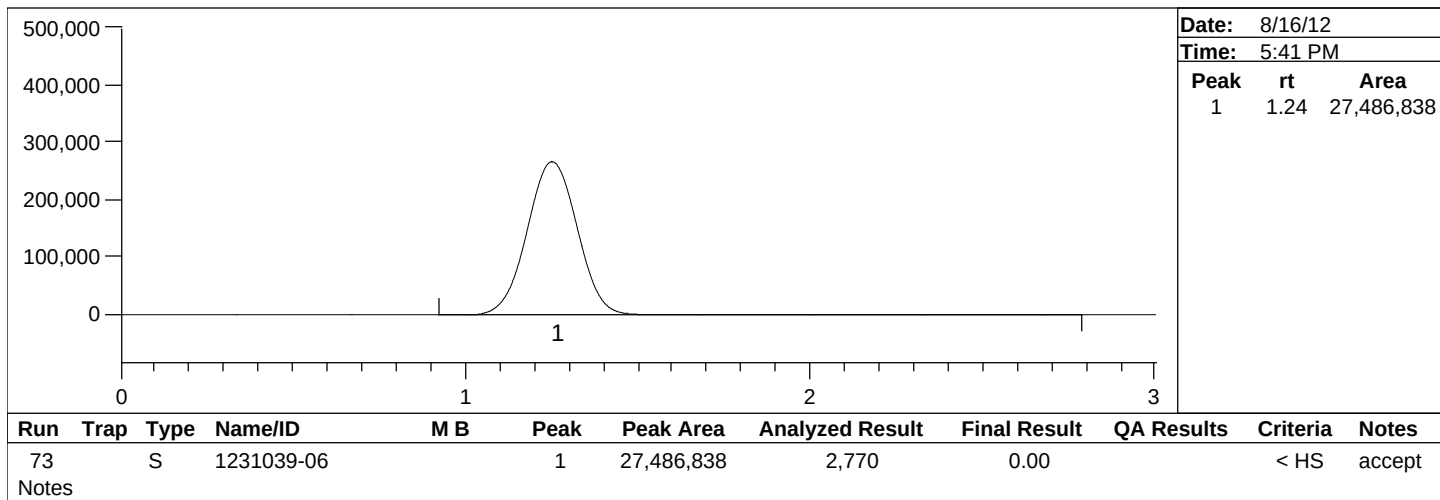
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Project Number(s): 1200638

Instrument ID: THG-05

Date Analyzed: 8/16/12

Analyst Name: MLH



Peak Report

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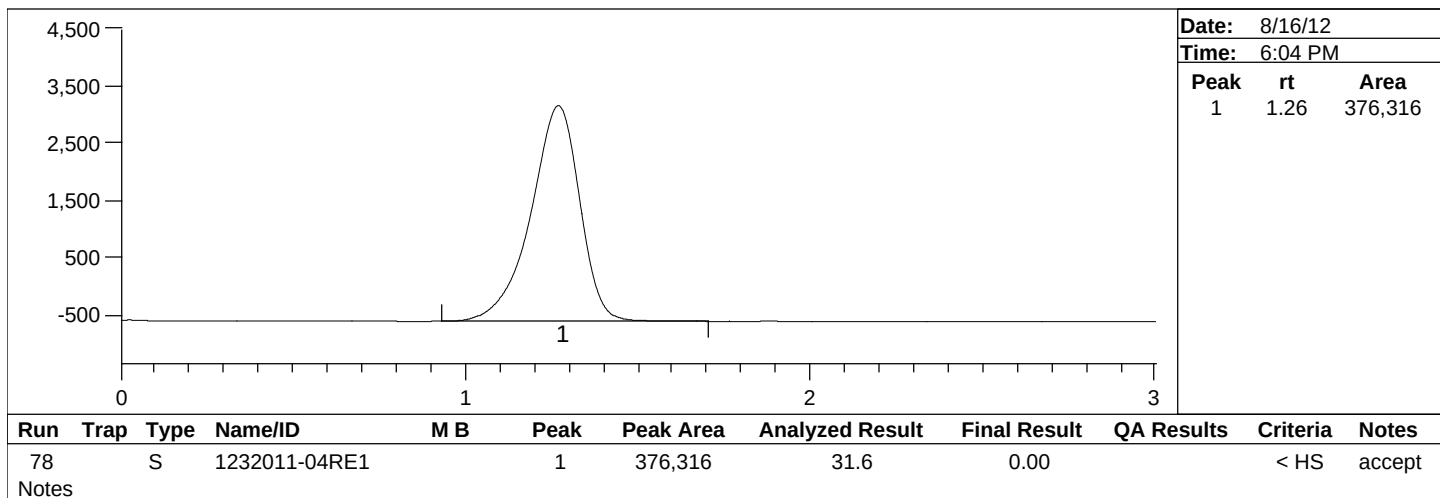
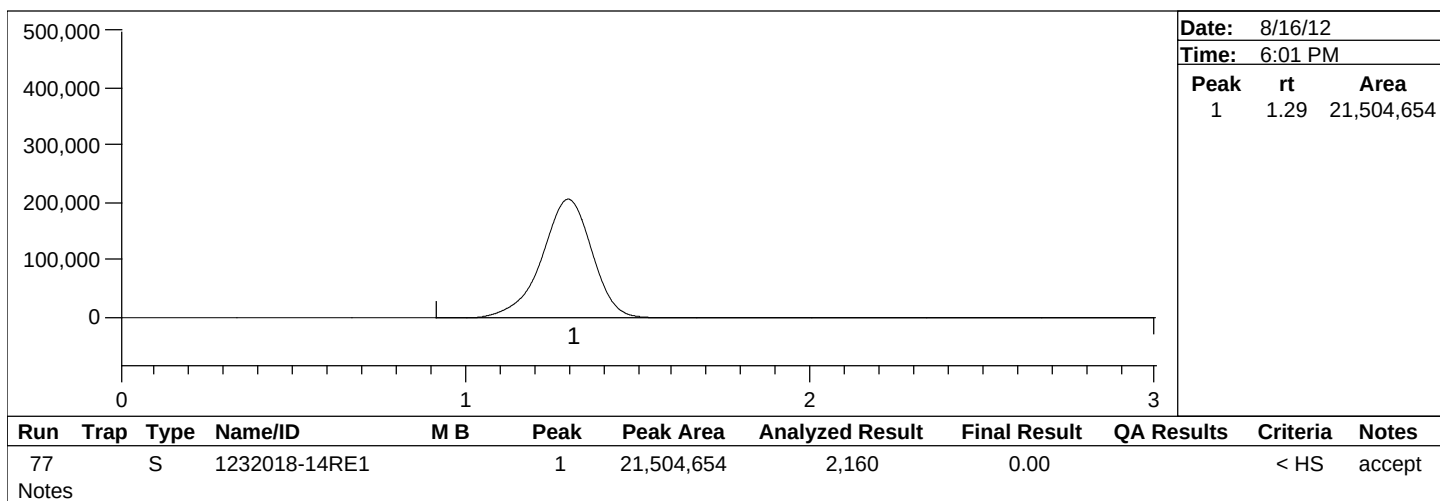
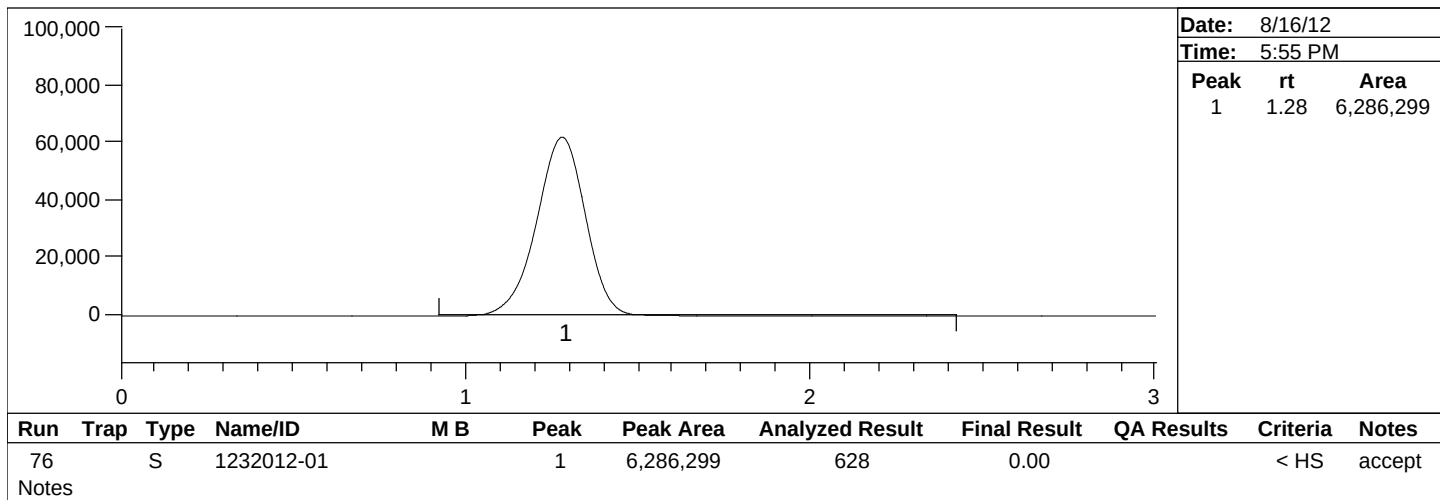
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Project Number(s): 1200638

Instrument ID: THG-05

Date Analyzed: 8/16/12

Analyst Name: MLH

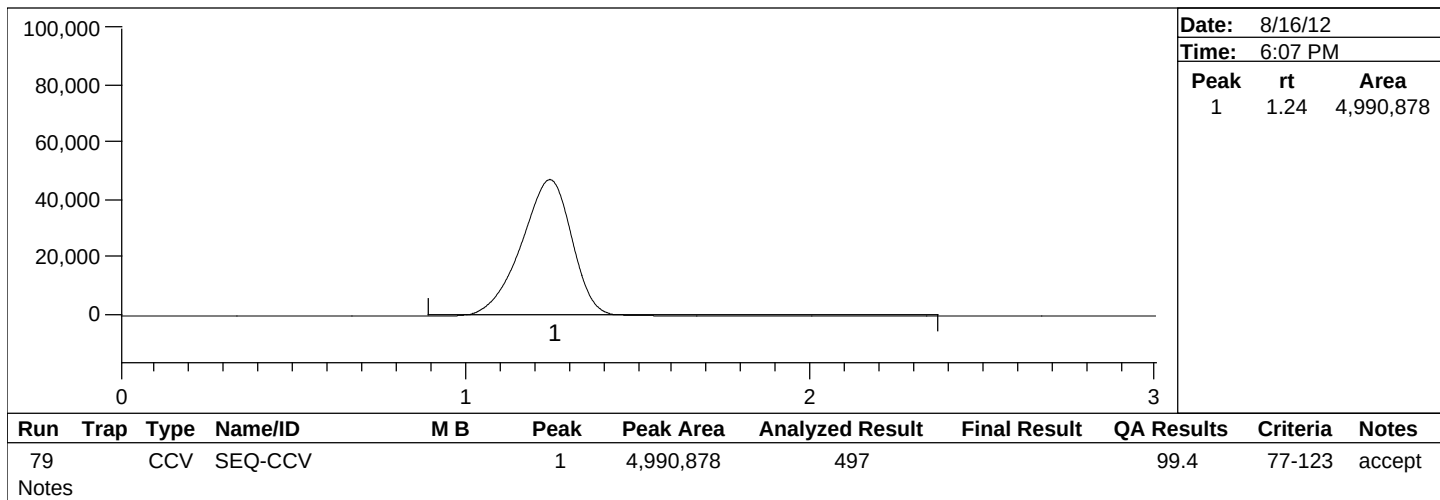


Peak Report

Batch Number: B121429
Method Number: CVAFS BR-0006

Project Number(s): 1200638
Instrument ID: THG-05

Date Analyzed: 8/16/12
Analyst Name: MLH



ANALYSIS SEQUENCE

BRL Report 1232018

Brooks Rand Labs

1200642

Instrument: THG-05

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1200642-IBL1	1200642	QC	1		-			
1200642-IBL2	1200642	QC	2		-			
1200642-IBL3	1200642	QC	3		-			
1200642-IBL4	1200642	QC	4		-			
1200642-CAL1	1200642	QC	5	1232058	-			
1200642-CAL2	1200642	QC	6	1232059	-			
1200642-CAL3	1200642	QC	7	1232060	-			
1200642-CAL4	1200642	QC	8	1232061	-			
1200642-CAL5	1200642	QC	9	1232062	-			
1200642-ICV1	1200642	QC	10	1232064	-			
B121451-SRM1	B121451	QC	11		-			
1200642-CCV1	1200642	QC	12	1232063	-			
B121451-BLK1	B121451	QC	13		-			
1200642-CCB1	1200642	QC	14		-			
B121451-BLK2	B121451	QC	15		-			
B121451-BLK3	B121451	QC	16		-			
B121451-BLK4	B121451	QC	17		-			
1232033-03	B121451	Hg-W-BrCl-CVAFS-TR	18			DUK-HV1201	8/22/2012	
1232033-04	B121451	Hg-W-BrCl-CVAFS-Diss	19			DUK-HV1201	8/22/2012	
1232033-07	B121451	Hg-W-BrCl-CVAFS-TR	20			DUK-HV1201	8/22/2012	
1232034-03	B121451	Hg-W-BrCl-CVAFS-TR	21			DUK-HV1201	8/22/2012	
1232033-08	B121451	Hg-W-BrCl-CVAFS-Diss	22			DUK-HV1201	8/22/2012	
1232033-11	B121451	Hg-W-BrCl-CVAFS-TR	23			DUK-HV1201	8/22/2012	
1232033-12	B121451	Hg-W-BrCl-CVAFS-Diss	24			DUK-HV1201	8/22/2012	
1232024-01	B121451	Hg-W-BrCl-CVAFS-Diss	25			USG-SR0901	1/1/1980	BatchQC
1232024-01	B121451	Hg-W-BrCl-CVAFS-TR	26			USG-SR0901	8/30/2012	acidified w/HCl; expected < 100 ng/L

ANALYSIS SEQUENCE

BRL Report 1232018

Brooks Rand Labs

1200642

Instrument: THG-05

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
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1232034-06	B121451	Hg-W-BrCl-CVAFS-TR	29			DUK-HV1201	8/22/2012	
1232025-04	B121451	Hg-W-BrCl-CVAFS-TR	30			CHM-BN1201	8/21/2012	
1232018-24	B121451	Hg-W-BrCl-CVAFS-Diss	31			DUP002	8/30/2012	
1232033-01	B121451	Hg-W-BrCl-CVAFS-TR	32			DUK-HV1201	8/22/2012	
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1232034-01	B121451	Hg-W-BrCl-CVAFS-TR	34			DUK-HV1201	8/22/2012	
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1232018-17	B121451	Hg-W-BrCl-CVAFS-Diss	37			DUP002	8/30/2012	
1232018-18	B121451	Hg-W-BrCl-CVAFS-Diss	38			DUP002	8/30/2012	
1200642-CCB3	1200642	QC	39		-			
1232018-19	B121451	Hg-W-BrCl-CVAFS-Diss	40			DUP002	8/30/2012	
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1232026-05	B121451	Hg-W-BrCl-CVAFS-TR	42			ORS-CN1201	8/31/2012	
1200642-CCB4	1200642	QC	43		-			
1232025-04RE1	B121451	Hg-W-BrCl-CVAFS-TR	44			CHM-BN1201	8/21/2012	Added 8/20/2012 by M_H
1232034-06RE1	B121451	Hg-W-BrCl-CVAFS-TR	45			DUK-HV1201	8/22/2012	Added 8/20/2012 by M_H
1232034-01RE1	B121451	Hg-W-BrCl-CVAFS-Diss	46			DUK-HV1201	1/1/1980	Added 8/20/2012 by M_H
1232034-01RE1	B121451	Hg-W-BrCl-CVAFS-TR	47			DUK-HV1201	8/22/2012	Added 8/20/2012 by M_H
1200642-CCB5	1200642	QC	48		-			
1232018-24RE1	B121451	Hg-W-BrCl-CVAFS-Diss	49			DUP002	8/30/2012	Added 8/20/2012 by M_H
B121451-MS1	B121451	QC	50		1232024-01			
B121451-MSD1	B121451	QC	51		1232024-01			
1200642-CCB6	1200642	QC	52		-			

ANALYSIS SEQUENCE

BRL Report 1232018

Brooks Rand Labs

1200642

Instrument: THG-05

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1232034-03RE2	B121451	Hg-W-BrCl-CVAFS-Diss	53			DUK-HV1201	1/1/1980	BatchQC
1232034-03RE2	B121451	Hg-W-BrCl-CVAFS-TR	54			DUK-HV1201	8/22/2012	Added 8/17/2012 by M_H
1232018-17RE1	B121451	Hg-W-BrCl-CVAFS-Diss	55			DUP002	8/30/2012	Added 8/20/2012 by M_H
1232018-18RE1	B121451	Hg-W-BrCl-CVAFS-Diss	56			DUP002	8/30/2012	Added 8/20/2012 by M_H
1200642-CCB7	1200642	QC	57		-			
1232018-19RE1	B121451	Hg-W-BrCl-CVAFS-Diss	58			DUP002	8/30/2012	Added 8/20/2012 by M_H
1232018-20RE1	B121451	Hg-W-BrCl-CVAFS-Diss	59			DUP002	8/30/2012	Added 8/20/2012 by M_H
1232026-05RE1	B121451	Hg-W-BrCl-CVAFS-Diss	60			ORS-CN1201	1/1/1980	BatchQC
1232026-05RE1	B121451	Hg-W-BrCl-CVAFS-TR	61			ORS-CN1201	8/31/2012	Added 8/17/2012 by M_H
1200642-CCB8	1200642	QC	62		-			
B121451-MS2	B121451	QC	63		1232034-01			
B121451-MSD2	B121451	QC	64		1232034-01			
B121451-MS3	B121451	QC	65		1232034-03RE2			
1200642-CCV2	1200642	QC	66	1232063	-			
1200642-CCV3	1200642	QC	67	1232063	-			
1232018-22	B121451	Hg-W-BrCl-CVAFS-Diss	68			DUP002	8/30/2012	
1232018-23	B121451	Hg-W-BrCl-CVAFS-Diss	69			DUP002	8/30/2012	
1200642-CCB9	1200642	QC	70		-			
1232018-21	B121451	Hg-W-BrCl-CVAFS-Diss	71			DUP002	8/30/2012	
1232025-05	B121451	Hg-W-BrCl-CVAFS-TR	72			CHM-BN1201	8/21/2012	
B121451-MS4	B121451	QC	73		1232026-05RE1			
B121451-MSD4	B121451	QC	74		1232026-05RE1			
1232026-01	B121451	Hg-W-BrCl-CVAFS-TR	75			ORS-CN1201	8/31/2012	
1232026-02	B121451	Hg-W-BrCl-CVAFS-Diss	76			ORS-CN1201	8/31/2012	
1232026-03	B121451	Hg-W-BrCl-CVAFS-TR	77			ORS-CN1201	8/31/2012	
1232026-04	B121451	Hg-W-BrCl-CVAFS-Diss	78			ORS-CN1201	8/31/2012	

ANALYSIS SEQUENCE

BRL Report 1232018

Brooks Rand Labs

1200642

Instrument: THG-05

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1232018-22RE1	B121451	Hg-W-BrCl-CVAFS-Diss	79			DUP002	8/30/2012	Added 8/20/2012 by M_H
1232018-23RE1	B121451	Hg-W-BrCl-CVAFS-Diss	80			DUP002	8/30/2012	Added 8/20/2012 by M_H
1232018-21RE1	B121451	Hg-W-BrCl-CVAFS-Diss	81			DUP002	8/30/2012	Added 8/20/2012 by M_H
1200642-CCV4	1200642	QC	82	1229079	-			
1232026-06	B121451	Hg-W-BrCl-CVAFS-Diss	83			ORS-CN1201	8/31/2012	
1232026-07	B121451	Hg-W-BrCl-CVAFS-TR	84			ORS-CN1201	8/31/2012	
1232034-05	B121451	Hg-W-BrCl-CVAFS-TR	85			DUK-HV1201	8/22/2012	
1232033-02	B121451	Hg-W-BrCl-CVAFS-Diss	86			DUK-HV1201	8/22/2012	
1232033-05	B121451	Hg-W-BrCl-CVAFS-TR	87			DUK-HV1201	8/22/2012	
1232033-06	B121451	Hg-W-BrCl-CVAFS-Diss	88			DUK-HV1201	8/22/2012	
1232033-09	B121451	Hg-W-BrCl-CVAFS-TR	89			DUK-HV1201	8/22/2012	
1232033-10	B121451	Hg-W-BrCl-CVAFS-Diss	90			DUK-HV1201	8/22/2012	
1200642-ICB1	1200642	QC	91		-			
1233015-01	B121451	Hg-W-BrCl-CVAFS-TR	92			H2M-MV0801	8/17/2012	
1233016-01	B121451	Hg-W-BrCl-CVAFS-TR	93			H2M-MV0801	8/21/2012	
1232033-05RE1	B121451	Hg-W-BrCl-CVAFS-TR	94			DUK-HV1201	8/22/2012	Added 8/20/2012 by M_H
1200642-ICB2	1200642	QC	95		-			
1200642-CCV5	1200642	QC	96	1229079	-			

SOP(s) / Rev#(s): 0000-0000**Hg Analysis Sheet** (T-Hg) Other: _____Page 1 of 4Sequence: 1200612 Batch(es): B121451Analyst: MLH Date: 8.17.12 Instrument ID: TH-0510ng/mL std ID: 1232055 1ng/mL std ID: 1232056 ICV std ID: 1233012NH₂OH·HCl #: 1231004 SnCl₂ #: 1233054Initial offset: 10,000 Initial PMT: 494.5 Trap Serial #: 12145

Run #	Split Bottle	Trap	Bubb.	Brooks Rand Sample ID	Analy. Vol. (mL)	Dilution Factor	Analysis comments / For spiked QC: Source sample, standard ID, and spiked volume (mL)
1	1	7	1	SEQ-IBL1	---		
2	2	8	2	SEQ-IBL2	---		
3	3	10	3	SEQ-IBL3	---		
4	4	11	4	SEQ-IBL4	---		
5	1	12	1	SEQ-CAL1	0.025		1ng/mL
6	2	1	2	SEQ-CAL2	0.100		1ng/mL
7	3	2	3	SEQ-CAL3	0.050		10ng/mL
8	4	3	4	SEQ-CAL4	0.250		10ng/mL
9	1	4	1	SEQ-CAL5	1.00		10ng/mL
10	2	6	2	SEQ-ICV1	1.00		NIST 1641d
11	3	7	3	SEQ-CCV	0.050		10ng/mL
12	4	8	4	B121451-BLK1	100.16		
13	1	10	1	SEQ-CCB1	---		
14	2	11	2	B121451-BLK2	99.49		
15	3	12	3	↓ -BLK3	100.81		
16	4	1	4	↓ -BLK4	99.95		
17	1	2	1	1232033-03	100.77		
18	2	3	2	↓ -04	100.61		
19	3	4	3	↓ -07	100.17		
20	4	6	4	1232034-03	1.00		
21	1	7	1	1232033-08	100.60		
22	2	8	2	↓ -11	100.78		
23	3	10	3	↓ -12	99.80		
24	4	11	4	1232024-01	29.54		

Comments: _____

Balance ID: BL-01

SOP(s) / Rev#(s): 0006-004e

Hg Analysis Sheet: T-Hg / Other: _____

Page 2 of 4

Sequence: 1200642

Analyst: MLH

Date: 8.17.12

Run #	Split Bottle	Trap	Bubb.	Brooks Rand Sample ID	Analy. Vol. (mL)	Dilution Factor	Analysis comments / For spiked QC: Source sample, standard ID, and spiked volume (mL)
25	1	12	1	1232034-02	100.49		
26	2	1	2	↓ -04	100.23		
27	3	2	3	↓ -06	100.72		
28	4	3	4	1232025-04	19.37		OVER-CL: WILL PERON
29	1	4	1	1232018-24	100.51		
30	2	6	2	1232033-01	0.300		
31	3	7	3	1232034-01	0.300		
32	4	8	4	~~1232035-05~~ ¹²³²⁰³⁵⁻⁰⁵	—		SEQ - CLB2
33	1	10	1	1232034-03PE	49.98		
34	2	11	2	1232018-17	1.00		
35	3	12	3	↓ -18	↓		
36	4	1	4	↓ -19mL ^{2.12}	↓		(HIGH BUBBLER) SEQ-CLB3
37	1	2	1	1232018-19	1.00		
38	2	4	2	↓ -20	↓		
39	3	6	3	1232026-05	10.17		
40	4	7	4	SEQ-CLB4	—		
41	1	8	1	1232025-04PE	0.020		
42	2	10	2	1232034-06PE	100.90		
43	3	11	3	1232034-01PE	1.00		
44	4	12	4	SEQ-CLB5	—		
45	1	1	1	1232018-24PE	37.84		
46	2	2	2	B121451-MS1	29.69		NATIVE: 1232024-01 + 5800 (580 mL of 10mg/mL)
47	3	4	3	↓ -MSD1	30.10		↓
48	4	6	4	SEQ-CLB6	—		
49	1	7	1	1232034-03PE	99.17		
50	2	8	2	1232018-17PE	99.31		
51	3	10	3	↓ -18PE	53.77		
52	4	11	4	SEQ-CLB7	—		
53	1	12	1	1232018-19PE	10.00		
54	2	1	2	↓ -20PE	65.93		
55	3	2	3	1232026-05PE	60.14		
56	4	4	4	SEQ-CLB8	—		SWITCHED ON BUBBLERS

Comments: _____

SOP(s) / Rev#(s): 0006-004e

Hg Analysis Sheet : T-Hg / Other: _____

Page 3 of 4

Sequence: 1200642

Analyst: MCH

Date: 8.17.12

Run #	Split Bottle	Trap	Bubb.	Brooks Rand Sample ID	Analy. Vol. (mL)	Dilution Factor	Analysis comments / For spiked QC: Source sample, standard ID, and spiked volume (mL)
57	1	6	1	B121451-MS2	1.00		NATIVE: 1232034-01RE1 + 1200 (1200 μ l of 10ng/mL)
58	2	7	2	-MSD2	1.00		↓
59	3	8	3	-MS3	99.27		NATIVE: 1232034-03RE2 + 200 (200 μ l of 10ng/mL)
* 60	4	10	4	SED-CCV	0.050		10ng/mL
61	1	11	1	~~1232018-21~~	~~1.00~~	~~8.17.12~~	SED-CCV (0.050 of 10ng/mL)
62	2	12	2	1232018-22	↓		
63	3	1	3	-23	↓		
64	4	2	4	~~1232025-05~~	~~0.020~~	~~8.17.12~~	SED-CCB 9 (SWITCHED AT Split Bottle)
65	1	4	1	1232018-21	1.00		
* 66	2	6	2	1232025-05	0.020		
67	3	7	3	B121451-MS4	60.03		NATIVE: 1232026-05RE1 + 550 (550 μ l of 10ng/mL)
68	4	8	4	↓ -MSD4	59.43		↓
69	1	10	1	1232026-01	99.90		
70	2	11	2	↓ -02	99.43		
71	3	12	3	↓ -03	100.76		
72	4	1	4	↓ -04	99.60		
73	1	2	1	1232018-22RE1	64.45		
74	2	4	2	↓ -23RE1	57.78		
75	3	6	3	↓ -21RE1	60.64		
76	4	7	4	SED-CCV	0.050		10ng/mL
77	1	8	1	1232026-06	100.06		
78	2	10	2	↓ -07	99.67		
79	3	11	3	1232034-05	10.00		
80	4	12	4	1232033-02	0.500		
81	1	1	1	1232033-05	~~100.24~~	49.75	OVERCAL 5 > 24: will return
82	2	2	2	↓ -06	100.04		
83	3	4	3	↓ -09	10.00		
84	4	6	4	↓ -10	99.98		
85	1	7	1	SED-ICB1	99.57		IN HUNT BUBBLER w/ return.
86	2	8	2	1233015-01	99.06		
87	3	10	3	1233016-01	99.40		
91	4	11	4	SED-CCV	0.050		10ng/mL

Comments: * ~~ANALYST~~ ~~REMOVED~~ ~~MACHINE~~ NOW OFF SET 10,004 PMT 496.3
 * CCV WAS RUN ON HUNT BUBBLER.

Page 4 of 4

Date: 8.17.12

Comments: _____

Brooks Rand Labs

THg Water Prep Benchsheet
SOP / Rev #: BR-0006 Rev 004e

BRL Report 1232018

Prepped By: MLH

Batch: B121451

Prep Start Date/Time*: 7:30 8.15.12 BrCl ID: 123002

1st - 24 hr Check Date/Time: 8/17/12 20740

Prep End Date/Time**: 8:25 8.15.12

2nd - 24 hr Check Date/Time:

* Time when the first reagents are added.

** Time when the last sample is brought up to volume.

Sample ID	Sample Aliquot (mL)	BrCl added (mL)	%BrCl	24 hr Check (initials)	only fill out if additional BrCl is added		
					Additional BrCl Added (mL)	2nd - 24 hr Check (initials)	Adjusted %BrCl
1232018-17	125	2.5	2	BJT			
1232018-18	50	0.5	1				
1232018-19	↓	↓	↓				
1232018-20	75	0.75	↓				
1232018-21	↓	↓	↓				
1232018-22	↓	↓	↓				
1232018-23	50	0.5	↓				
1232018-24	125	1.25	↓				
1232024-01	250	2.5	↓				
1232025-04	250	12.5	5				
1232025-05	↓	↓	↓				
1232026-01	250	↓	5				
1232026-02	↓	2.5	1				
1232026-03	↓	5	2				
1232026-04	↓	↓	↓				
1232026-05	↓	↓	2				
1232026-06	↓	2.5	1				
1232026-07	↓	↓	↓				
1232033-01	250		1				
1232033-02	↓	↓	↓				
1232033-03	↓	↓	↓				
1232033-04	↓	↓	↓				
1232033-05	↓	5	2				
1232033-06	↓	↓	↓				
1232033-07	225	2.25	1				
1232033-08	250	2.5	↓				
1232033-09	↓	↓	↓				
1232033-10	↓	↓	↓				
1232033-11	225	2.25	↓				
1232033-12	250	2.5	↓				
1232034-01	↓	5	2				
1232034-02	↓	2.5	1				
1232034-03	↓	↓	↓				
1232034-04	↓	↓	1				
1232034-05	↓	5	2				
1232034-06	↓	2.5	1				
B121451-BLK1	250	↓	↓				
B121451-BLK2	↓	↓	↓				
B121451-BLK3	↓	↓	↓				
B121451-BLK4	↓	↓	↓				
~~MLH 8.15.12~~							

Date/Time in: 8.15.12 / 1017
Date/Time out: 8.15.12 / 1417

Thermometer ID: PL-12
Oven Temp (measured / corrected): 66 / 66
Oven Temp (measured / corrected): /

NOTES:

timer

Rev. 05/07/12

THg Water Prep Benchsheet
SOP / Rev #: BR-0006 Rev 004e

Prepped By: BST

Batch: B121451

Prep Start Date/Time*: 8/17/2007 BrCl ID: 1230052

1st - 24 hr Check Date/Time: 13:20 8.17.12

Prep End Date/Time**8/17/12@ 0740

2nd - 24 hr Check Date/Time: _____

* Time when the first reagents are added.

**** Time when the last sample is brought up to volume.**

8/20/12
BT

Date/Time in: 8:18:12/0920
 Date/Time out: 8:16:13/13:20

Thermometer ID: PL-12

Oven Temp (measured / corrected): 64 / 64

Oven Temp (measured / corrected): 65 / 65

NOTES: 4.17.17

Rev. 05/07/12

Peak Report

Batch Number: B121451

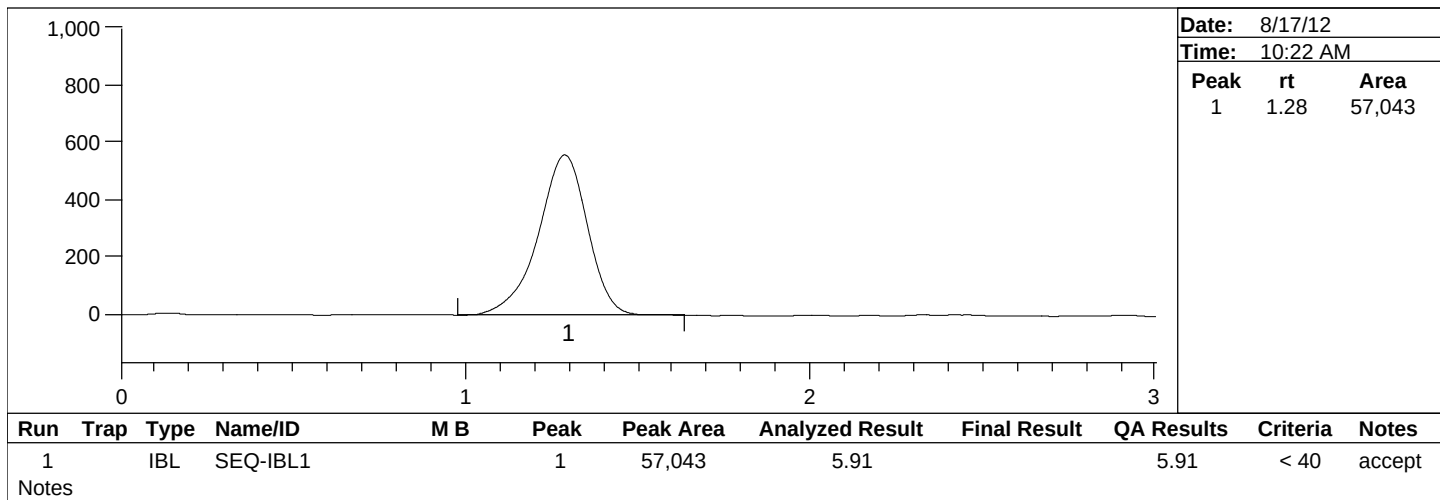
Method Number: CVAFS BR-0006

Project Number(s): 1200642

Instrument ID: THG-05

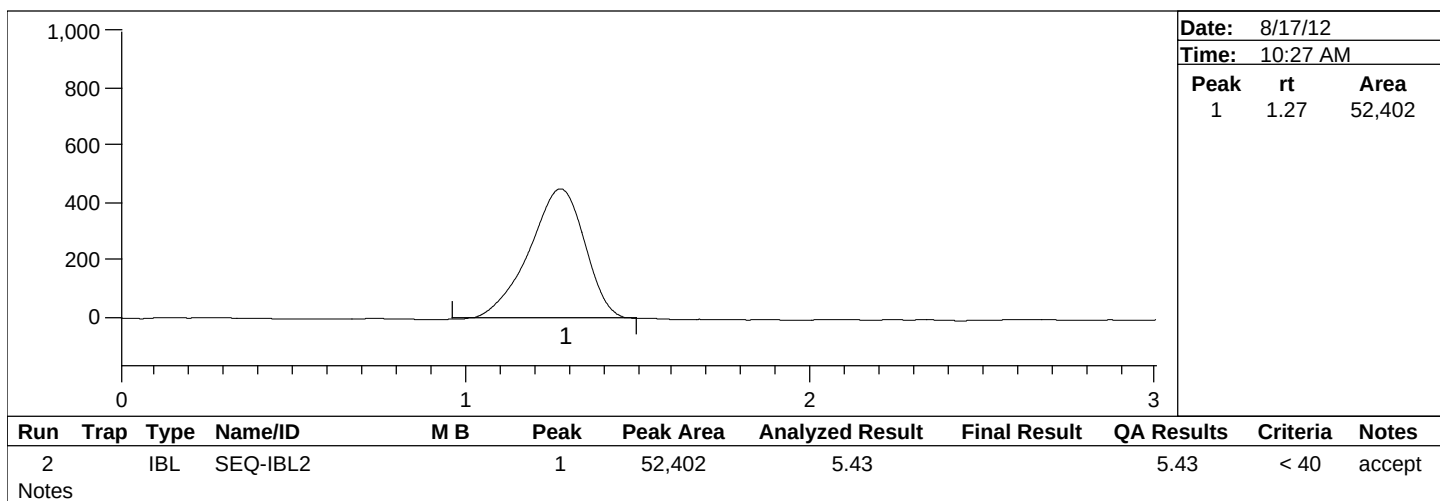
Date Analyzed: 8/17/12

Analyst Name: MLH



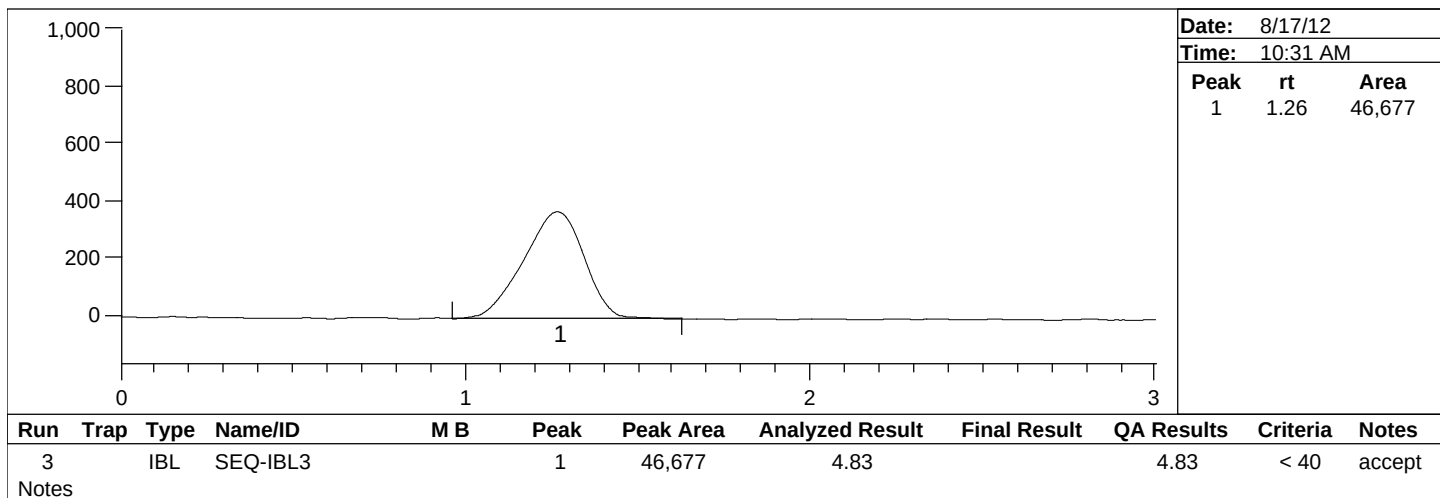
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Time: 10:22 AM

Peak	rt	Area
1	1.28	57,043



Date: 8/17/12
Time: 10:27 AM

Peak	rt	Area
1	1.27	52,402



Date: 8/17/12
Time: 10:31 AM

Peak	rt	Area
1	1.26	46,677

Peak Report

Batch Number: B121451

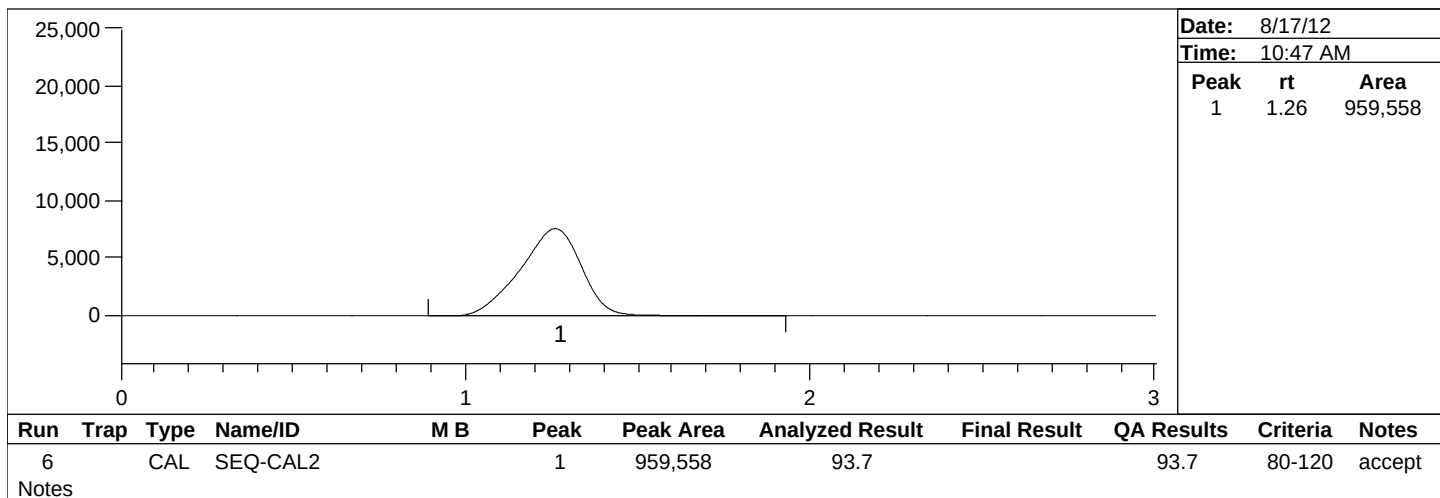
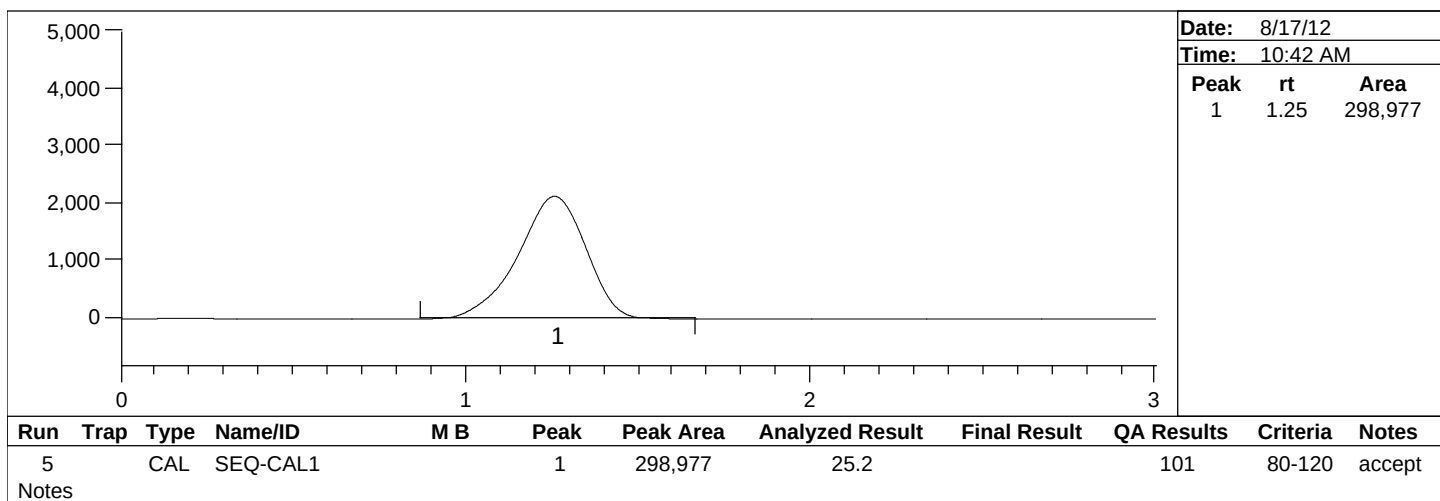
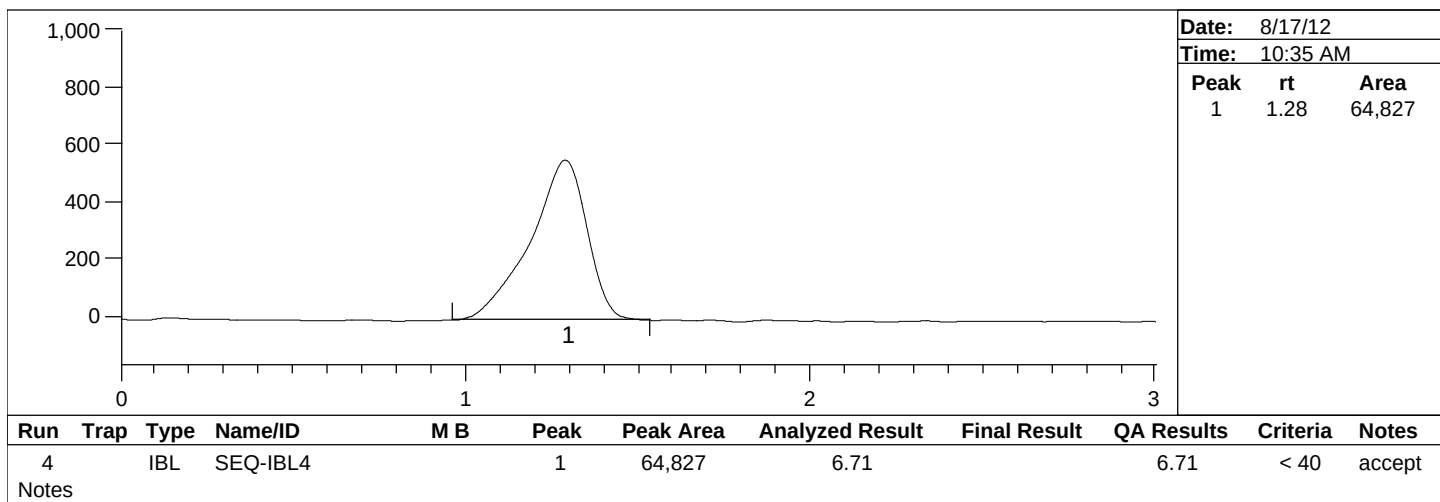
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Project Number(s): 1200642

Instrument ID: THG-05

Date Analyzed: 8/17/12

Analyst Name: MLH



Peak Report

Batch Number: B121451

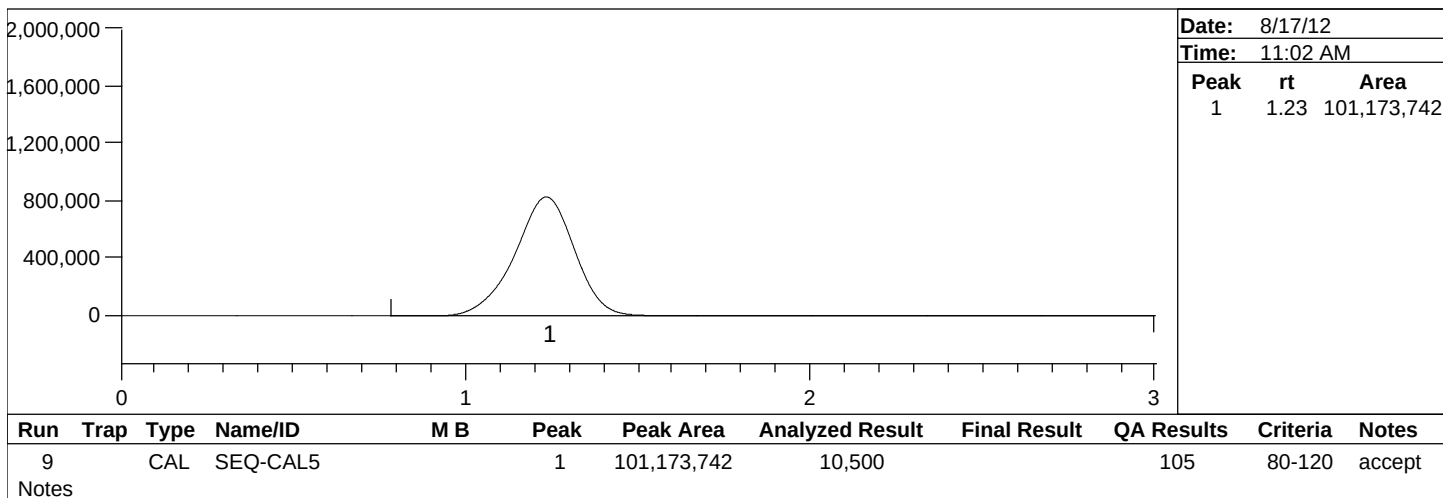
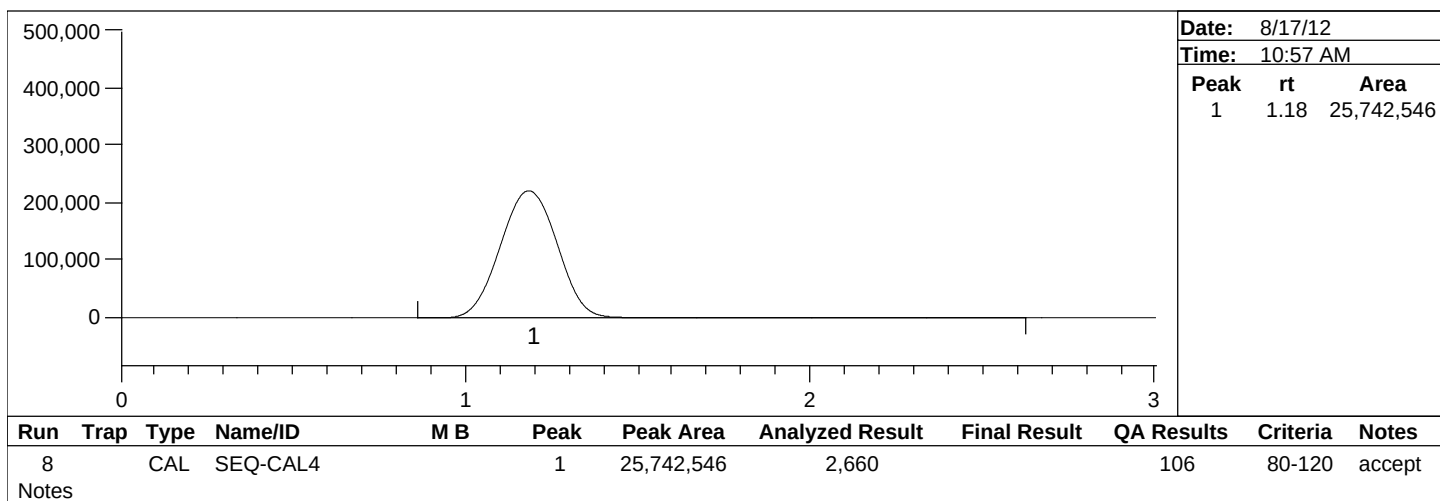
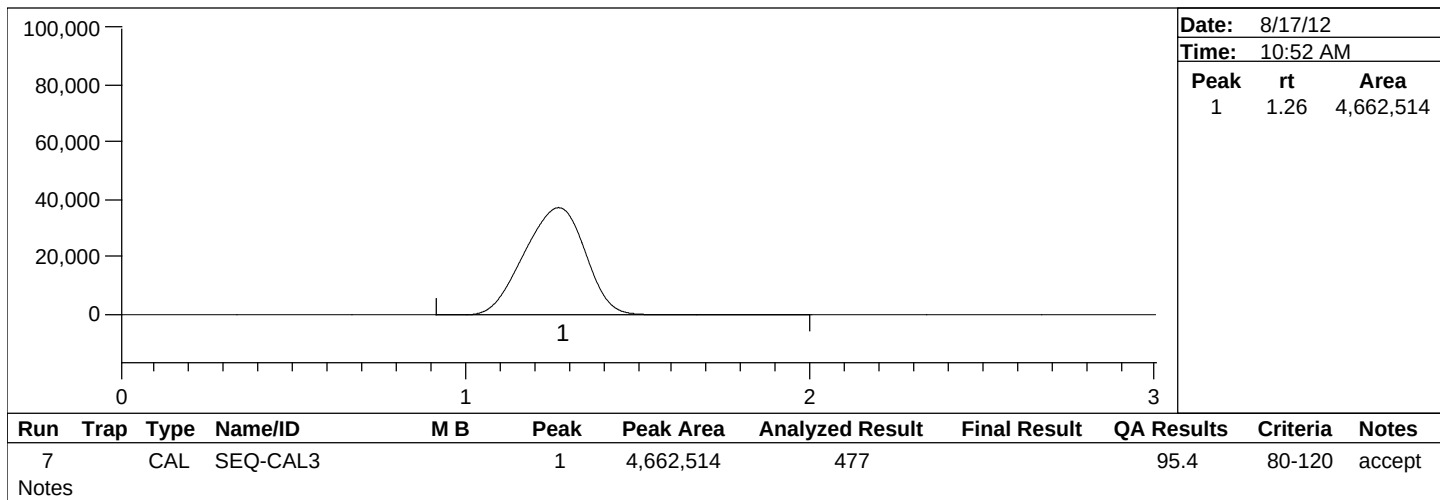
Method Number: CVAFS BR-0006

Project Number(s): 1200642

Instrument ID: THG-05

Date Analyzed: 8/17/12

Analyst Name: MLH



Peak Report

Batch Number: B121451

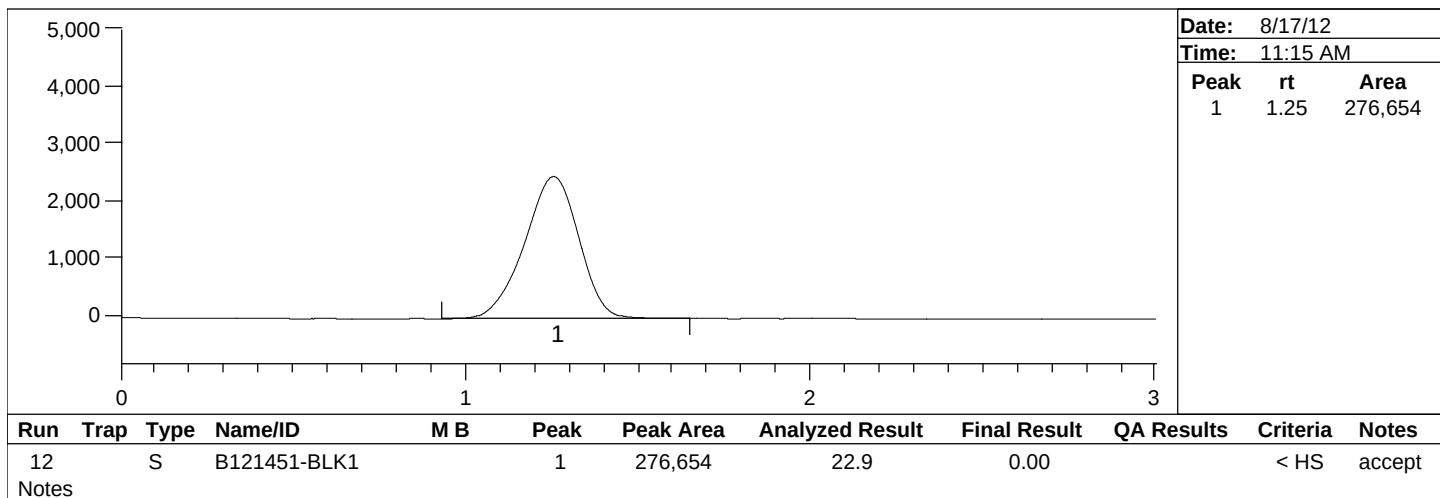
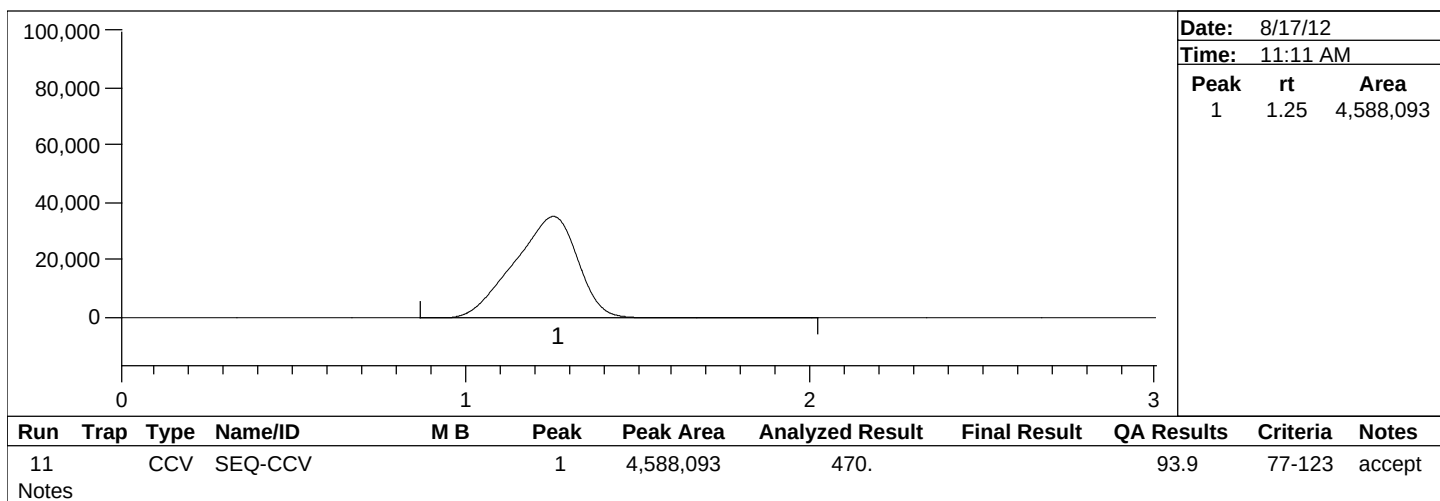
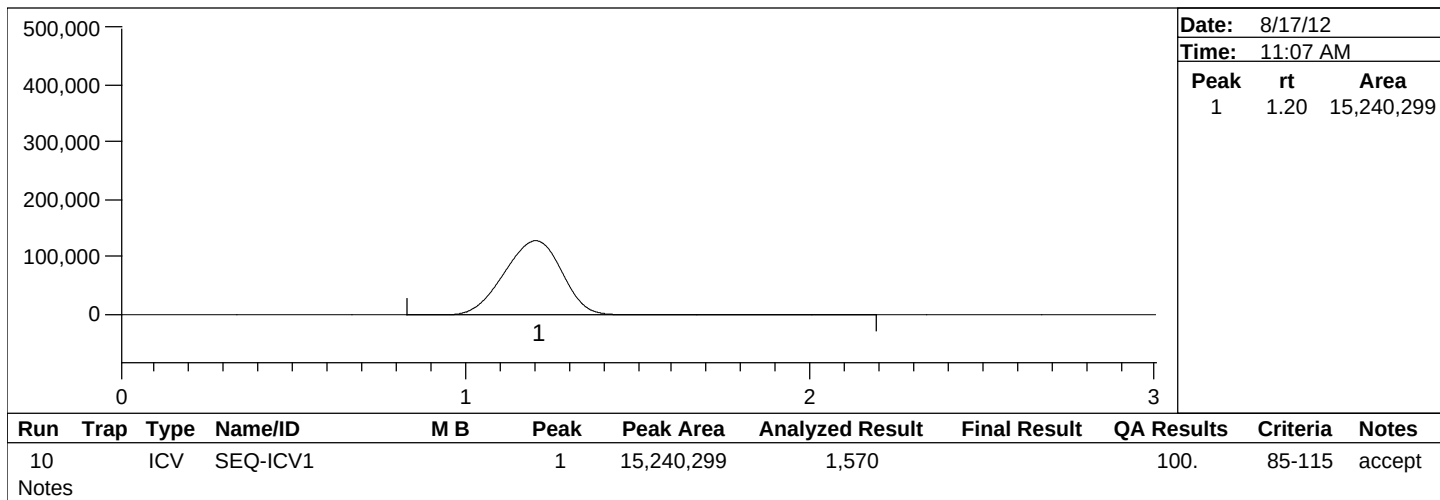
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Project Number(s): 1200642

Instrument ID: THG-05

Date Analyzed: 8/17/12

Analyst Name: MLH



Peak Report

Batch Number: B121451

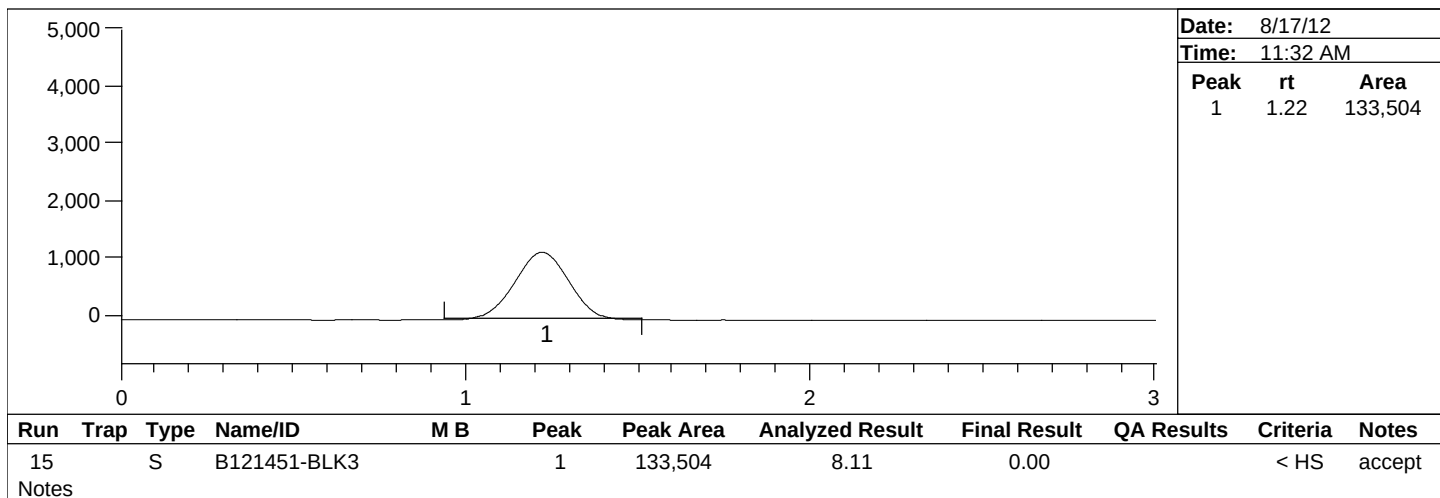
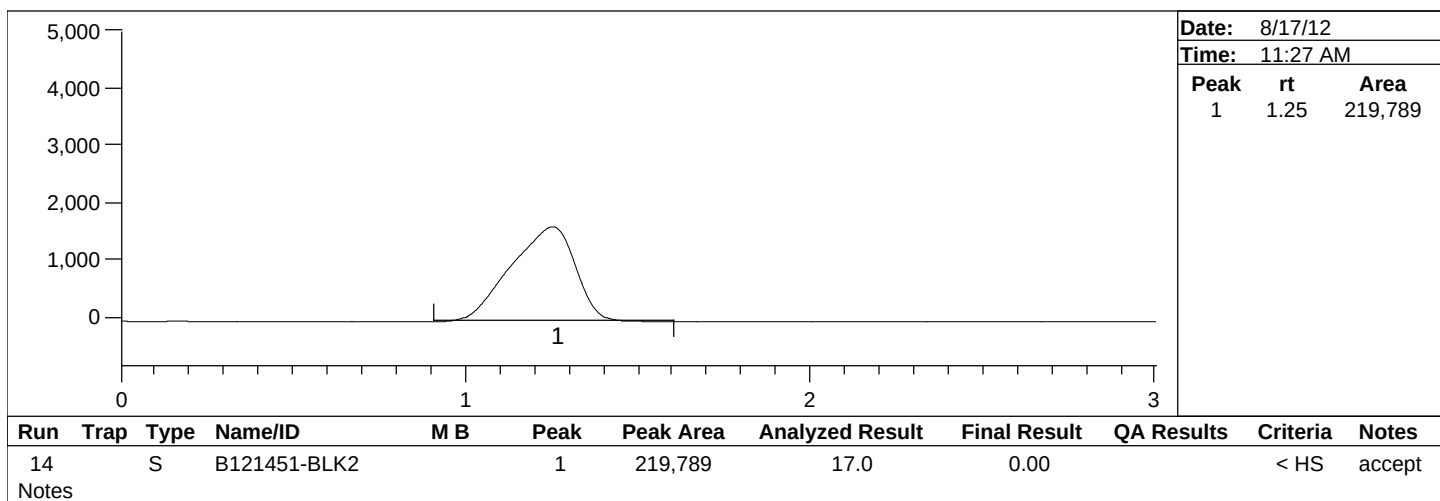
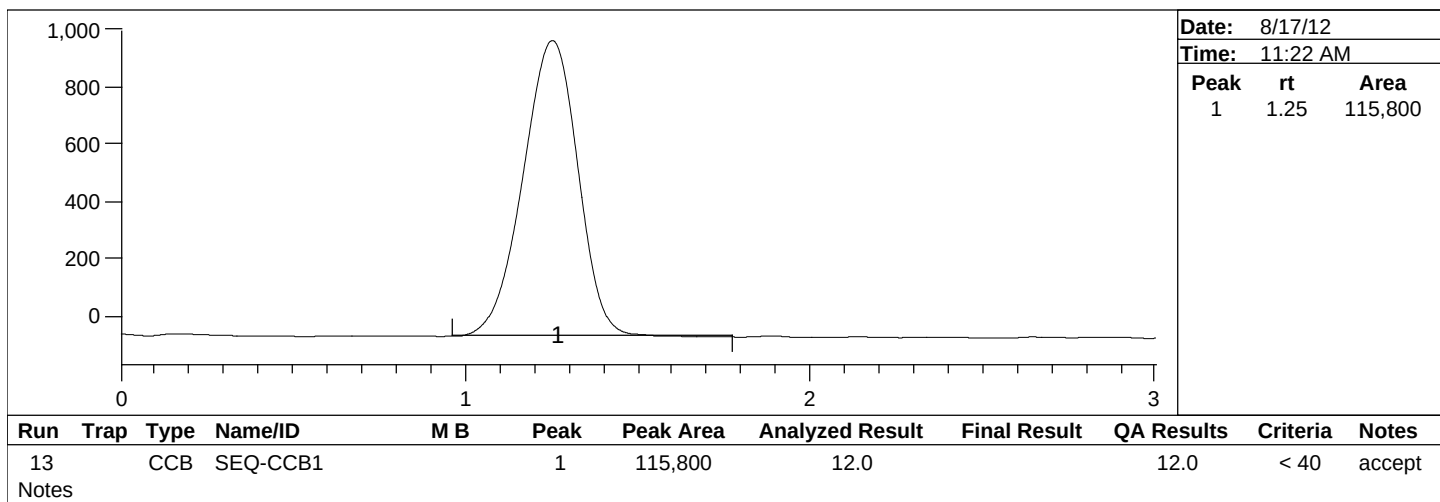
Method Number: CVAFS BR-0006

Project Number(s): 1200642

Instrument ID: THG-05

Date Analyzed: 8/17/12

Analyst Name: MLH



Peak Report

Batch Number: B121451

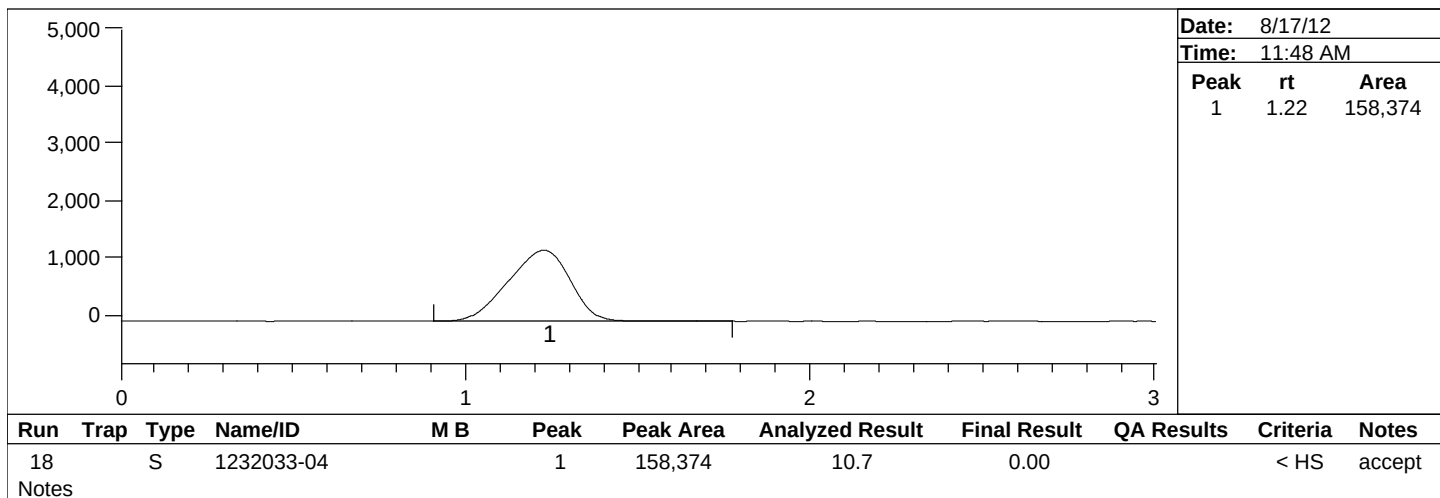
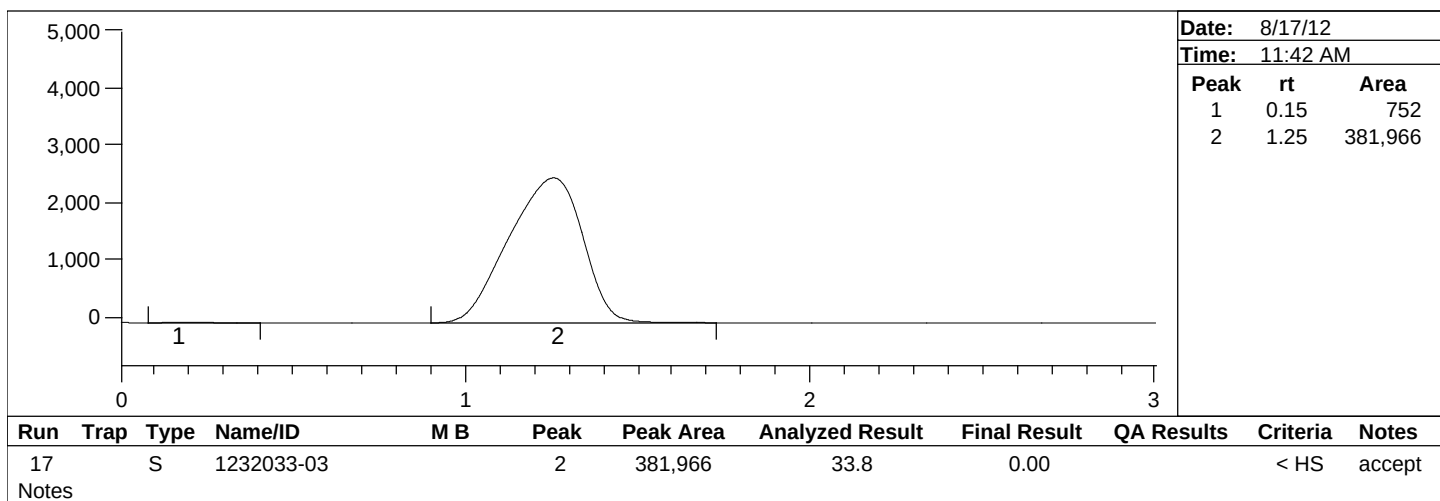
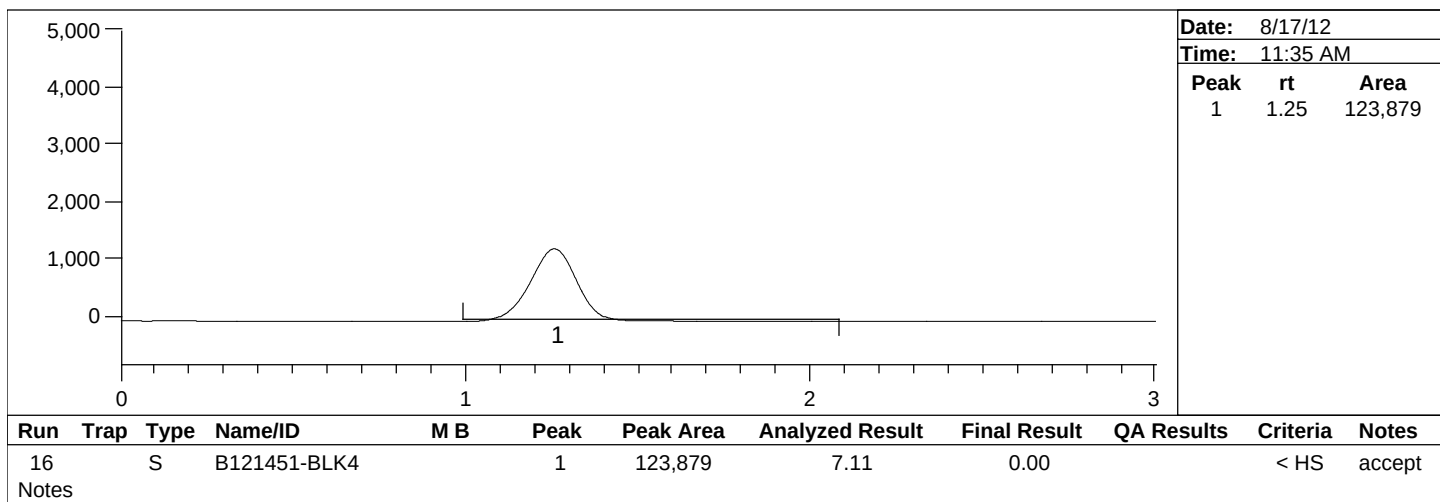
Method Number: CVAFS BR-0006

Project Number(s): 1200642

Instrument ID: THG-05

Date Analyzed: 8/17/12

Analyst Name: MLH



Peak Report

Batch Number: B121451

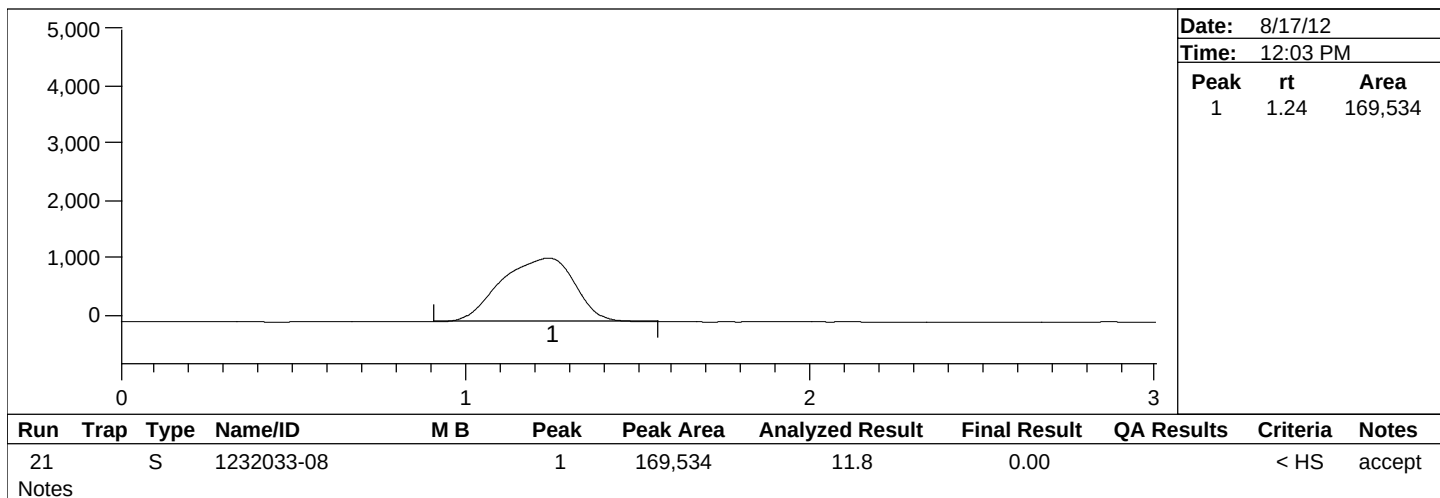
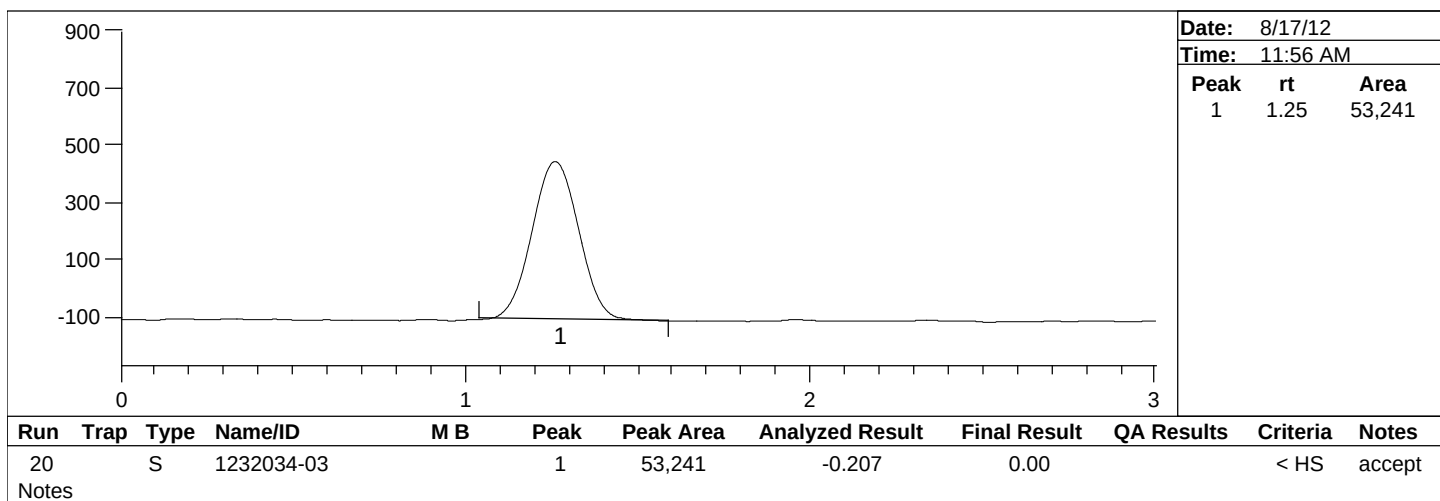
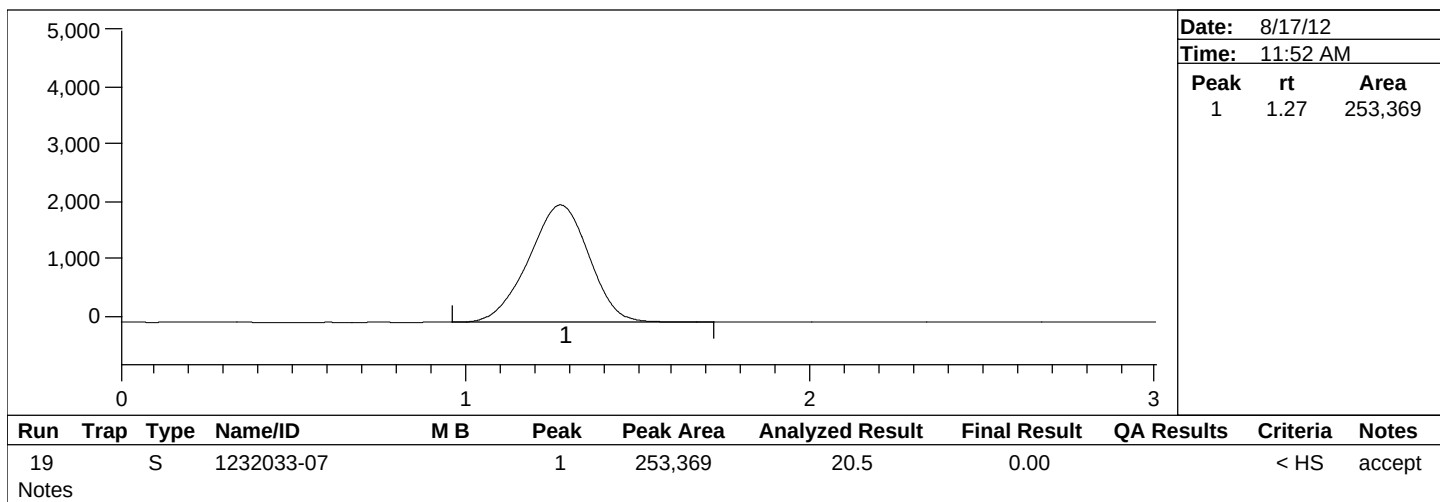
Method Number: CVAFS BR-0006

Project Number(s): 1200642

Instrument ID: THG-05

Date Analyzed: 8/17/12

Analyst Name: MLH



Peak Report

Batch Number: B121451

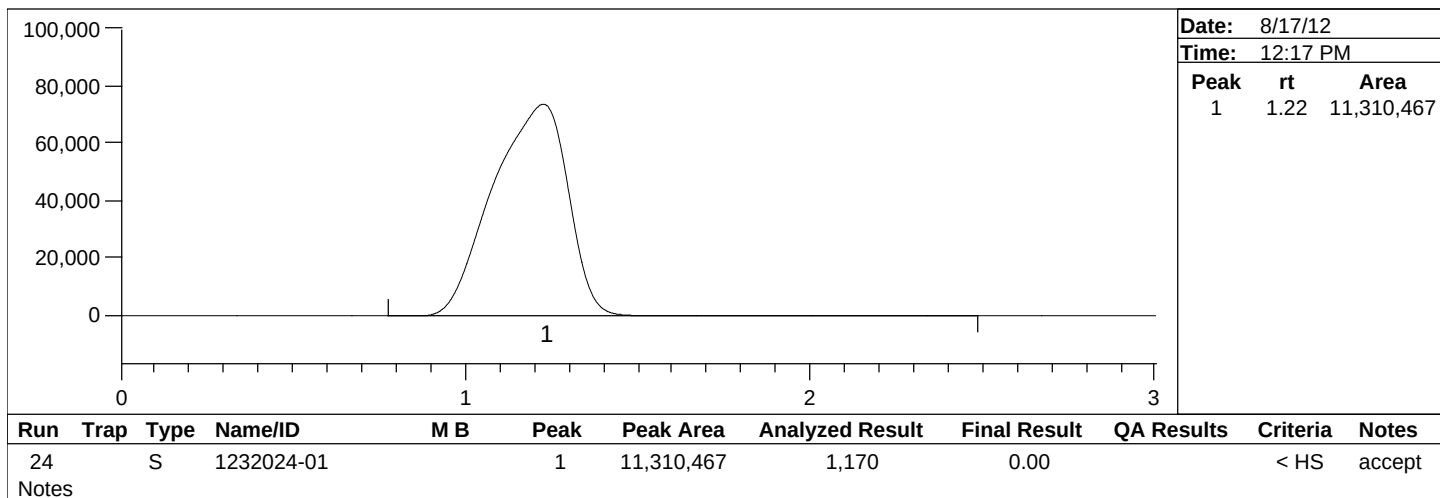
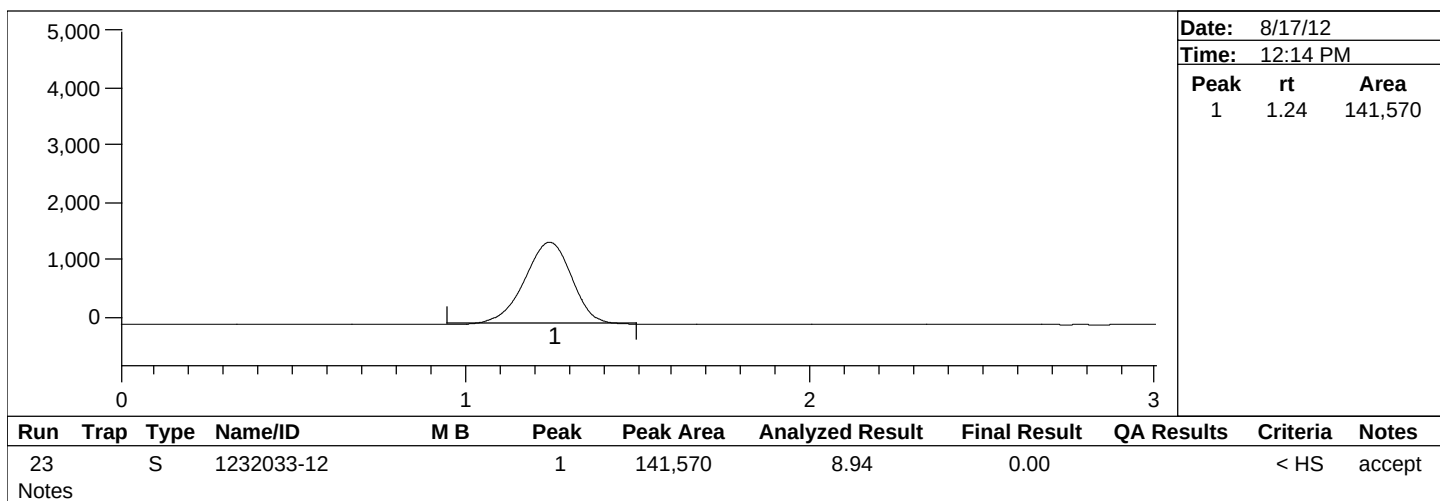
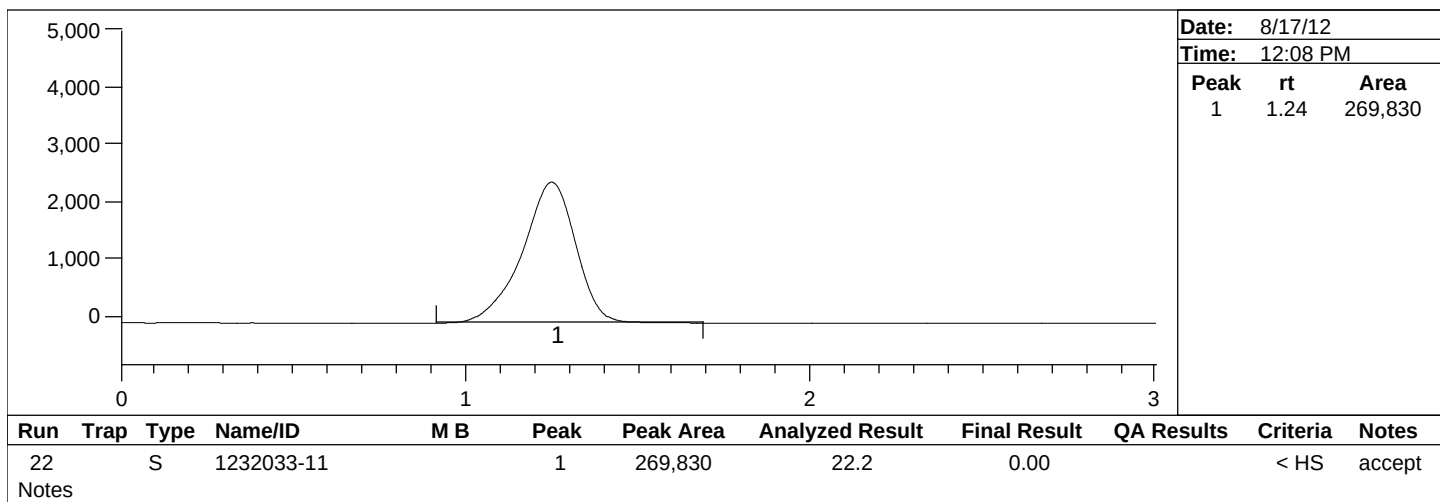
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Project Number(s): 1200642

Instrument ID: THG-05

Date Analyzed: 8/17/12

Analyst Name: MLH



Peak Report

Batch Number: B121451

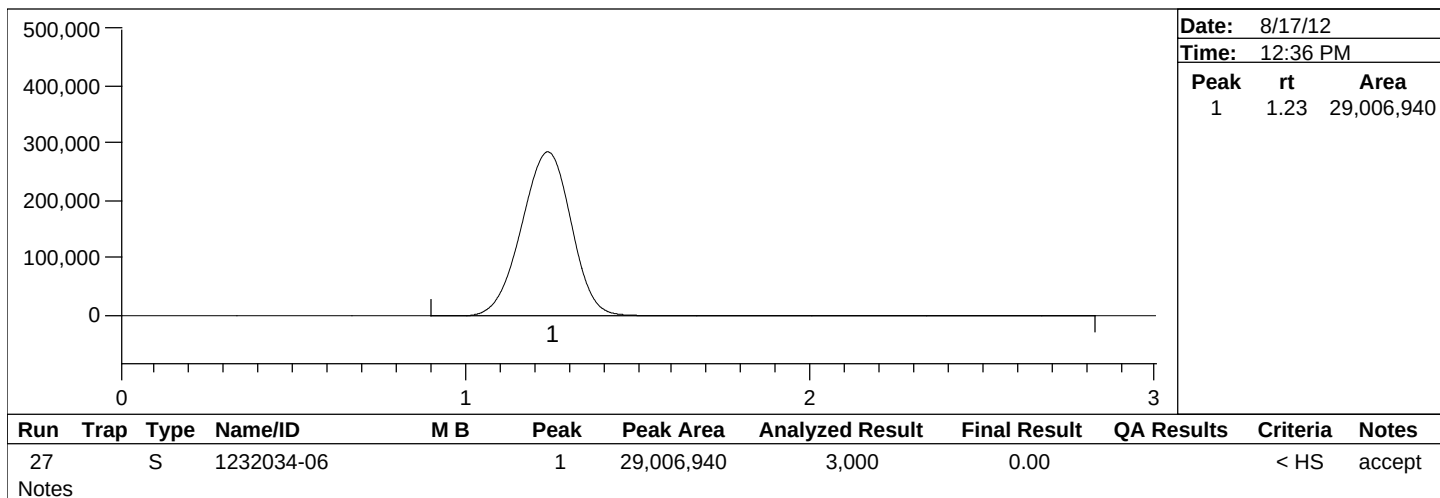
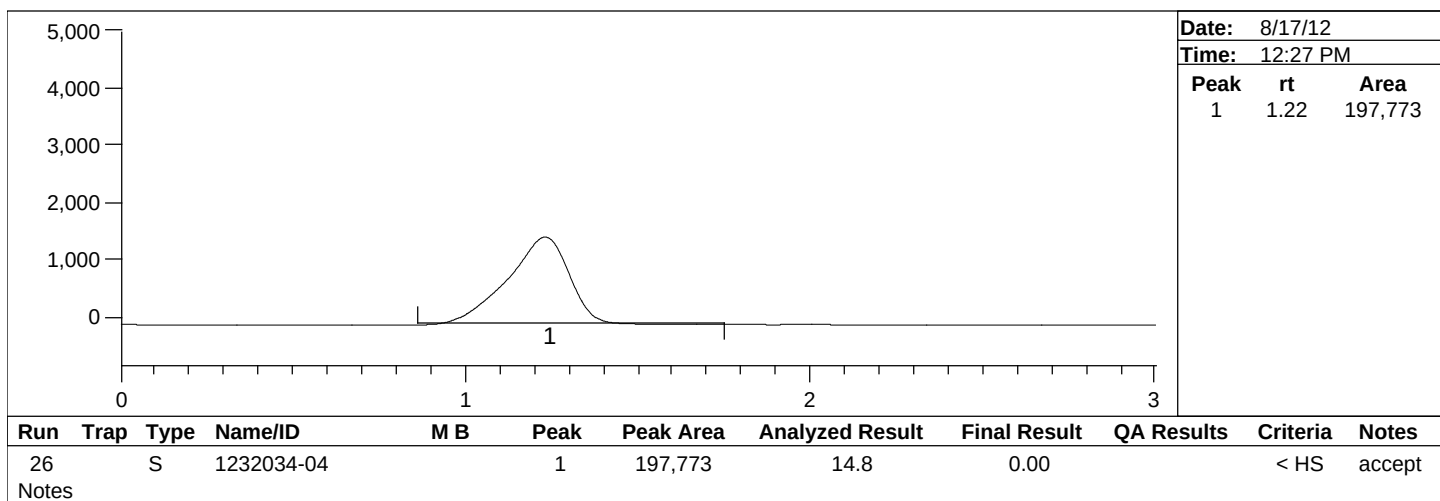
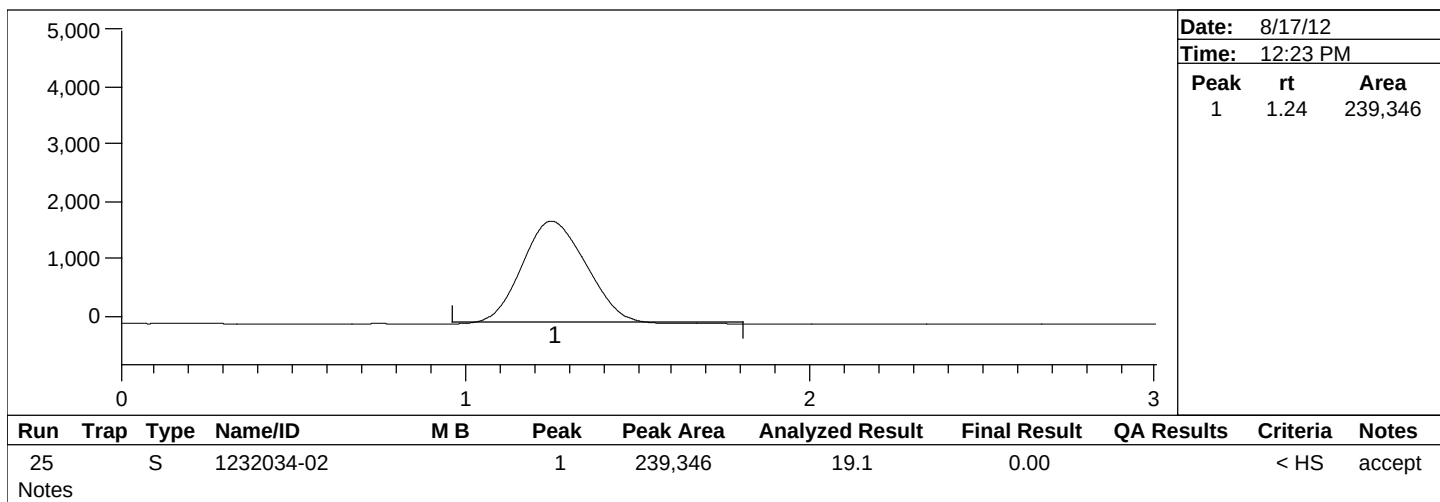
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Project Number(s): 1200642

Instrument ID: THG-05

Date Analyzed: 8/17/12

Analyst Name: MLH



Peak Report

Batch Number: B121451

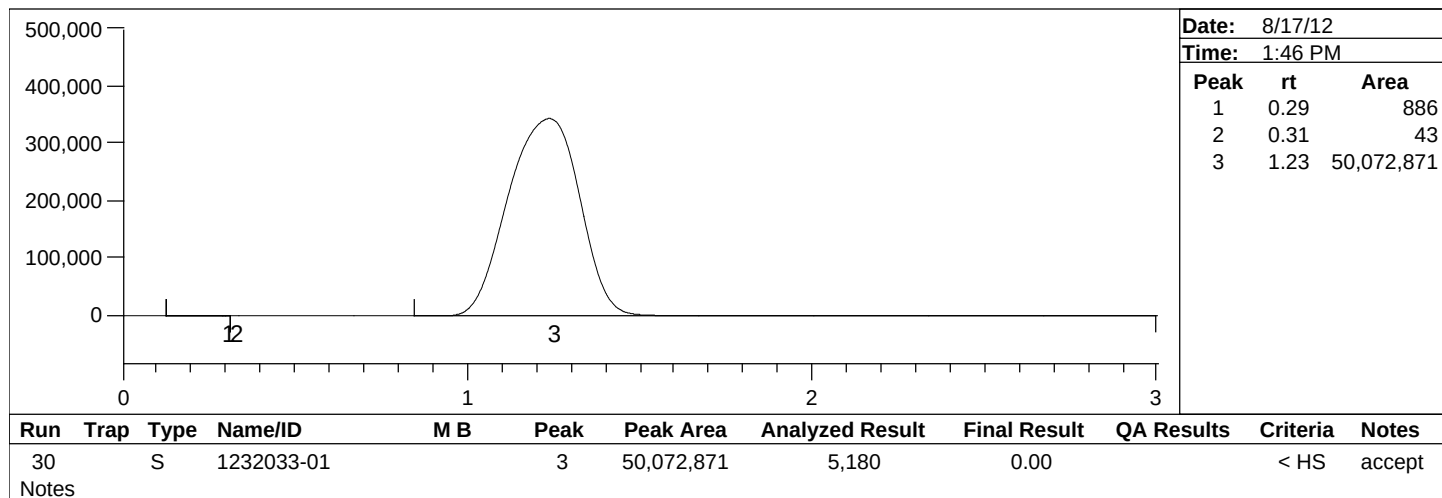
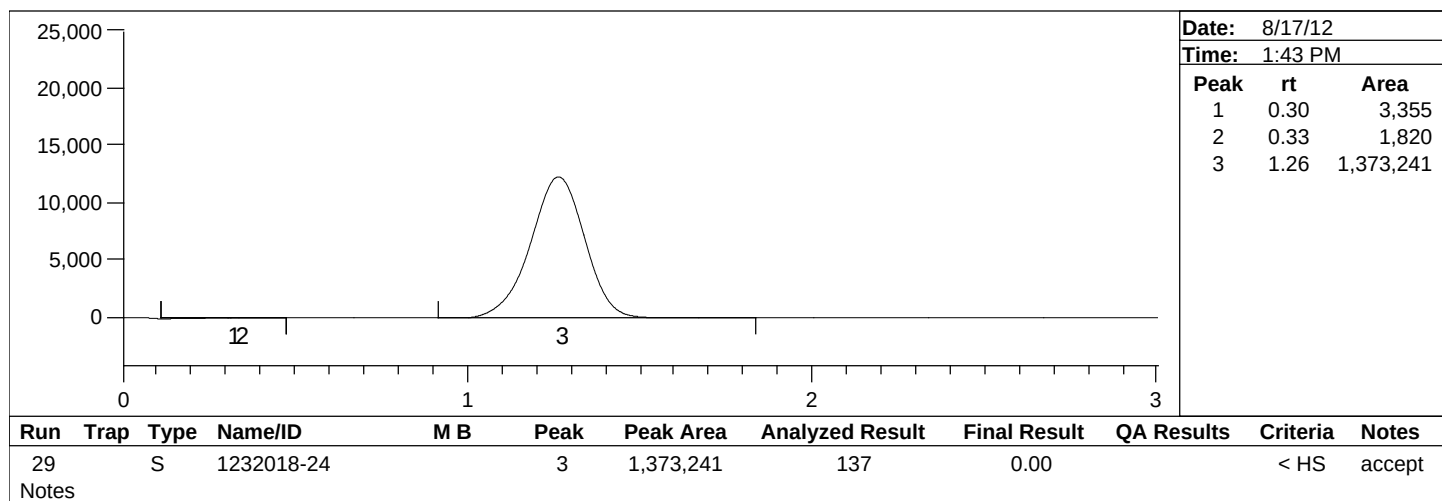
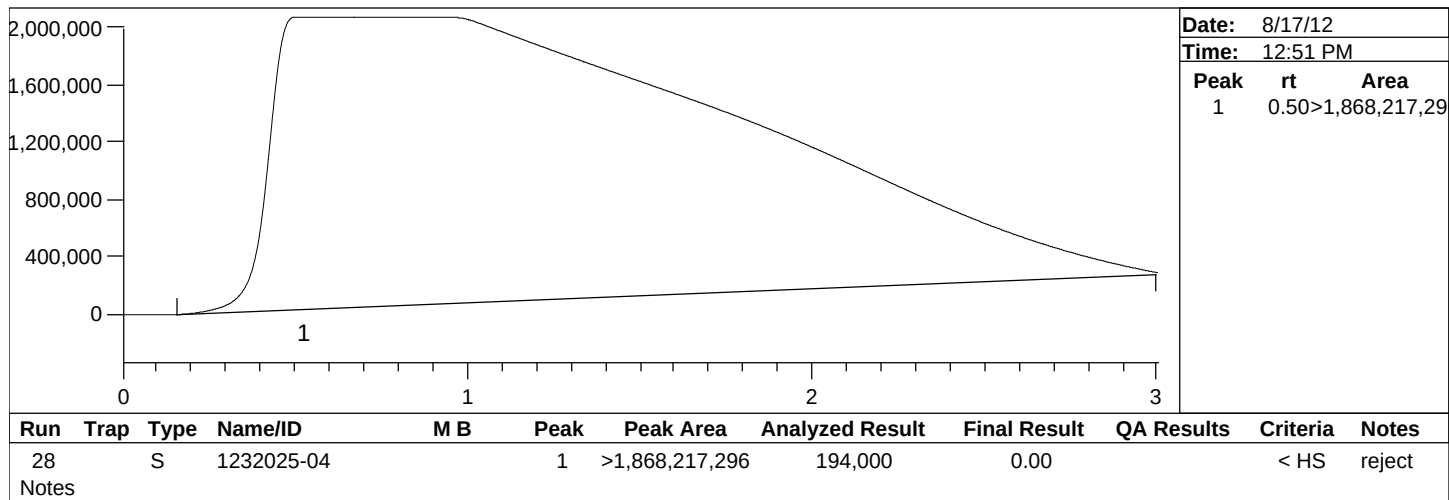
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Project Number(s): 1200642

Instrument ID: THG-05

Date Analyzed: 8/17/12

Analyst Name: MLH



Peak Report

Batch Number: B121451

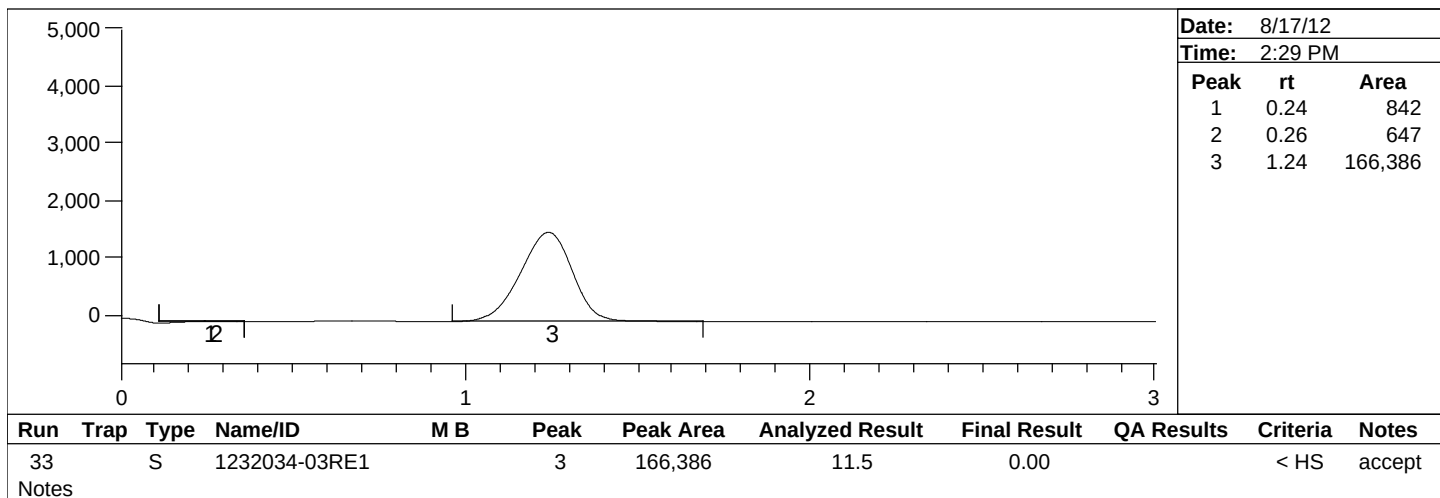
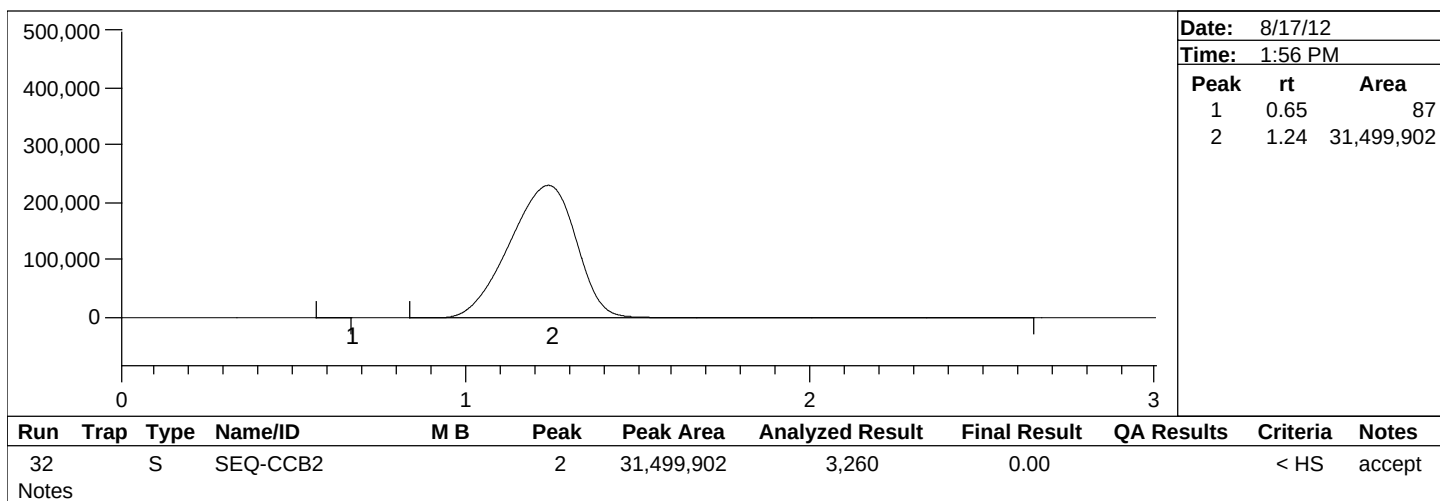
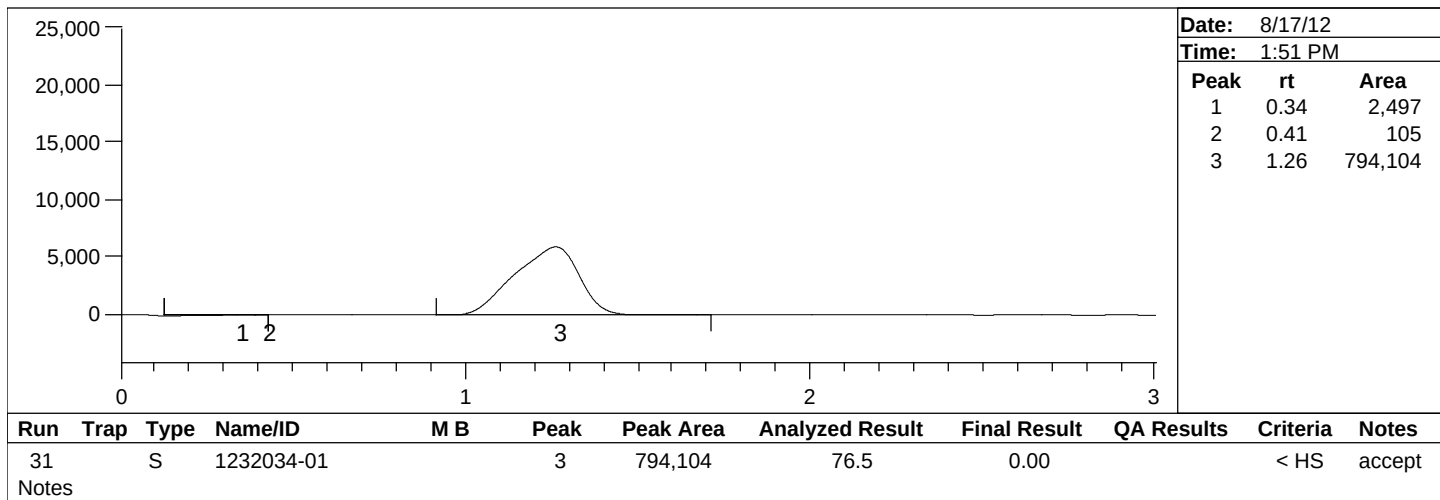
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Project Number(s): 1200642

Instrument ID: THG-05

Date Analyzed: 8/17/12

Analyst Name: MLH



Peak Report

Batch Number: B121451

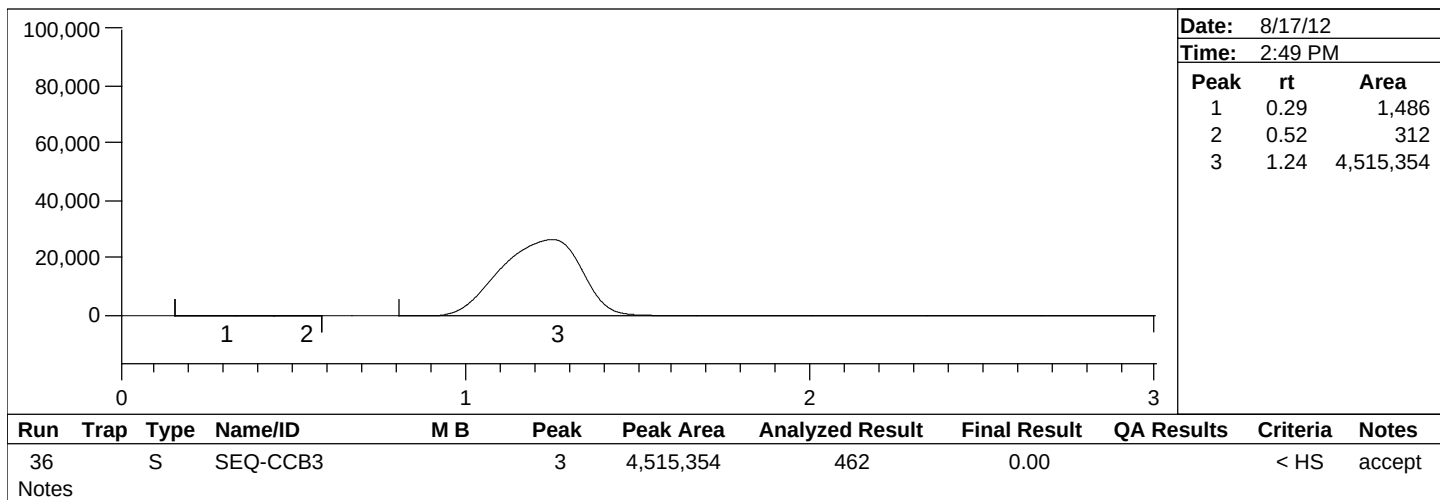
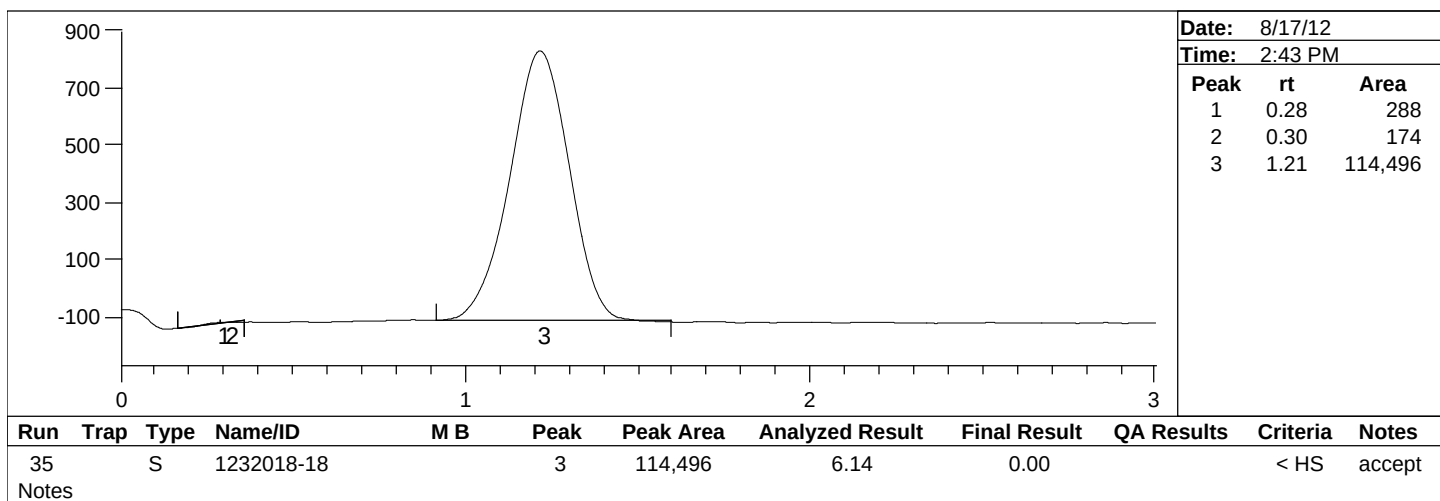
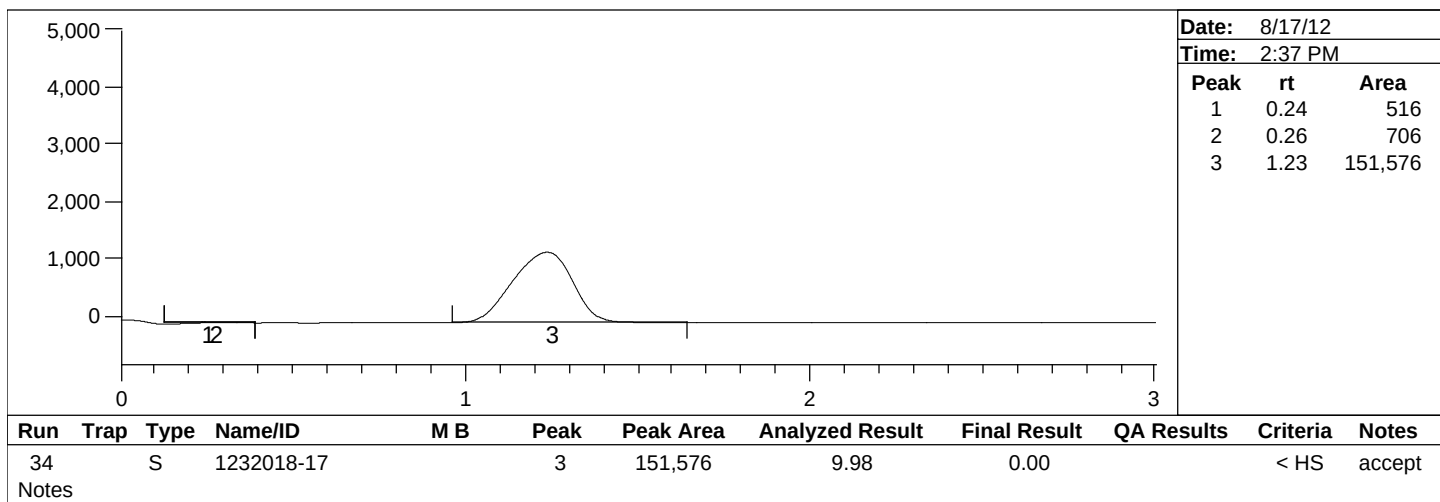
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Project Number(s): 1200642

Instrument ID: THG-05

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Analyst Name: MLH



Peak Report

Batch Number: B121451

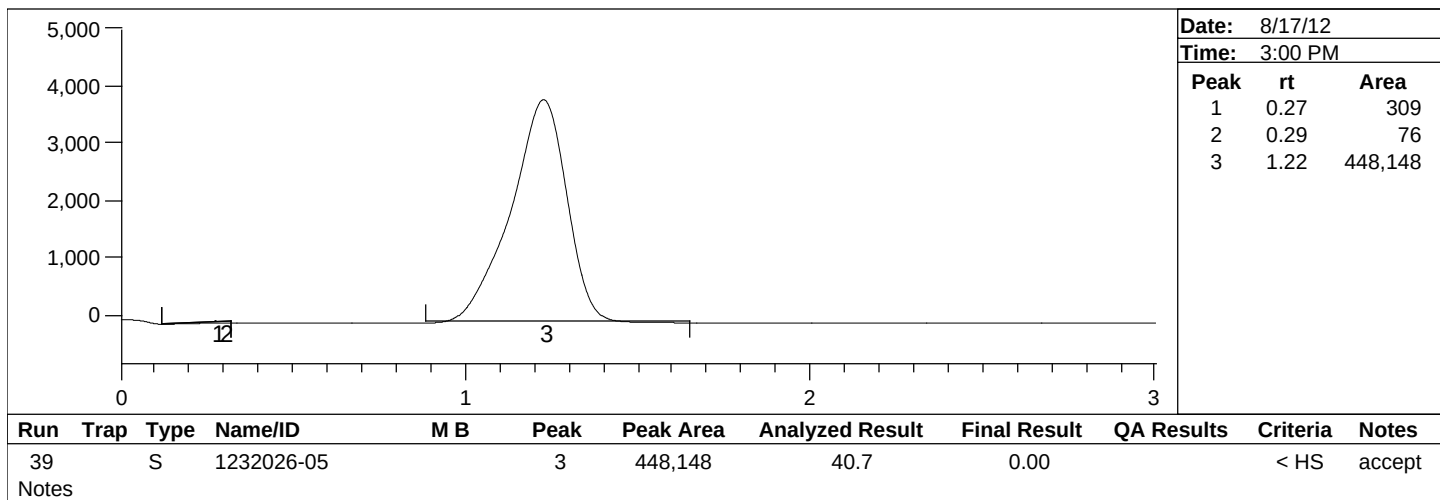
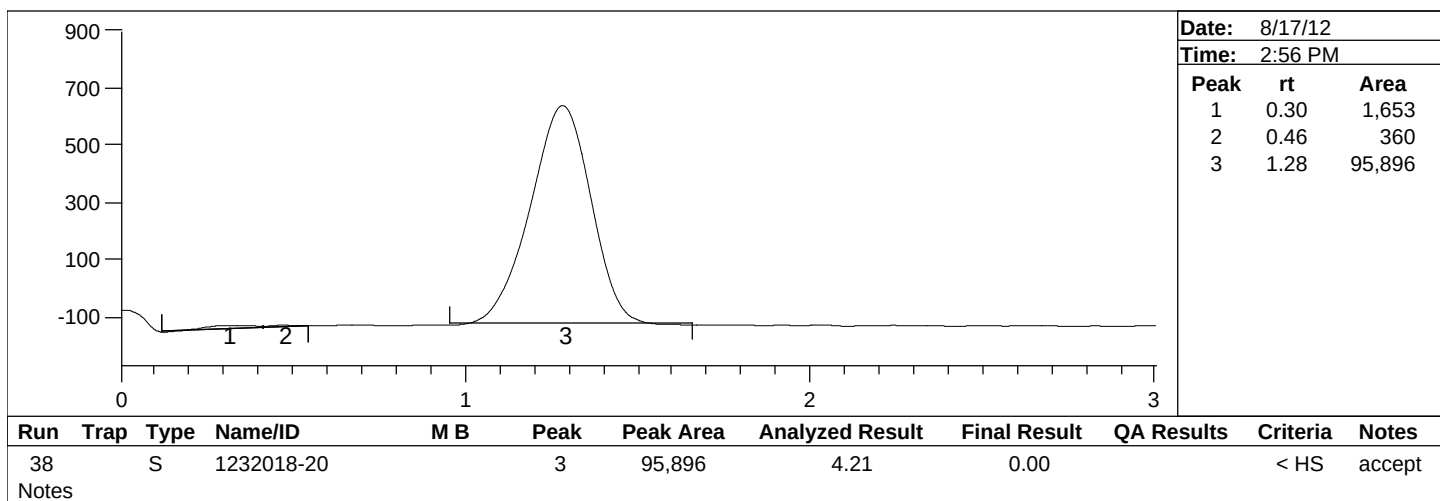
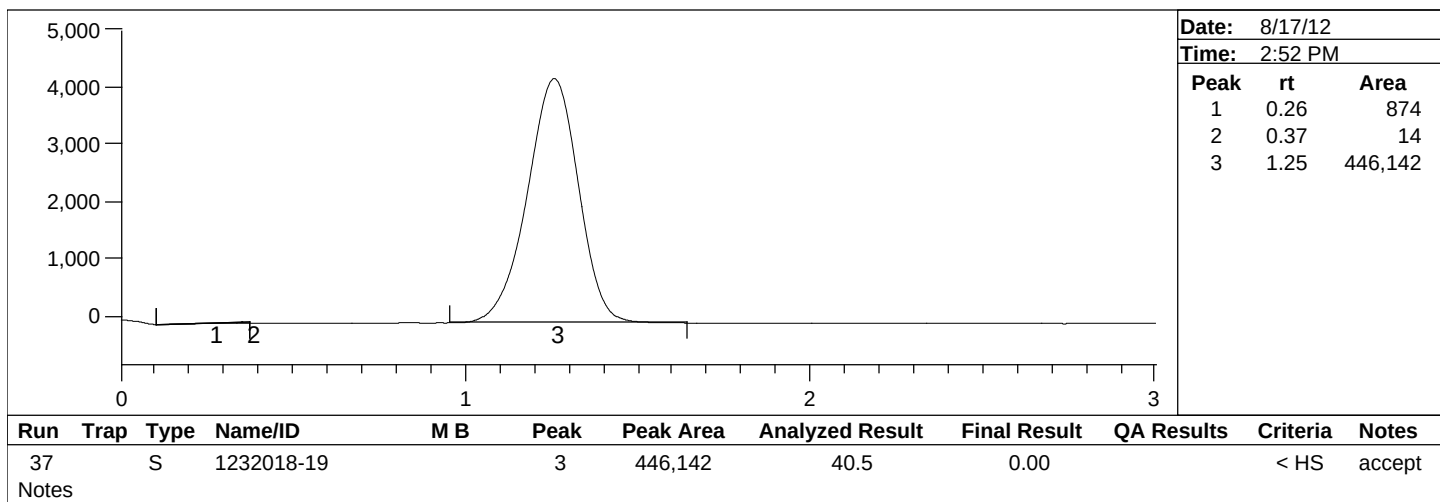
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Project Number(s): 1200642

Instrument ID: THG-05

Date Analyzed: 8/17/12

Analyst Name: MLH



Peak Report

Batch Number: B121451

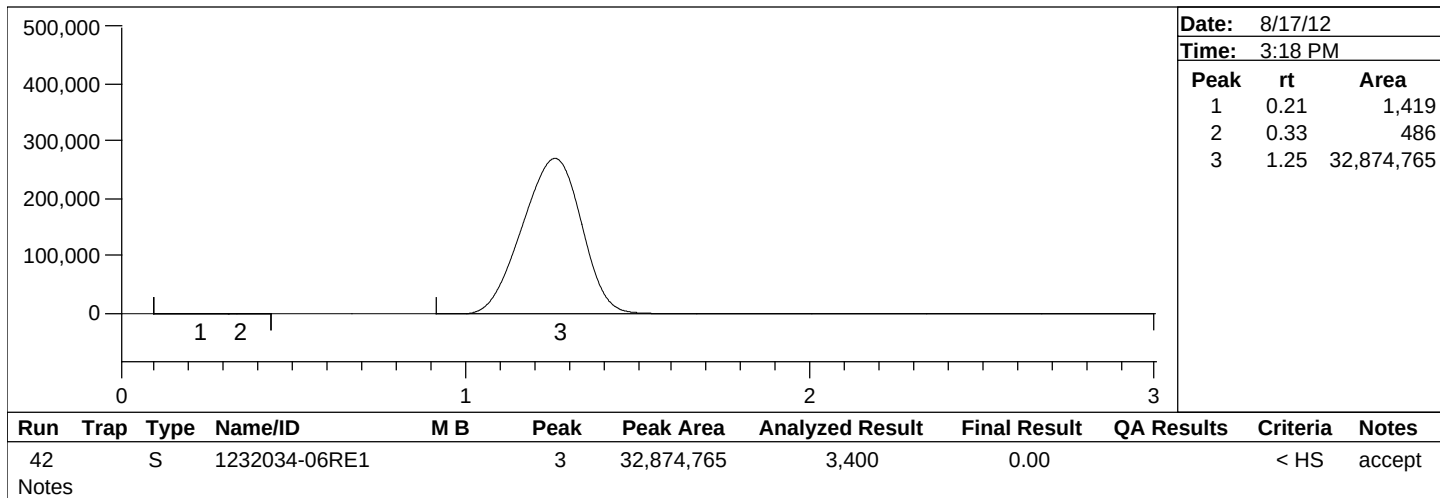
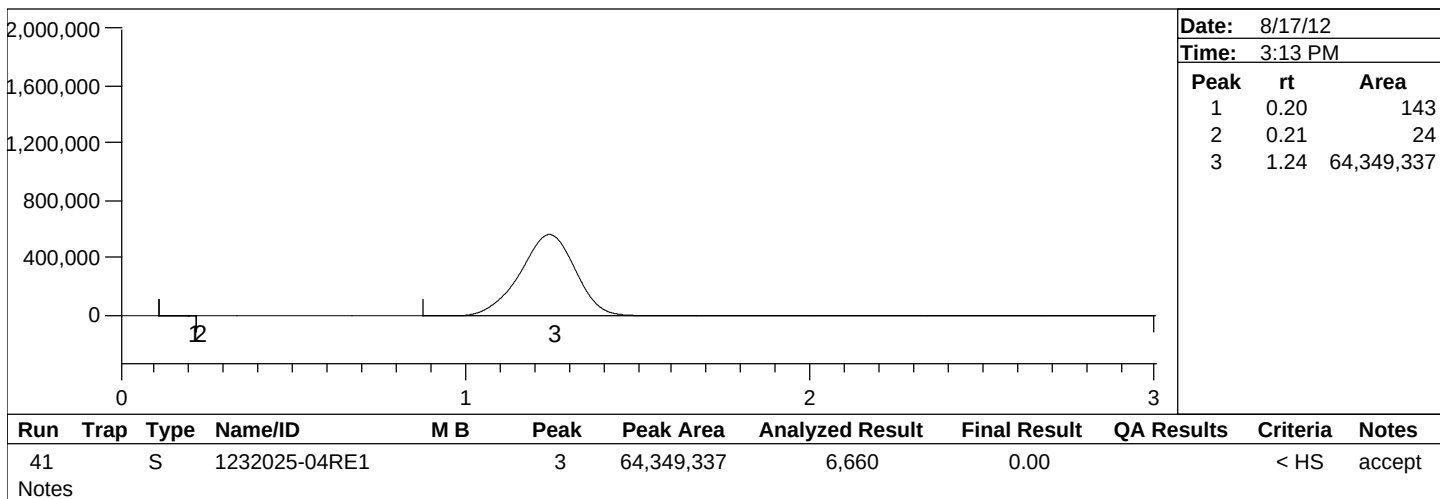
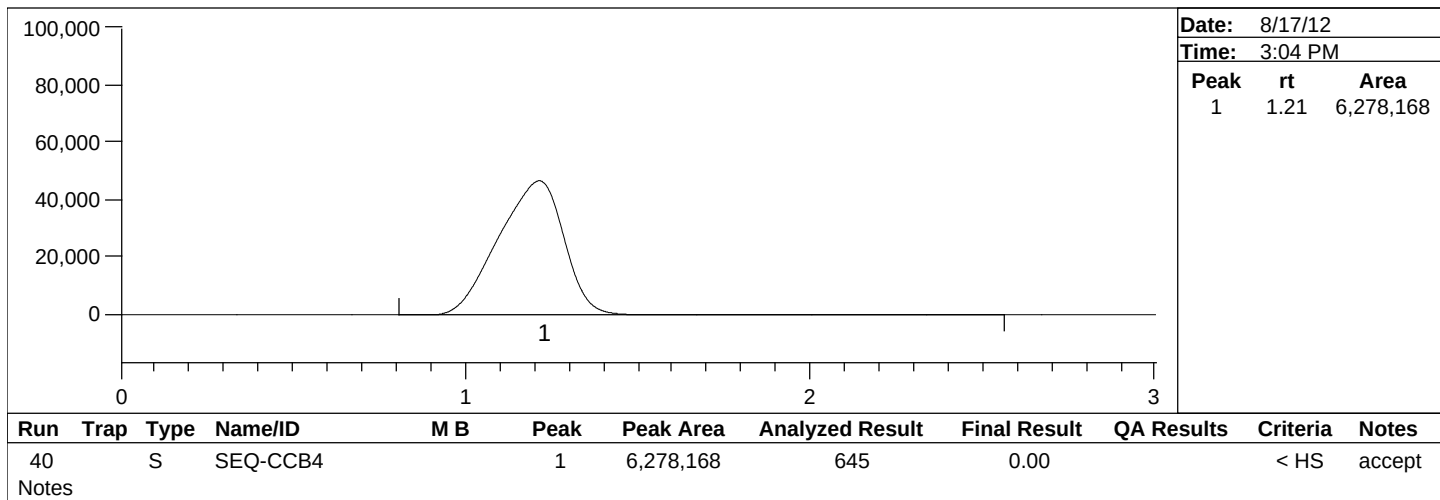
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Date Analyzed: 8/17/12

Analyst Name: MLH



Peak Report

Batch Number: B121451

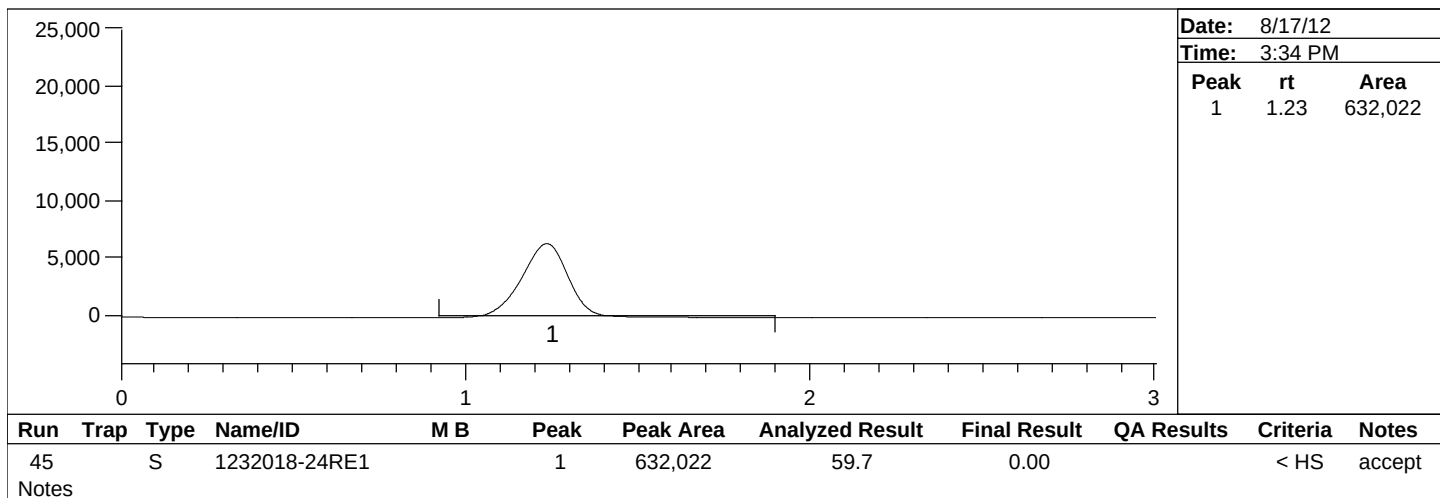
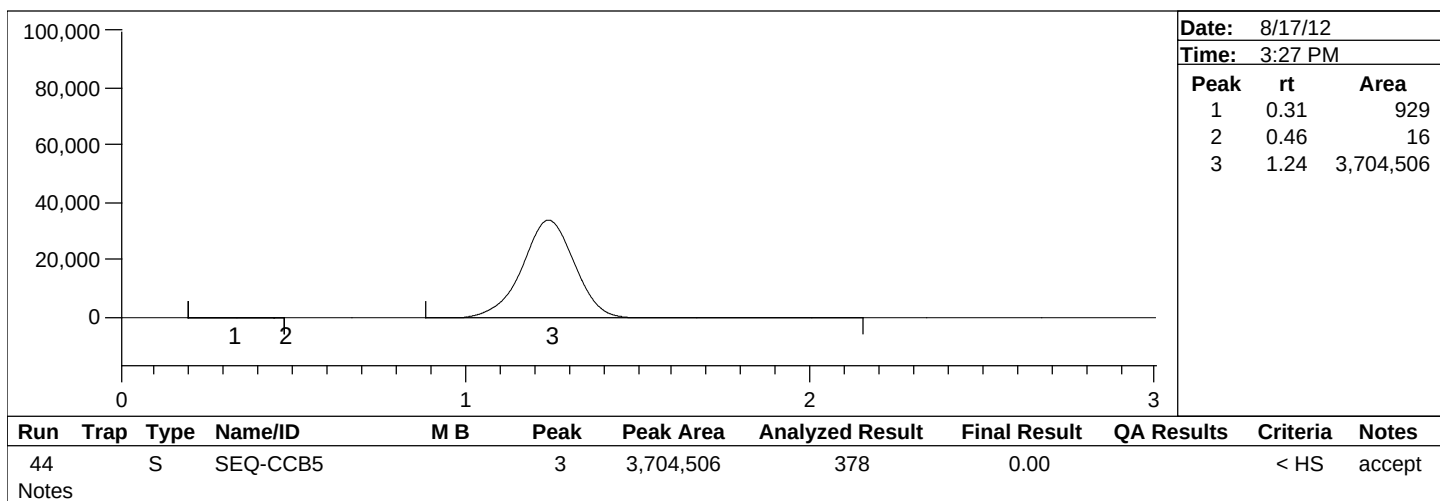
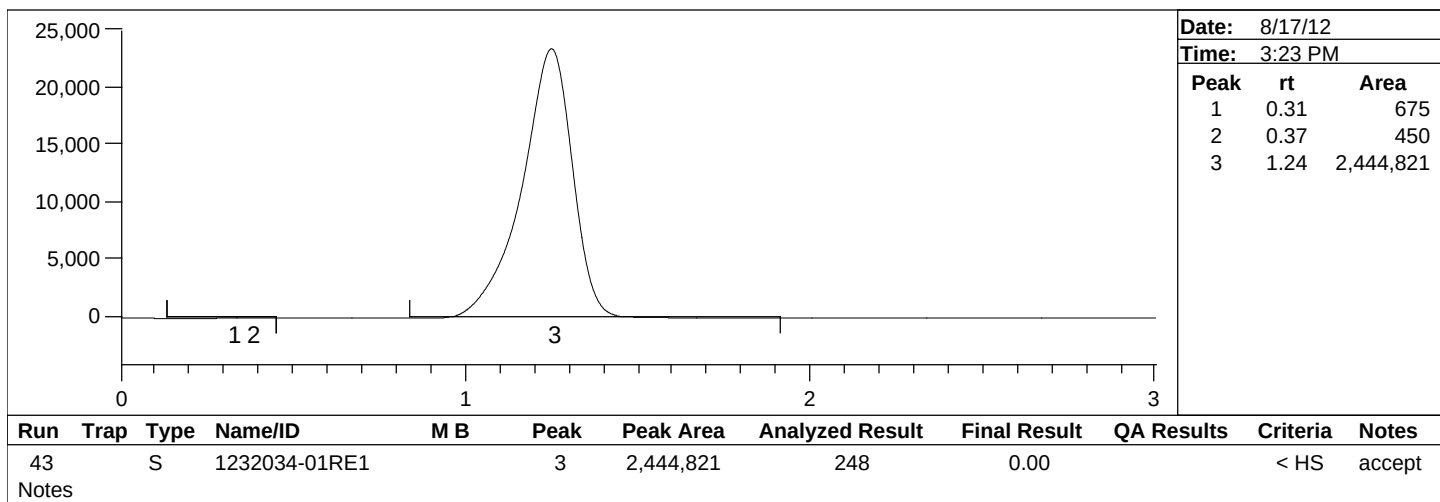
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Project Number(s): 1200642

Instrument ID: THG-05

Date Analyzed: 8/17/12

Analyst Name: MLH



Peak Report

Batch Number: B121451

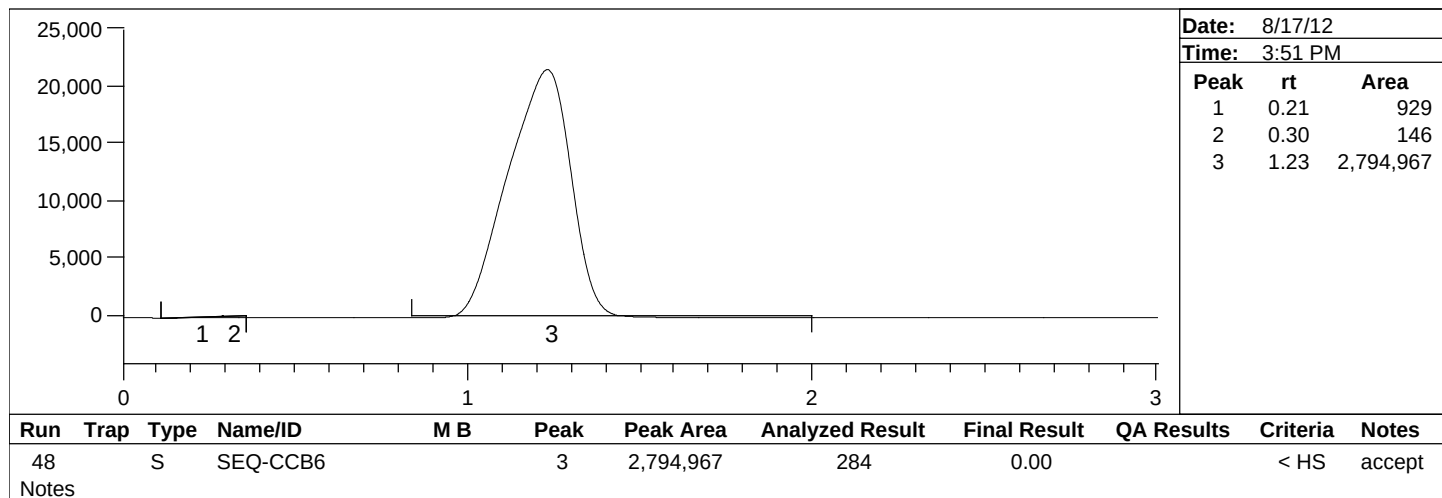
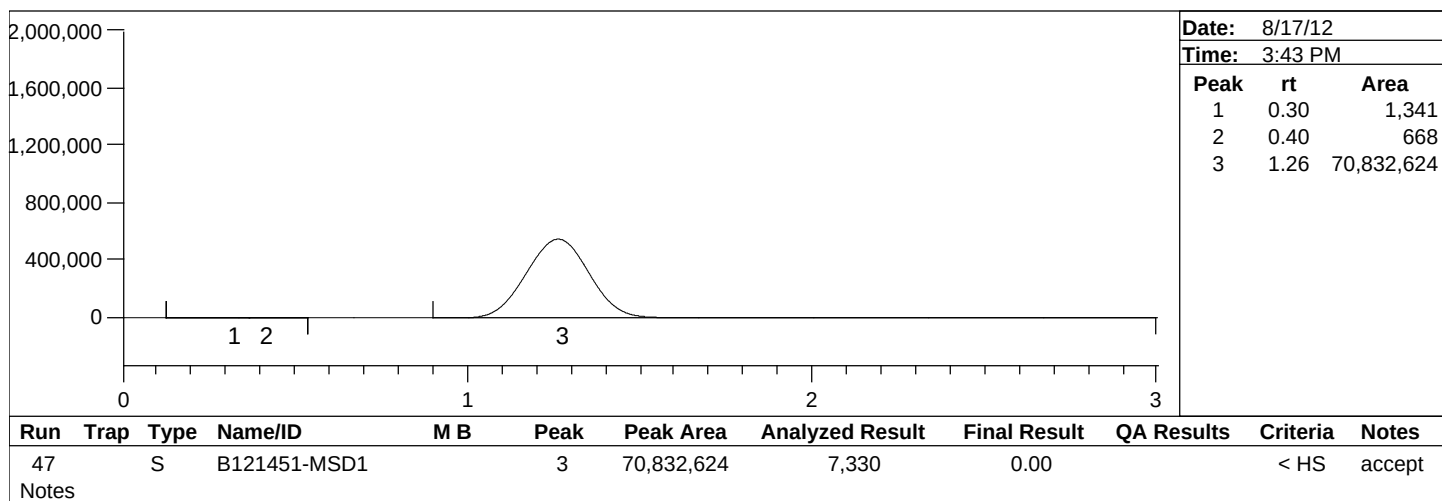
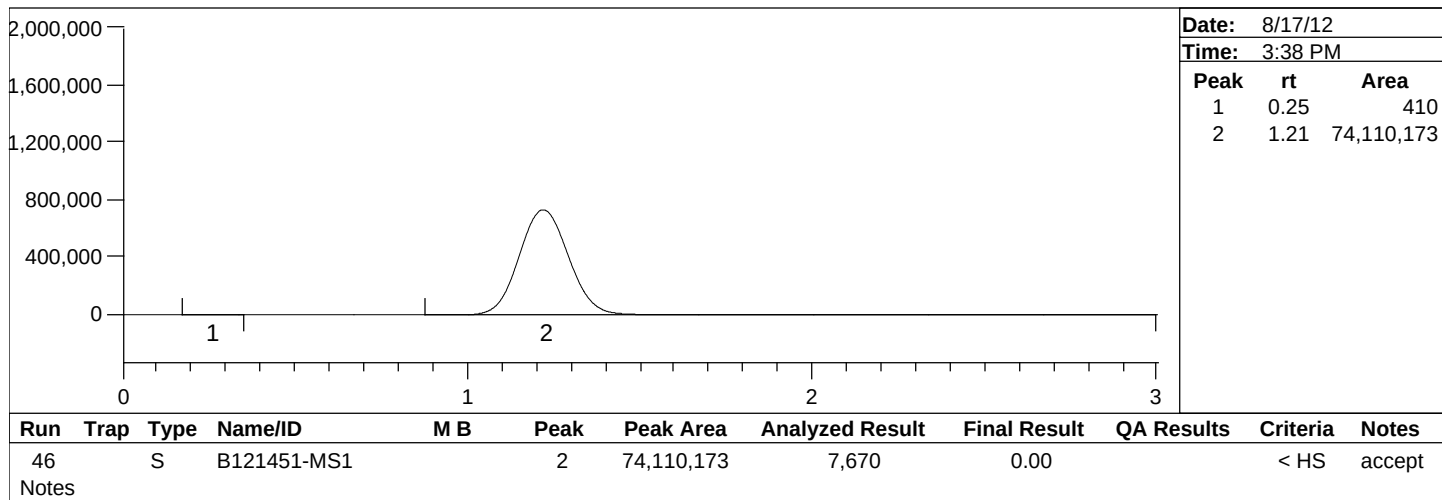
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Project Number(s): 1200642

Instrument ID: THG-05

Date Analyzed: 8/17/12

Analyst Name: MLH



Peak Report

Batch Number: B121451

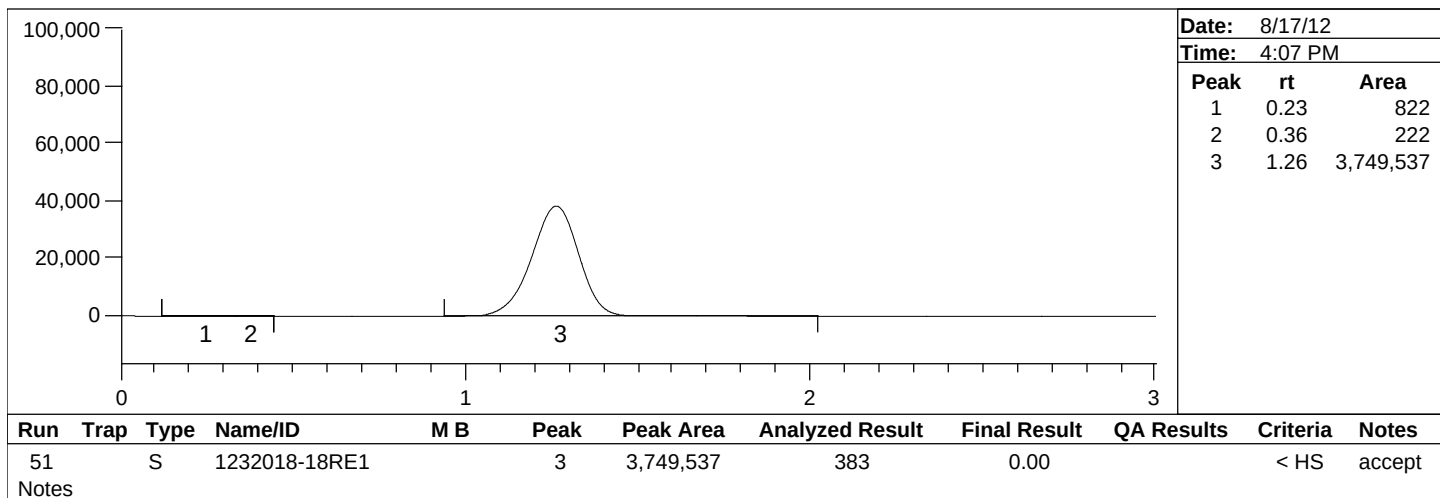
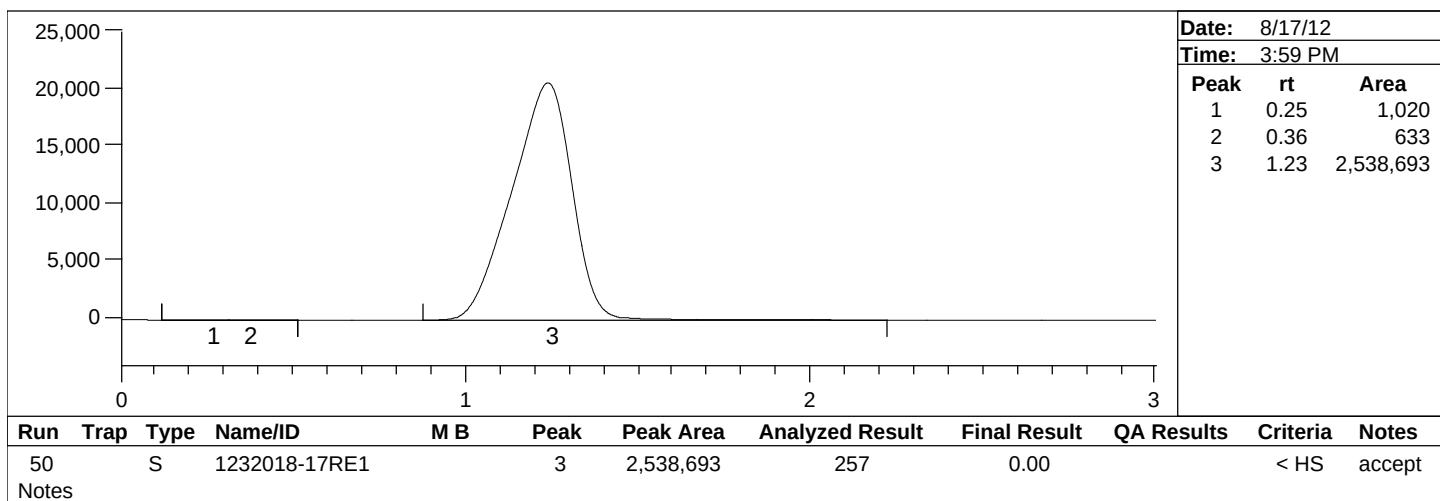
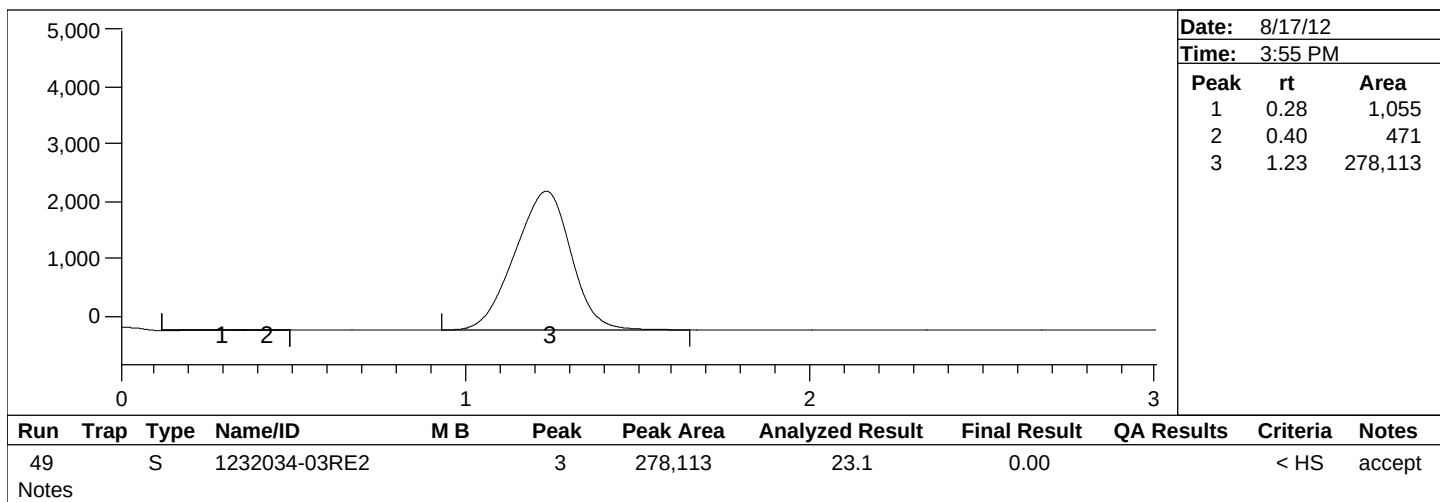
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Analyst Name: MLH



Peak Report

Batch Number: B121451

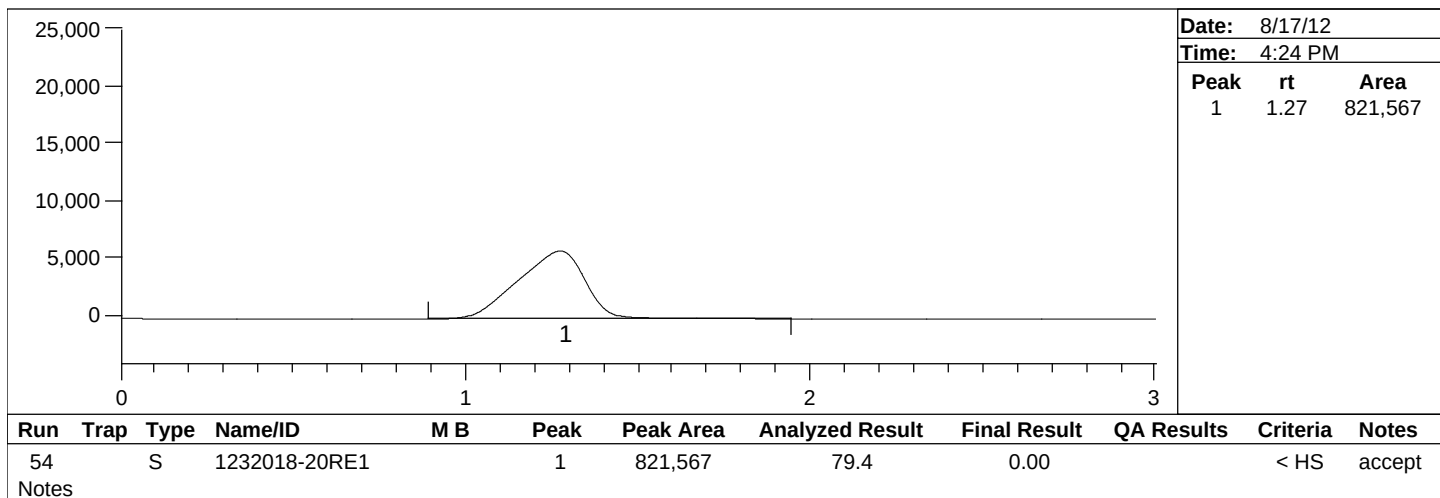
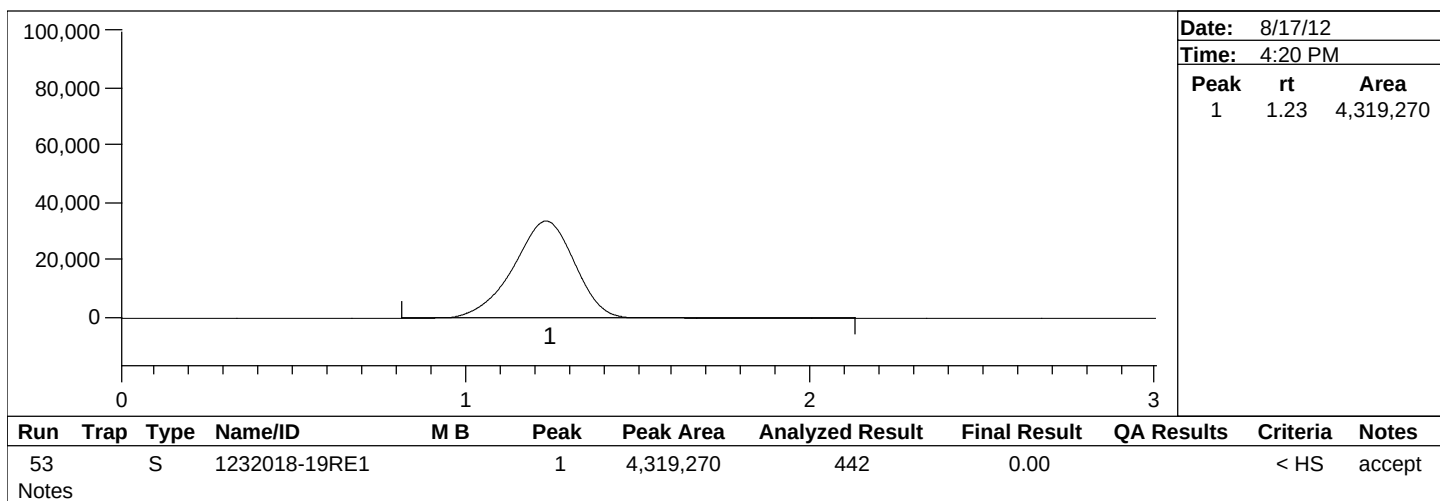
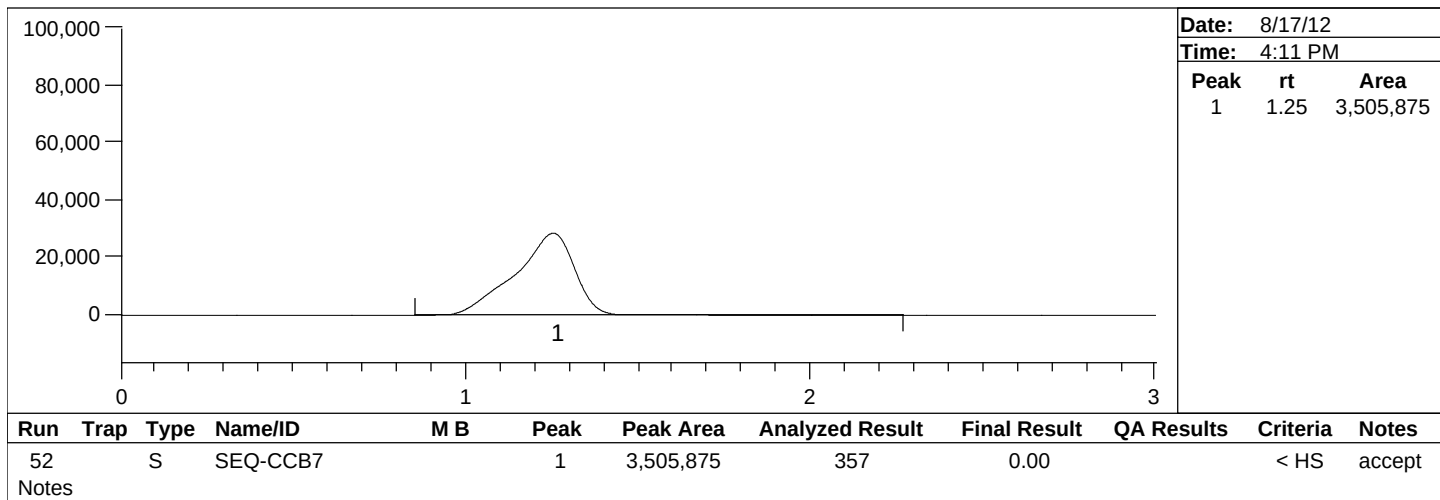
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Project Number(s): 1200642

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Analyst Name: MLH



Peak Report

Batch Number: B121451

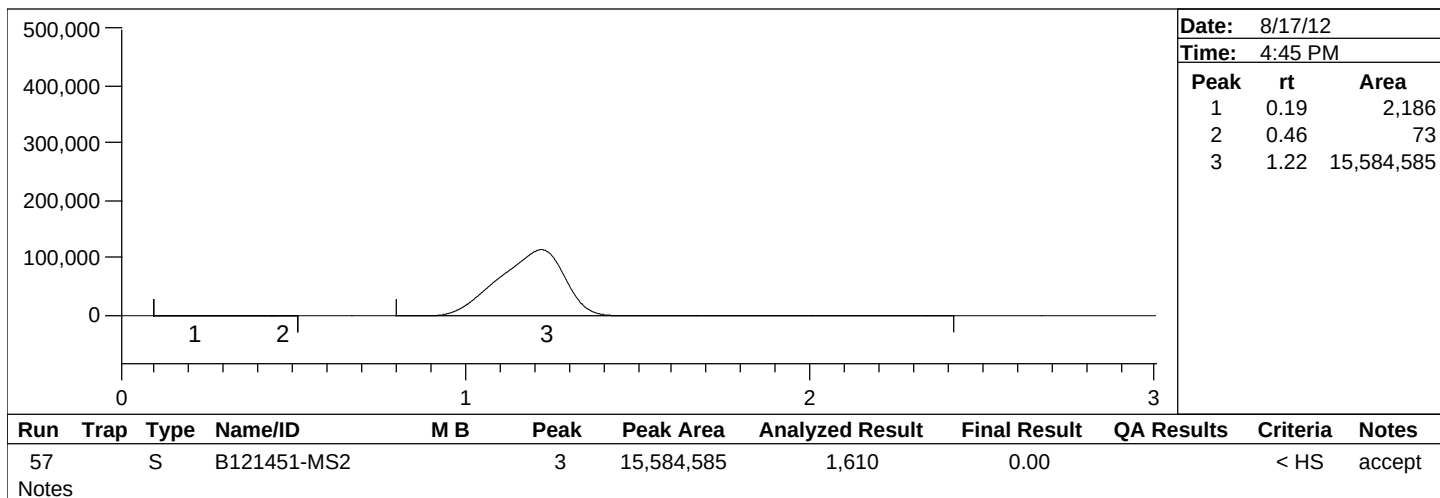
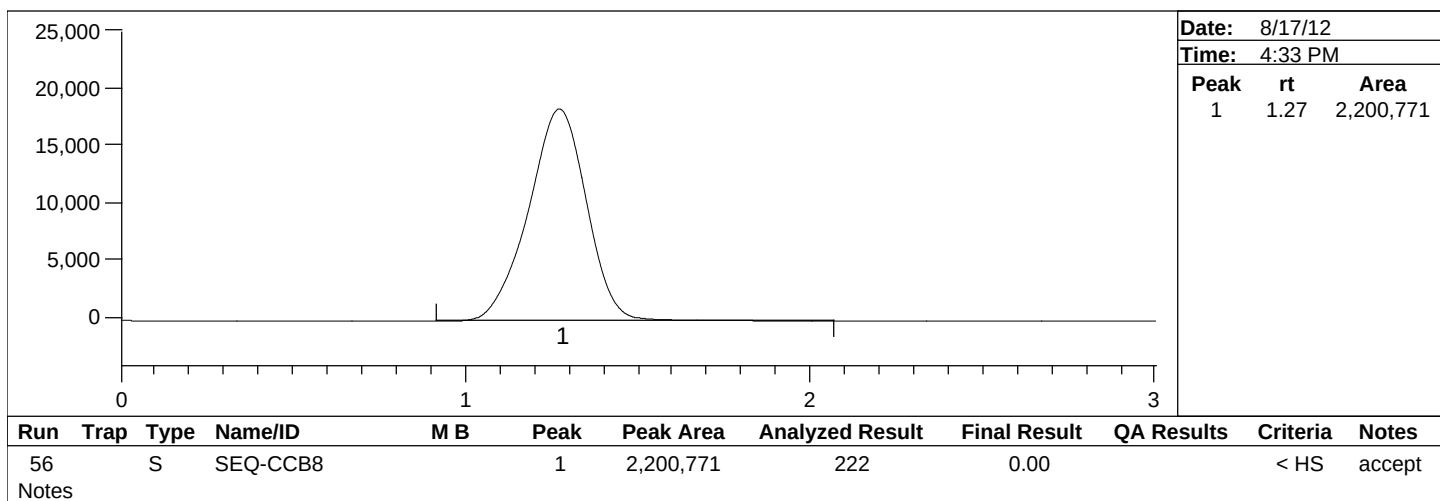
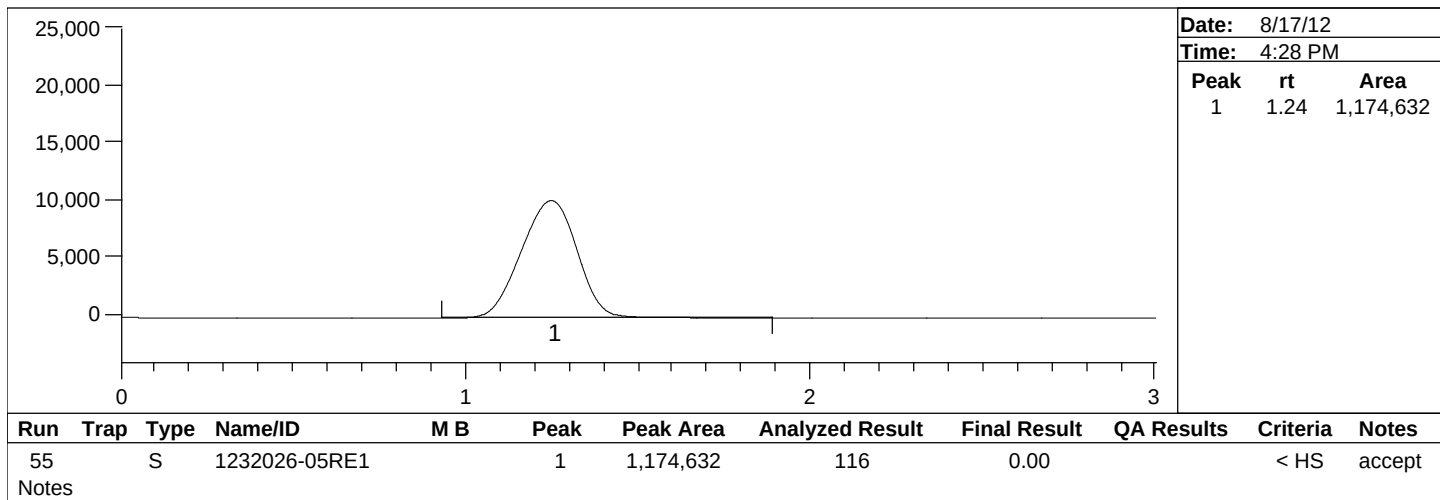
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Analyst Name: MLH



Peak Report

Batch Number: B121451

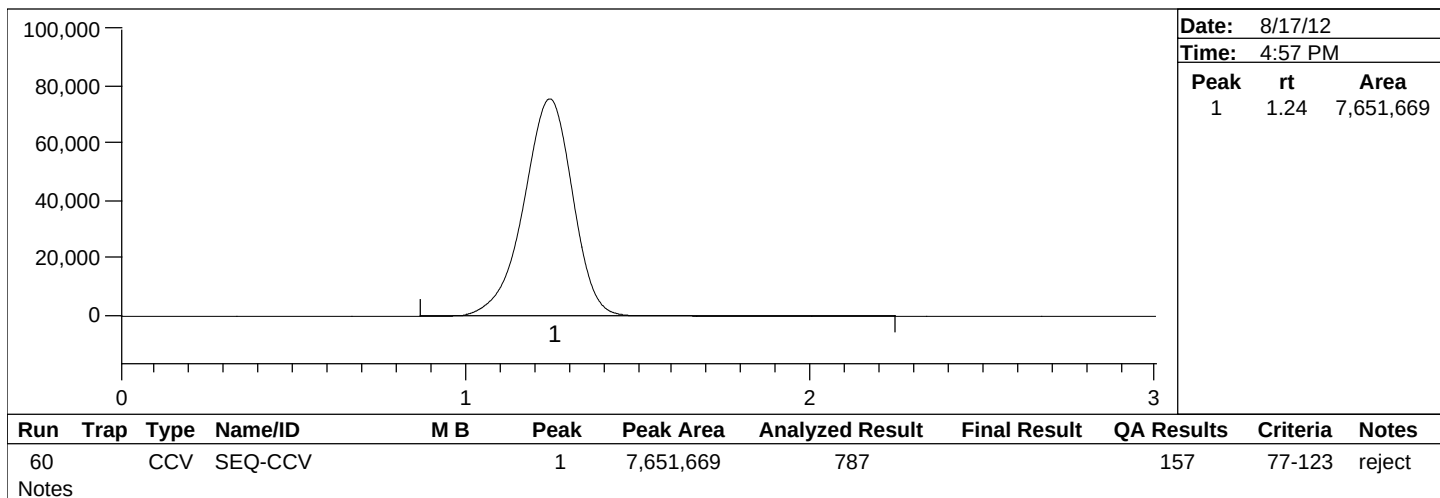
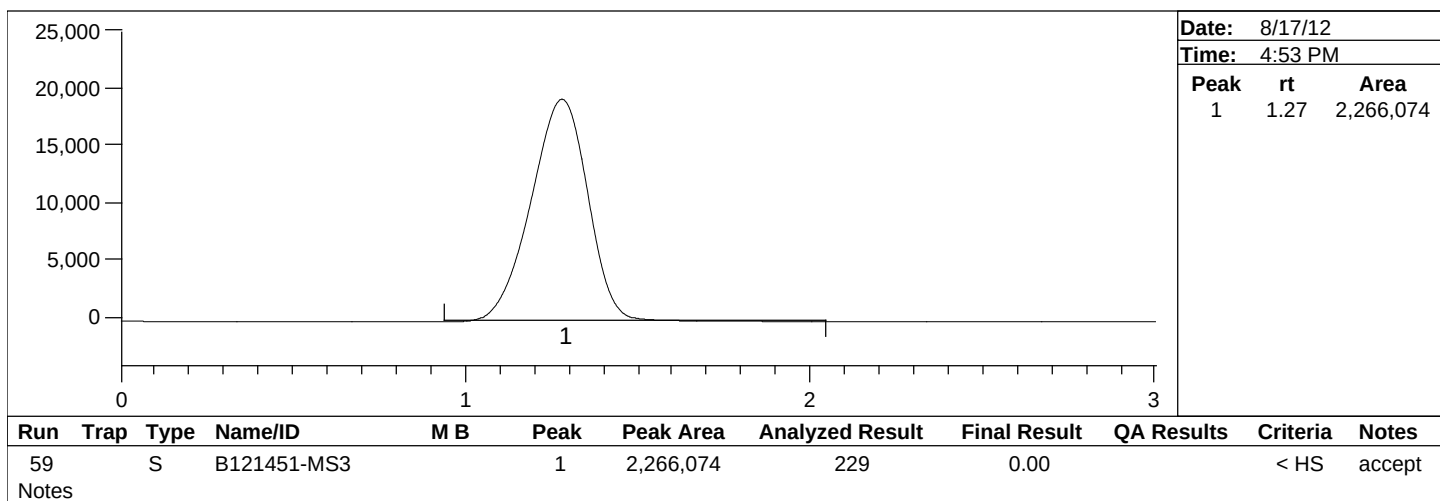
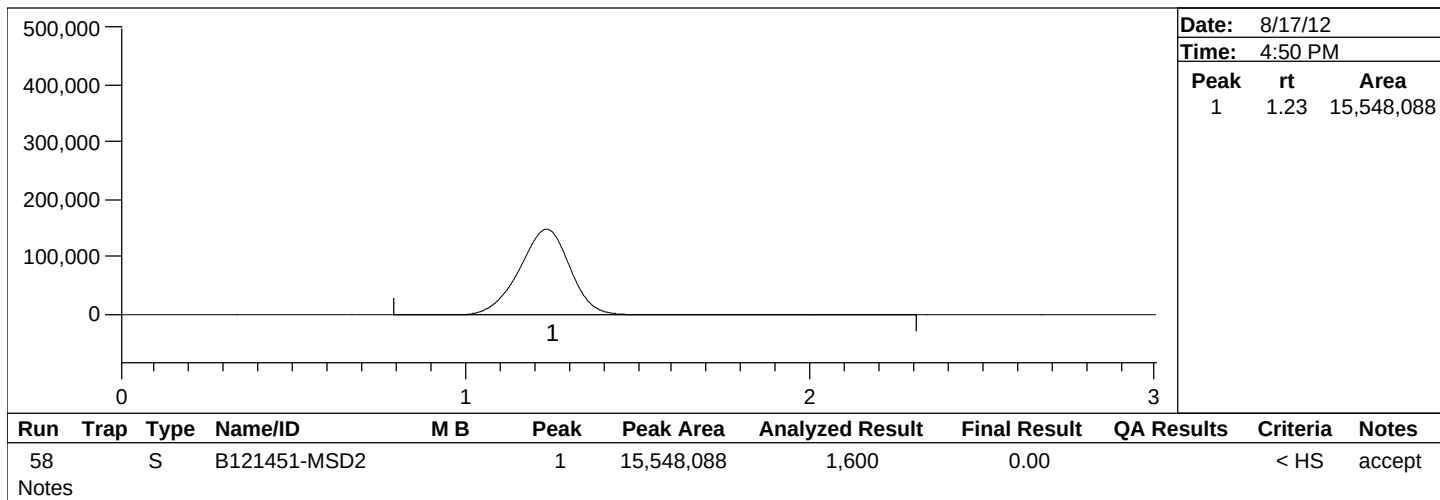
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Analyst Name: MLH



Peak Report

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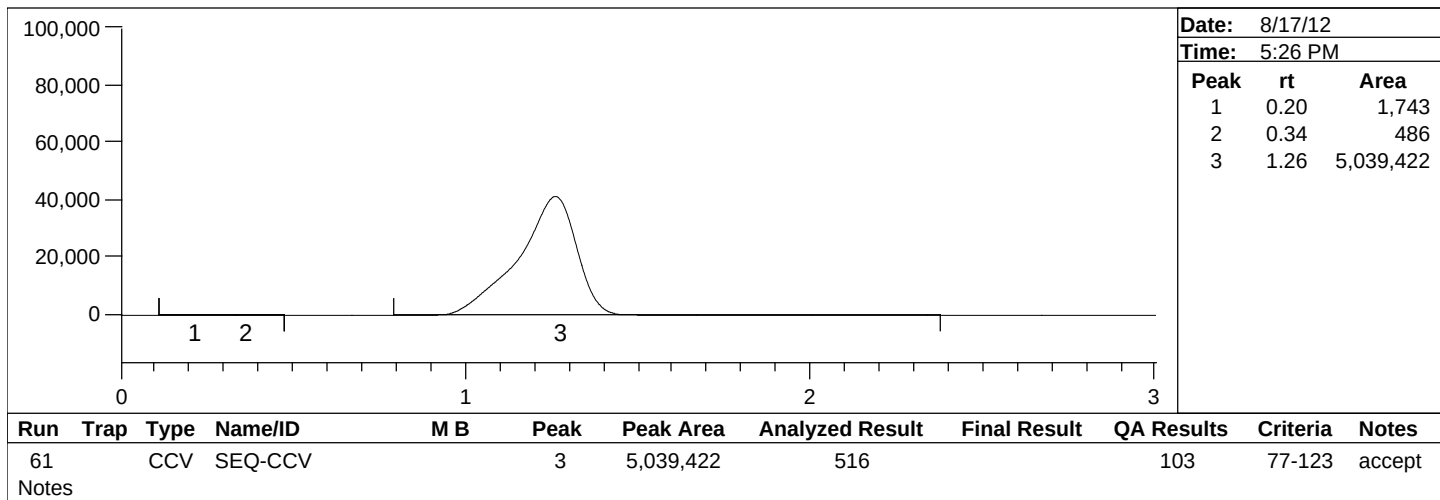
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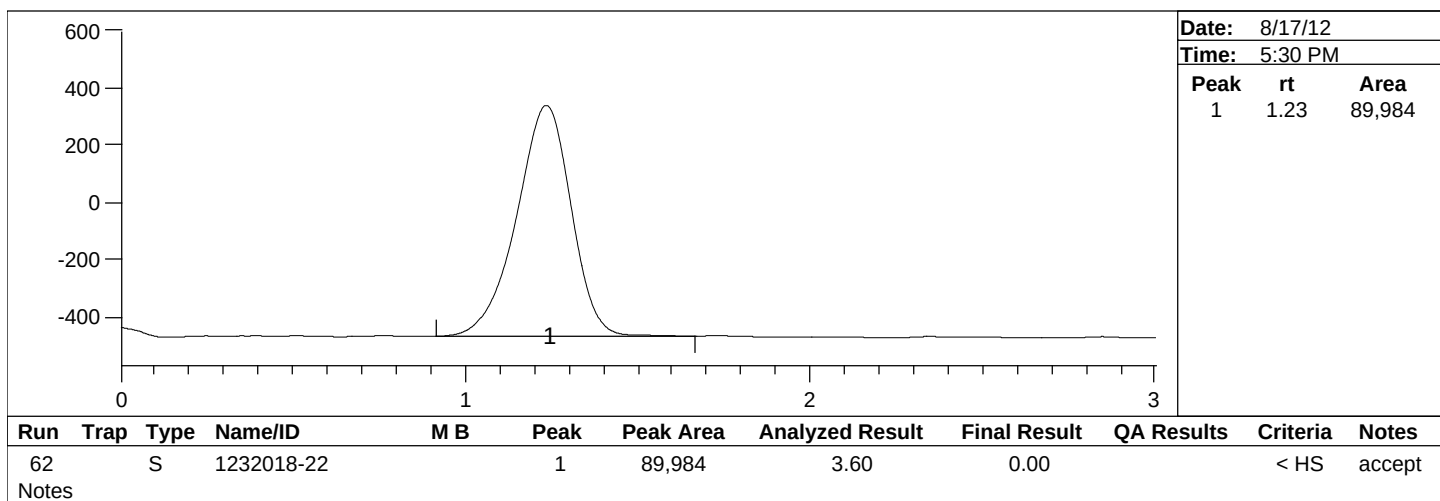
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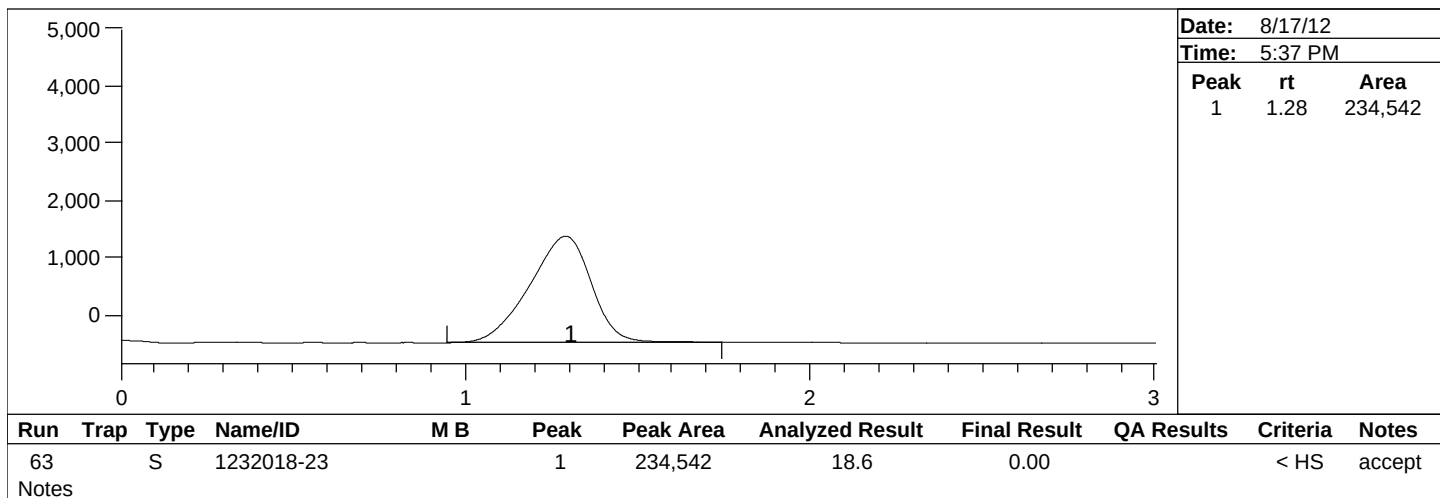
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2	0.34	486
3	1.26	5,039,422



Date:	8/17/12	
Time:	5:30 PM	
Peak	rt	Area
1	1.23	89,984



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Peak Report

Batch Number: B121451

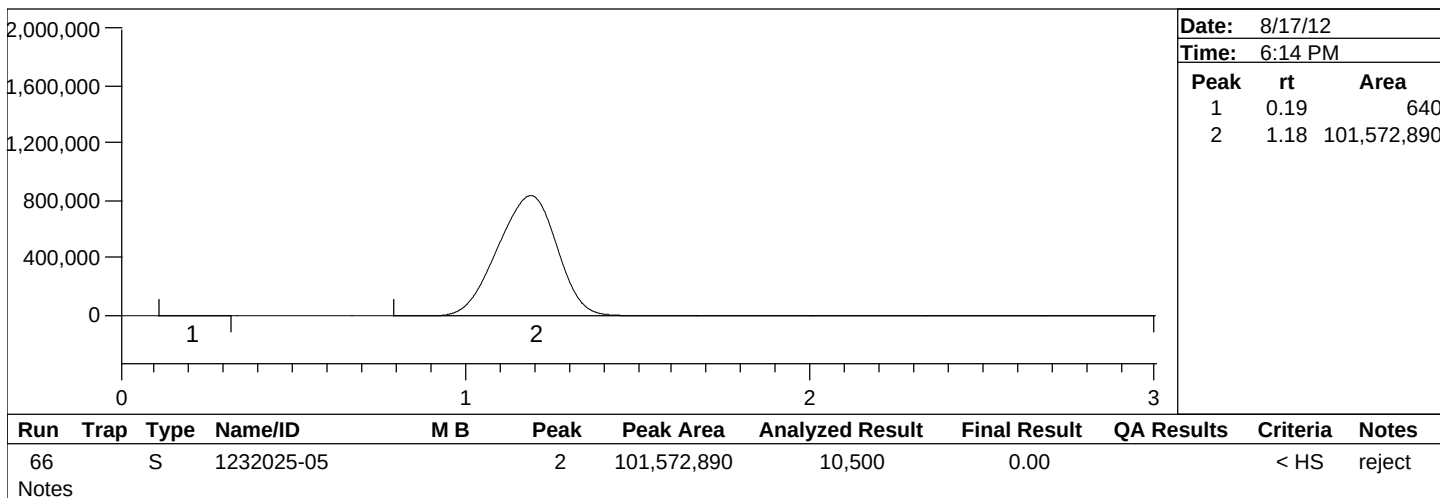
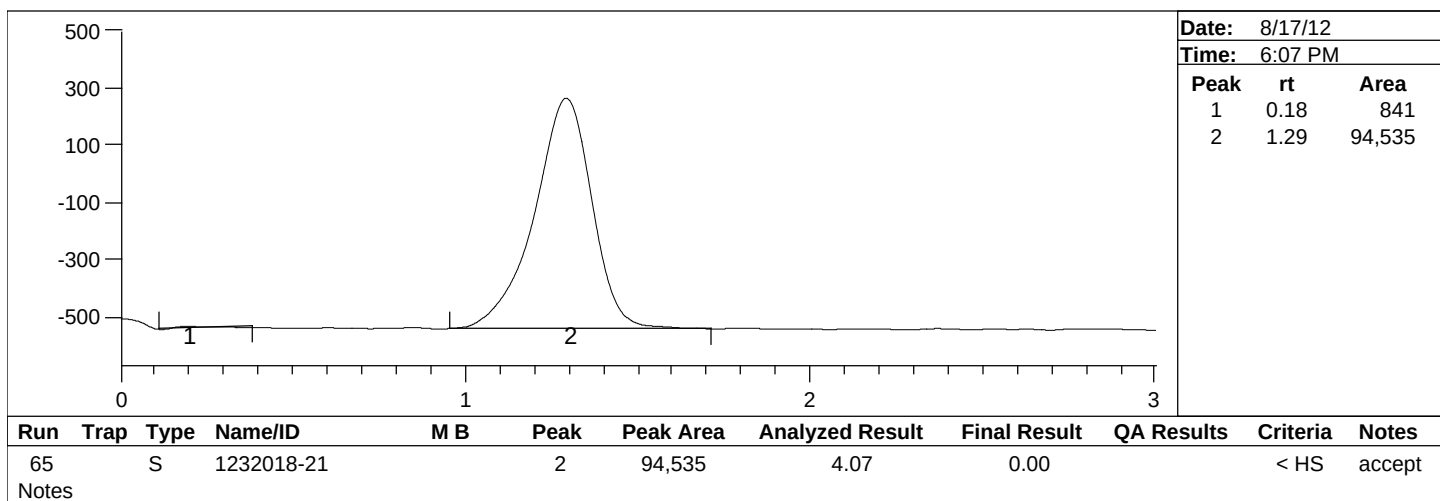
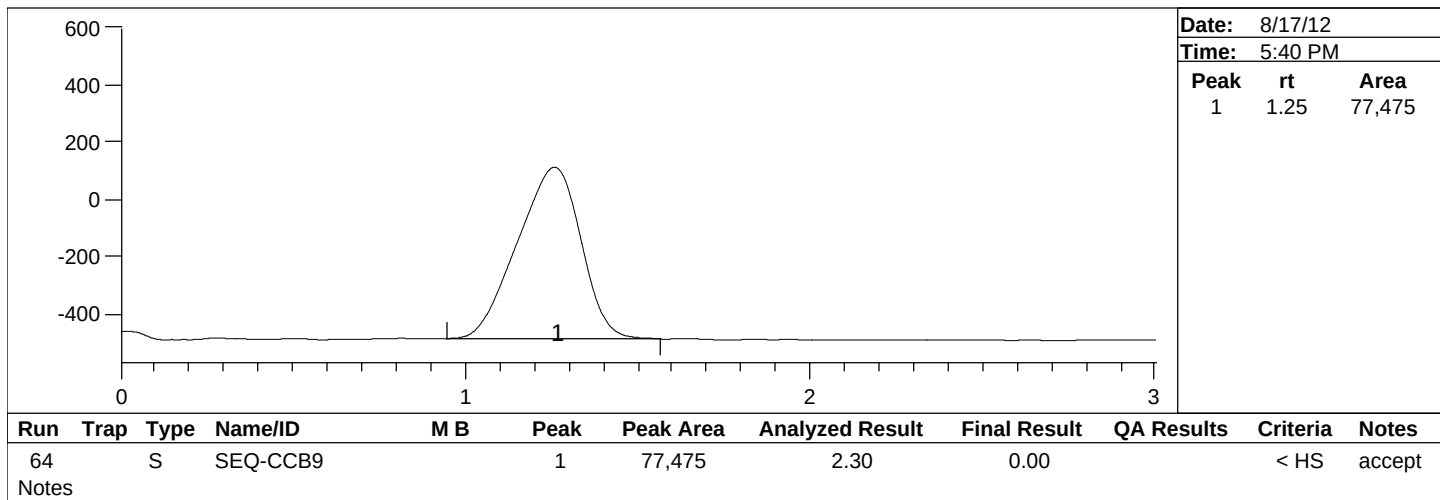
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Project Number(s): 1200642

Instrument ID: THG-05

Date Analyzed: 8/17/12

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Peak Report

Batch Number: B121451

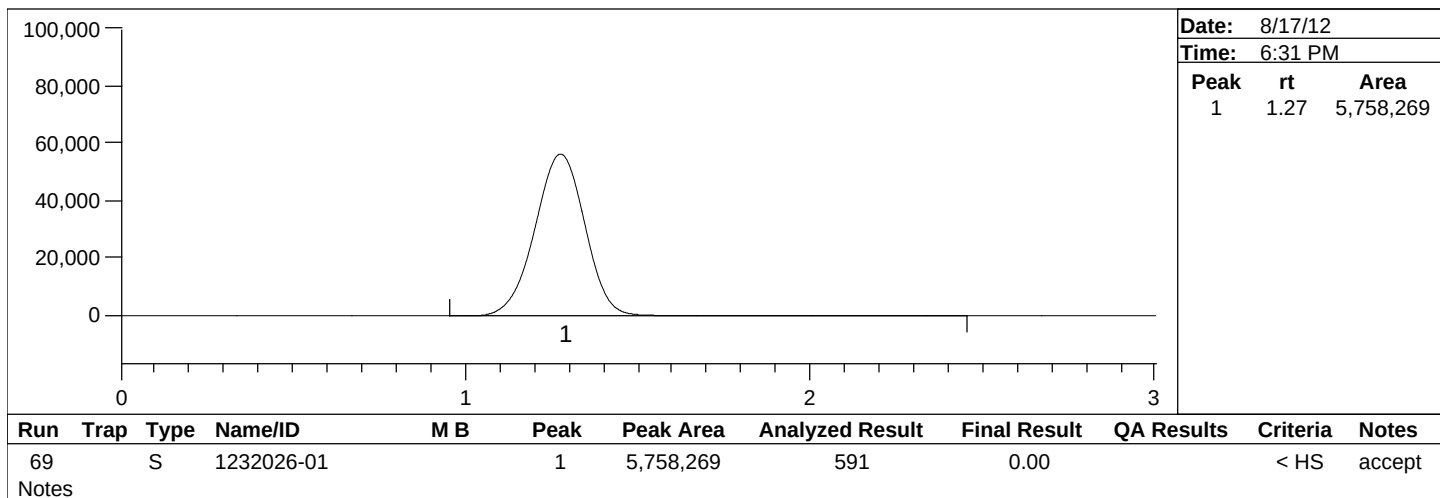
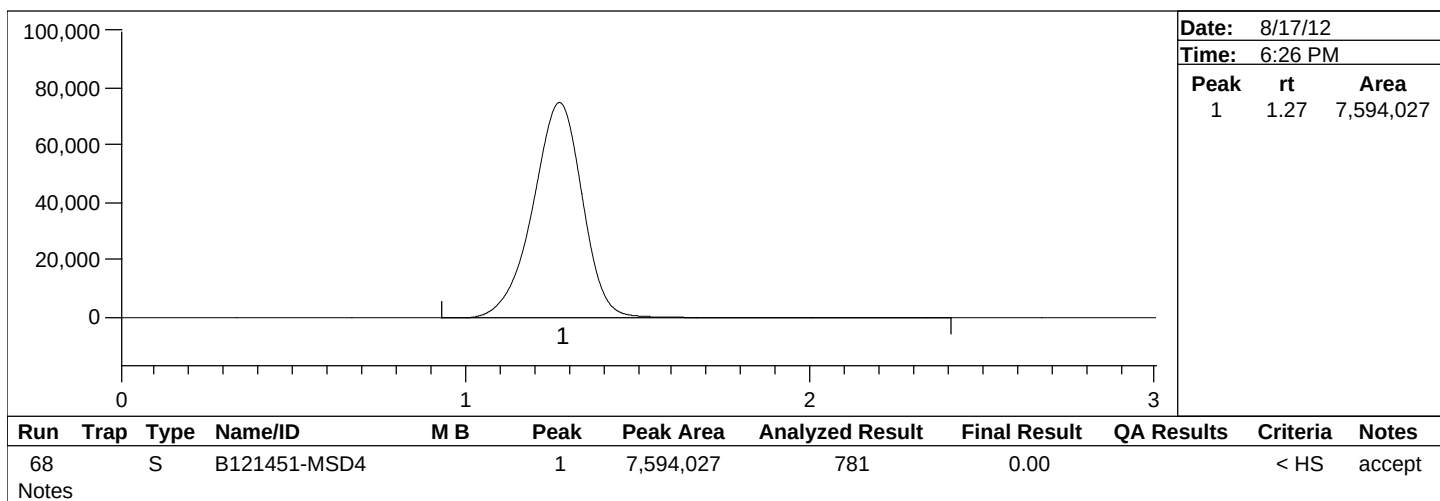
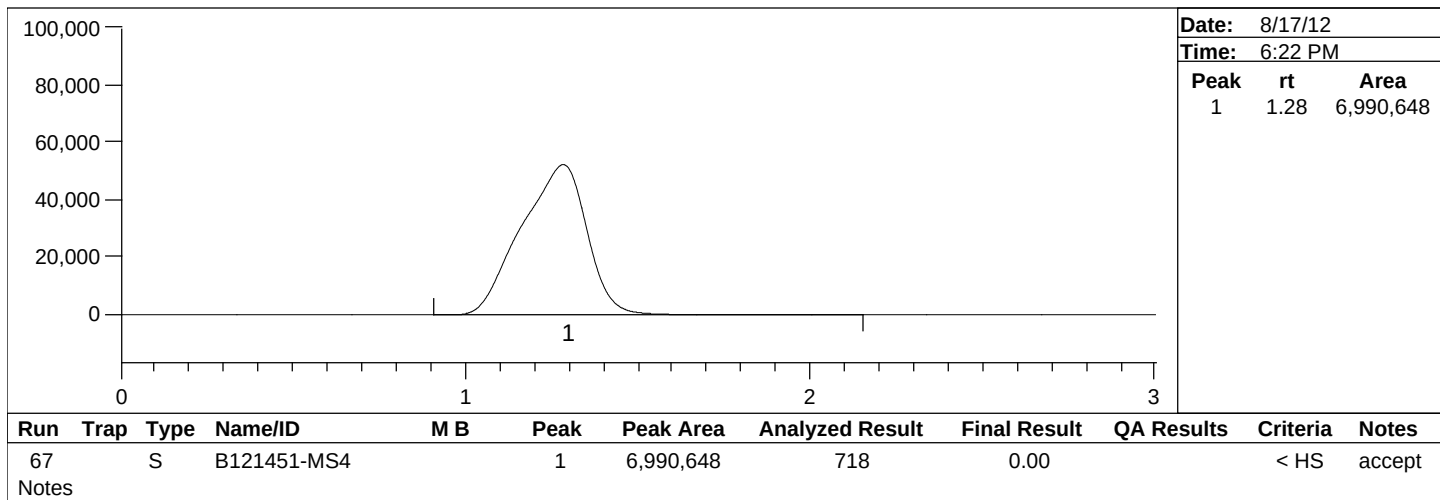
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Project Number(s): 1200642

Instrument ID: THG-05

Date Analyzed: 8/17/12

Analyst Name: MLH



Peak Report

Batch Number: B121451

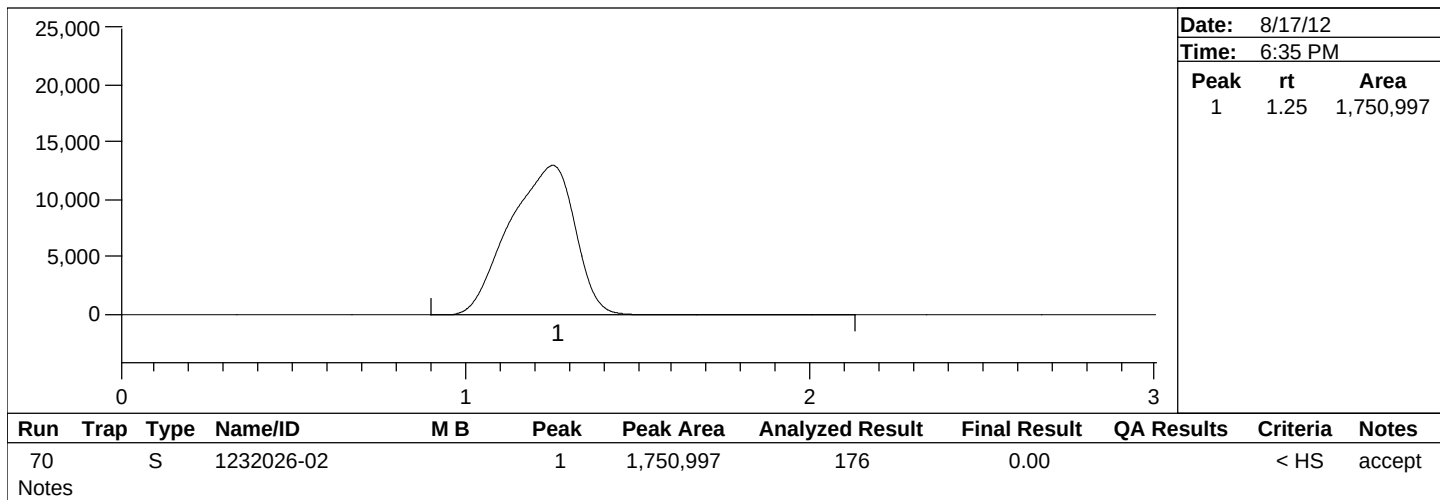
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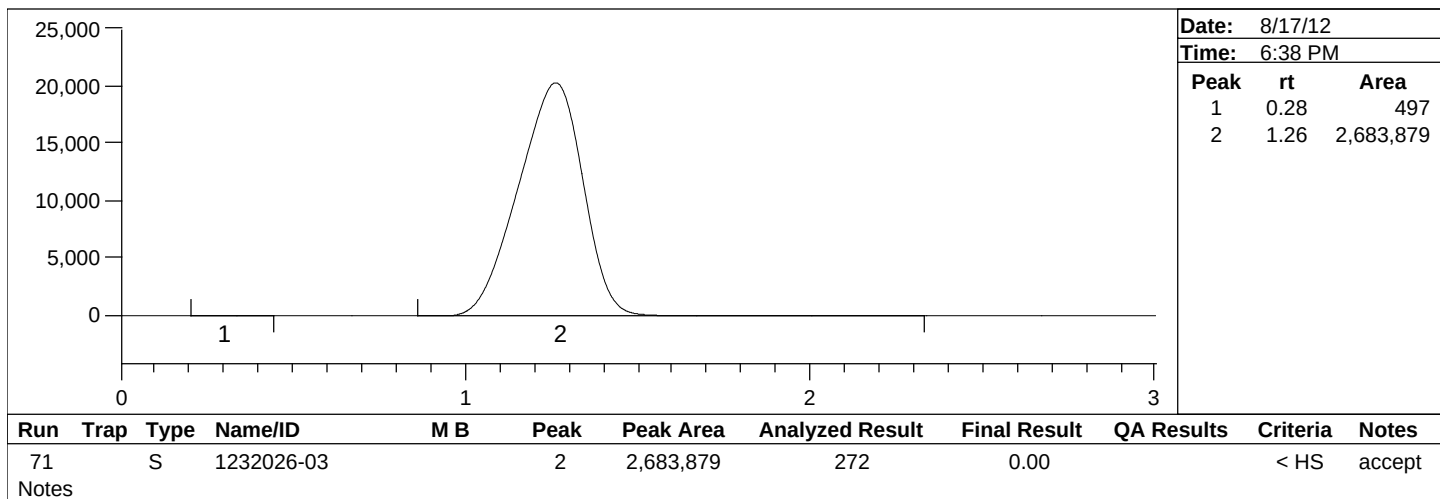
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Analyst Name: MLH



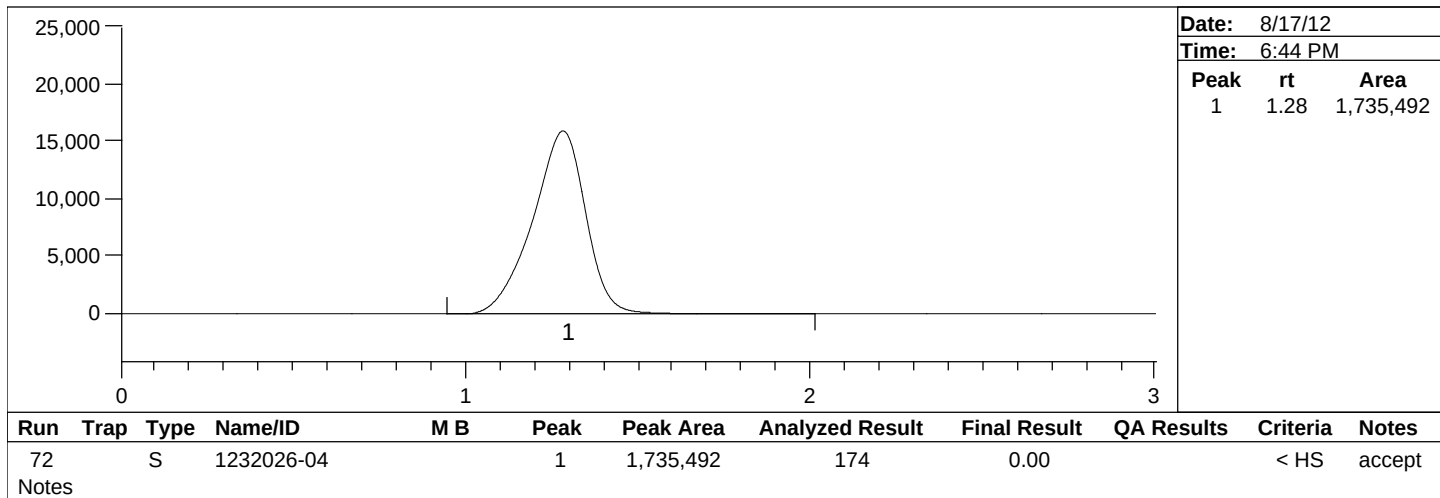
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Time: 6:35 PM

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Date: 8/17/12
Time: 6:38 PM

Peak	rt	Area
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2	1.26	2,683,879



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Peak	rt	Area
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Peak Report

Batch Number: B121451

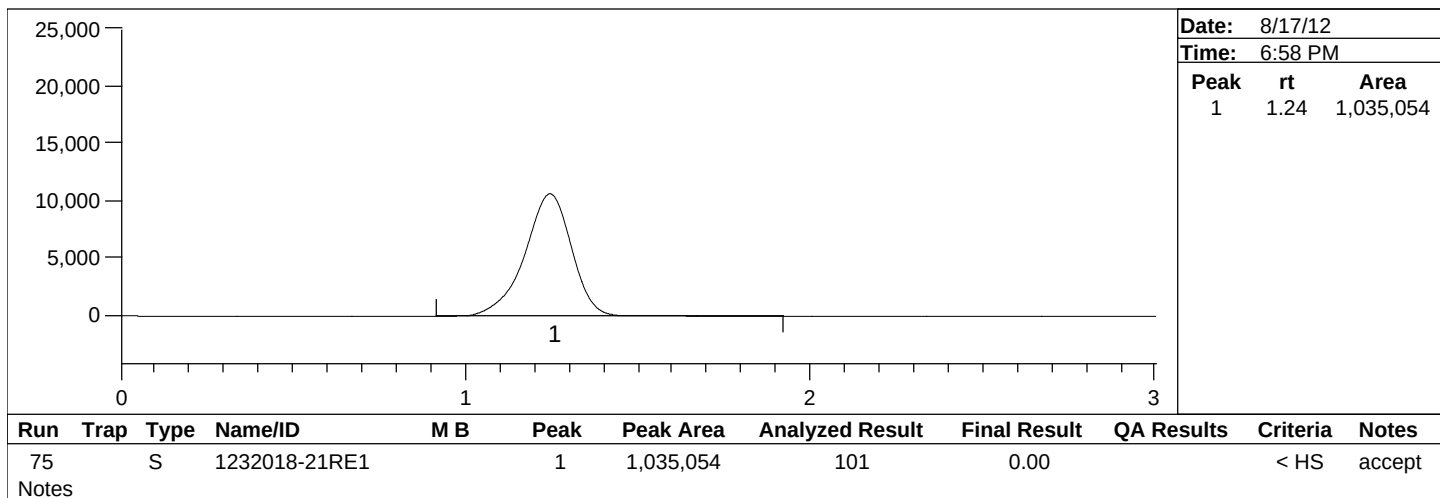
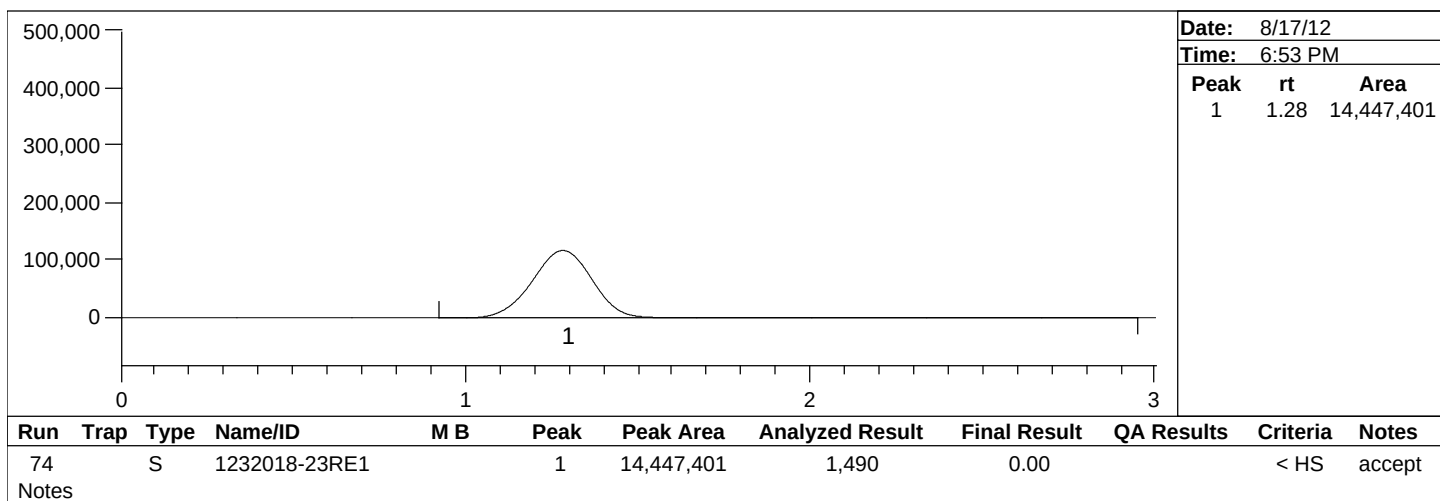
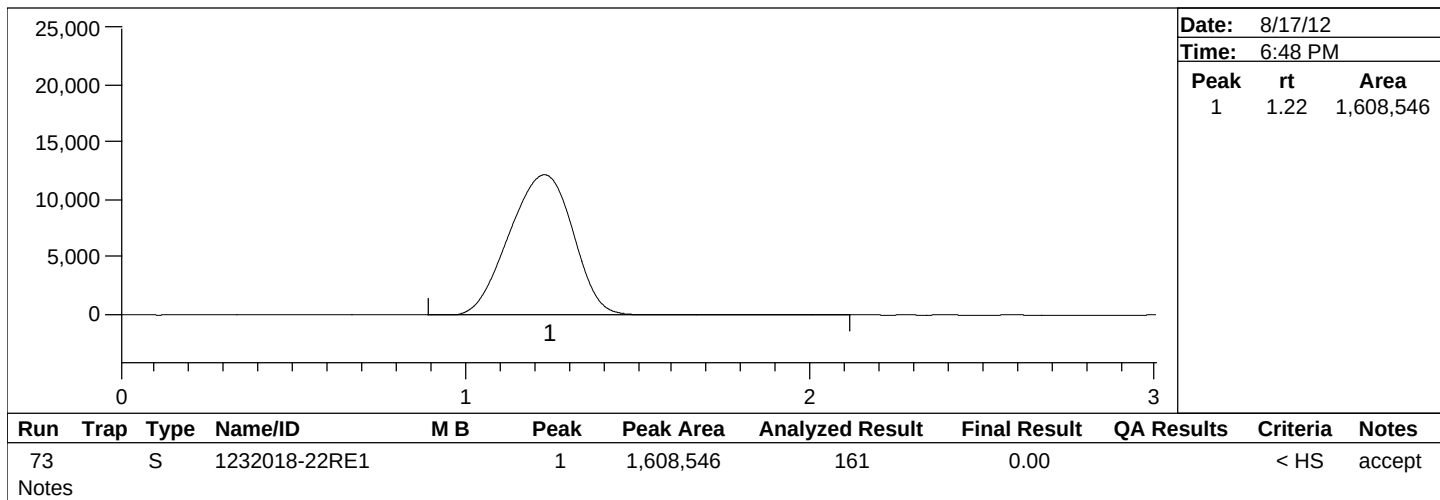
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Peak Report

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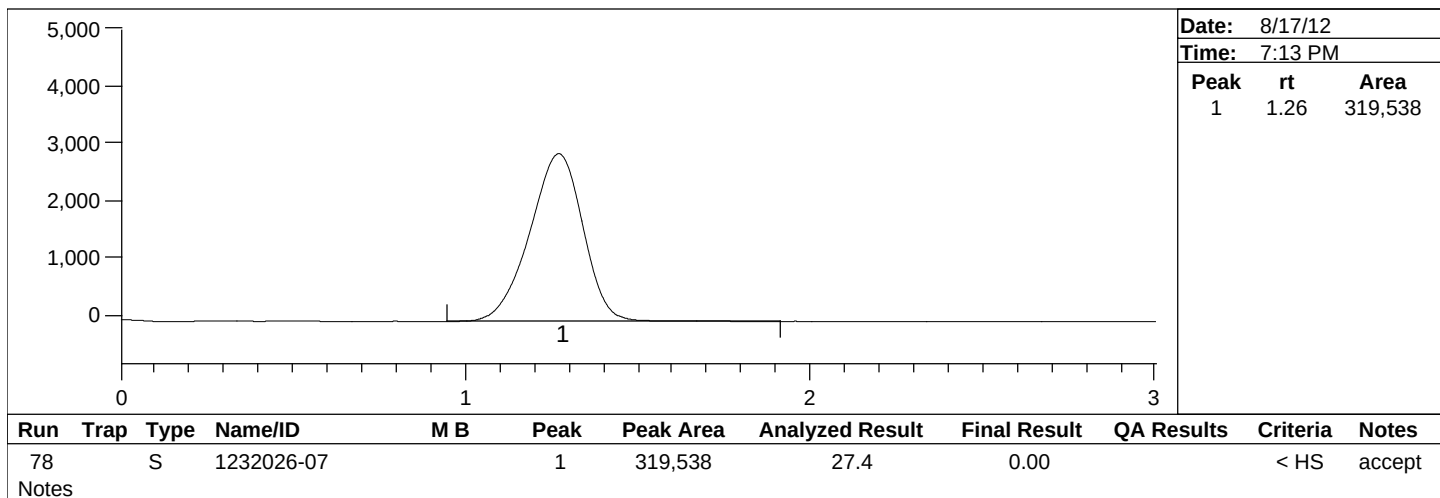
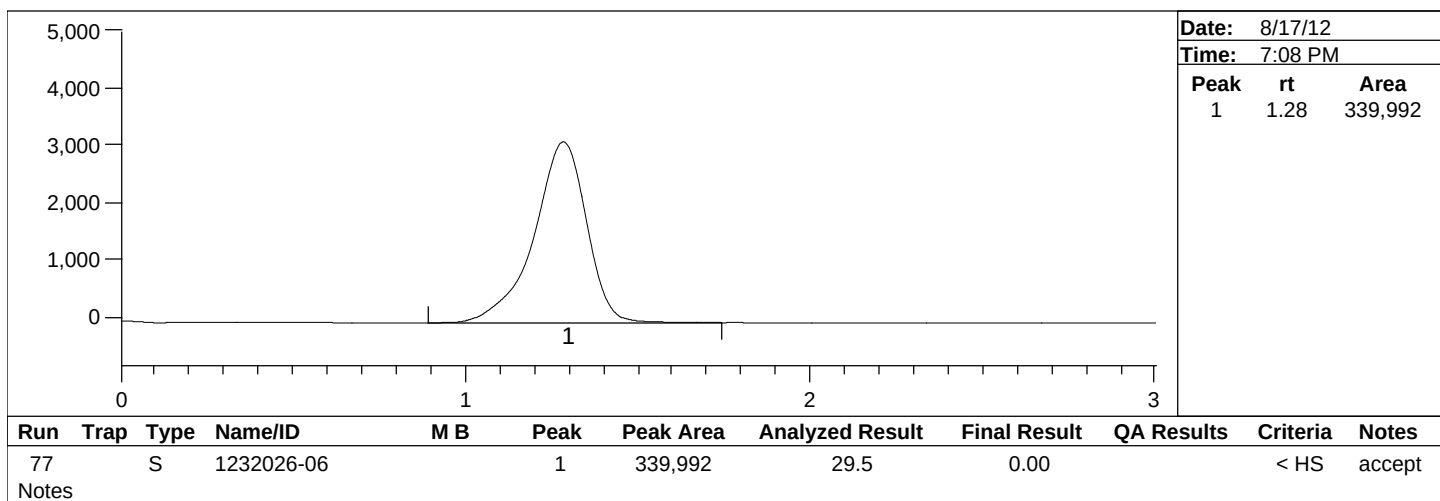
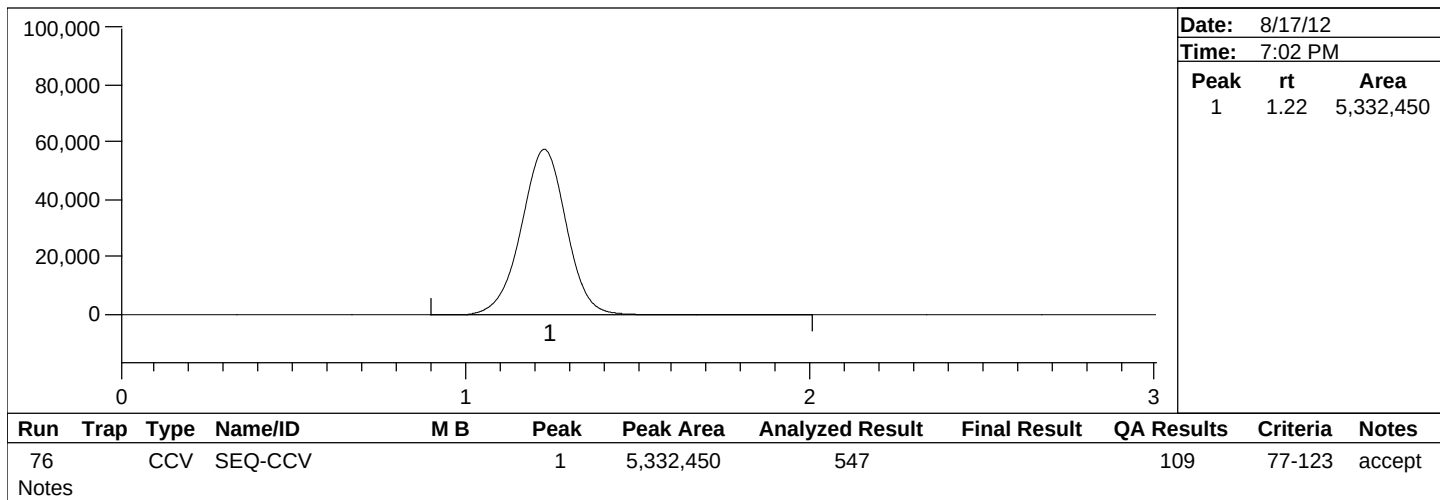
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Project Number(s): 1200642

Instrument ID: THG-05

Date Analyzed: 8/17/12

Analyst Name: MLH



Peak Report

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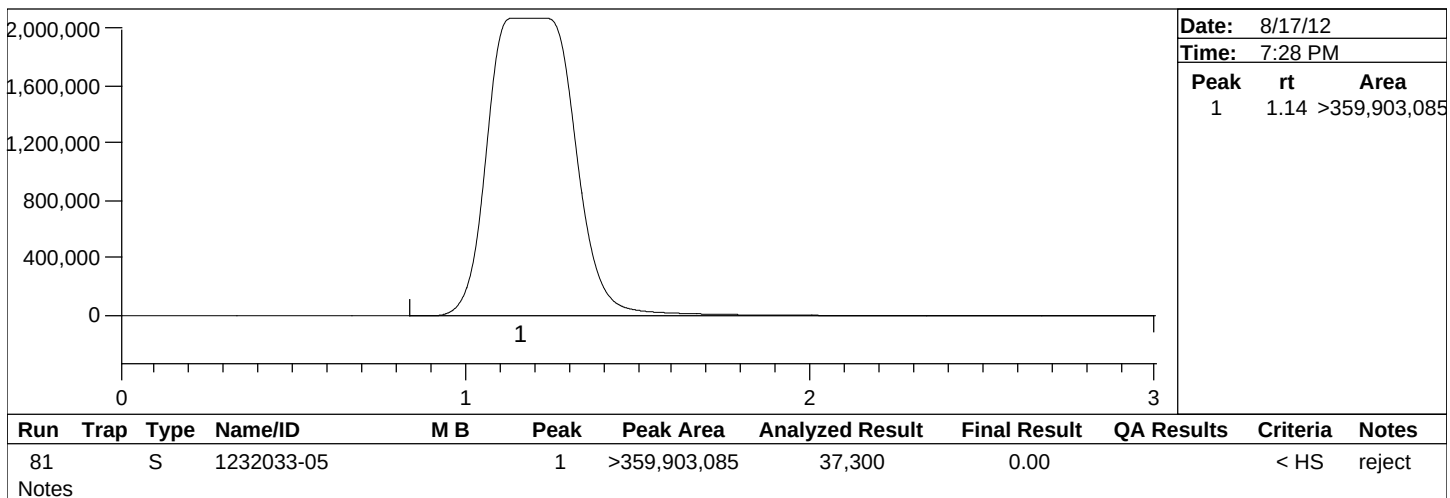
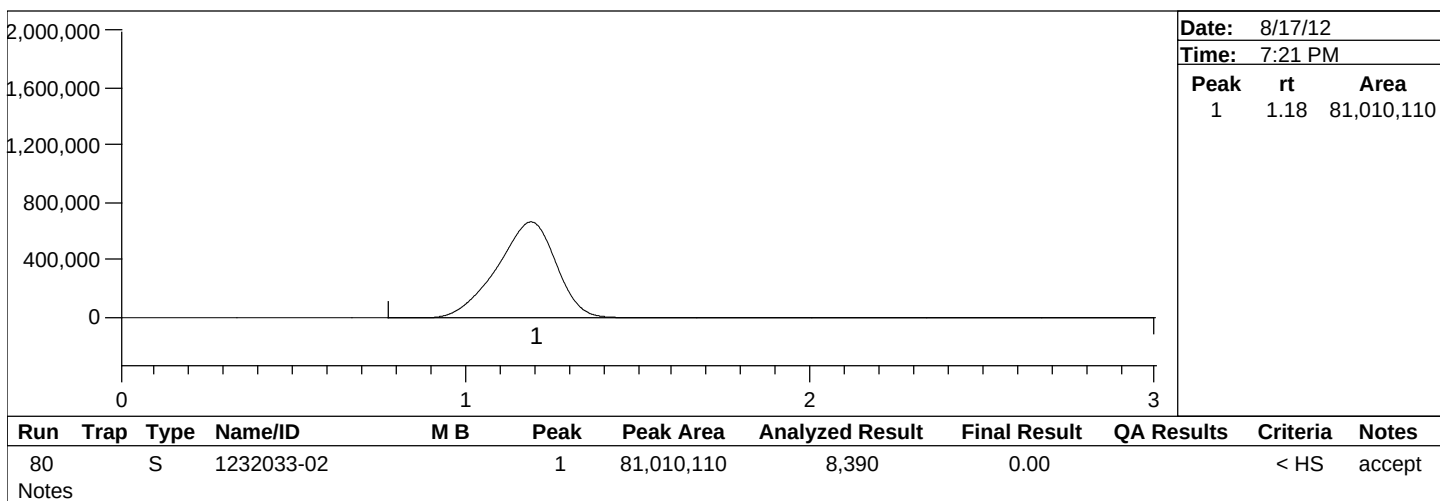
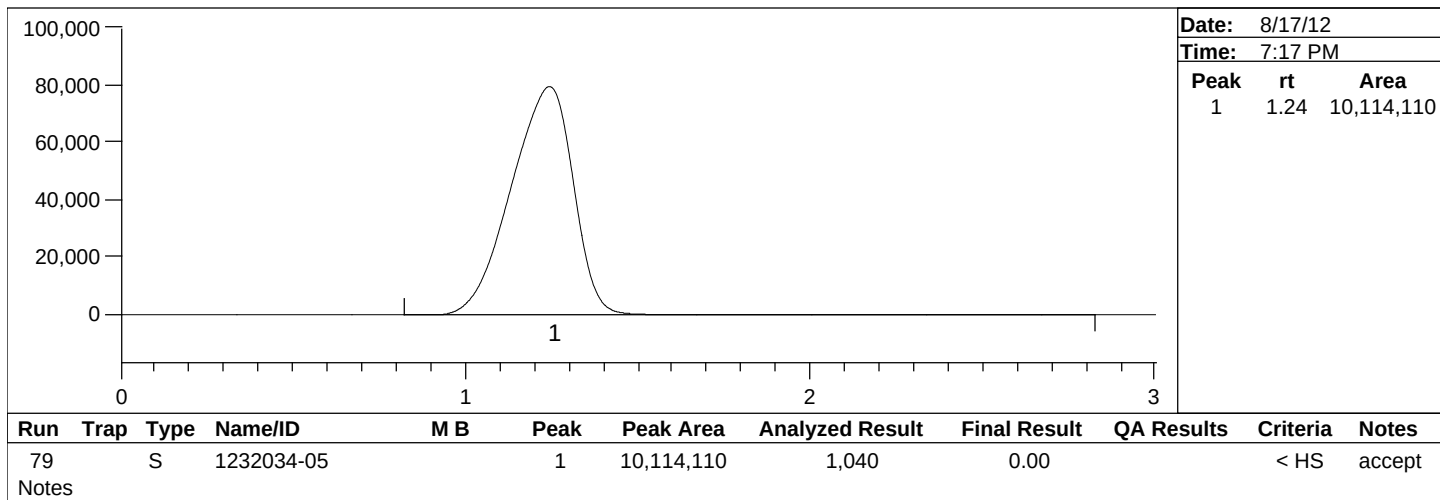
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Peak Report

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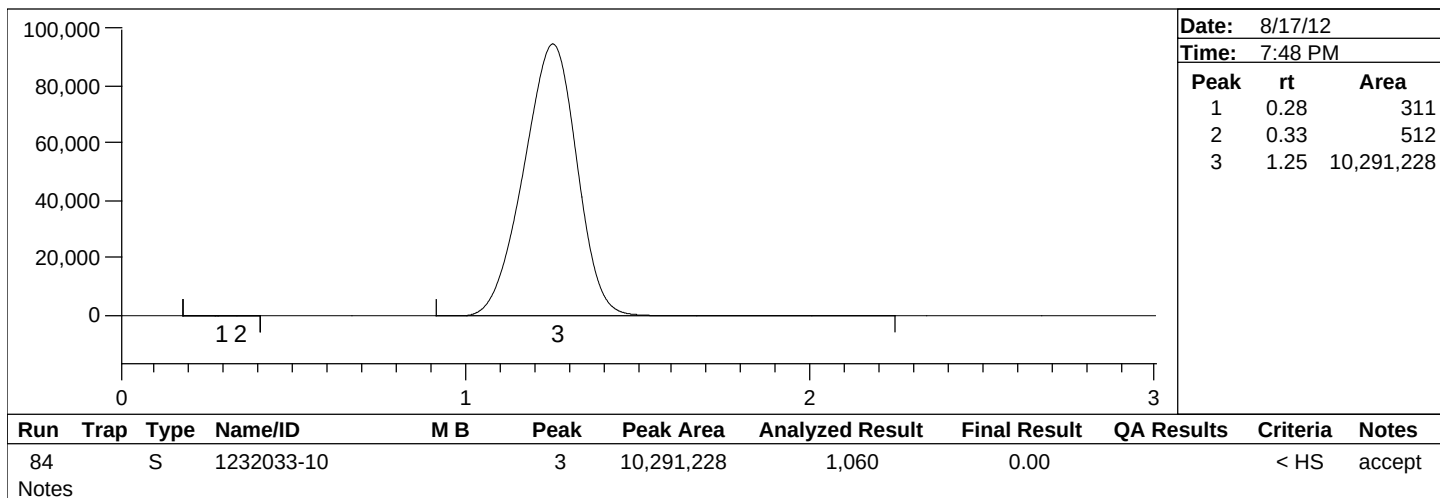
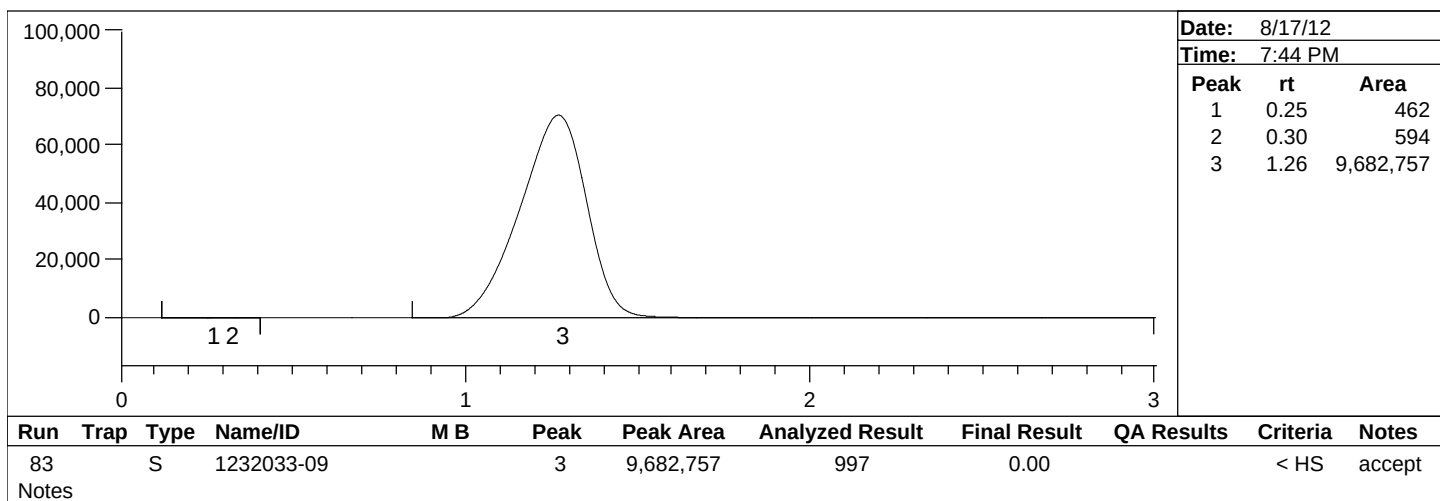
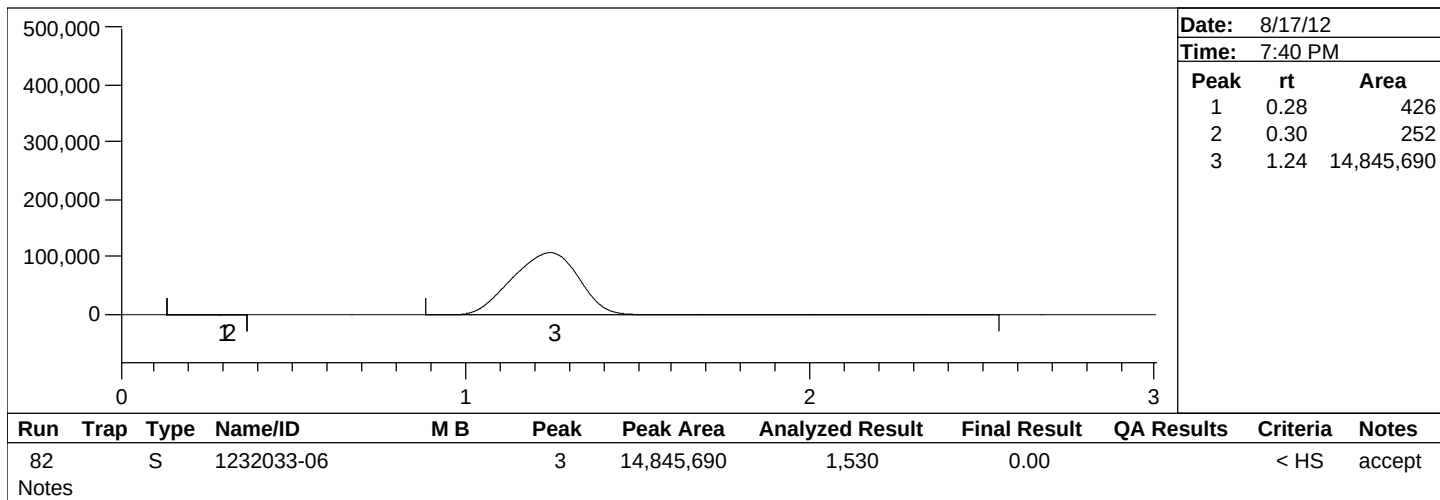
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Project Number(s): 1200642

Instrument ID: THG-05

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Peak Report

Batch Number: B121451

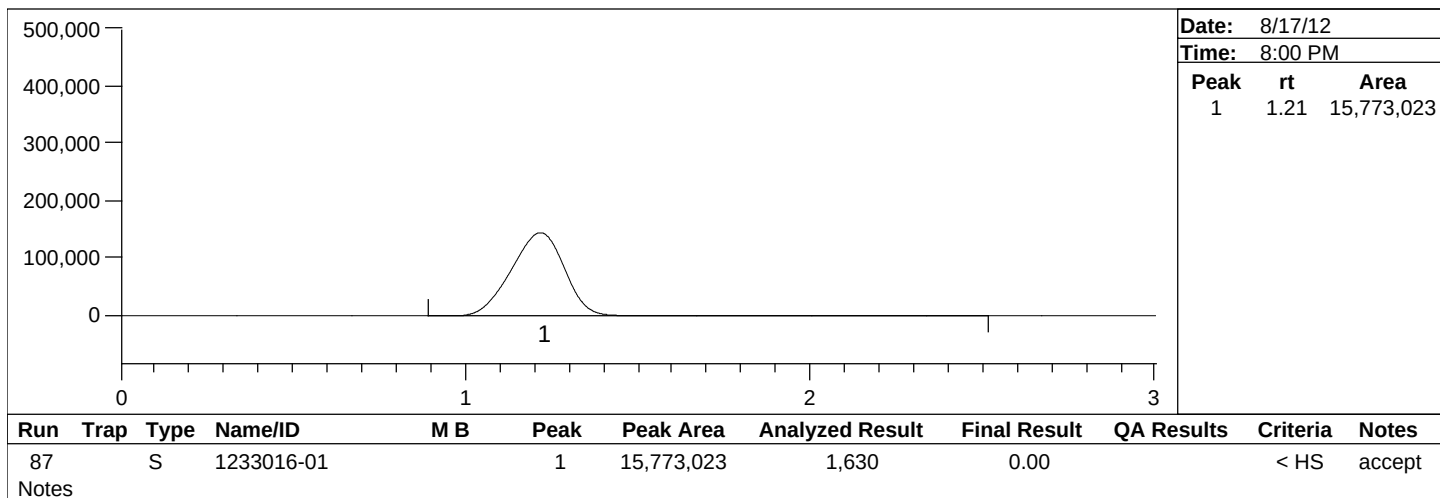
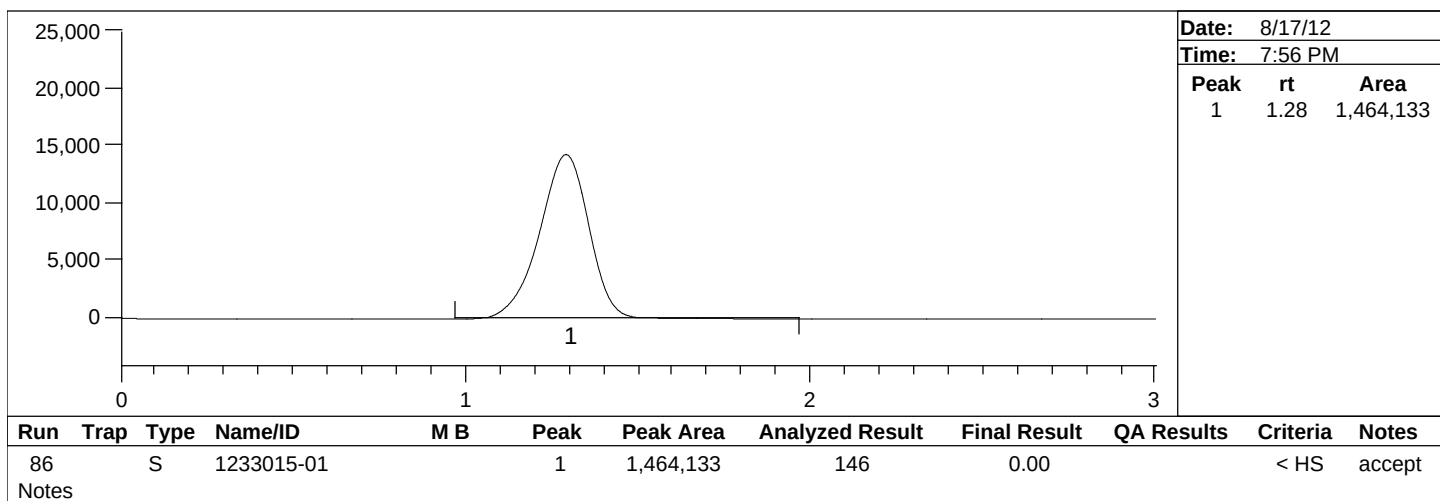
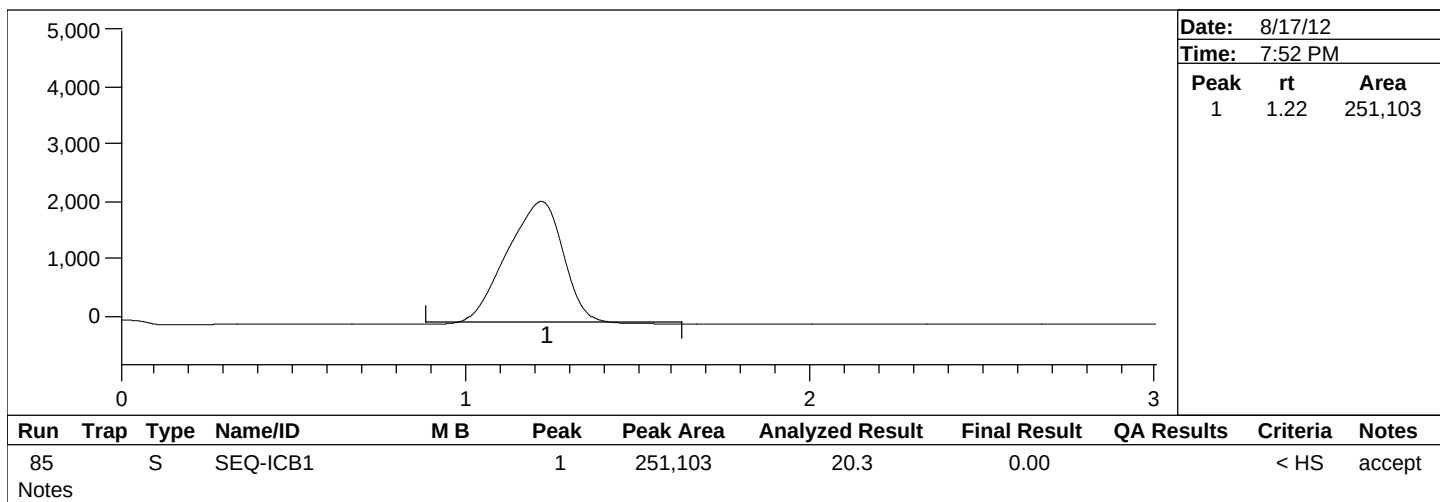
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Project Number(s): 1200642

Instrument ID: THG-05

Date Analyzed: 8/17/12

Analyst Name: MLH



Peak Report

Batch Number: B121451

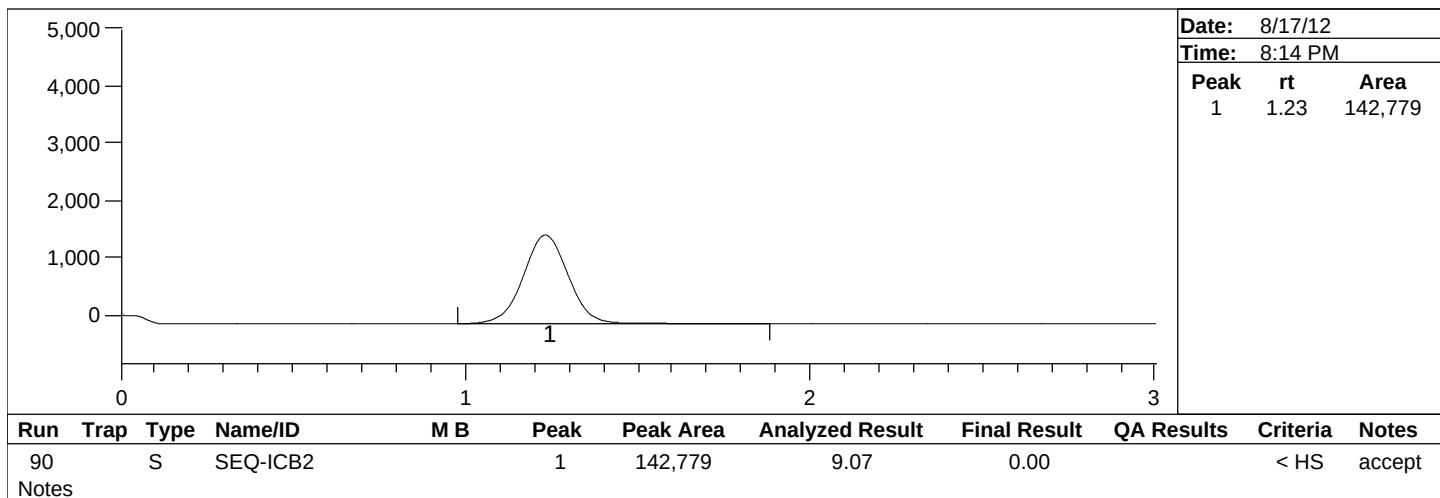
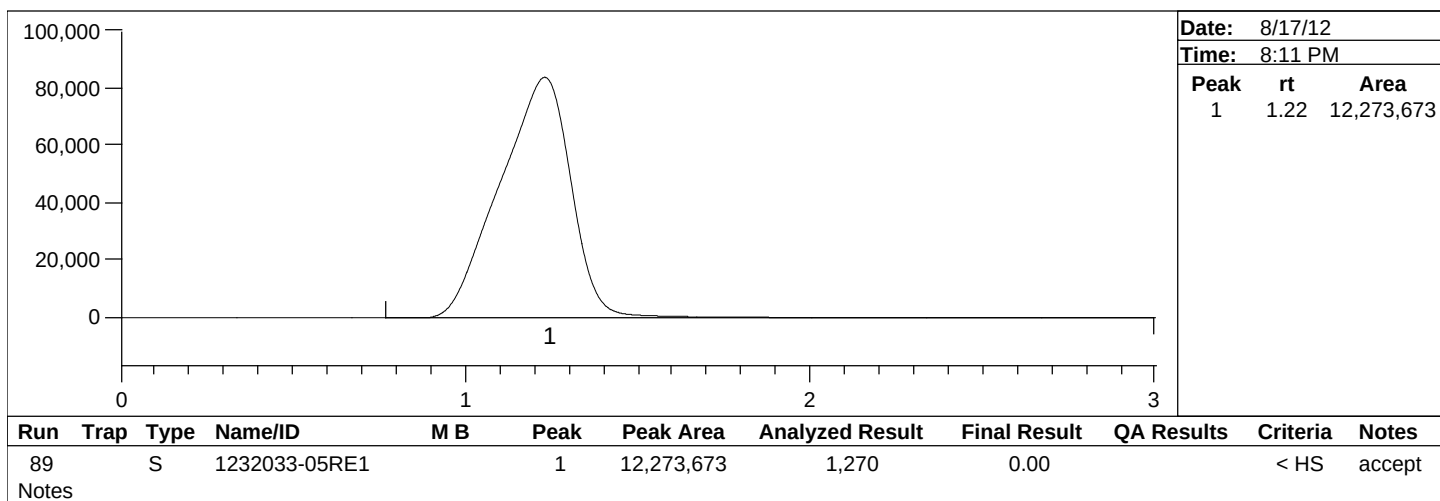
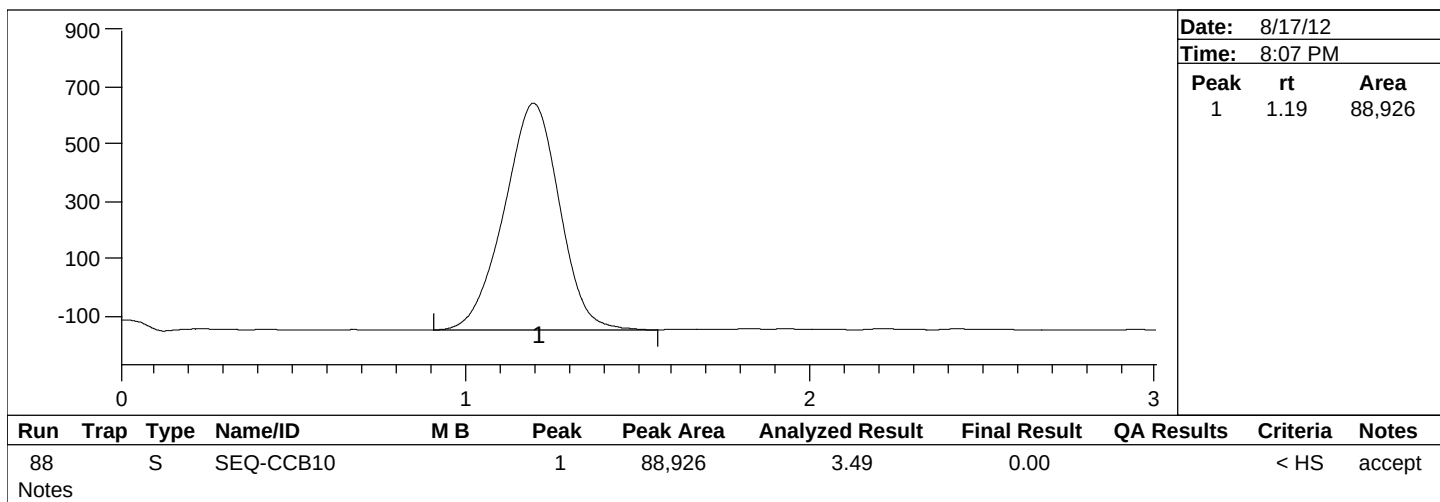
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Project Number(s): 1200642

Instrument ID: THG-05

Date Analyzed: 8/17/12

Analyst Name: MLH

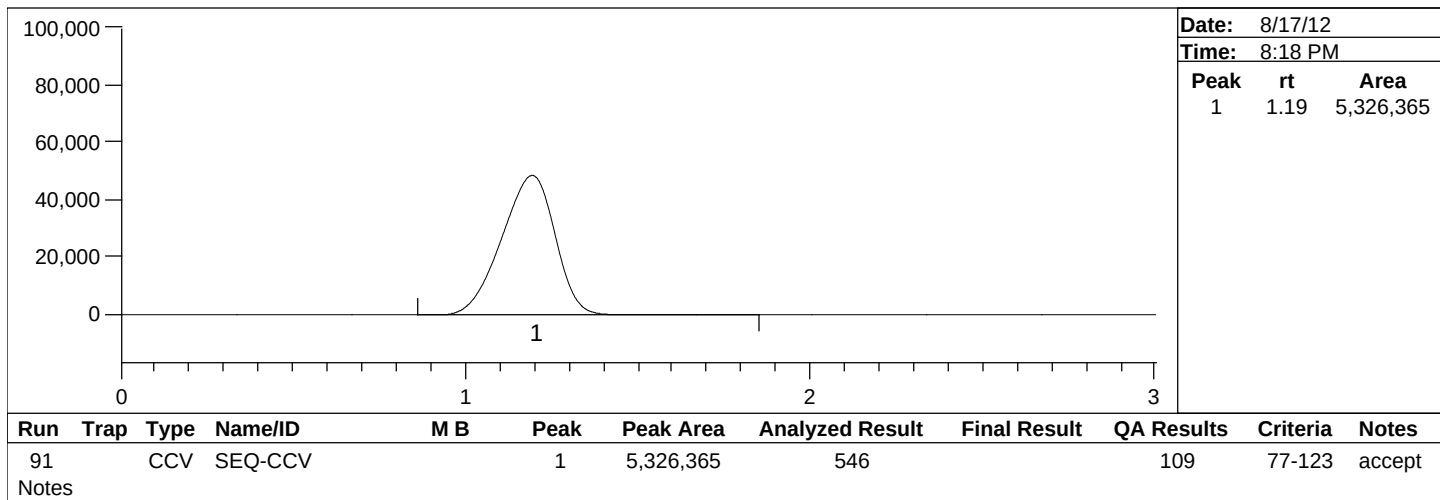


Peak Report

Batch Number: B121451
Method Number: CVAFS BR-0006

Project Number(s): 1200642
Instrument ID: THG-05

Date Analyzed: 8/17/12
Analyst Name: MLH



ANALYSIS SEQUENCE

BRL Report 1232018

Brooks Rand Labs

1200640

Instrument: MMHG-09

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
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1200640-IBL2	1200640	QC	2		-			
1200640-IBL3	1200640	QC	3		-			
1200640-CAL1	1200640	QC	4	1230044	-			
1200640-CAL2	1200640	QC	5	1230045	-			
1200640-CAL3	1200640	QC	6	1230046	-			
1200640-CAL4	1200640	QC	7	1230047	-			
1200640-CAL5	1200640	QC	8	1230048	-			
1200640-CAL6	1200640	QC	9	1230049	-			
1200640-CAL7	1200640	QC	10	1230050	-			
1200640-CCB1	1200640	QC	11		-			
1200640-ICV1	1200640	QC	12	1232002	-			
1200640-CCB2	1200640	QC	13		-			
1200640-CCV1	1200640	QC	14	1230051	-			
1200640-CCB3	1200640	QC	15		-			
1200640-CCB4	1200640	QC	16		-			
1200640-CCB5	1200640	QC	17		-			
B121370-BLK1	B121370	QC	18		-			
B121370-BLK2	B121370	QC	19		-			
B121370-BLK3	B121370	QC	20		-			
B121370-BLK4	B121370	QC	21		-			
B121370-BS1	B121370	QC	22		-			
B121370-BS2	B121370	QC	23		-			
1232008-01	B121370	MeHg-W-Dist-TR	24			EBM-OA1001	8/29/2012	
1232008-01	B121370	MeHg-W-Dist-Diss	25			EBM-OA1001	1/1/1980	BatchQC
B121370-MS1	B121370	QC	26		1232008-01			

ANALYSIS SEQUENCE

BRL Report 1232018

Brooks Rand Labs

1200640

Instrument: MMHG-09

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
B121370-MSD1	B121370	QC	27		1232008-01			
1232009-01	B121370	MeHg-W-Dist-TR	28			EBM-OA1001	8/29/2012	
1232009-01	B121370	MeHg-W-Dist-Diss	29			EBM-OA1001	1/1/1980	BatchQC
1200640-CCV2	1200640	QC	30	1230051	-			
1200640-CCB6	1200640	QC	31		-			
B121370-MS2	B121370	QC	32		1232009-01			
B121370-MSD2	B121370	QC	33		1232009-01			
1232014-01	B121370	MeHg-W-Dist-TR	34			MAX-CA1202	8/20/2012	
1232014-01	B121370	MeHg-W-Dist-Diss	35			MAX-CA1202	1/1/1980	BatchQC
B121370-MS3	B121370	QC	36		1232014-01			
B121370-MSD3	B121370	QC	37		1232014-01			
1232015-01	B121370	MeHg-W-Dist-TR	38			MAX-CA1202	8/20/2012	
1232016-01	B121370	MeHg-W-Dist-TR	39			MAX-CA1201	8/20/2012	
1232016-01	B121370	MeHg-W-Dist-Diss	40			MAX-CA1201	1/1/1980	BatchQC
B121370-MS4	B121370	QC	41		1232016-01			
B121370-MSD4	B121370	QC	42		1232016-01			
1232018-01	B121370	MeHg-W-Dist-Diss	43			DUP002	8/30/2012	
1200640-CCV3	1200640	QC	44	1230051	-			
1200640-CCB7	1200640	QC	45		-			
1232018-02	B121370	MeHg-W-Dist-Diss	46			DUP002	8/30/2012	
1232018-03	B121370	MeHg-W-Dist-Diss	47			DUP002	8/30/2012	
1232018-04	B121370	MeHg-W-Dist-Diss	48			DUP002	8/30/2012	
1232018-05	B121370	MeHg-W-Dist-Diss	49			DUP002	8/30/2012	
1232018-06	B121370	MeHg-W-Dist-Diss	50			DUP002	8/30/2012	
1232018-07	B121370	MeHg-W-Dist-Diss	51			DUP002	8/30/2012	
1232018-08	B121370	MeHg-W-Dist-Diss	52			DUP002	8/30/2012	

ANALYSIS SEQUENCE

BRL Report 1232018

Brooks Rand Labs

1200640

Instrument: MMHG-09

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1232018-09	B121370	MeHg-W-Dist-Diss	53			DUP002	8/30/2012	
1232018-10	B121370	MeHg-W-Dist-Diss	54			DUP002	8/30/2012	
1232018-11	B121370	MeHg-W-Dist-Diss	55			DUP002	8/30/2012	
1200640-CCV4	1200640	QC	56	1230051	-			
1200640-CCB8	1200640	QC	57		-			
1232018-12	B121370	MeHg-W-Dist-Diss	58			DUP002	8/30/2012	
1232018-13	B121370	MeHg-W-Dist-Diss	59			DUP002	8/30/2012	
1232018-14	B121370	MeHg-W-Dist-Diss	60			DUP002	8/30/2012	
1232018-15	B121370	MeHg-W-Dist-Diss	61			DUP002	8/30/2012	
1232018-16	B121370	MeHg-W-Dist-Diss	62			DUP002	8/30/2012	
1232018-17	B121370	MeHg-W-Dist-Diss	63			DUP002	8/30/2012	
1232018-18	B121370	MeHg-W-Dist-Diss	64			DUP002	8/30/2012	
1232018-19	B121370	MeHg-W-Dist-Diss	65			DUP002	8/30/2012	
1232018-20	B121370	MeHg-W-Dist-Diss	66			DUP002	8/30/2012	
1232018-21	B121370	MeHg-W-Dist-Diss	67			DUP002	8/30/2012	
1200640-CCV5	1200640	QC	68	1230051	-			
1200640-CCB9	1200640	QC	69		-			
1232018-22	B121370	MeHg-W-Dist-Diss	70			DUP002	8/30/2012	
1232018-23	B121370	MeHg-W-Dist-Diss	71			DUP002	8/30/2012	
1232018-24	B121370	MeHg-W-Dist-Diss	72			DUP002	8/30/2012	
1226028-67RE1	B121370	MeHg-W-Dist-TR	73			TTI-ST1001	7/24/2012	From B121107 by BJT on 08/14/12
1226028-67RE1	B121107	MeHg-W-Dist-Diss	74			TTI-ST1001	1/1/1980	Added 8/20/2012 by ATC
B121370-DUP1	B121370	QC	75		1226028-67RE1			
1226028-70RE1	B121370	MeHg-W-Dist-TR	76			TTI-ST1001	7/24/2012	From B121107 by BJT on 08/14/12
B121370-DUP2	B121370	QC	77		1226028-70RE1			
1200640-CCV6	1200640	QC	78	1230051	-			

ANALYSIS SEQUENCE

BRL Report 1232018

Brooks Rand Labs

1200640

Instrument: MMHG-09

Lab Number	Batch #	Analysis	Order	STD ID	Source ID	BRL Project #	Due	Comments
1200640-CCBA	1200640	QC	79		-			
B121431-BLK1	B121431	QC	80		-			
B121431-BLK2	B121431	QC	81		-			
B121431-BLK3	B121431	QC	82		-			
B121431-BLK4	B121431	QC	83		-			
B121431-SRM1	B121431	QC	84		-			
1232027-01	B121431	MeHg-S-MeCl	85			IAG-HW1001	8/31/2012	Regulated Soils
1232027-02	B121431	MeHg-S-MeCl	86			IAG-HW1001	8/31/2012	Regulated Soils
1232027-03	B121431	MeHg-S-MeCl	87			IAG-HW1001	8/31/2012	Regulated Soils
B121431-DUP1	B121431	QC	88		1232027-03			
B121431-MS1	B121431	QC	89		1232027-03			
1200640-CCV7	1200640	QC	90	1230051	-			
1200640-CCBB	1200640	QC	91		-			
B121431-MSD1	B121431	QC	92		1232027-03			
1232027-04	B121431	MeHg-S-MeCl	93			IAG-HW1001	8/31/2012	Regulated Soils
1232027-06	B121431	MeHg-S-MeCl	94			IAG-HW1001	8/31/2012	Regulated Soils
1232027-07	B121431	MeHg-S-MeCl	95			IAG-HW1001	8/31/2012	Regulated Soils
1232028-01	B121431	MeHg-S-MeCl	96			SFE-OA1201	8/31/2012	
1200640-CCV8	1200640	QC	97	1230051	-			
1200640-CCBC	1200640	QC	98		-			

MeHg-Autoanalyzer Analysis Sheet

Page 1 of 5

Sequence: 1200640Batch: B121310, 1338, 1336431 ^{# 8-20-12} Analyst: BJTInstrument ID # MMHg-09Standards: 1 ng/mL: 12300150.01 ng/mL: 1230018Date: 8-17-12Buffer: 1227054NaBEt₄: 1227048/1233072ICV: 1232001

	Run/ Vial Position	Sample ID	Analyzed volume	Dilution Factor	Comments
	1	EB-1	---		NaBEt ₄ ID and time out:
	2	EB-2	---		
	3	EB-3	---		
	4	IBL1 M	---		
	5	IBL2	---		
	6	IBL3	---		
	7	0.5 pg	0.050		0.01 ng/mL
	8	1 pg	0.100		0.01 ng/mL
	9	2 pg	0.200		0.01 ng/mL
	10	10 pg	1.00		0.01 ng/mL
	11	50 pg	0.050		1.0 ng/mL
	12	250 pg	0.250		1.0 ng/mL
	13	1000 pg	1.00		1.0 ng/mL
	14	CCB	---		
	15	ICV	0.100		1.0 ng/mL MeHgOH
	16	CCB	---		
	17	CCV	0.025		1.0 ng/mL
	18	CCB	---		
	19	CCB	---		
	20	CCB	---		
	21	B121370-BLK1	27.10		
	22	-BLK2	27.41		
	23	-BLK3	27.09		
	24	-BLK4	26.93		

Comments: M. modified peak - peak not called out.Balance ID / Pipette ID used for sample vol (if applicable): BL-02, DH98868, V34974

MeHg-Autoanalyzer Analysis Sheet

BRL Report 1232018

Page 2 of 5

Sequence: 1200640

Analyst: BJT

Date: 8-17-12

Run/ Vial Position	Sample ID	Analyzed volume	Dilution Factor	Comments NaBEt ₄ ID and time out
25	B121370-BS1	25.96		
26	↓ BS2	25.72		
27	1232008-01	27.16		
28	B121370-MS1	26.75		
29	↓ MSD1	26.34		
30	1232009-01	26.83		
31	CUV	0.0250		1ng/mL
32	CUV	—		
33	B121370MS2	26.47		
34	↓ MSD2	27.39		
35	1232014-01	26.50		
36	B121370-MS3	25.69		
37	↓ MSD3	26.42		
38	1232015-01	25.75		
39	1232016-01	26.02		2x buffer
40	B121370MS4	25.69		↓
41	↓ MSD4	20.184 ^{8/17/12} _{46/2}		
42	1232018-01	26.01		
43	CUV	0.0250		1ng/mL
44	CUV	—		
45	1232018-02	27.01		
46	↓ -03	26.61		
47	↓ -04	26.13		
48	↓ -05	24.37		

Comments:

MeHg-Autoanalyzer Analysis Sheet

BRL Report 1232018

Page 3 of 5

Sequence: 1200640

Analyst: BJT

Date: 8-17-12

Run/ Vial Position	Sample ID	Analyzed volume	Dilution Factor	Comments NaBEt ₄ ID and time out
49	1232018-06	26.45		
50	↓ 07	26.99		
51	08	25.58		
52	↓ 09	26.13		
53	10	25.68		
54	↓ 11	26.89		
55	CCV	0.025		1 ng/mL
56	CCB	—		
57	1232018-12	26.49		
58	↓ 13	26.50		
59	14	26.07		
60	↓ 15	26.65		
61	16	25.84		
62	↓ 17	26.64		
63	18	26.54		
64	↓ 19	26.05		
65	20	25.29		
66	↓ 21	25.50		
67	CCV	0.025		1 ng/mL
68	CCB	—		
69	1232018-22	25.31		
70	↓ 23	27.09		
71	24	25.94		
72	1226028-67REF	23.88		

Comments:

MeHg-Autoanalyzer Analysis Sheet

Sequence: 1200640

Analyst: BJT

Date: 8.17.12

	Run/ Vial Position	Sample ID	Analyzed volume	Dilution Factor	Comments NaBEt ₄ ID and time out
	73	B121370 DUP1	26.55		
	74	1232028-TOKE1	26.22		
75	~~75~~	B121370 DUP2	25.63		
	76	CV	0.025		1 ^{ng} /mL
	77	CB	—		
	78	B121431 BUK1	5.00		
	79	BUK2	↓		
	80	BUK3	↓		
	81	BUK4	↓		
	82	↓ SRM1	↓		
	83	1232027-01			
	84	↓ 02			
	85	↓ -03			
	86	B121431-DUP1			
	87	↓ MS1	↓		
	88	CCV	0.025		1 ^{ng} /mL
	89	CCB	—		
	90	B121431 MSD1	5.00		
	91	1232027-04	↓		
	92	↓ -06	↓		
	93	↓ -07	↓		
	94	1232028-01	↓		
	95	CV	0.025		1 ^{ng} /mL
	96	CB	—		

Comments:

MeHg-Autoanalyzer Analysis Sheet

BRL Report 1232018

Page 5 of 5

Sequence: 1200640

Analyst: BJT

Date: 8/17/12

Run/ Vial Position	Sample ID	Analyzed volume	Dilution Factor	Comments NaBet ₄ ID and time out
97	1ng/mL OLDA	0.025		
98	↓ B			
99	↓ C			
100	↓ MEWA			
101	↓ B			
102	↓ C			
103	10ng/mL OLDA			
104	↓ B			
105	↓ C			
106	↓ MEWA			
107	↓ B			
108	↓ C			
8/20/12 BJT				

Comments: _____

Brooks Rand Labs

MMHg Water Prep Benchsheet

Prepped By: AAP
Prep Date: 8-14-12SOP/Rev #: BR-0011/930
Batch: B121370

Sample ID	Sample Mass (g)	Slot #	Time On	Time Off	pH	Sample ID	Sample Mass (g)	Slot #	Time On	Time Off	pH
1232008-01	50.065	1	1130	1355	3.5	1232018-21	49.587	26	1220	1559	3.5
1232009-01	50.980	2		1440		1232018-22	49.226	27		1520	↓
1232014-01	49.854	3		1324		1232018-23	50.210	28		1514	3.5
1232015-01	49.986	4		1411		1232018-24	46.636	29		1520	↓
1232016-01	50.205	5		1316	2.5	1226028-67RE1	49.190	31	1308	1514	3.5
1232018-01	49.371	6	8:14:12 AAP	1355	3	1226028-70RE1	50.020	30	1220	1456	3.5
1232018-02	47.105	7		1339	3.5	B121370-BLK1	50.023	32	1308	1537	↓
1232018-03	47.246	8		1449		B121370-BLK2	49.344	33		1514	3.5
1232018-04	47.929	9		1456		B121370-BLK3	50.052	34		1520	↓
1232018-05	45.712	10			↓	B121370-BLK4	50.432	35		1514	3.5
1232018-06	48.929	11	1148	1358	3.5	B121370-BS1	49.506	36		1559	↓
1232018-07	48.670	12		1424		B121370-BS2	50.353	37		1514	3.5
1232018-08	50.419	13		1358		B121370-DUP1	49.217	38		1559	↓
1232018-09	44.805	14		1411		B121370-DUP2	49.801	39			↓
1232018-10	49.258	15		1456	↓	B121370-MS1	50.641	40		1514	3
1232018-11	46.008	16		1424	3.5	B121370-MS2	49.255	41	1322	1520	3.5
1232018-12	49.286	17		1424	3	B121370-MS3	49.899	42		1514	3.5
1232018-13	46.995	18		1411	3.5	B121370-MS4	50.313	43		1537	2
1232018-14	47.746	19		1456	↓	B121370-MSD1	50.024	44		1559	3.5
1232018-15	46.685	20		1424	3.5	B121370-MSD2	50.032	45		1520	3.5
1232018-16	46.639	21	1220	1537		B121370-MSD3	49.878	46		1514	3.5
1232018-17	49.371	22		1520		B121370-MSD4	49.391	47			2
1232018-18	49.842	23									
1232018-19	49.431	24									
1232018-20	47.083	25									

Batch QC ID	Source	Spike vol. (uL)	Spike conc. (ng/mL)	Spike ID	Spike Witness	Reagent	ID
DUP 1	1226028-67	-	-	-	-	0.5 mL H2SO4	1230035
DUP 2	1226028-70	-	-	-	-	0.2 mL KCL/ L-cysteine	1230036
BS 1/2	N/A	50	1	1230015	8/14/12 AAP	HCl	1227040
MS/D 1	1232008-01	22055				Hot Block Temp	138°C
MS/D 2	1232009-01	55				Final Dilution Vol	58mL
MS/D 3	1232014-01	480				Balance ID	BL-07
MS/D 4	1232016-01	40					

1232014-01 - sediment, brown sample
 1232015-01
 1232016-01

⊕ = sample exhausted

Peak Report

Batch Number: B121370, 1338, 1336, 1431

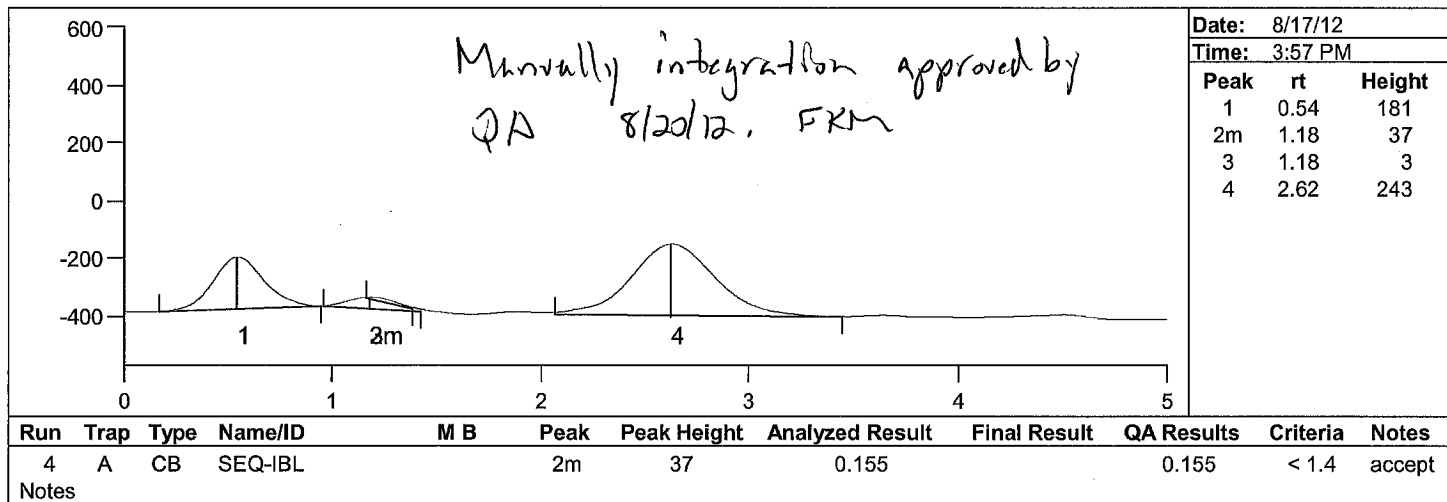
Method Number: CVAFS BR-0011

Project Number(s): 1200640

Instrument ID: MMHG-09

Date Analyzed: 8/17/12

Analyst Name: BJT



Peak Report

Batch Number: B121370, 1338, 1336, 1431

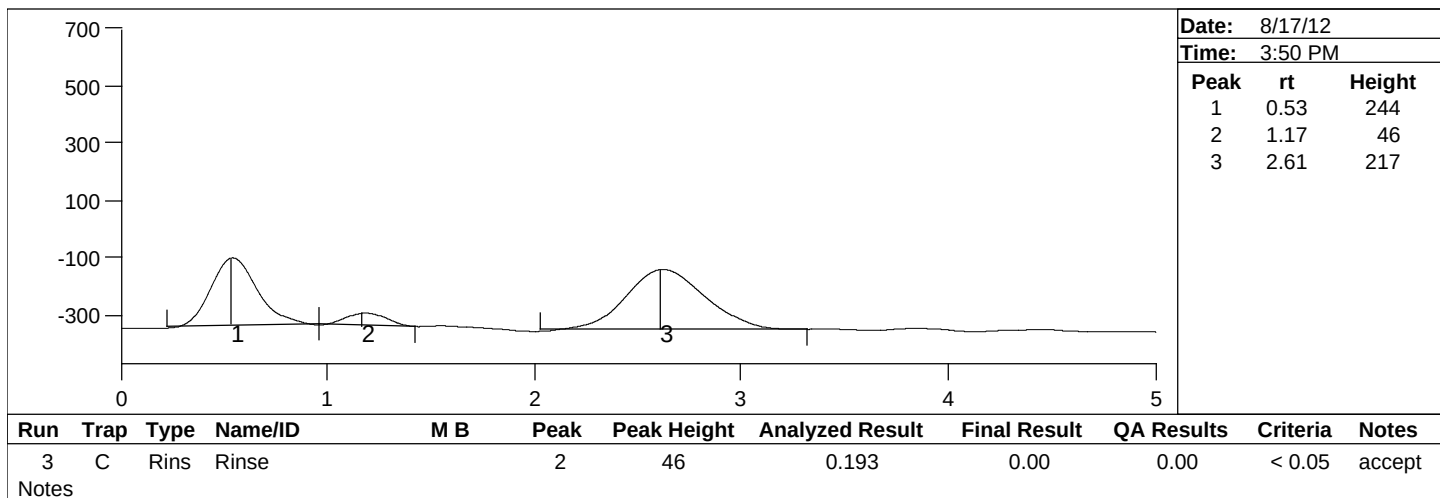
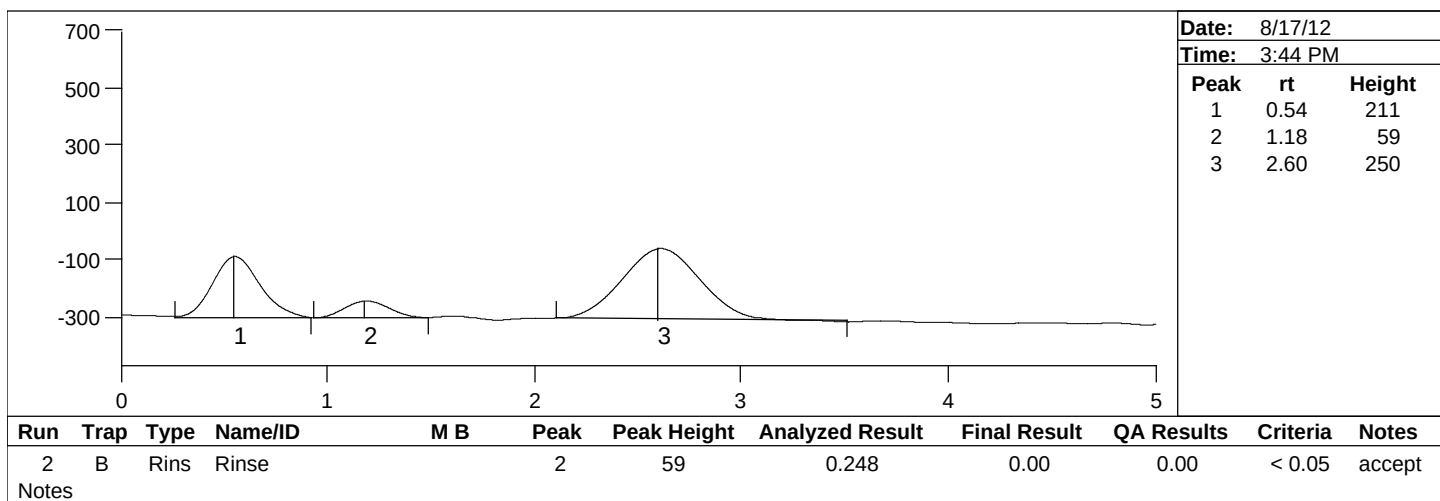
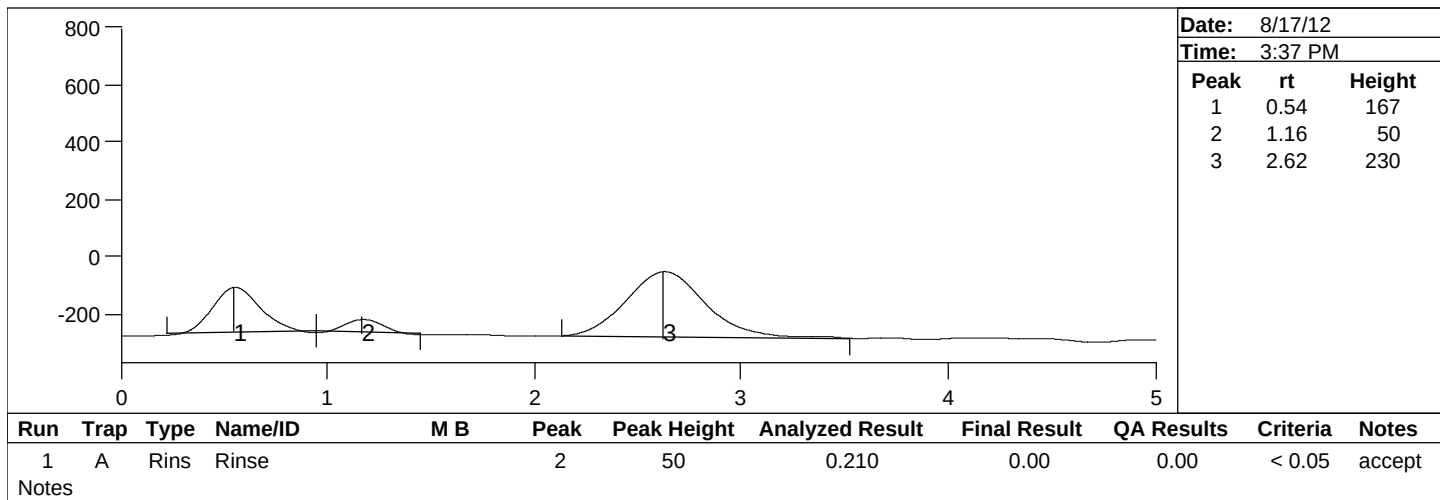
Method Number: CVAFS BR-0011

Project Number(s): 1200640

Instrument ID: MMHG-09

Date Analyzed: 8/17/12

Analyst Name: BJT



Peak Report

Batch Number: B121370, 1338, 1336, 1431

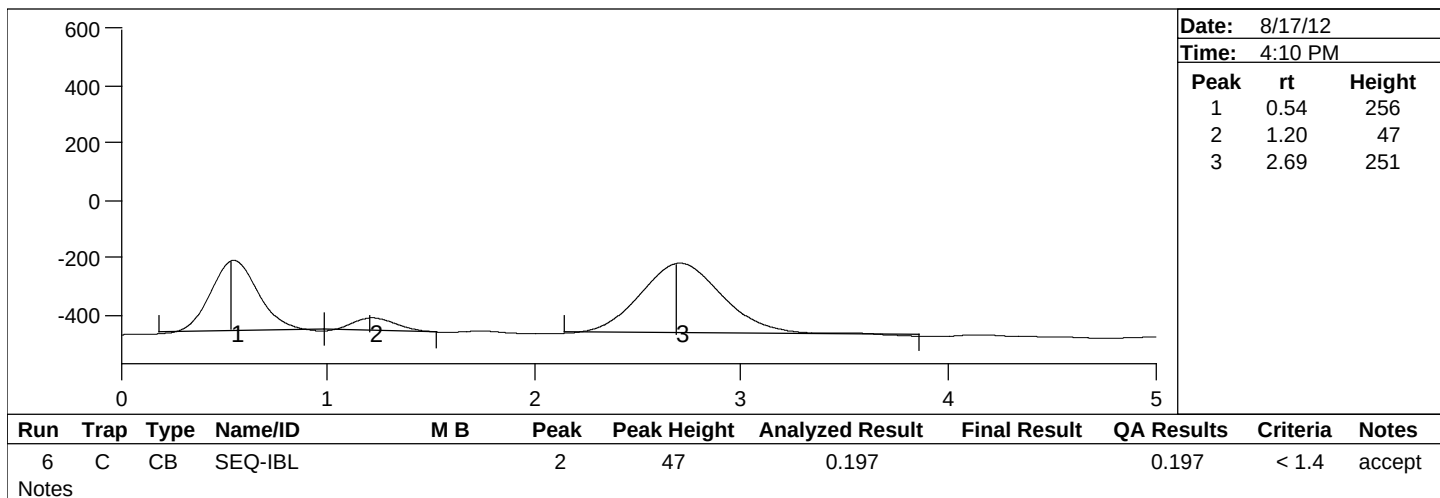
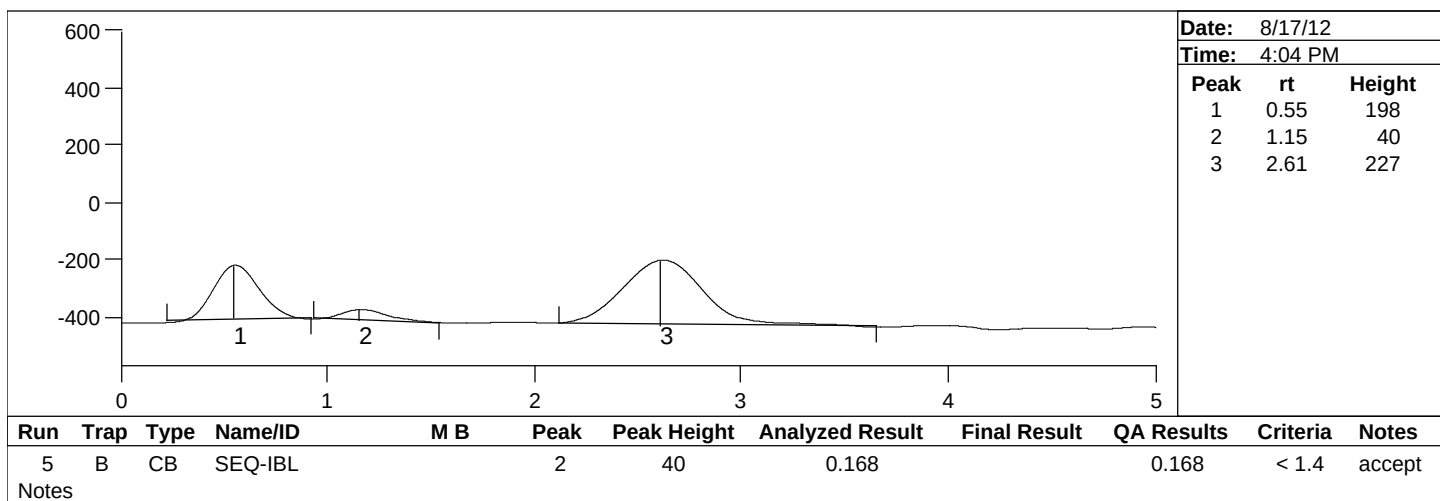
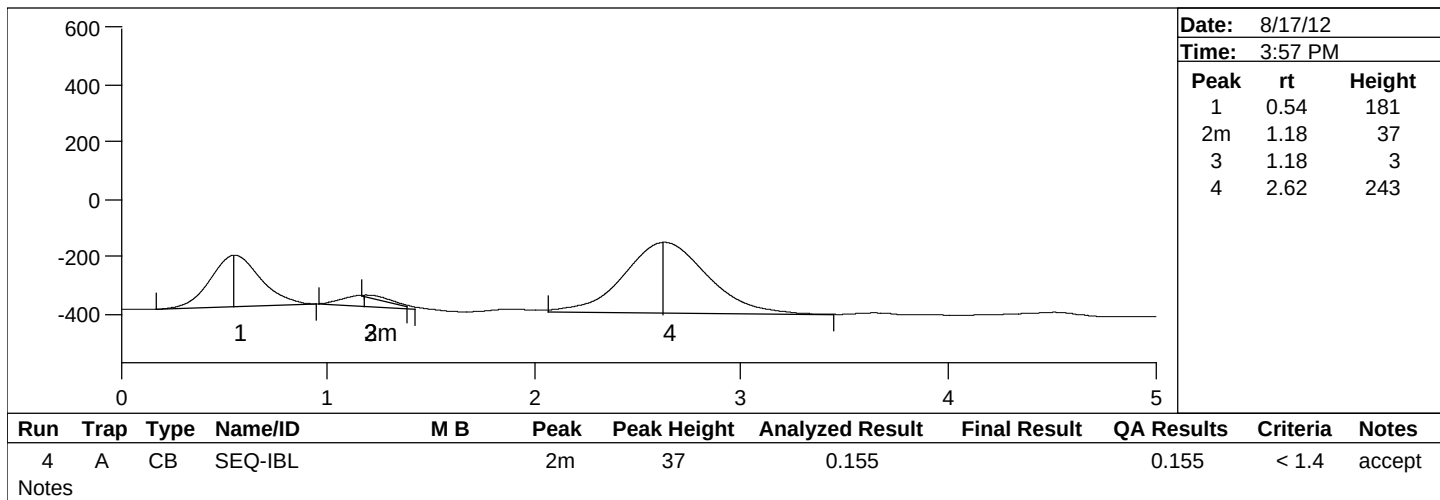
Method Number: CVAFS BR-0011

Project Number(s): 1200640

Instrument ID: MMHG-09

Date Analyzed: 8/17/12

Analyst Name: BJT



Peak Report

Batch Number: B121370, 1338, 1336, 1431

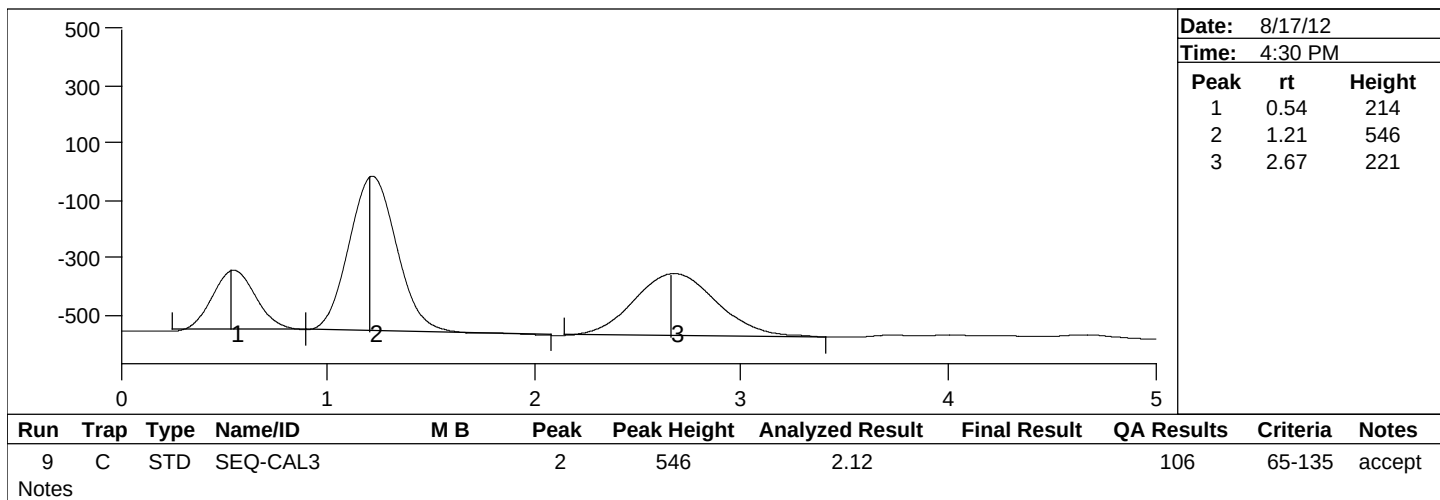
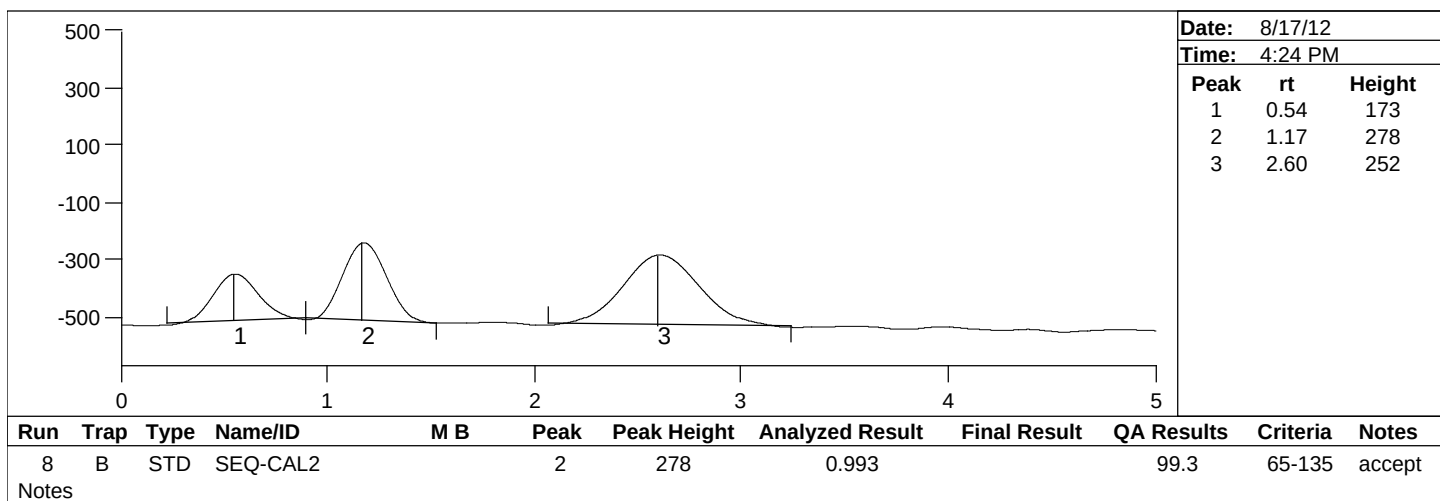
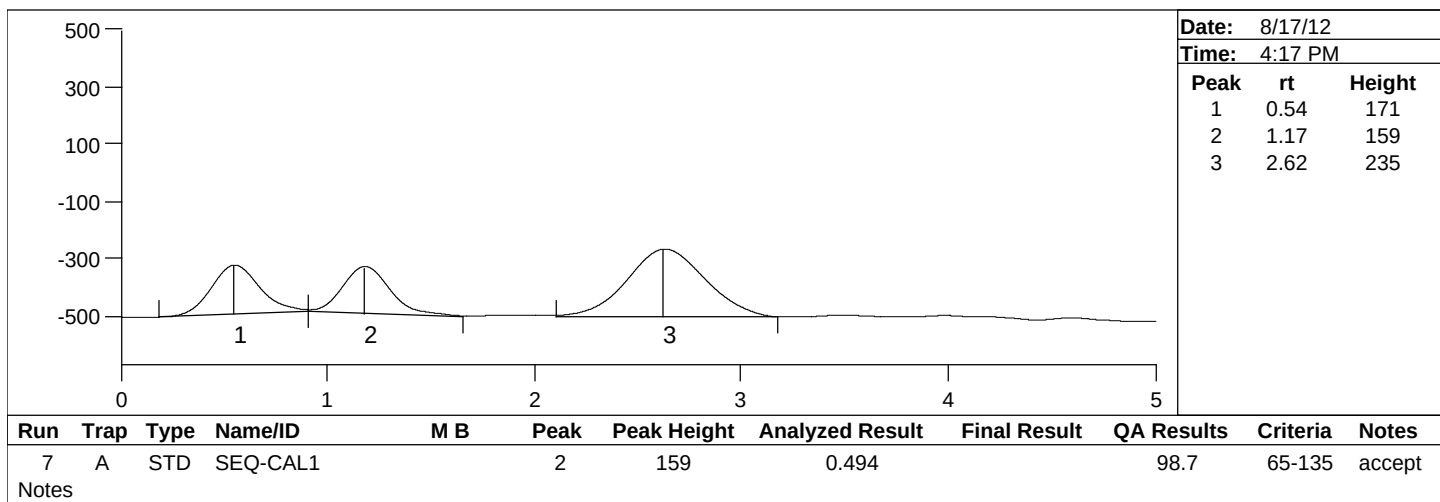
Method Number: CVAFS BR-0011

Project Number(s): 1200640

Instrument ID: MMHG-09

Date Analyzed: 8/17/12

Analyst Name: BJT



Peak Report

Batch Number: B121370, 1338, 1336, 1431

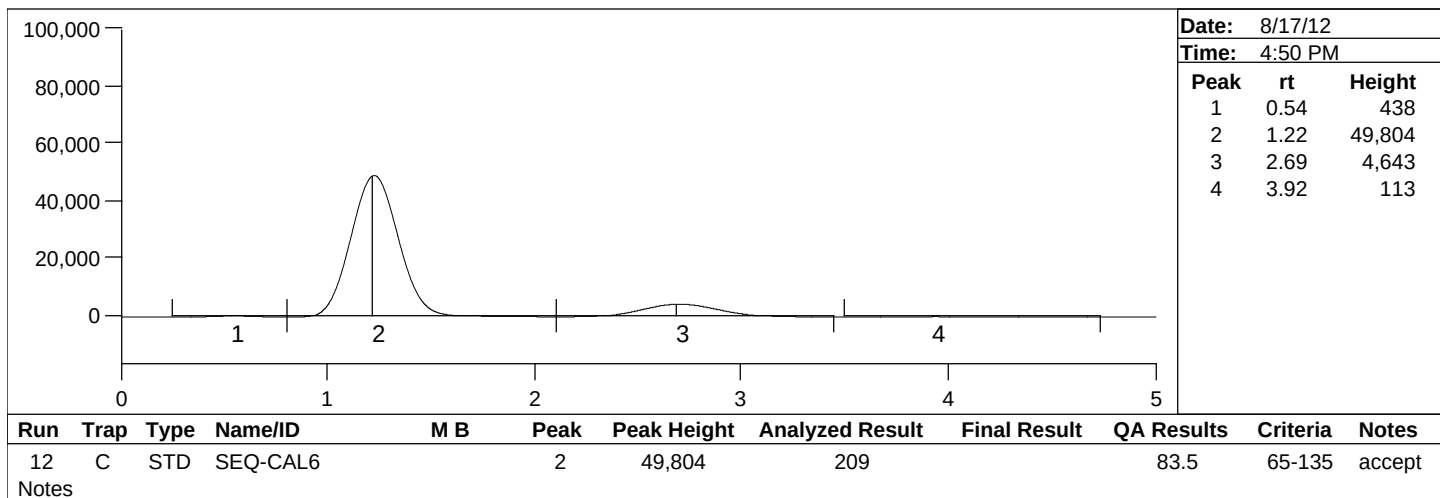
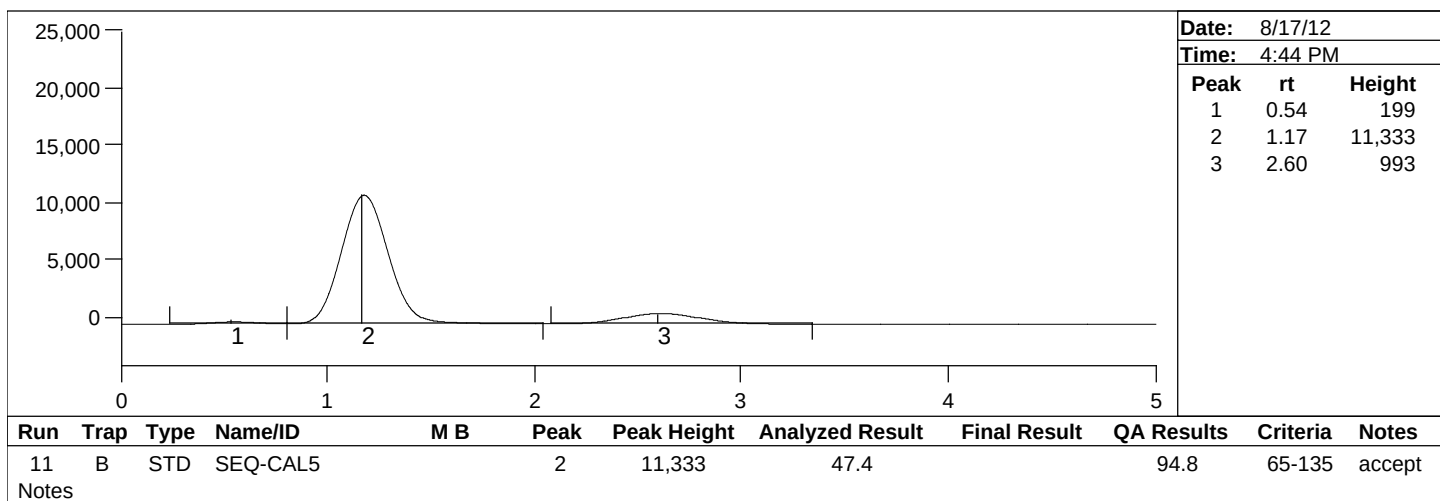
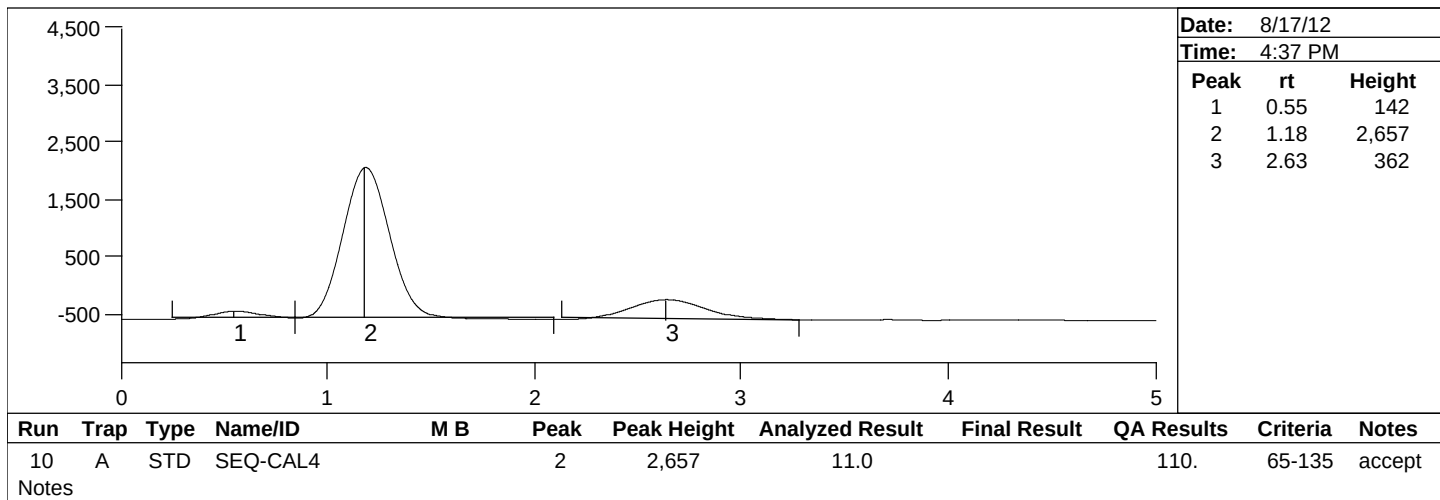
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Project Number(s): 1200640

Instrument ID: MMHG-09

Date Analyzed: 8/17/12

Analyst Name: BJT



Peak Report

Batch Number: B121370, 1338, 1336, 1431

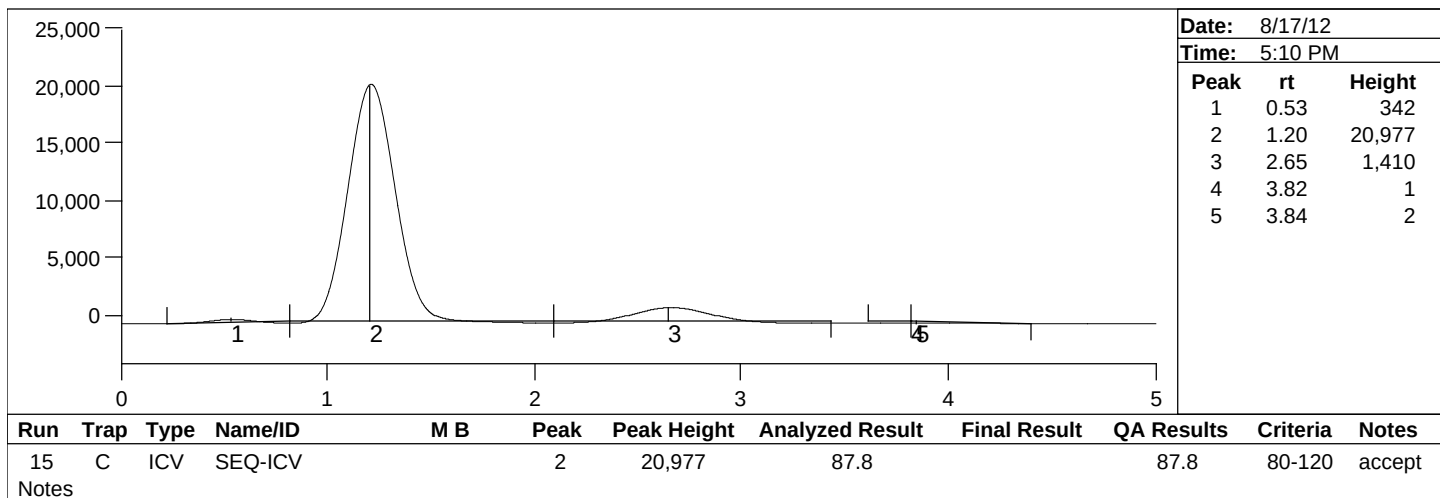
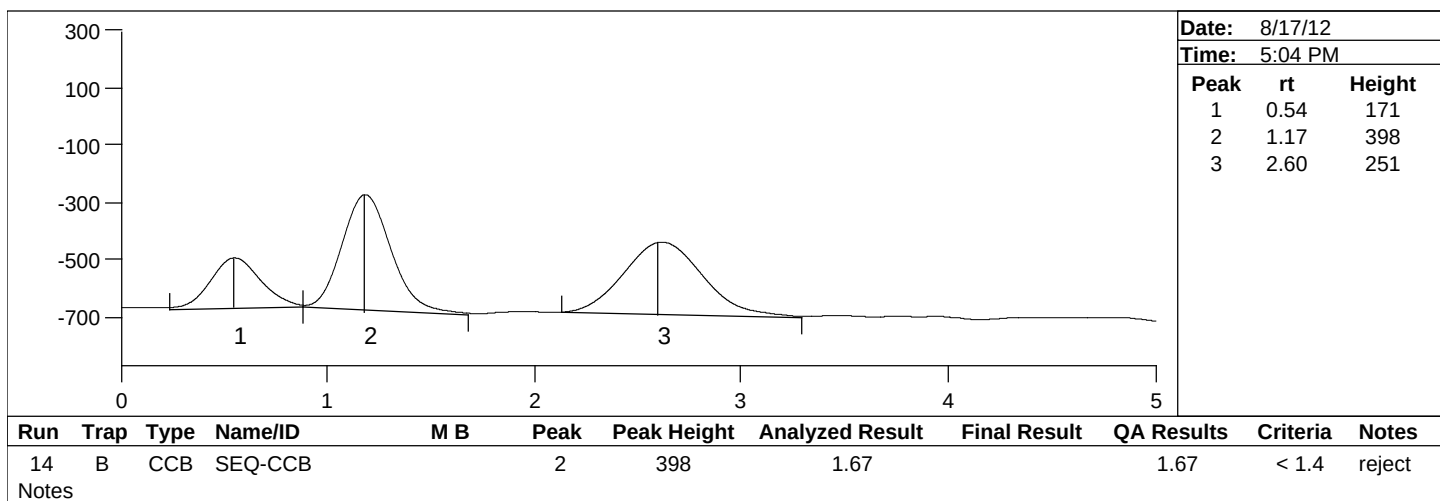
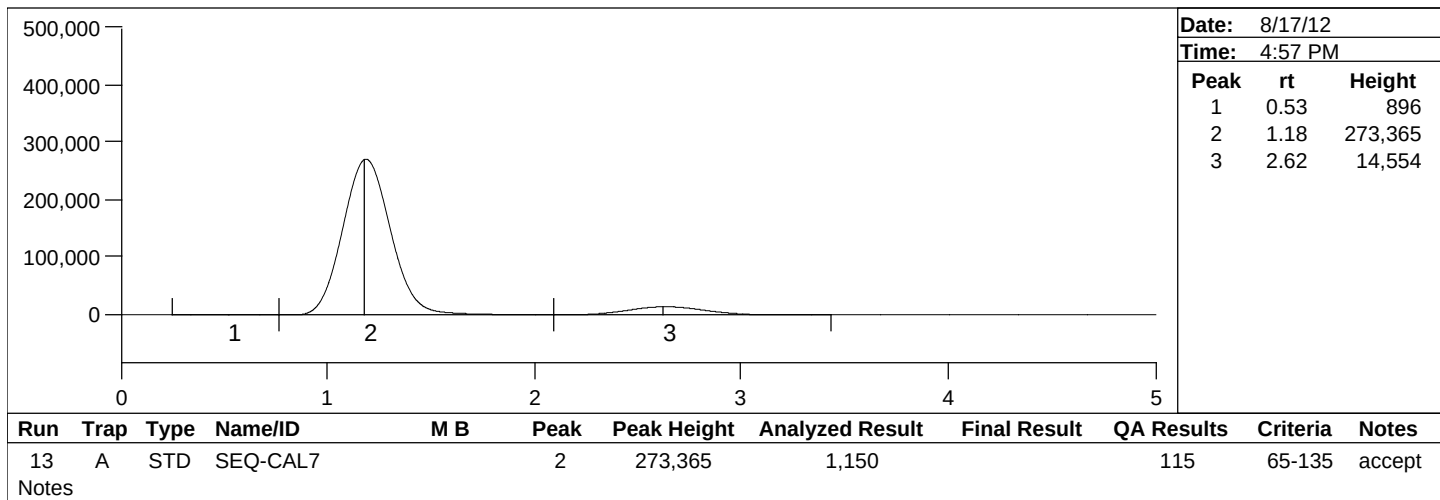
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Project Number(s): 1200640

Instrument ID: MMHG-09

Date Analyzed: 8/17/12

Analyst Name: BJT



Peak Report

Batch Number: B121370, 1338, 1336, 1431

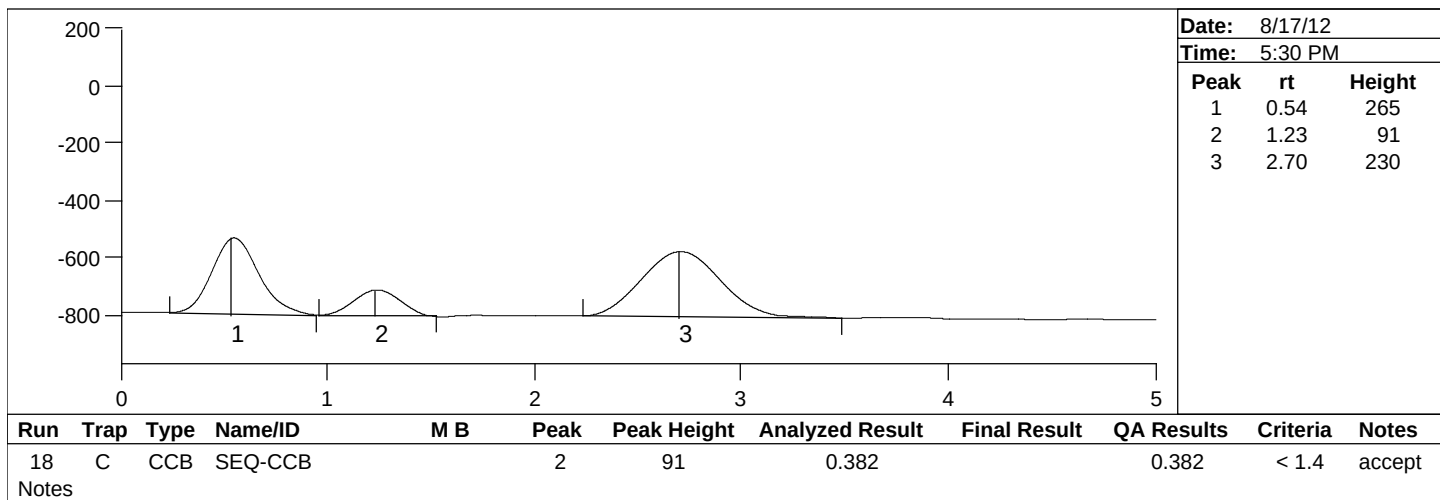
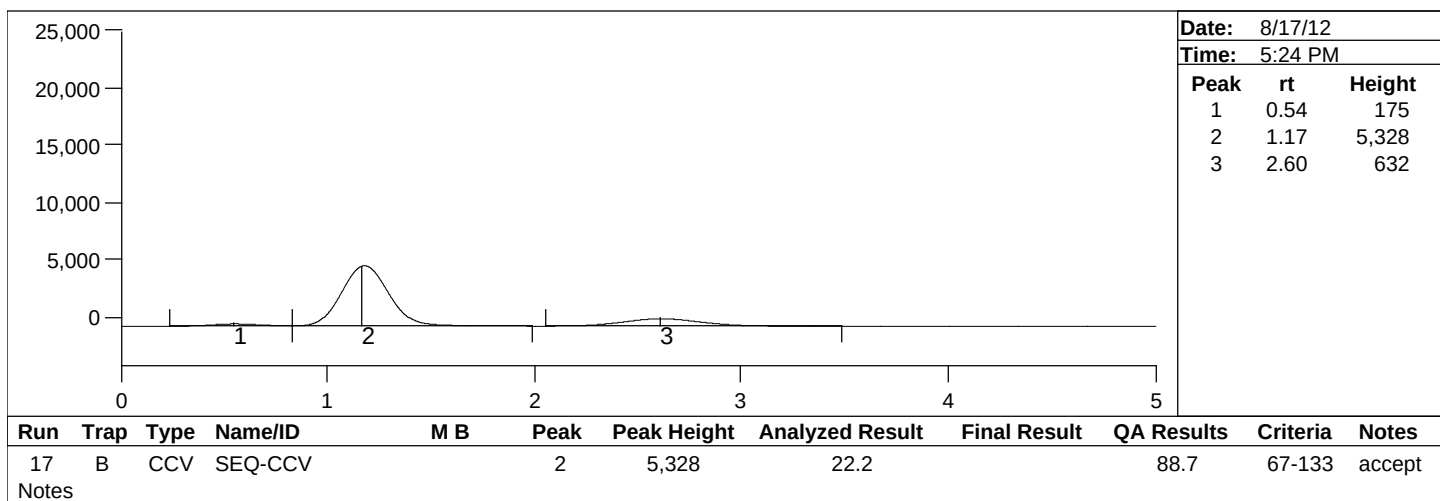
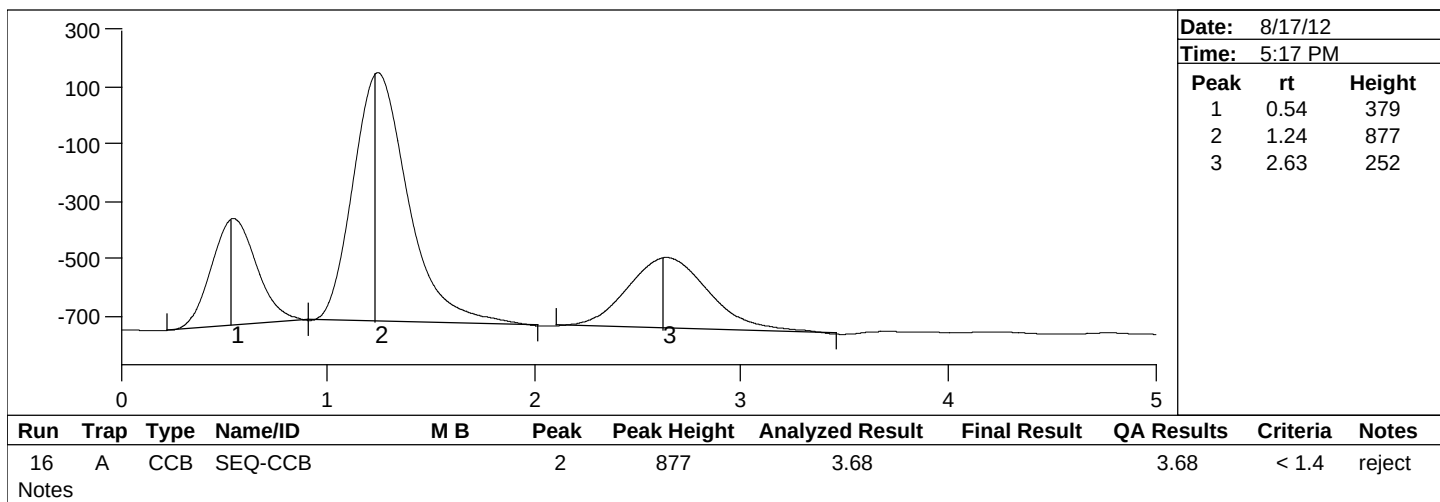
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Project Number(s): 1200640

Instrument ID: MMHG-09

Date Analyzed: 8/17/12

Analyst Name: BJT



Peak Report

Batch Number: B121370, 1338, 1336, 1431

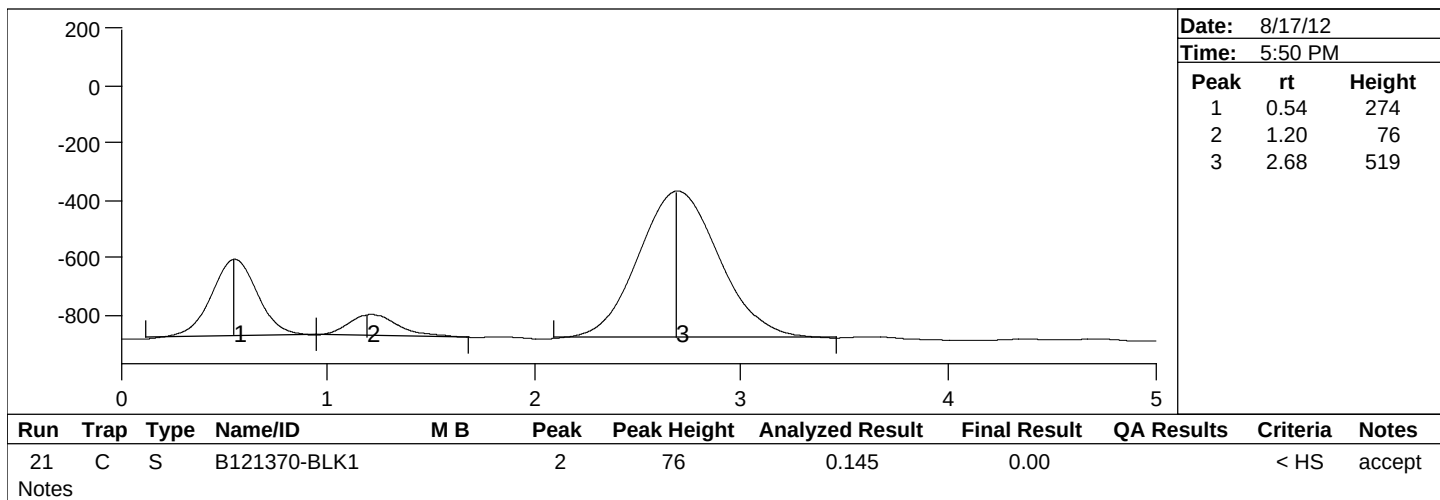
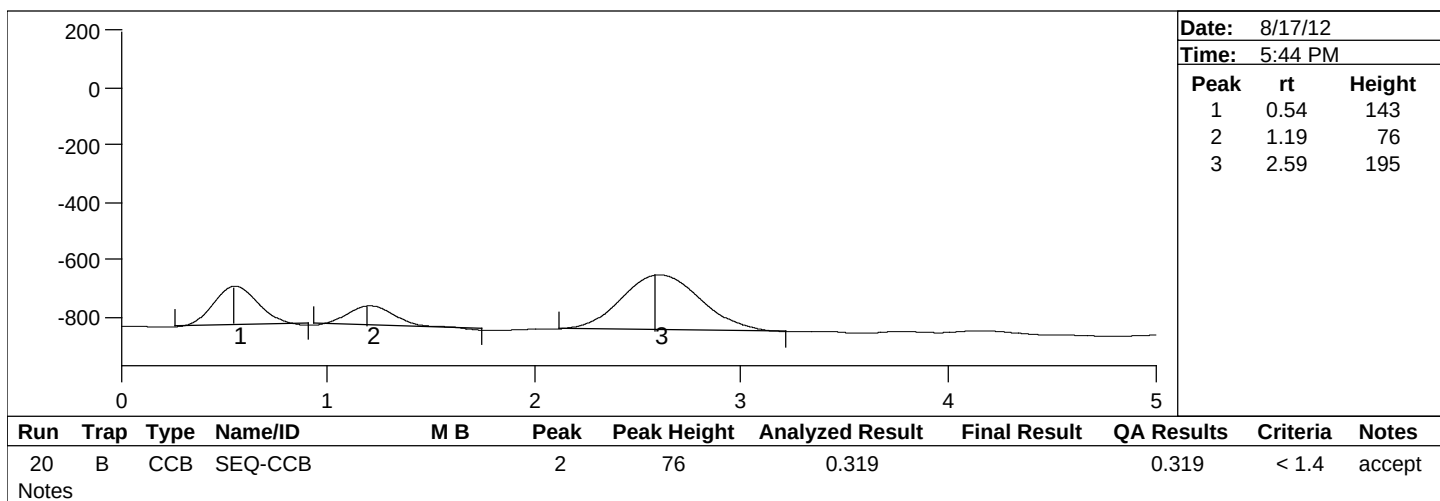
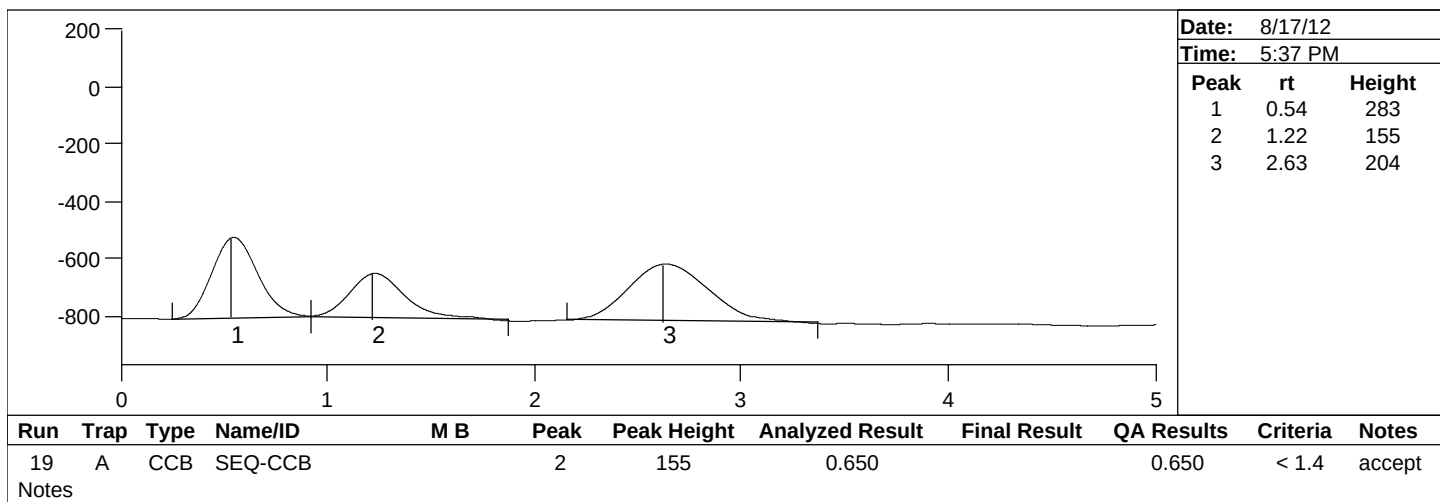
Method Number: CVAFS BR-0011

Project Number(s): 1200640

Instrument ID: MMHG-09

Date Analyzed: 8/17/12

Analyst Name: BJT



Peak Report

Batch Number: B121370, 1338, 1336, 1431

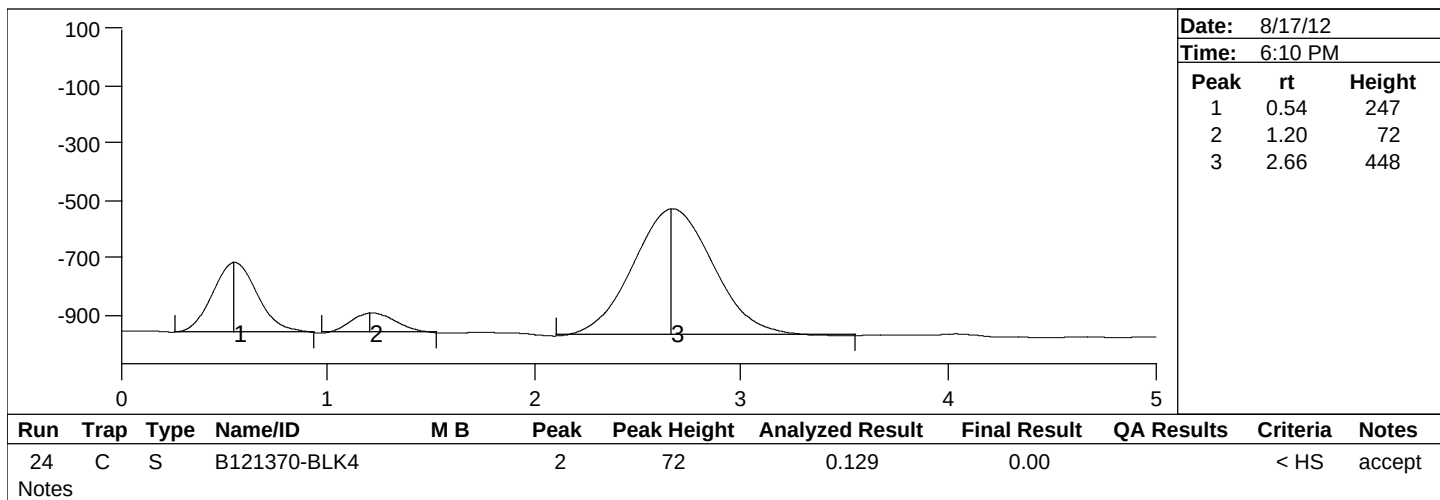
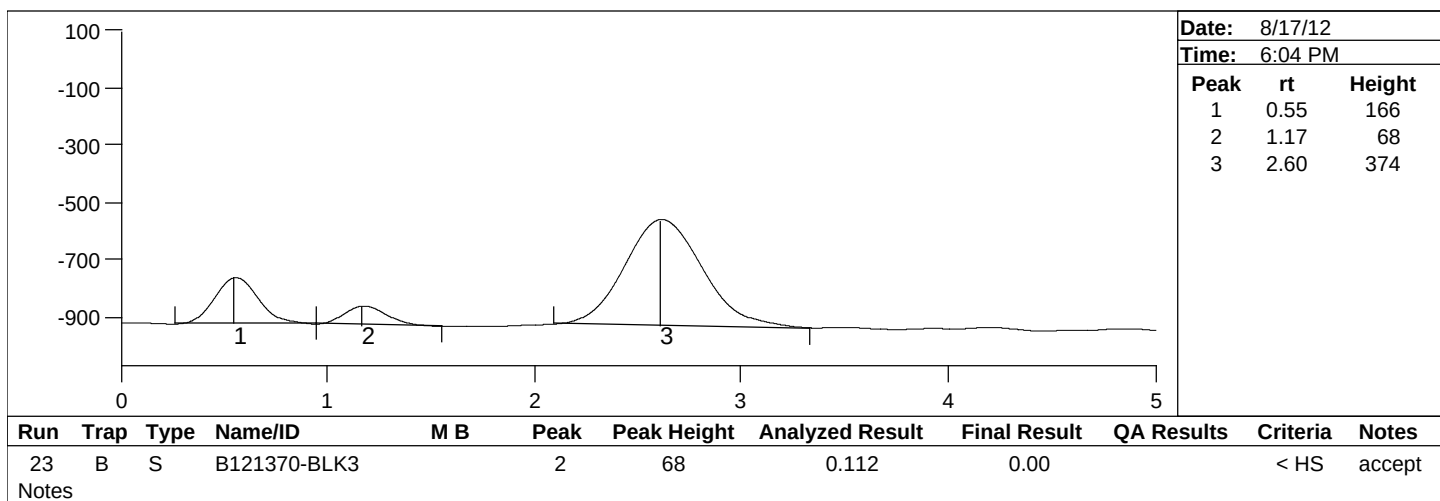
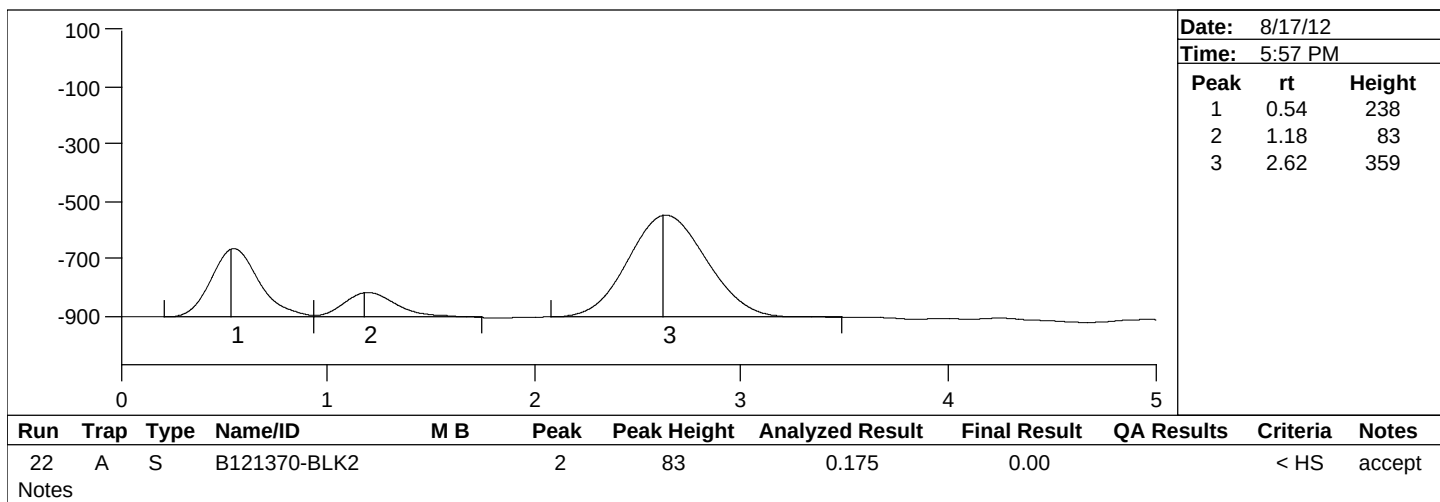
Method Number: CVAFS BR-0011

Project Number(s): 1200640

Instrument ID: MMHG-09

Date Analyzed: 8/17/12

Analyst Name: BJT



Peak Report

Batch Number: B121370, 1338, 1336, 1431

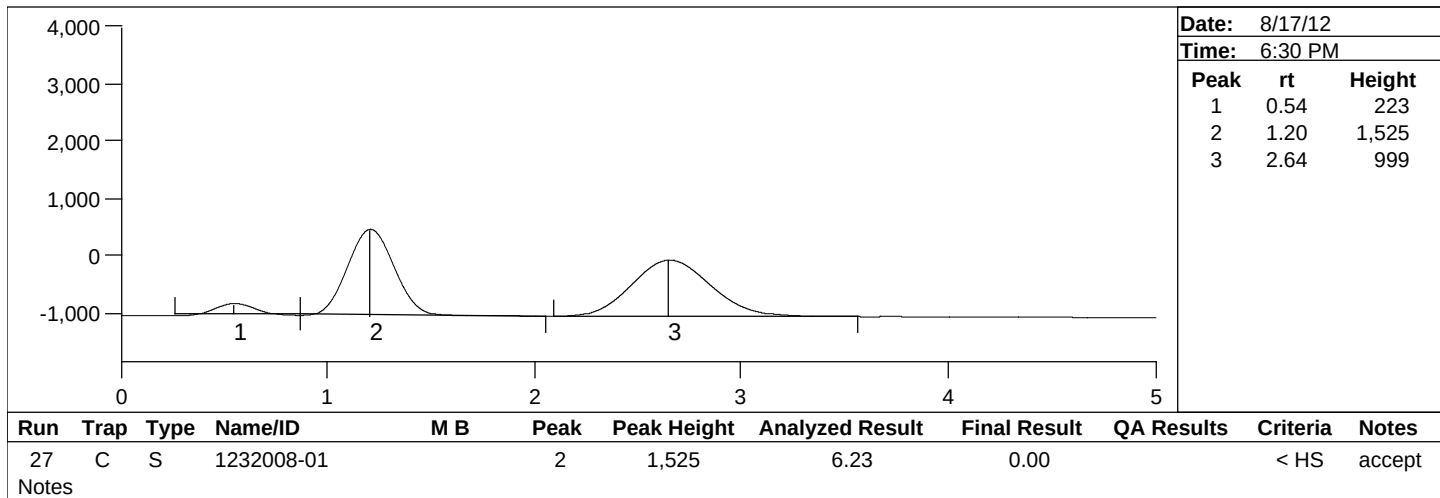
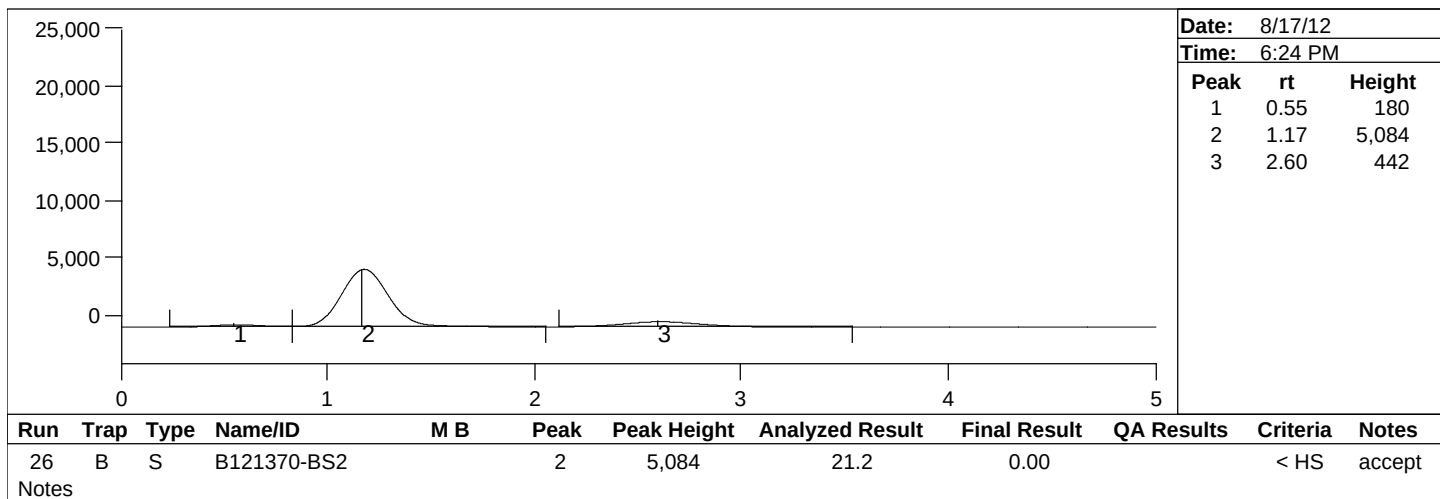
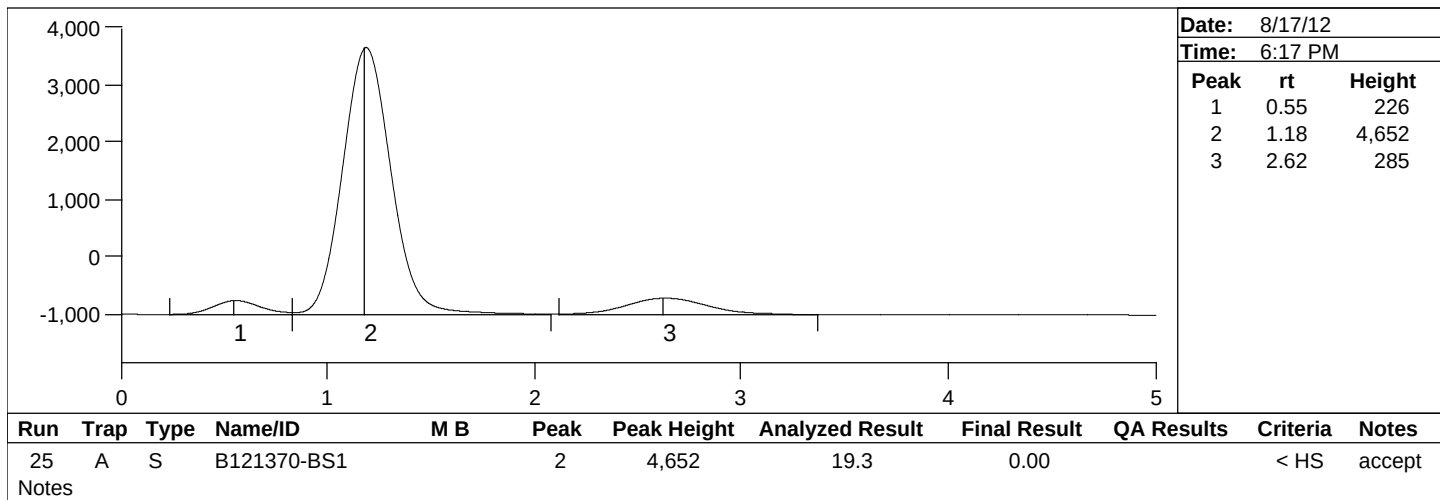
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Analyst Name: BJT



Peak Report

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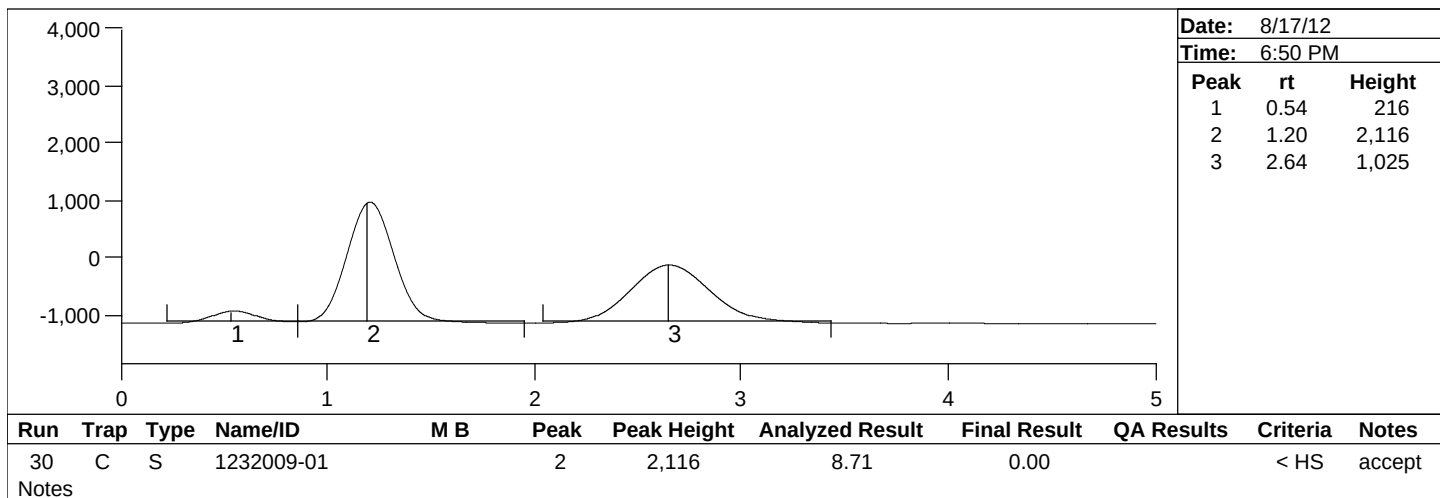
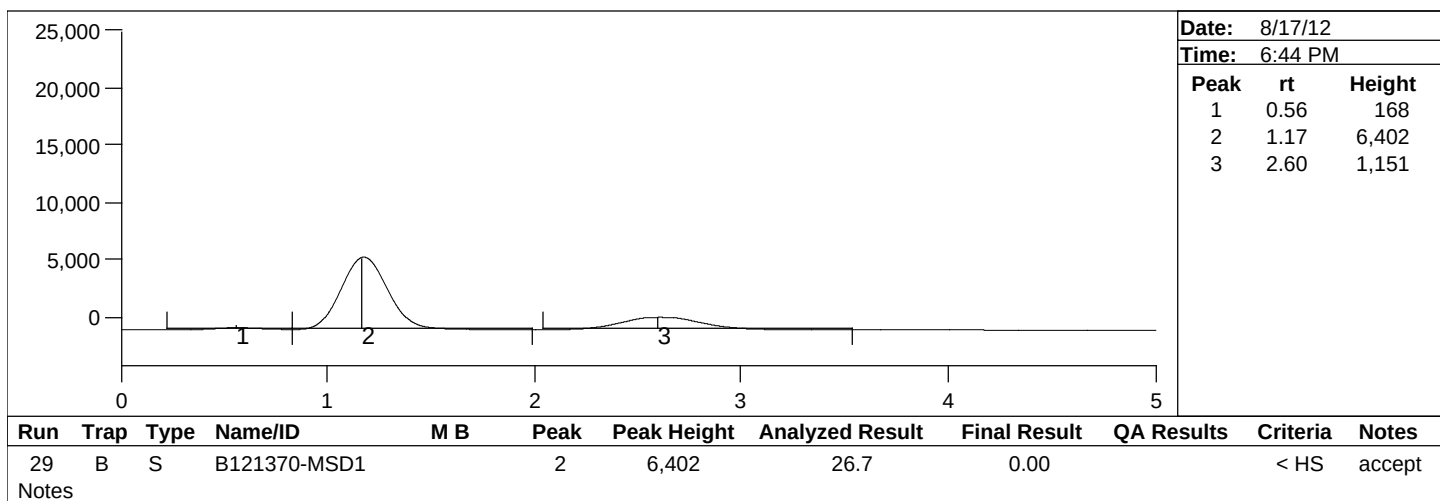
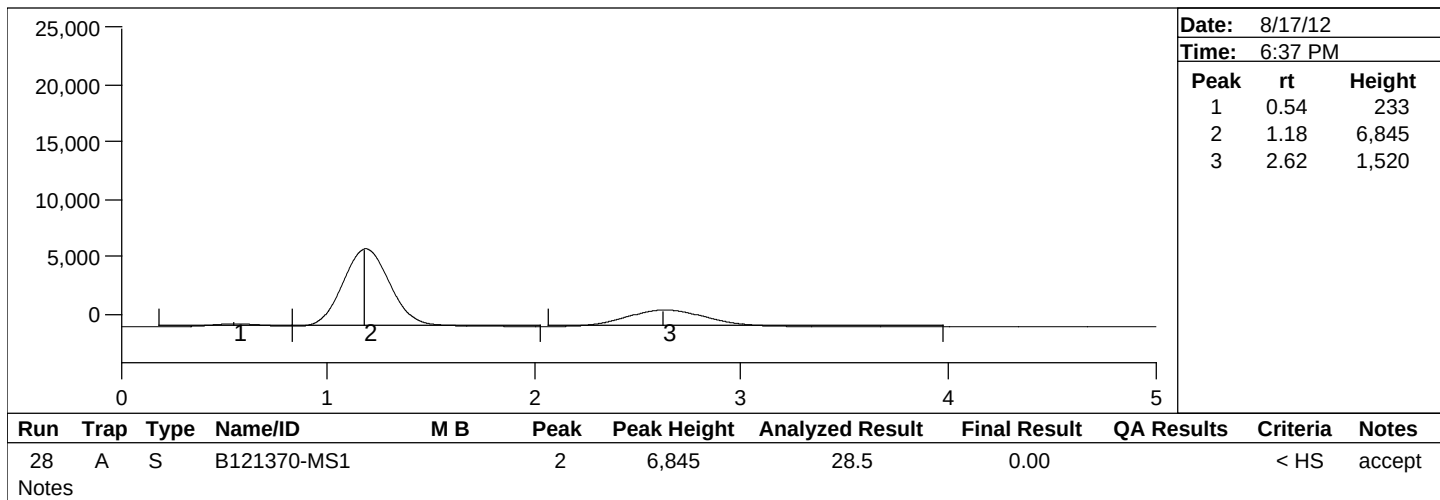
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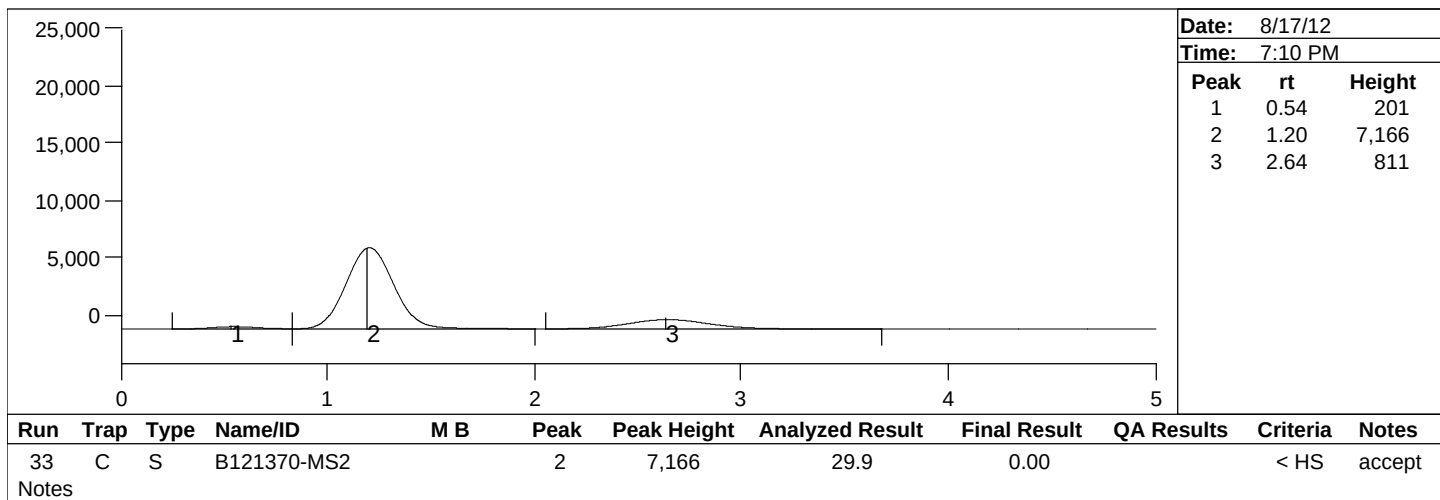
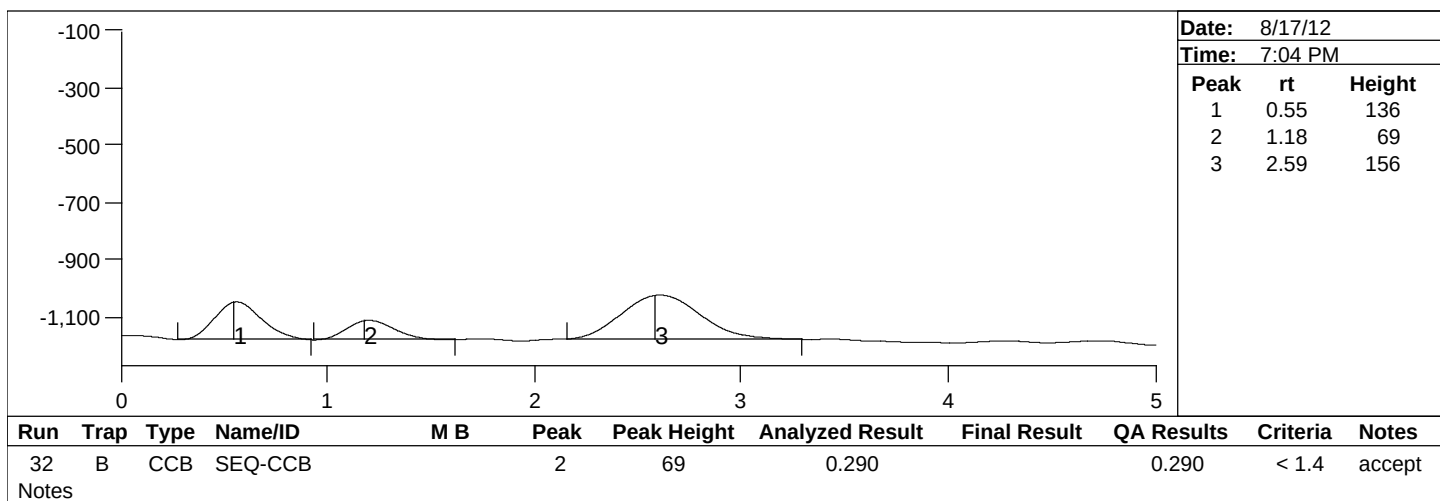
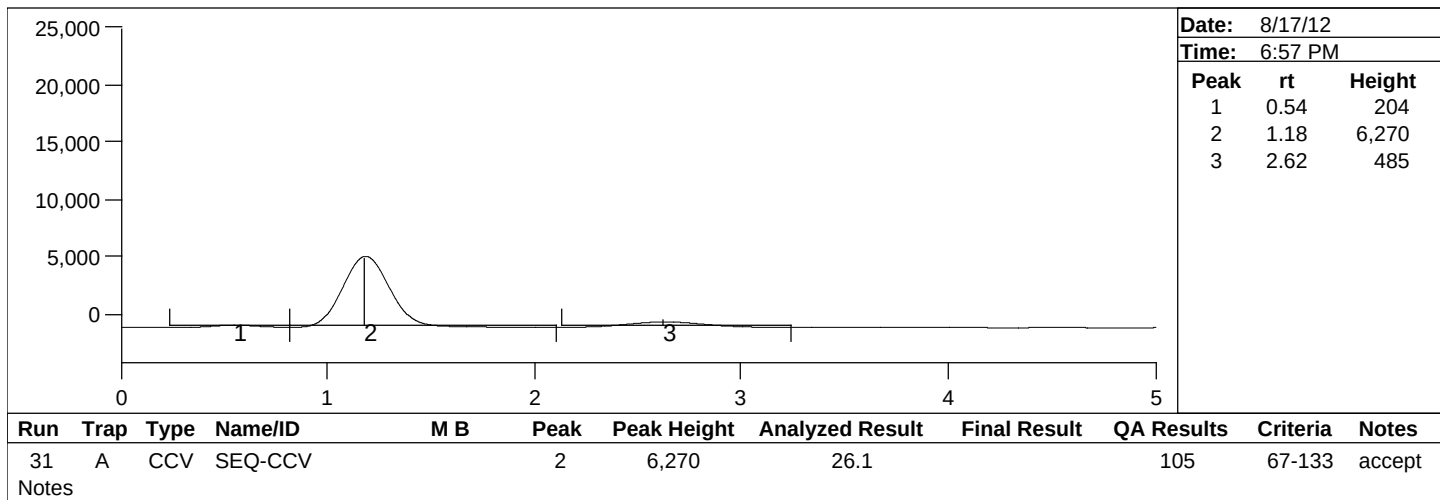
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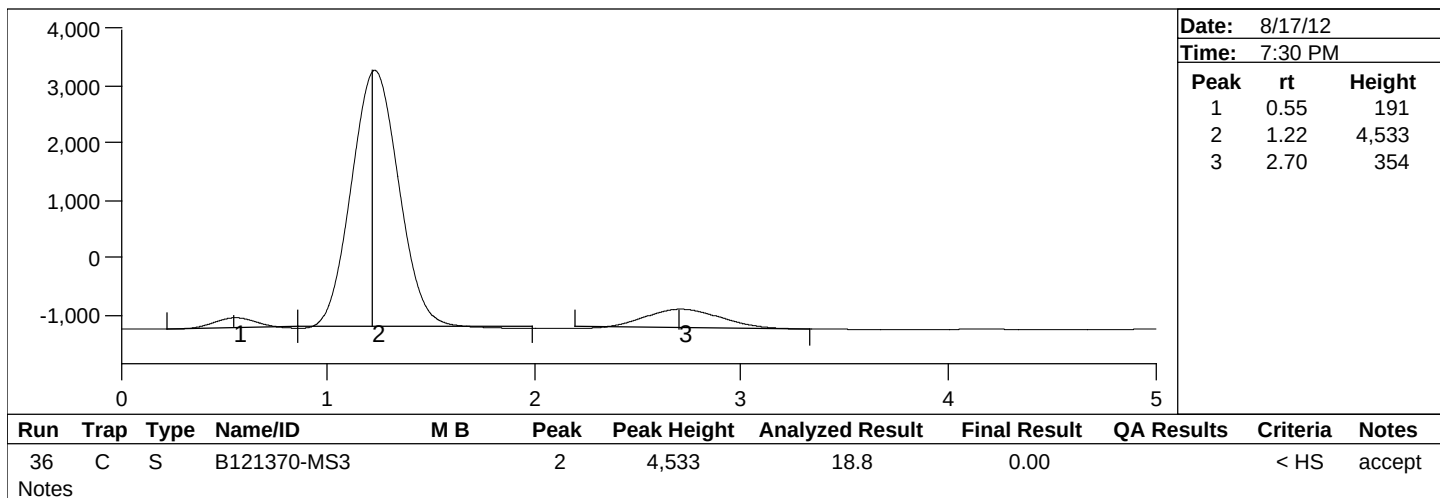
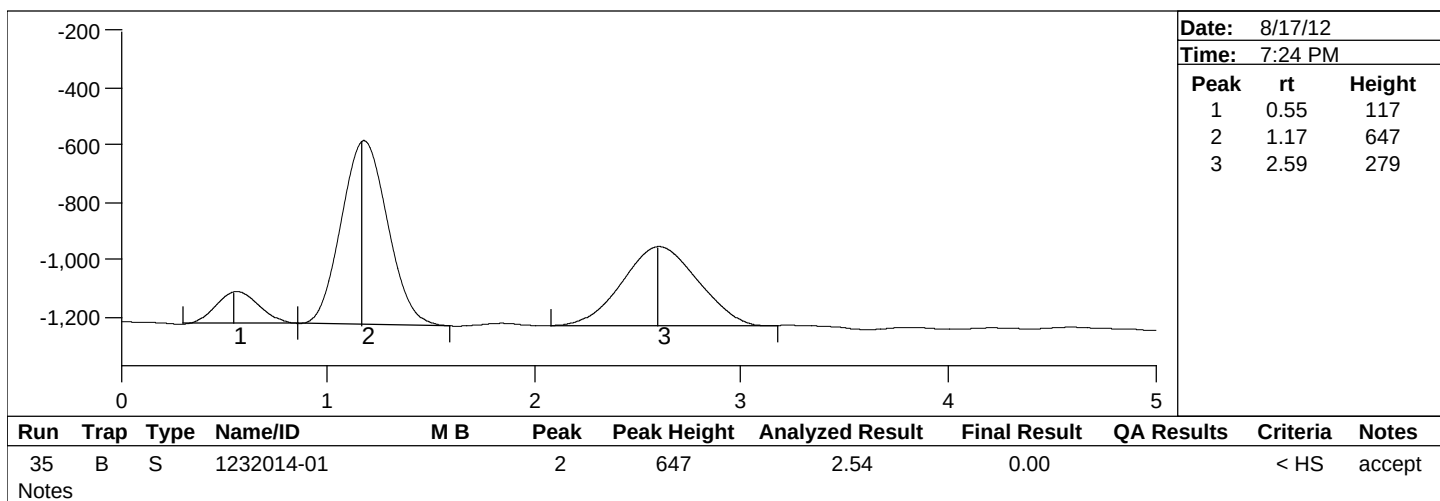
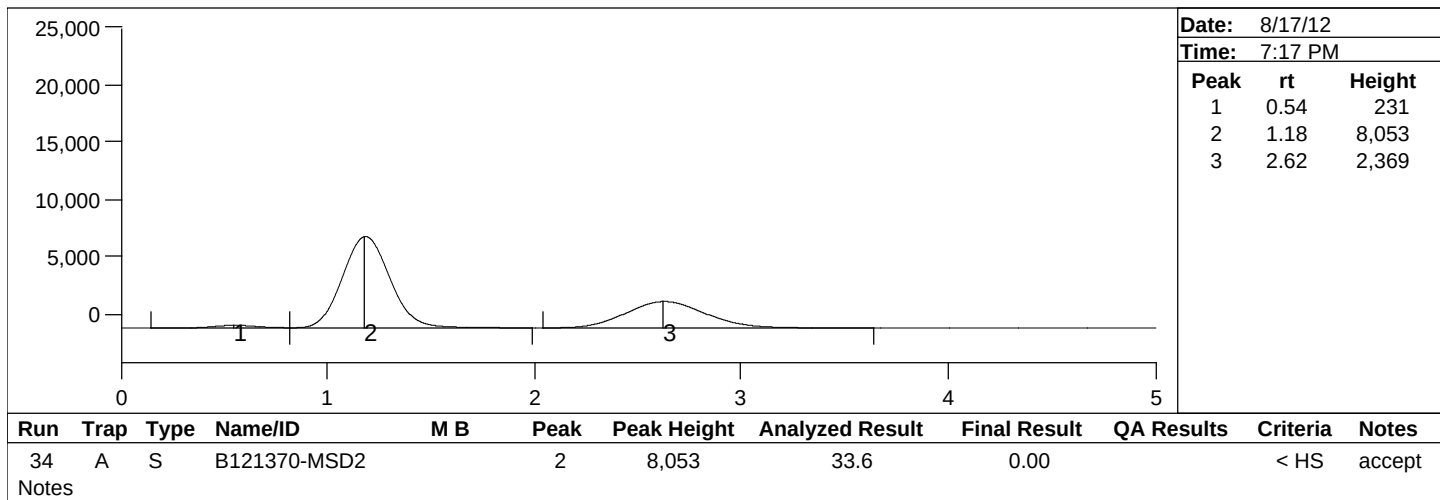
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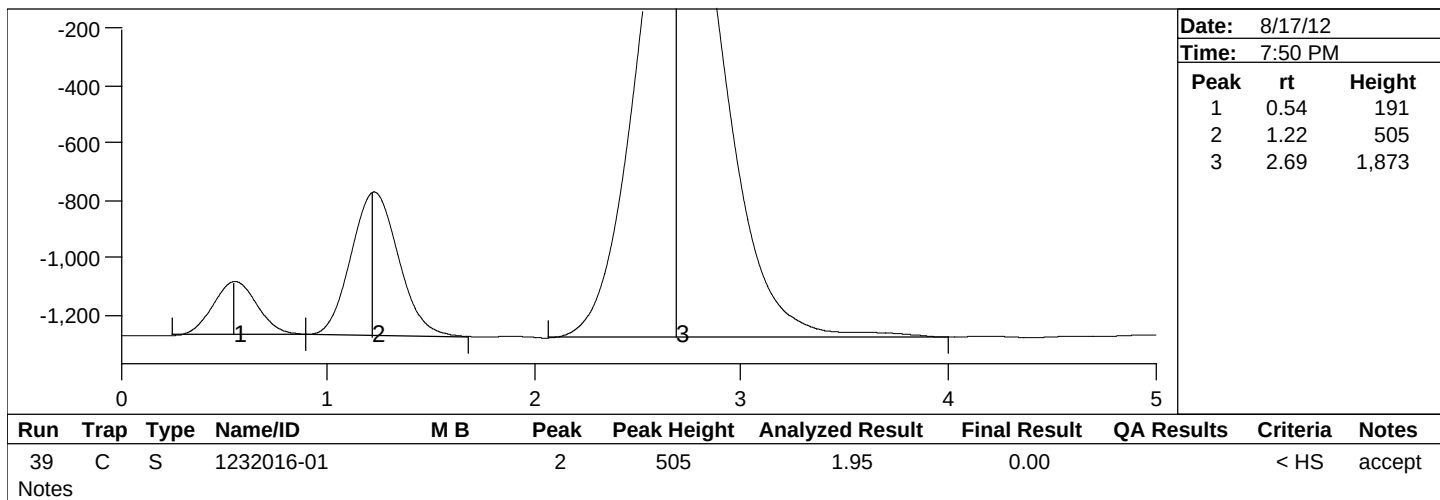
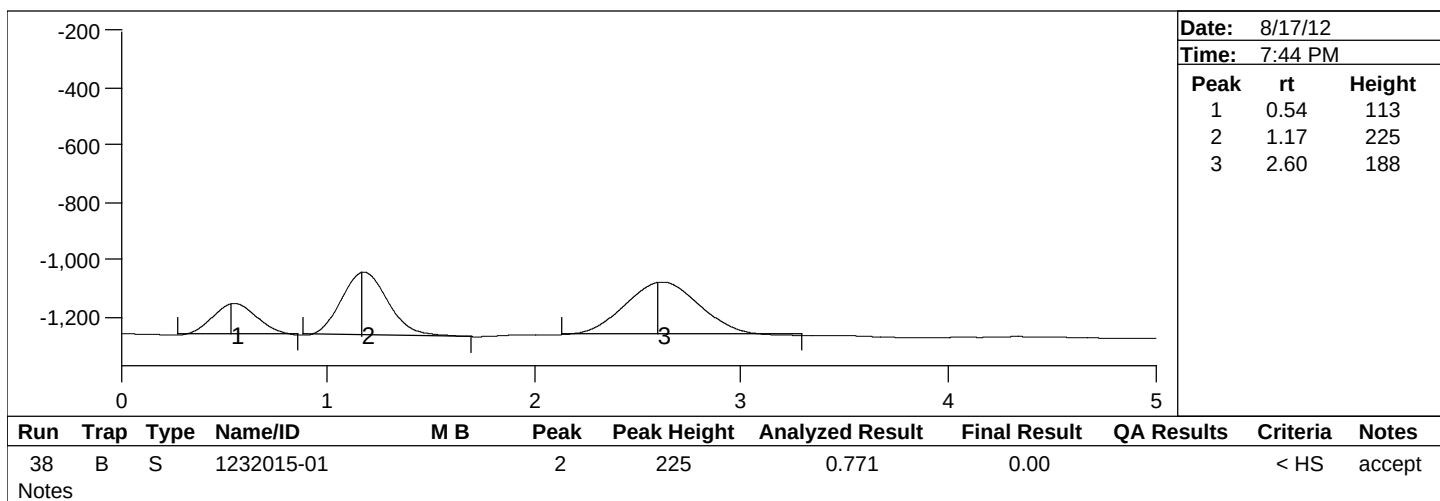
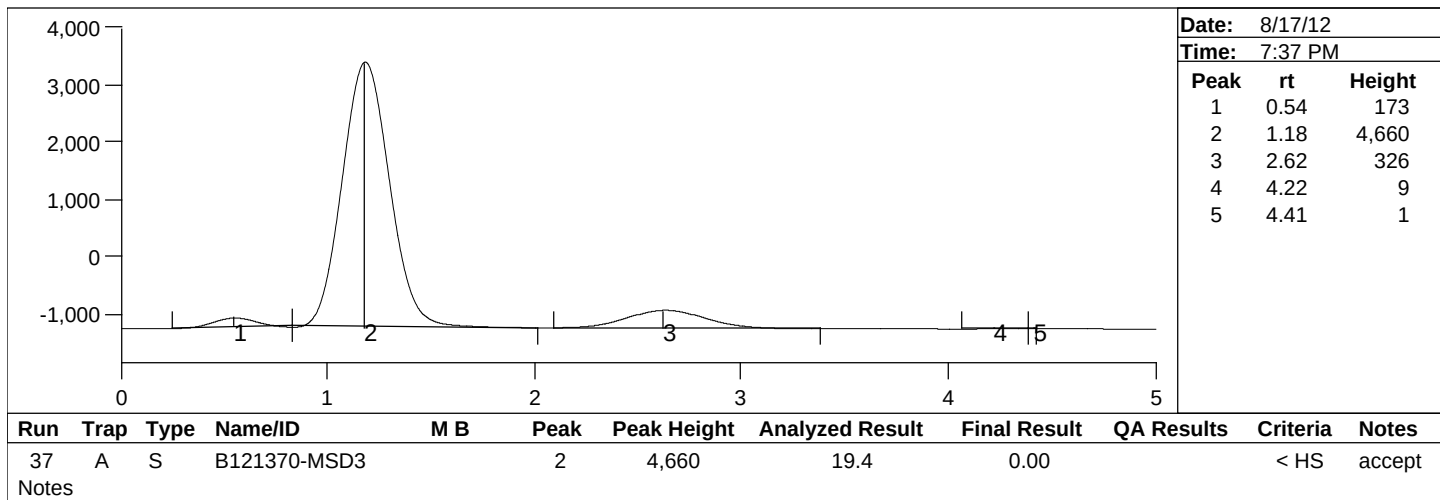
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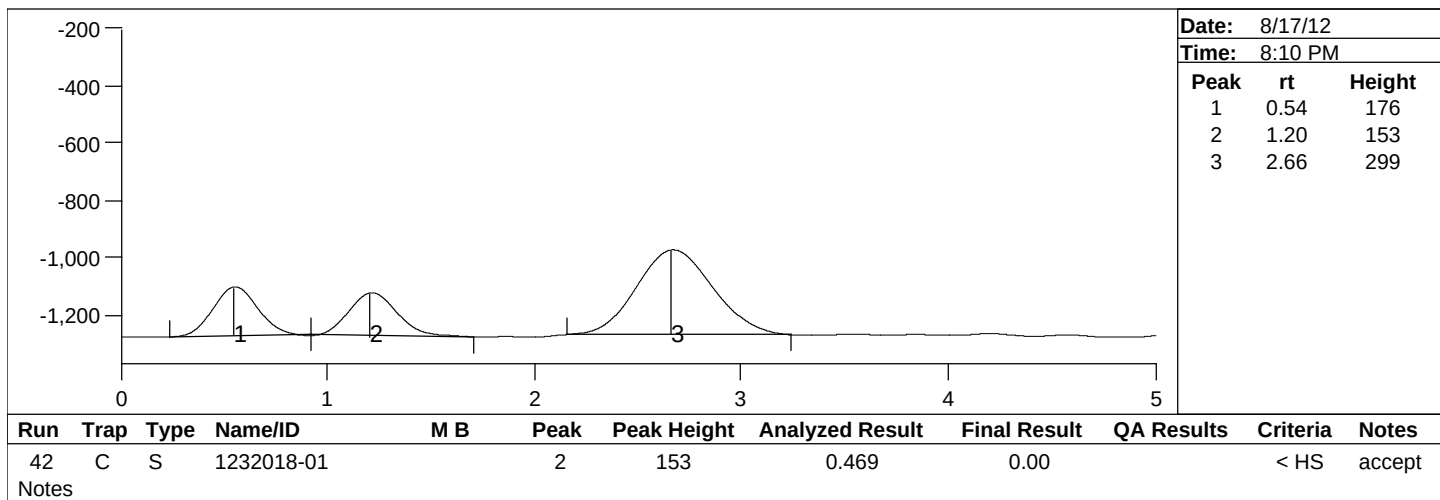
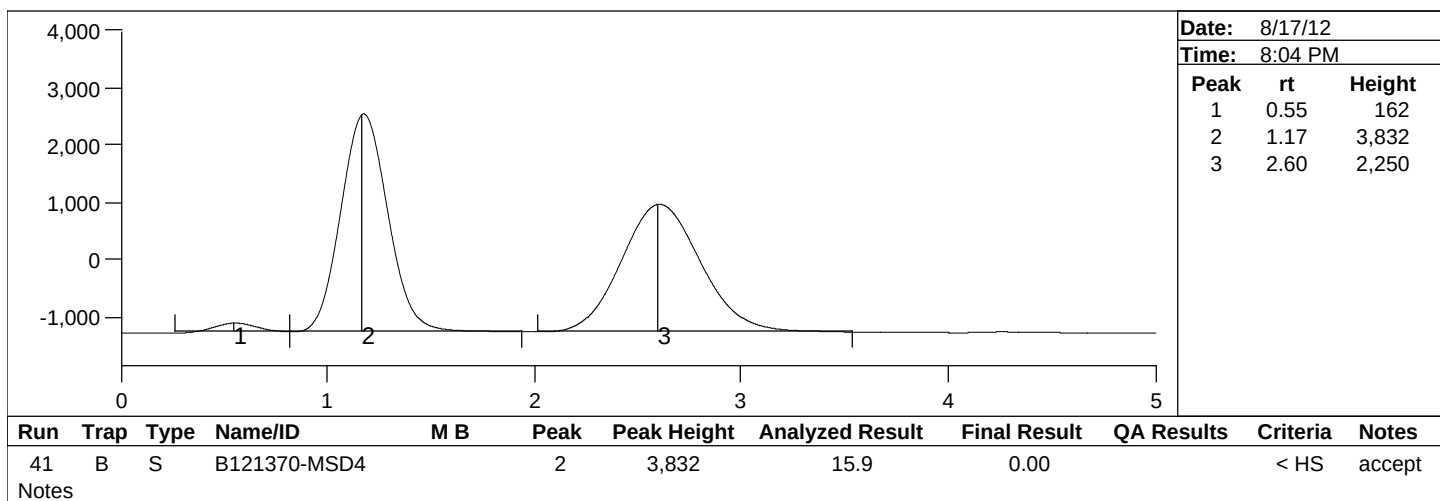
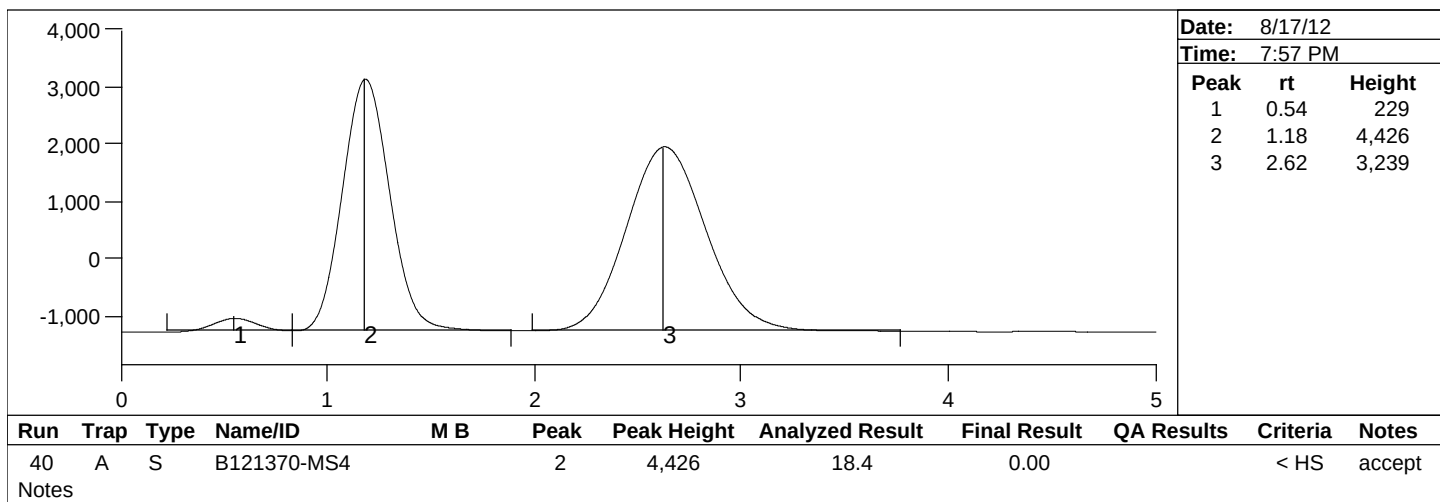
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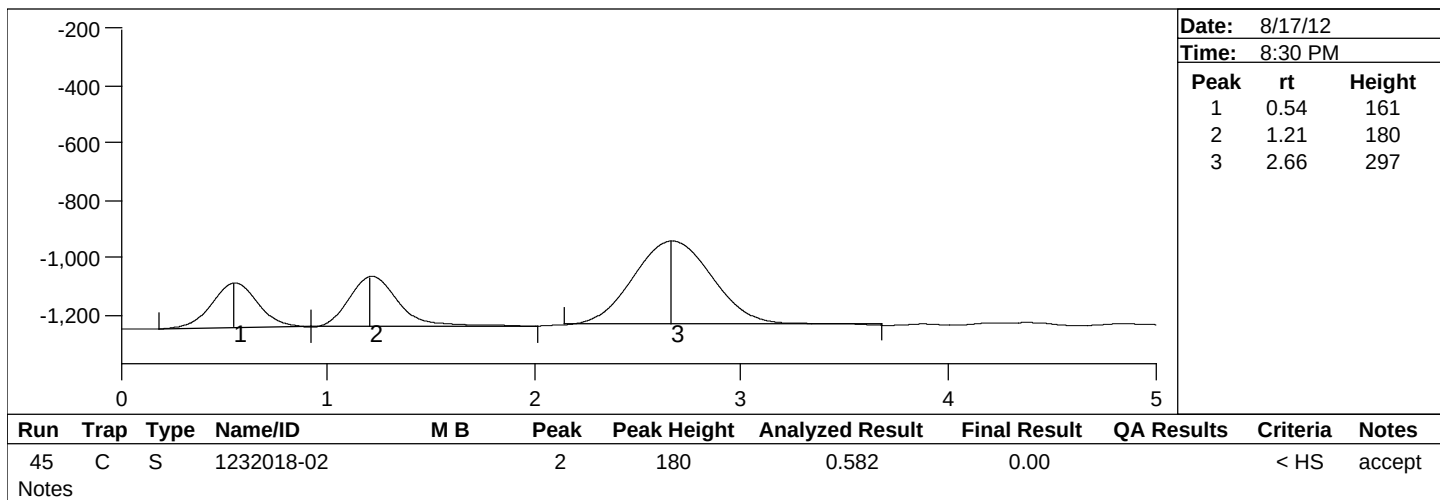
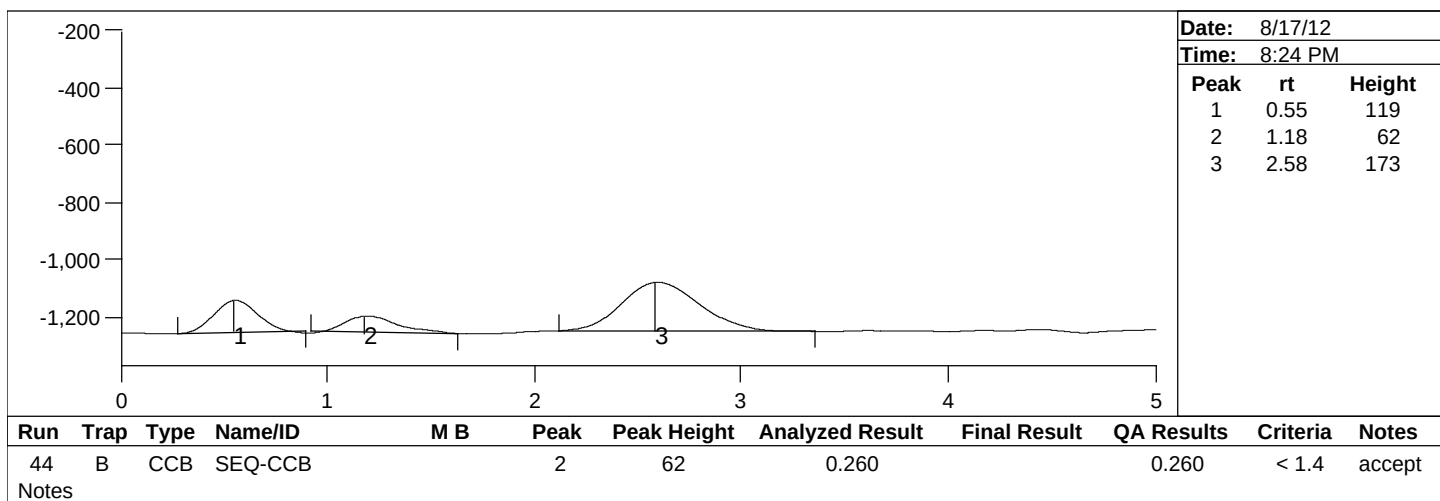
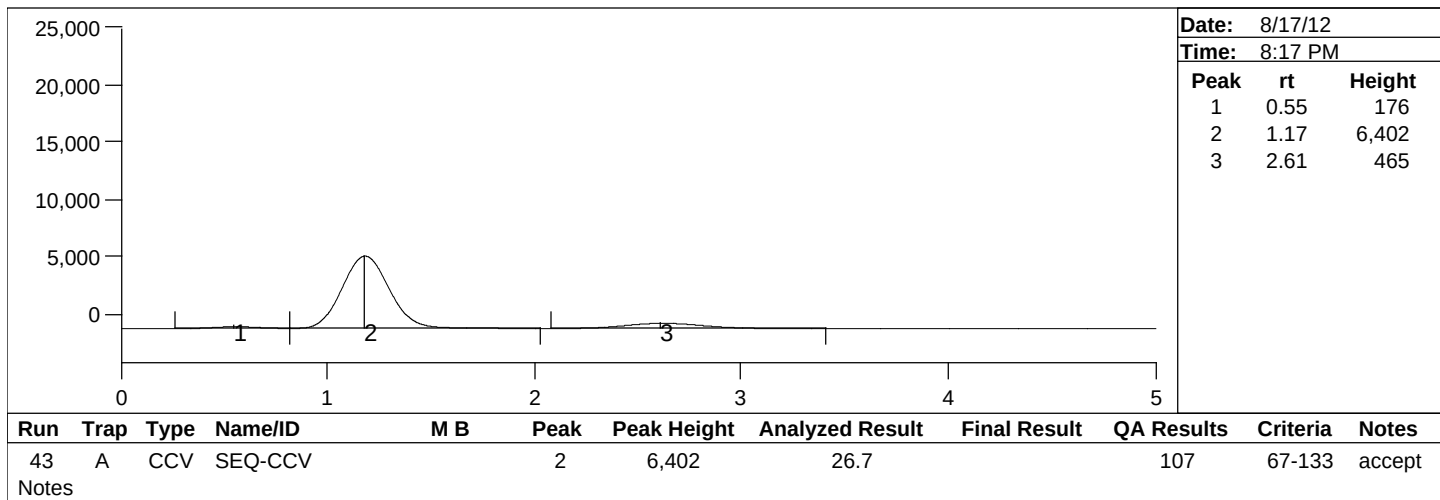
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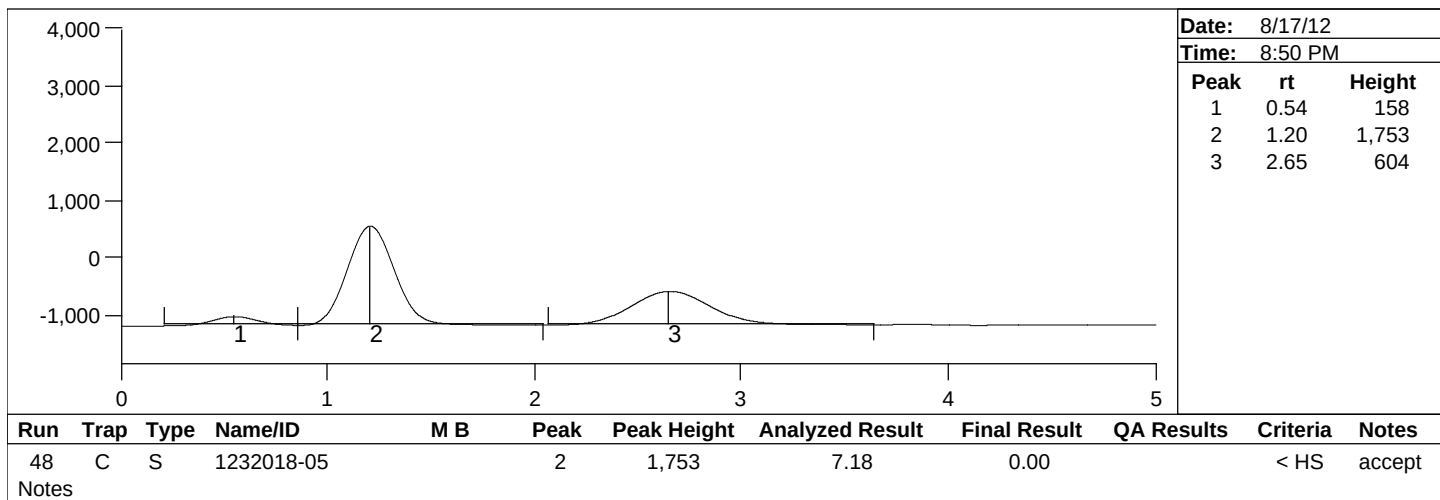
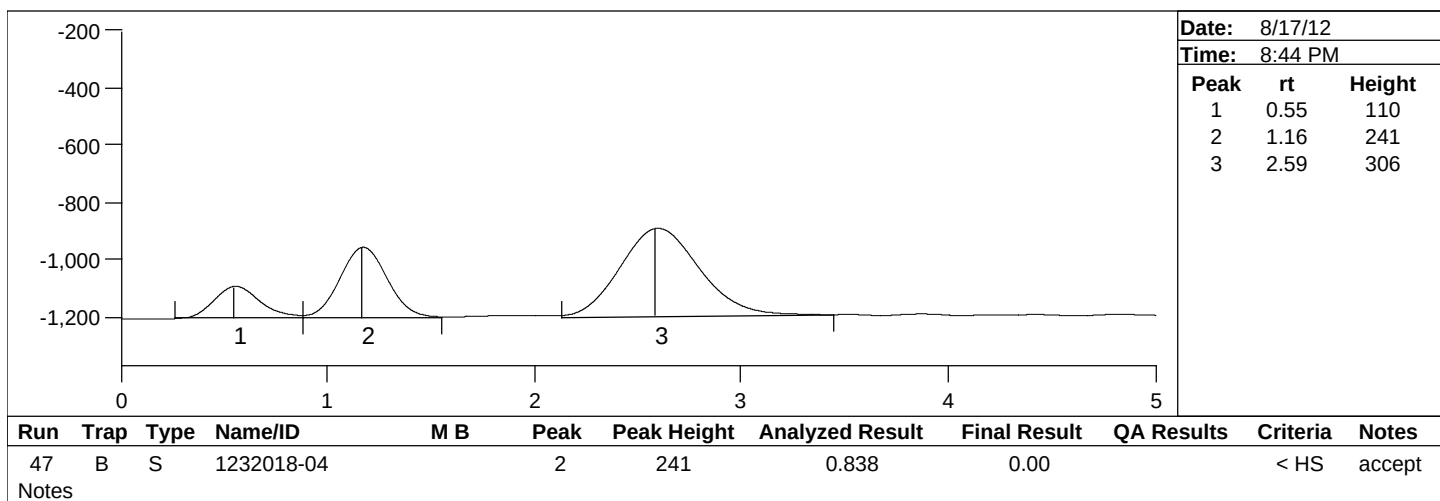
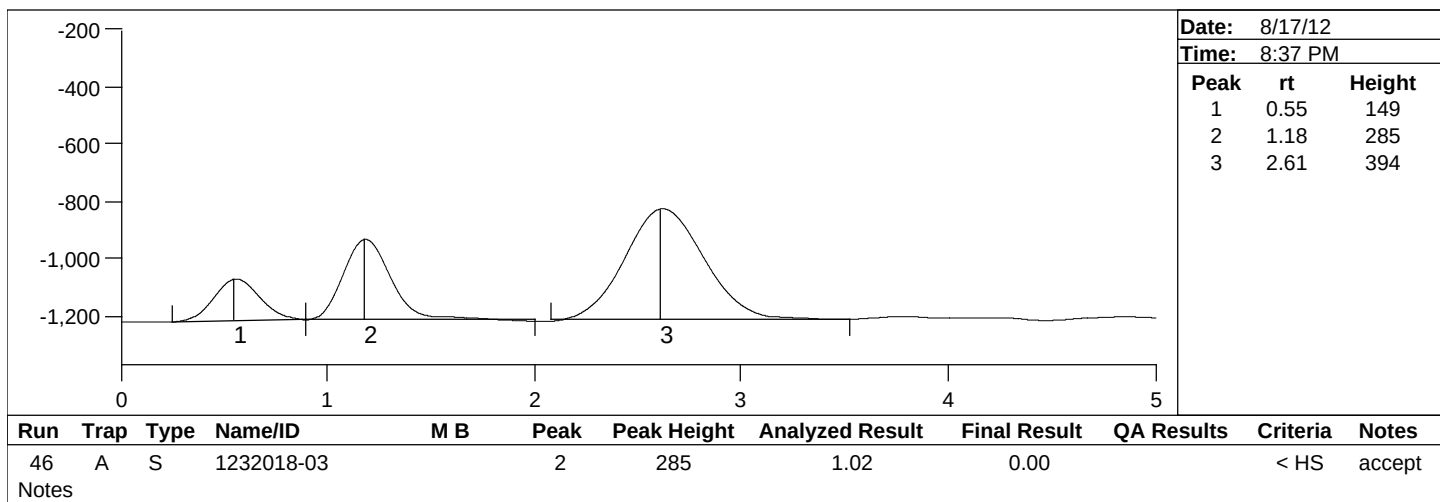
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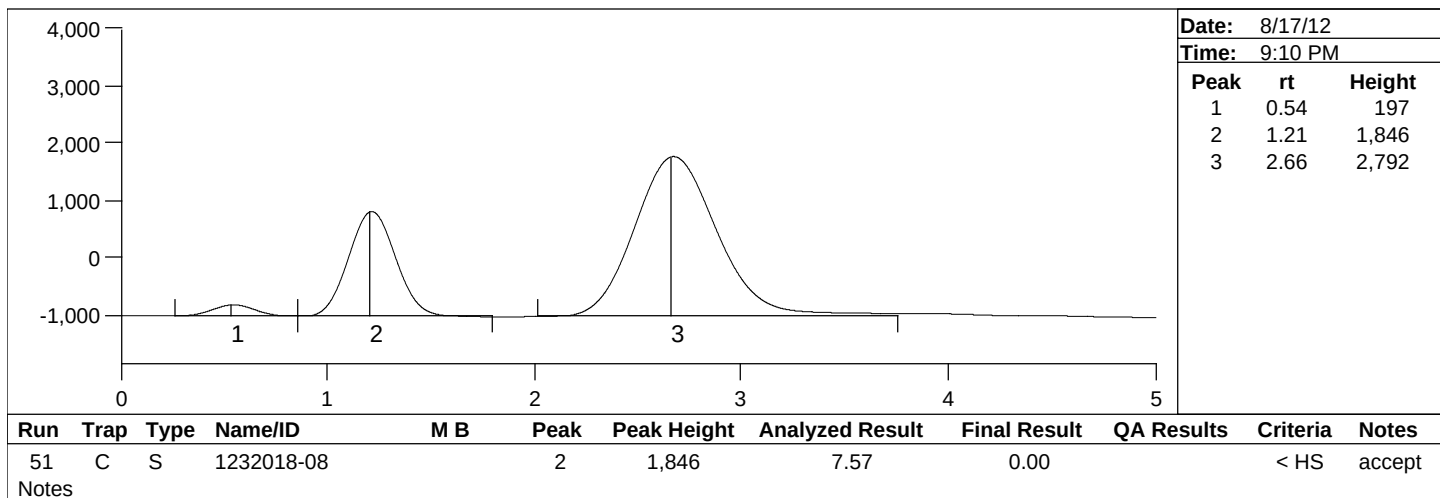
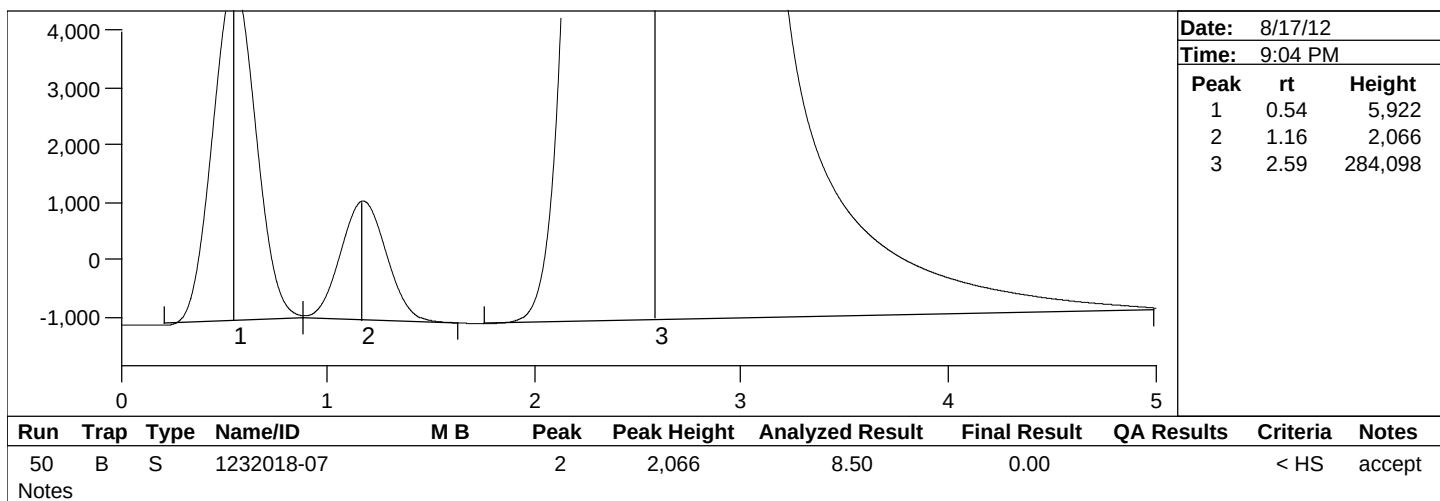
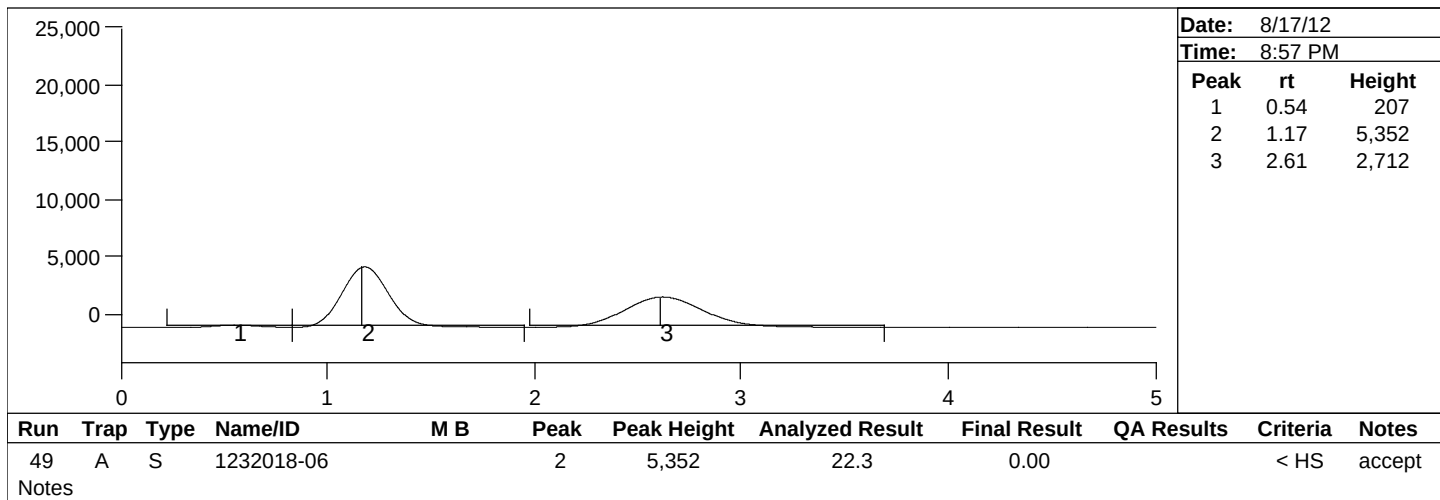
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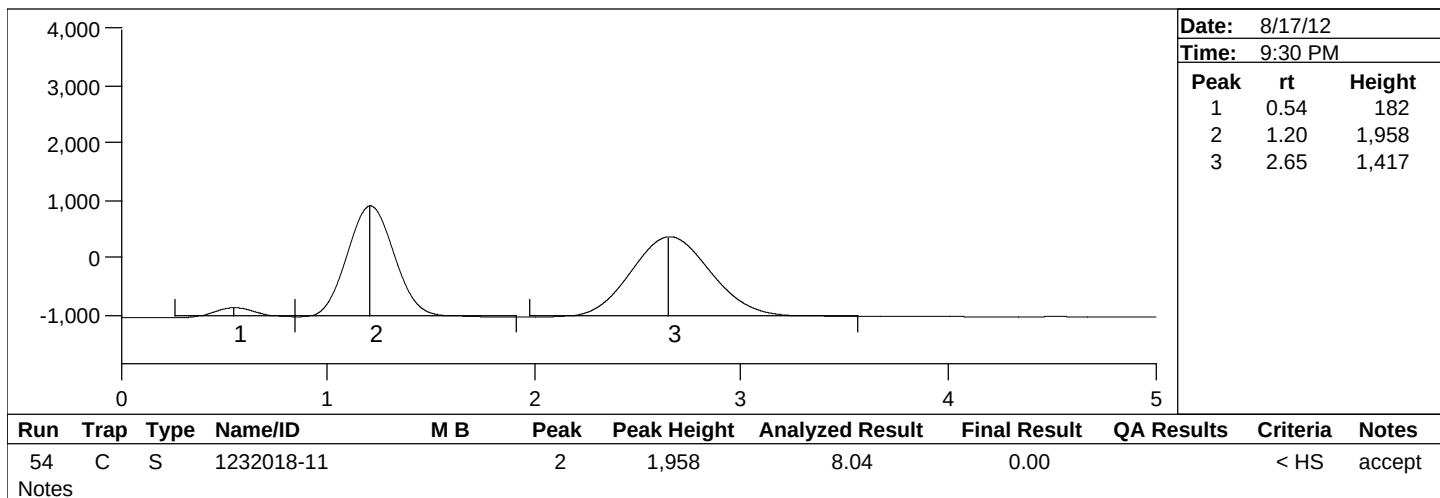
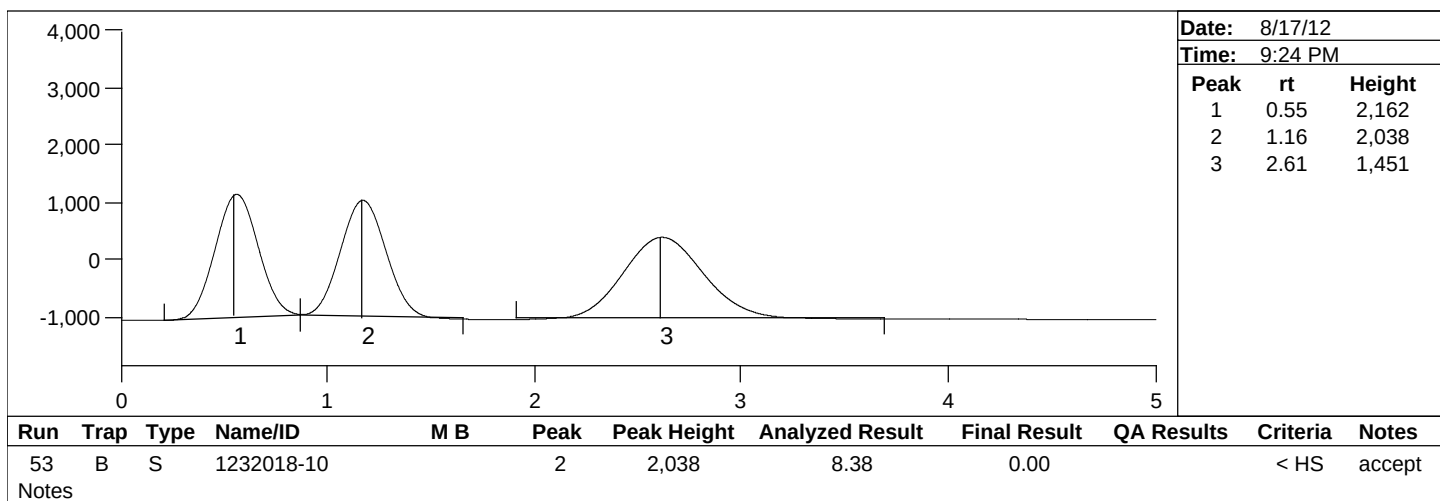
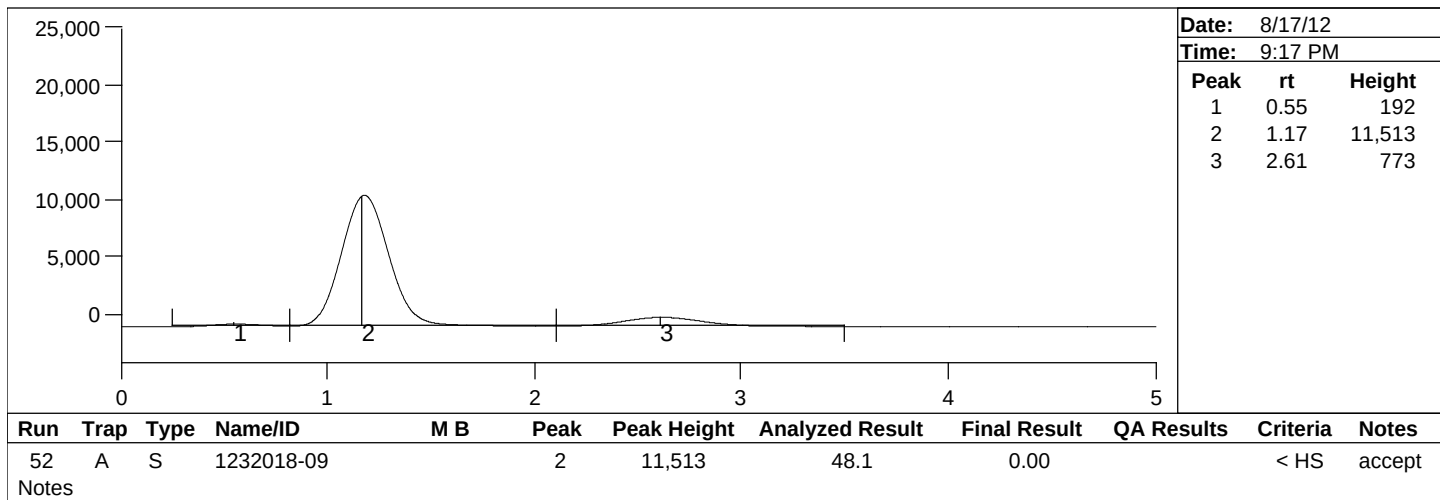
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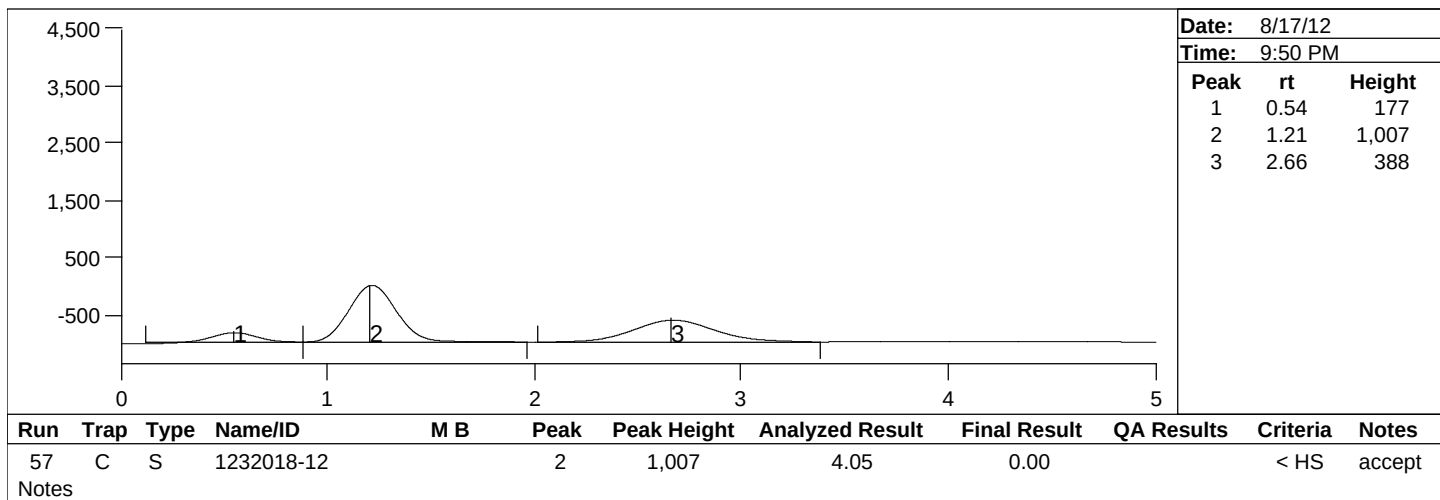
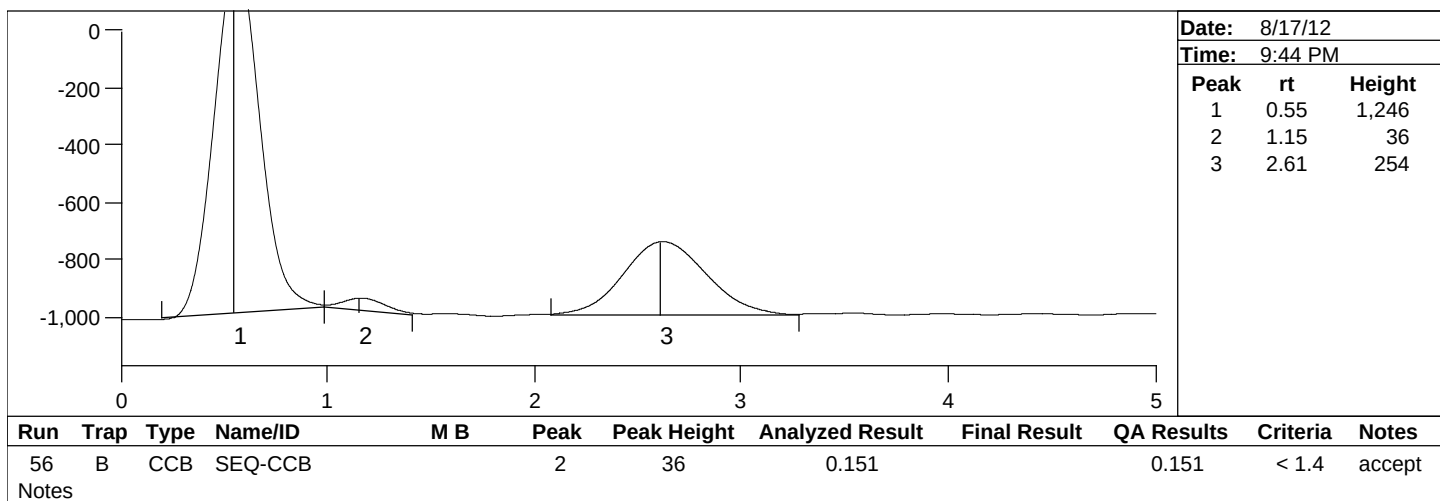
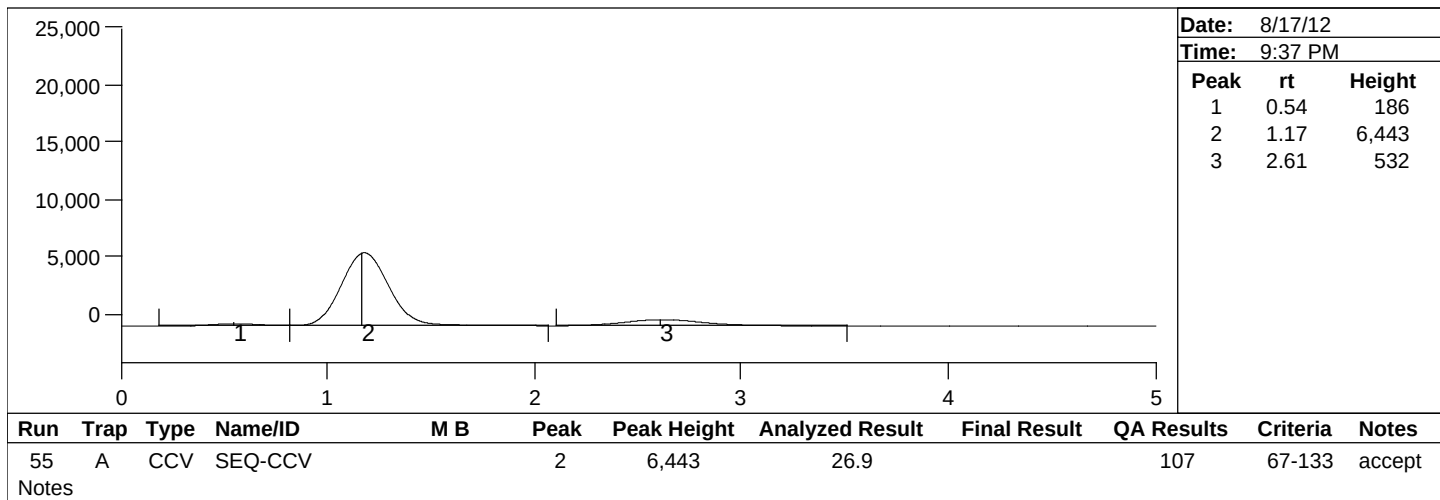
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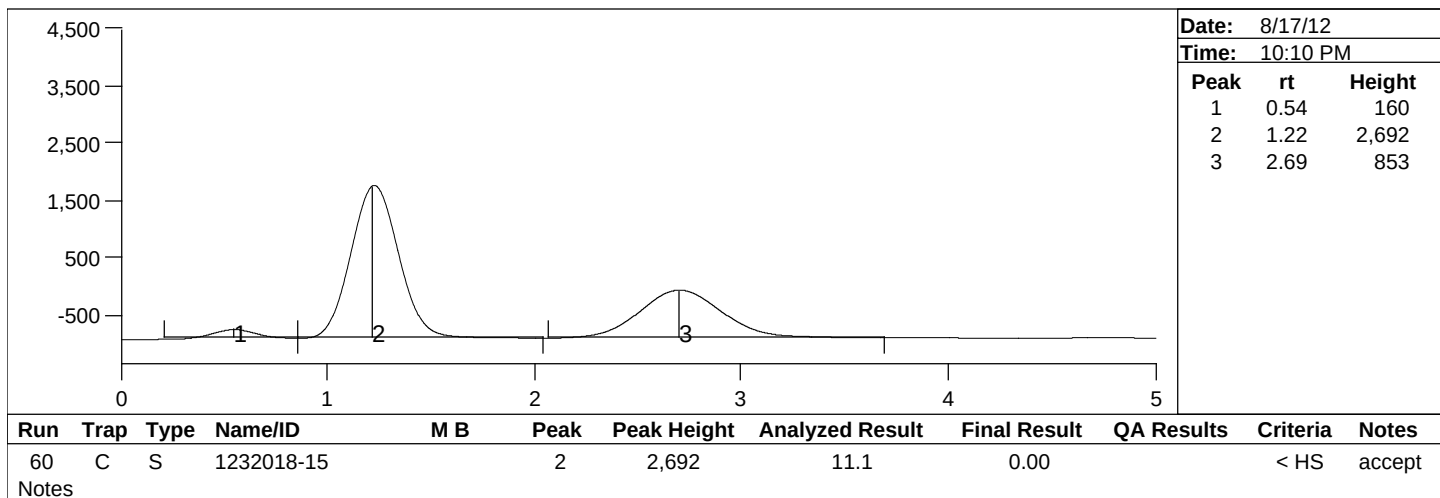
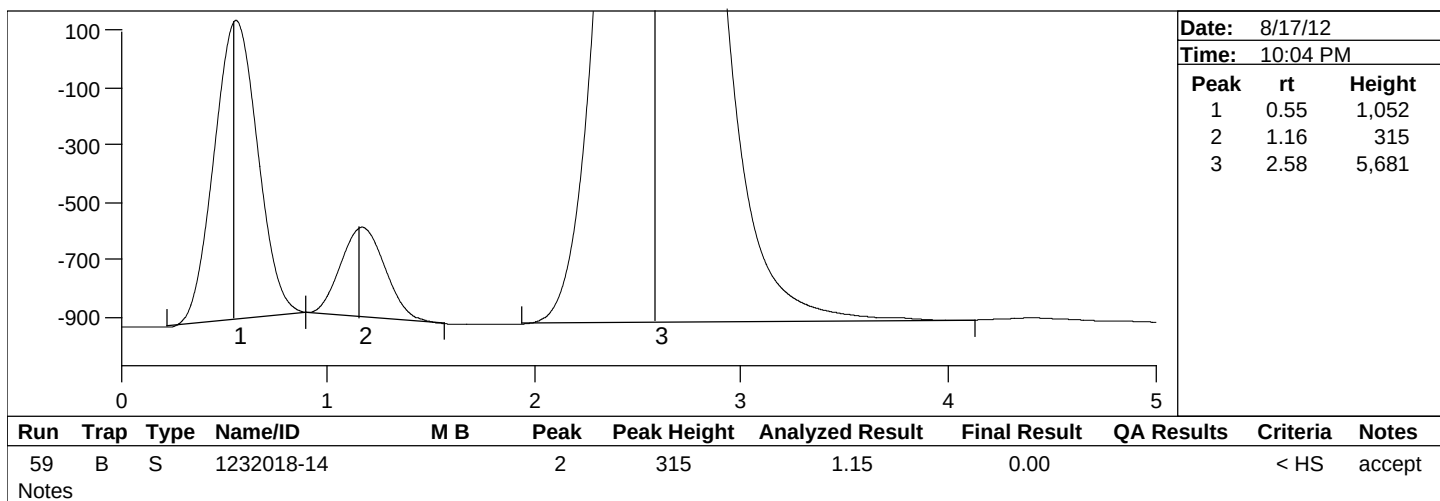
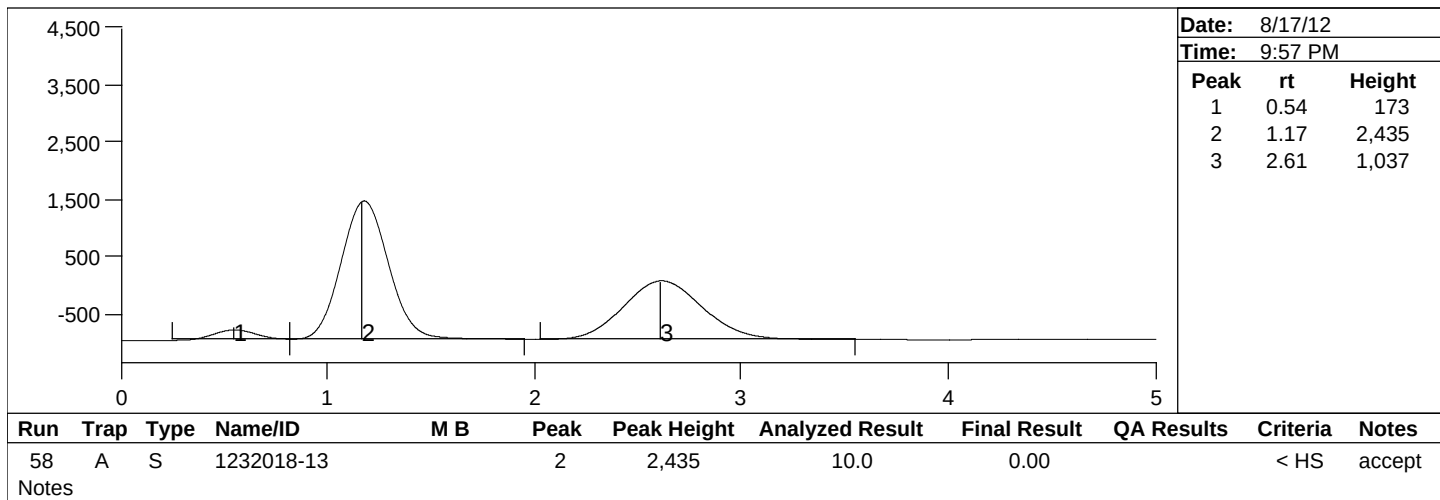
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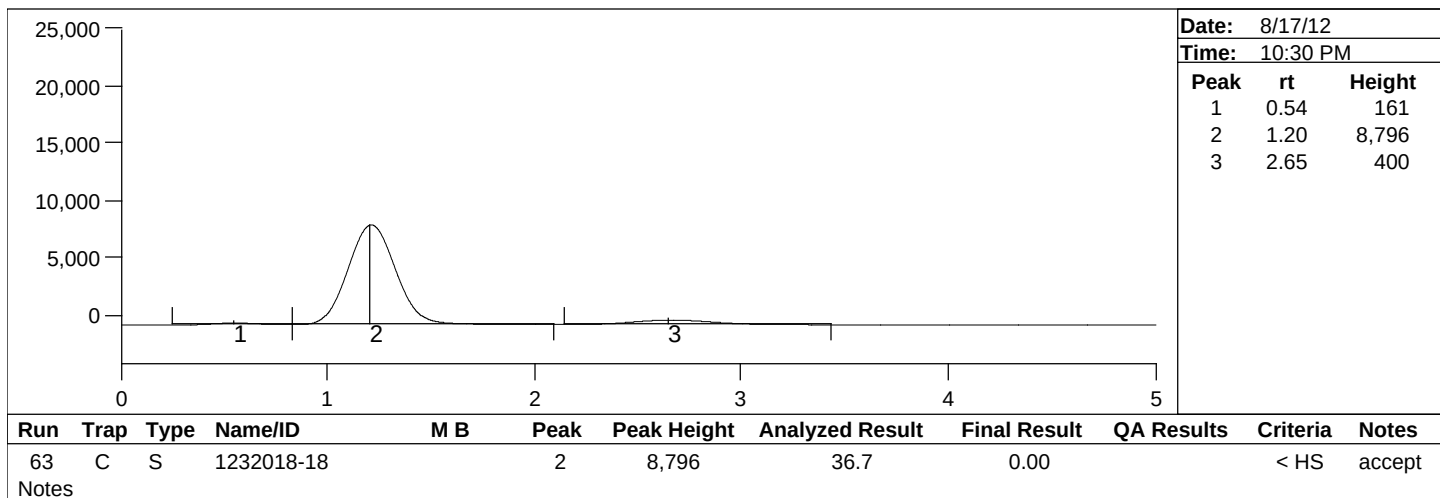
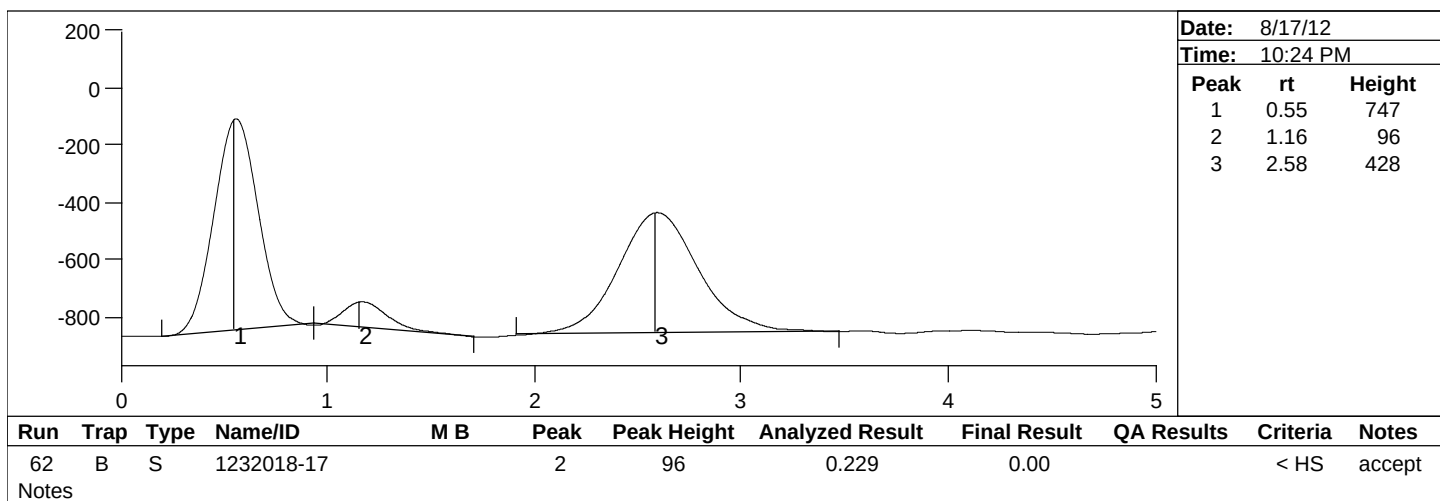
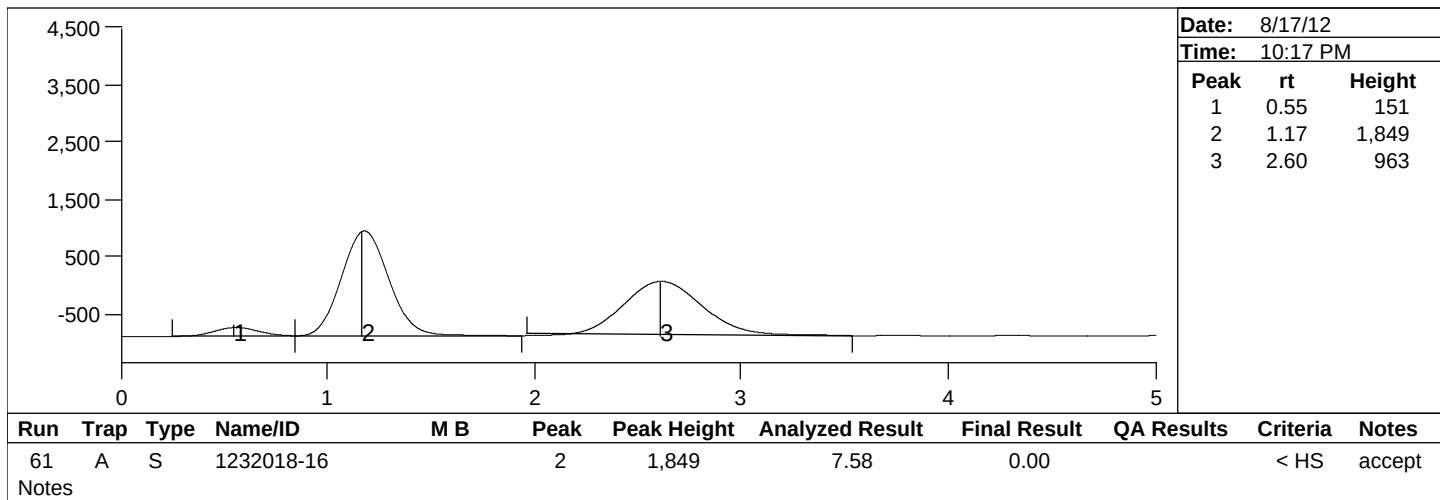
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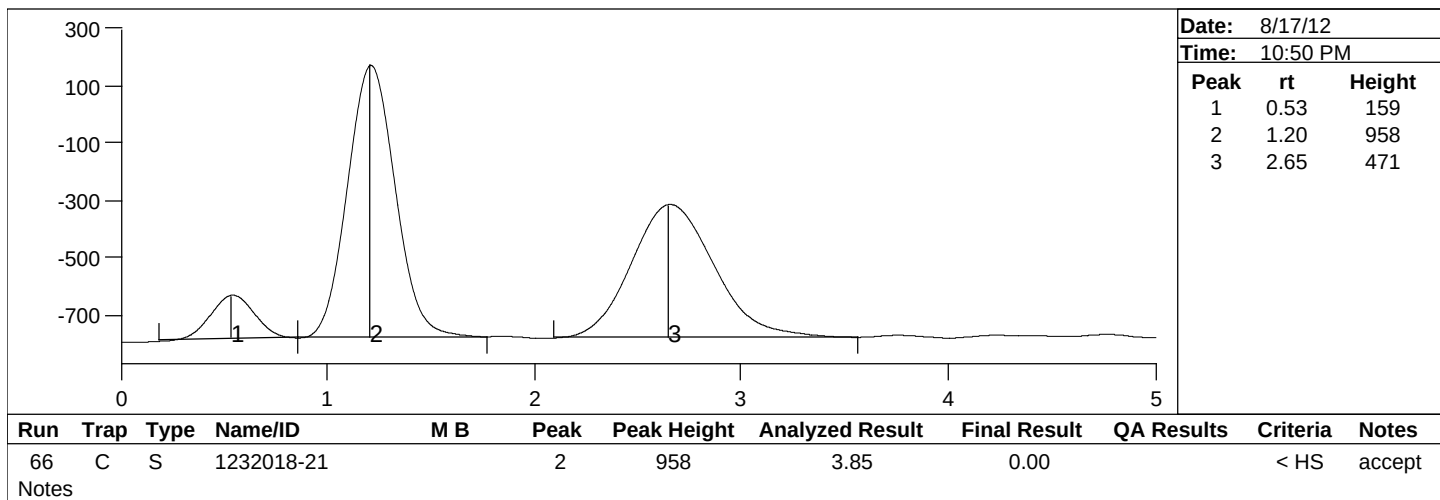
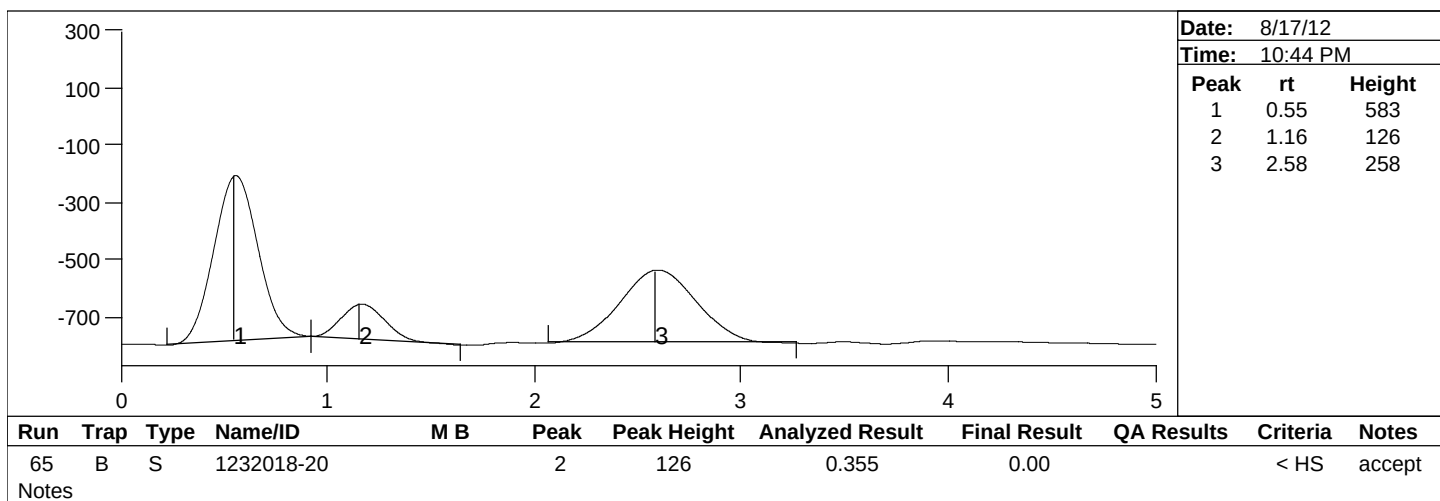
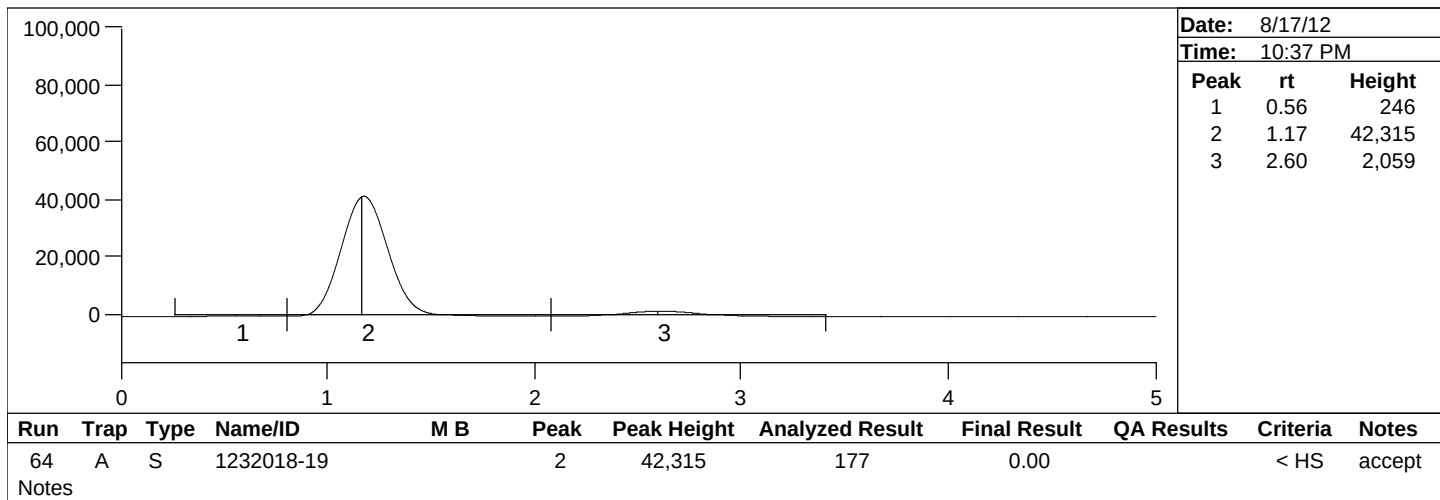
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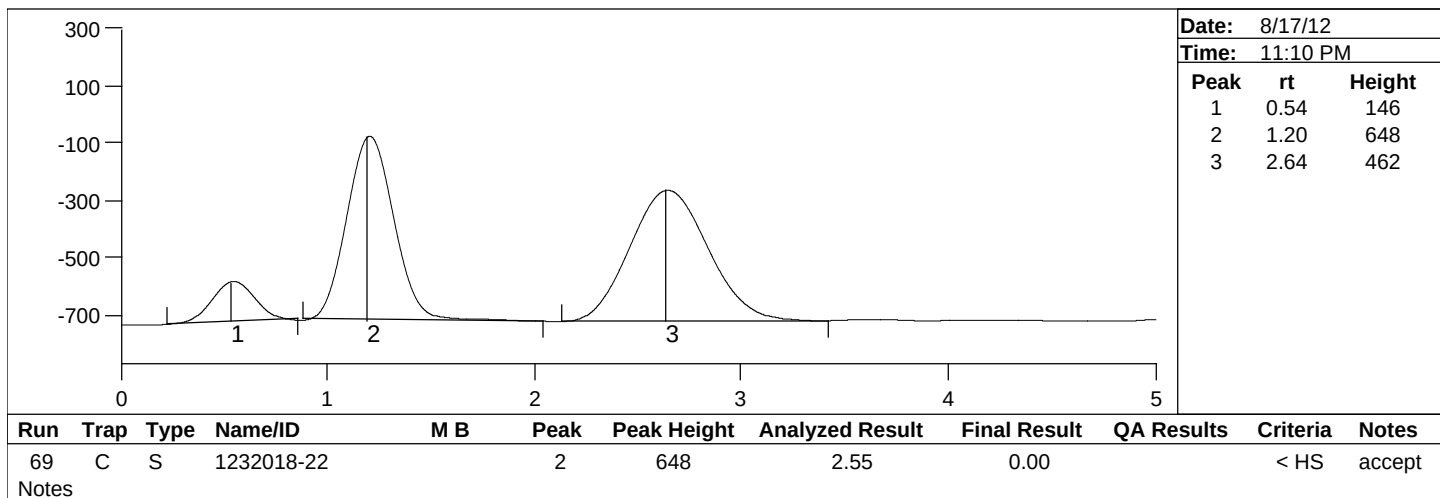
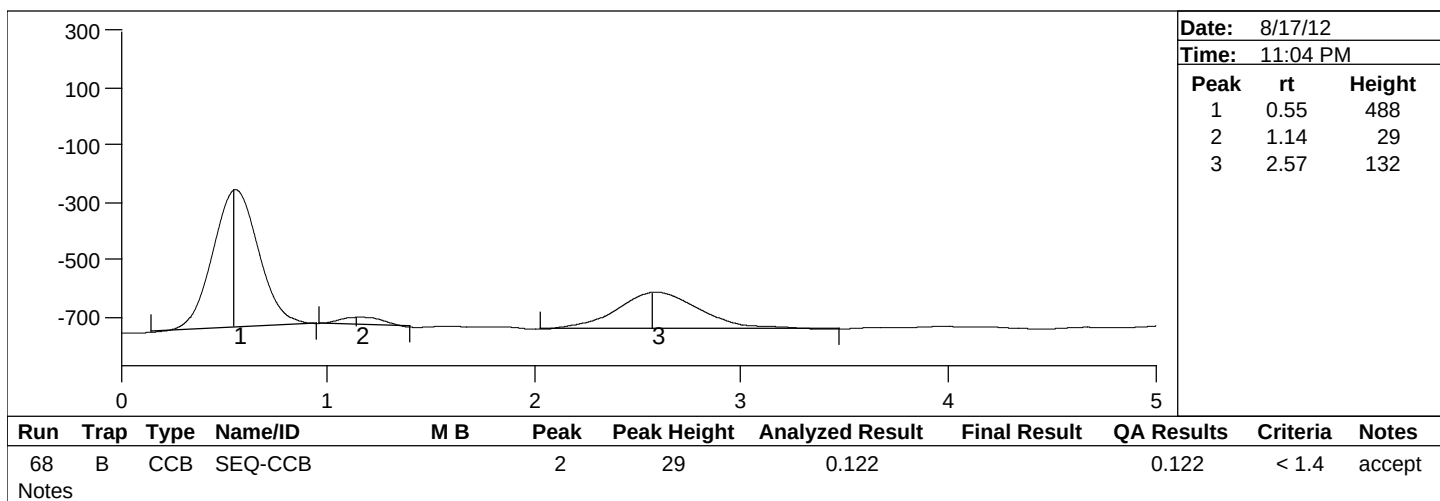
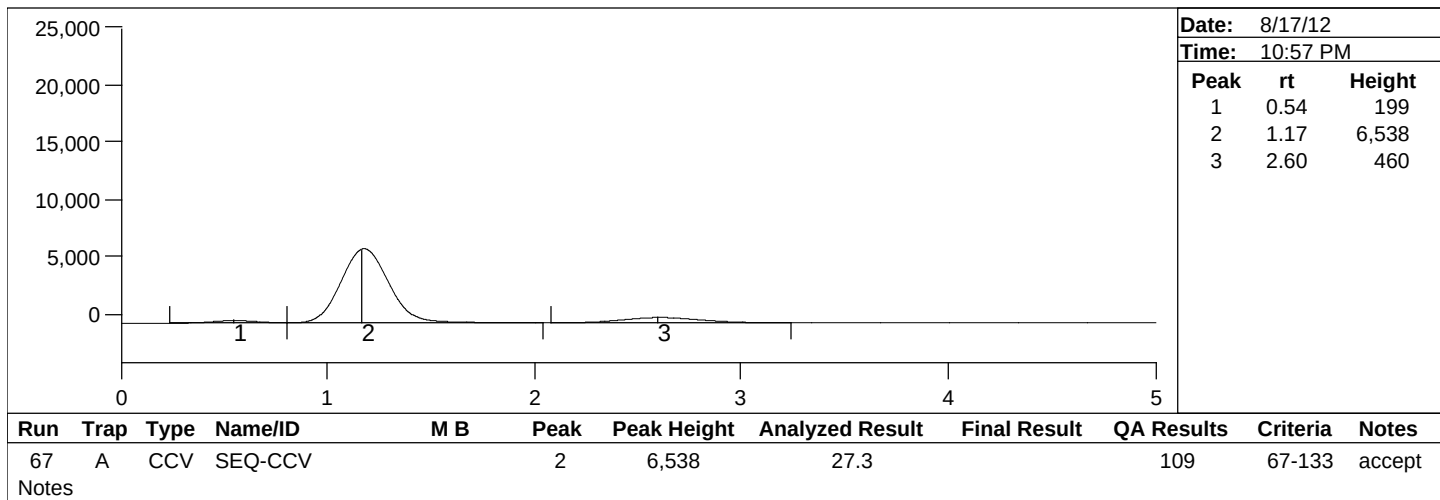
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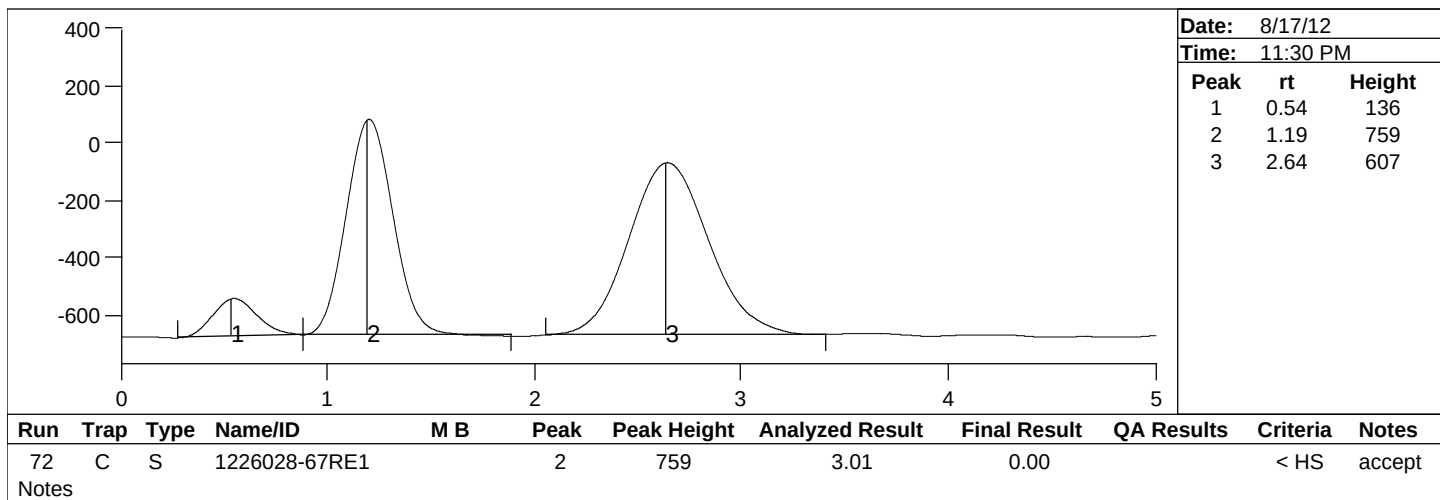
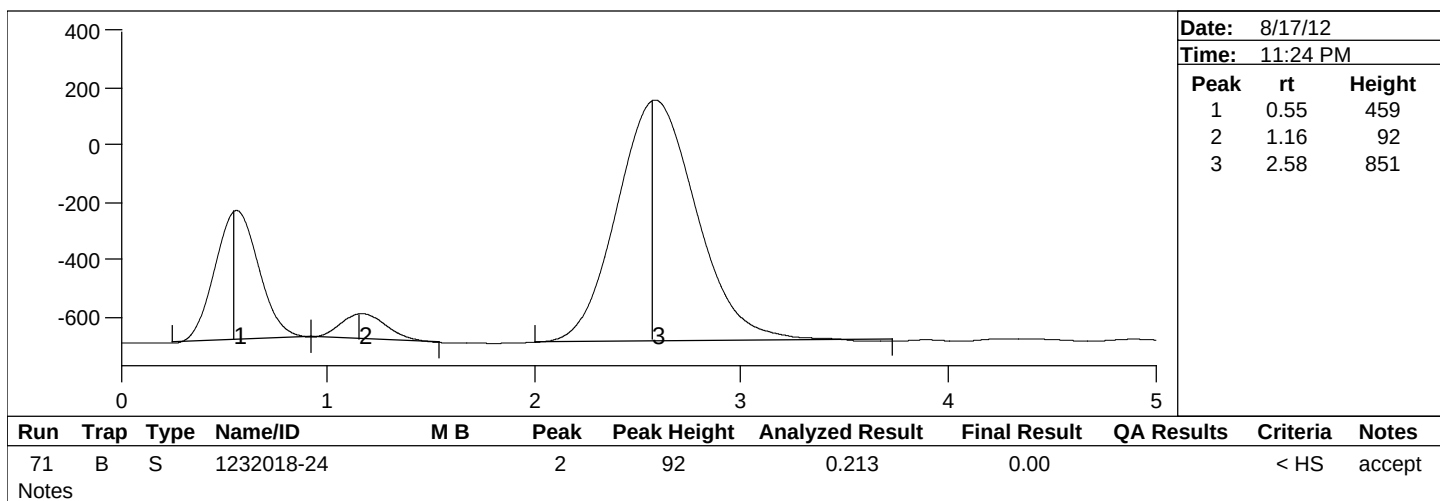
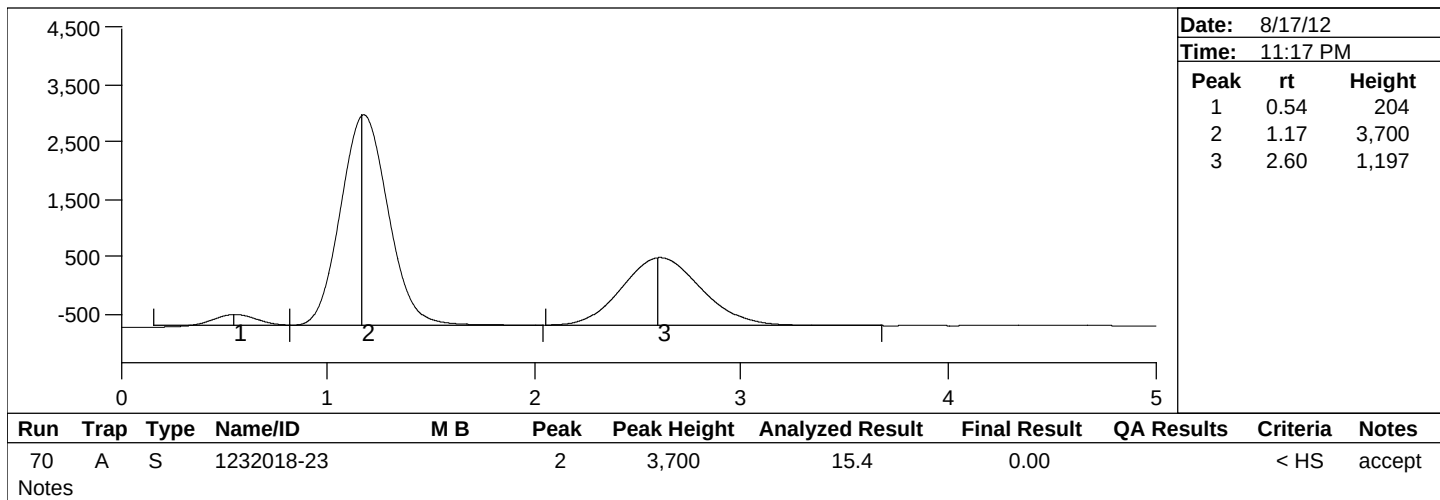
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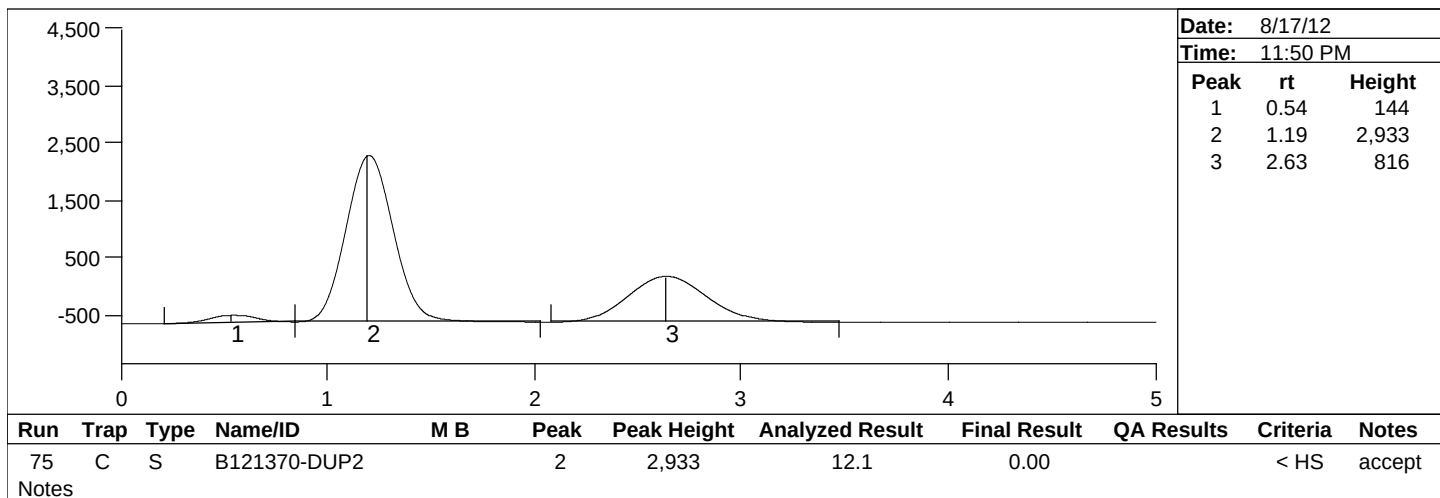
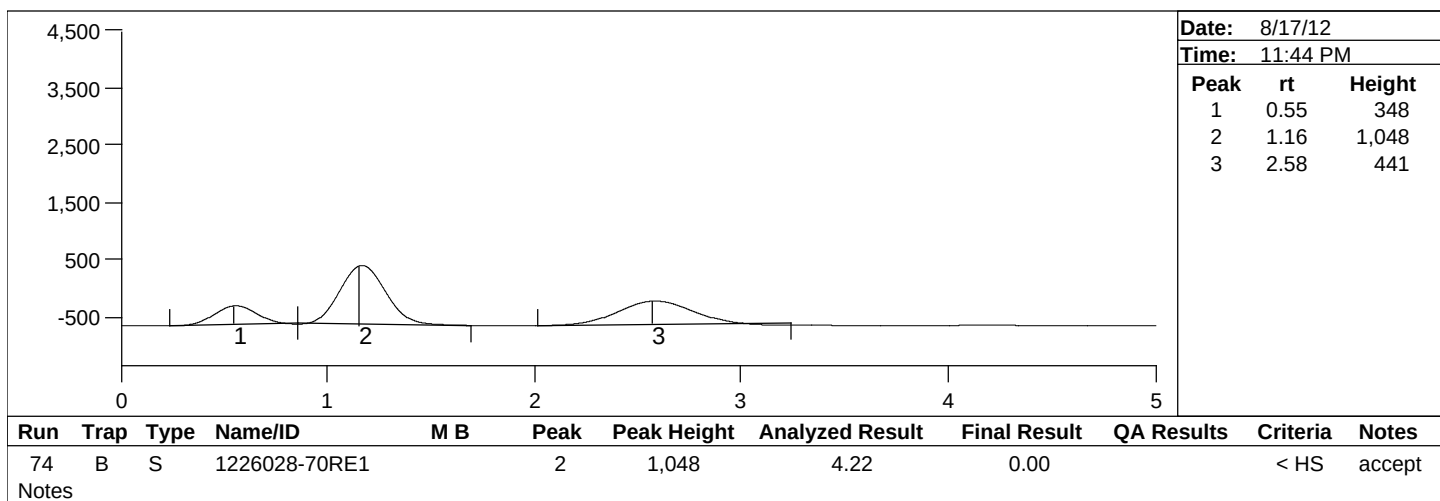
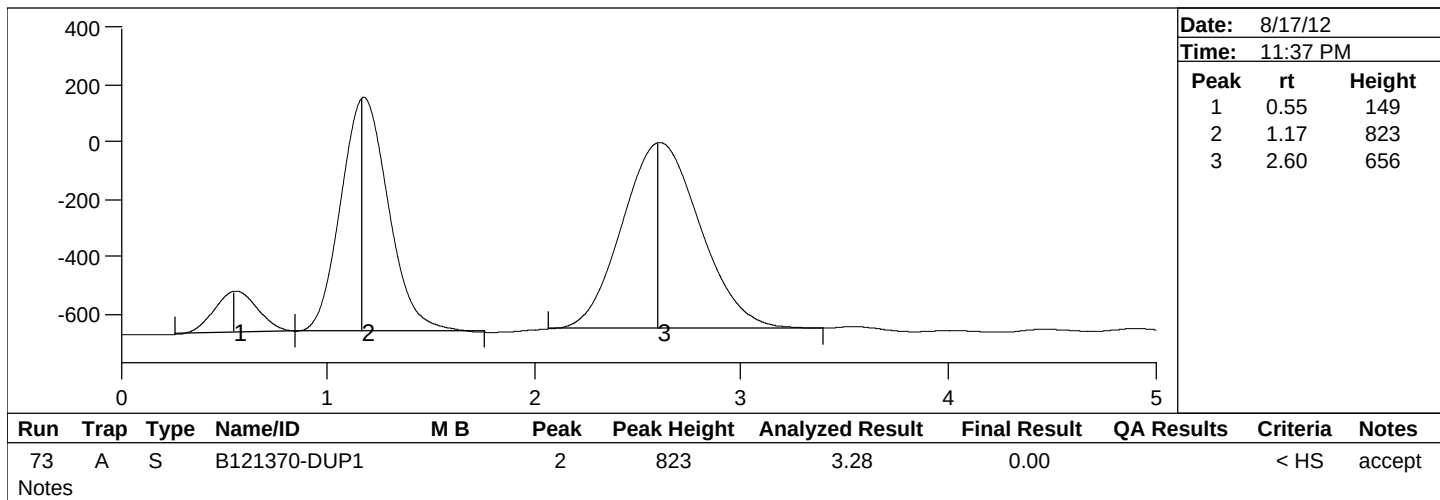
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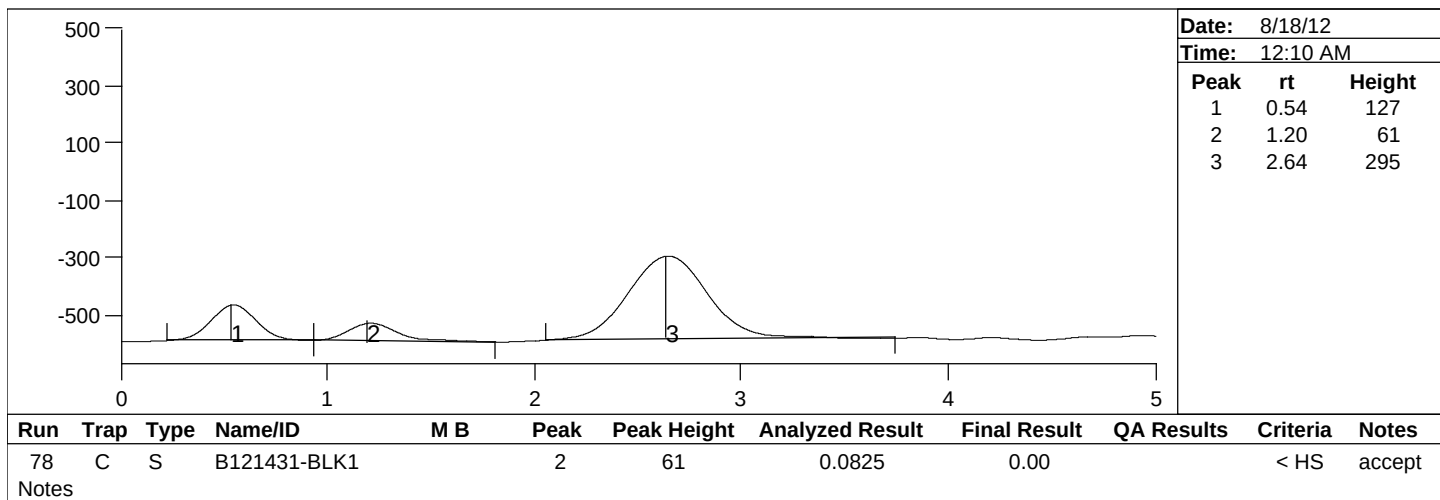
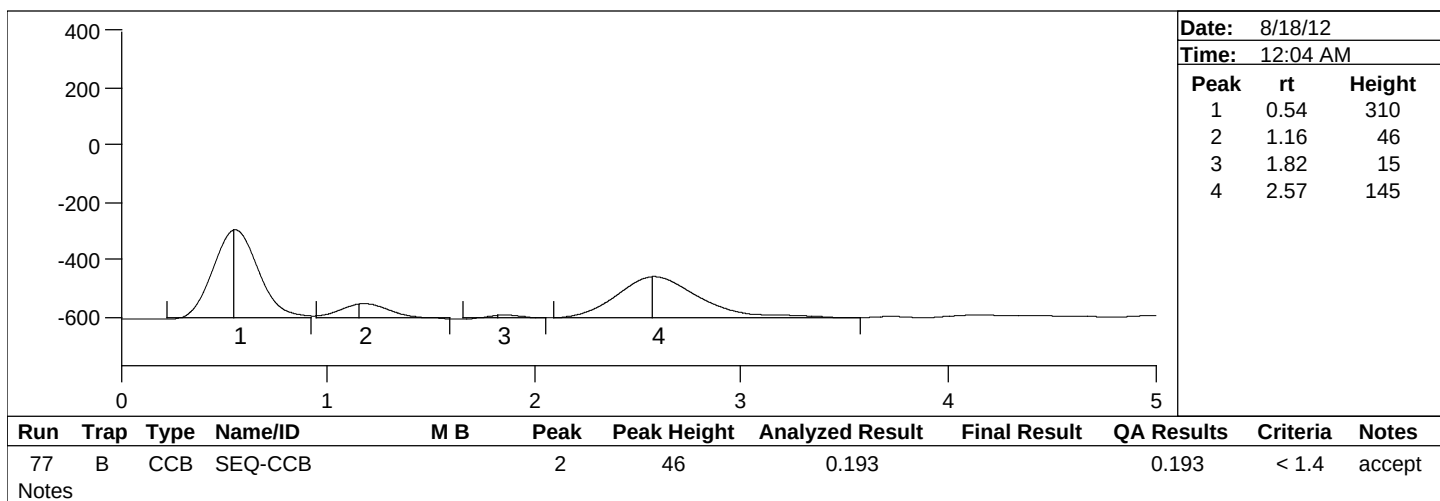
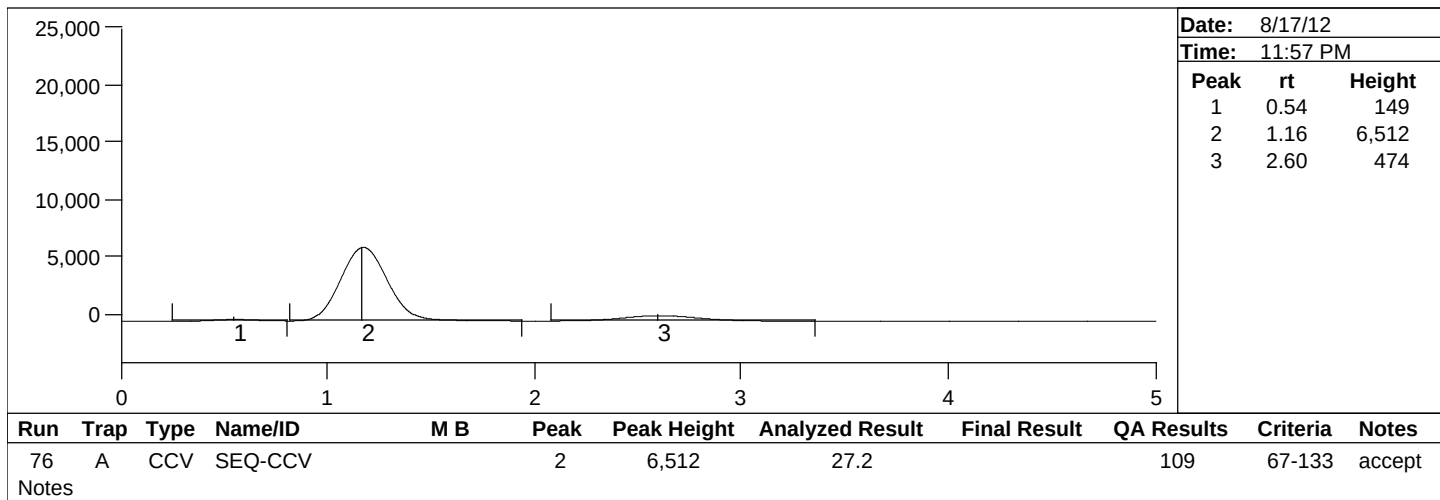
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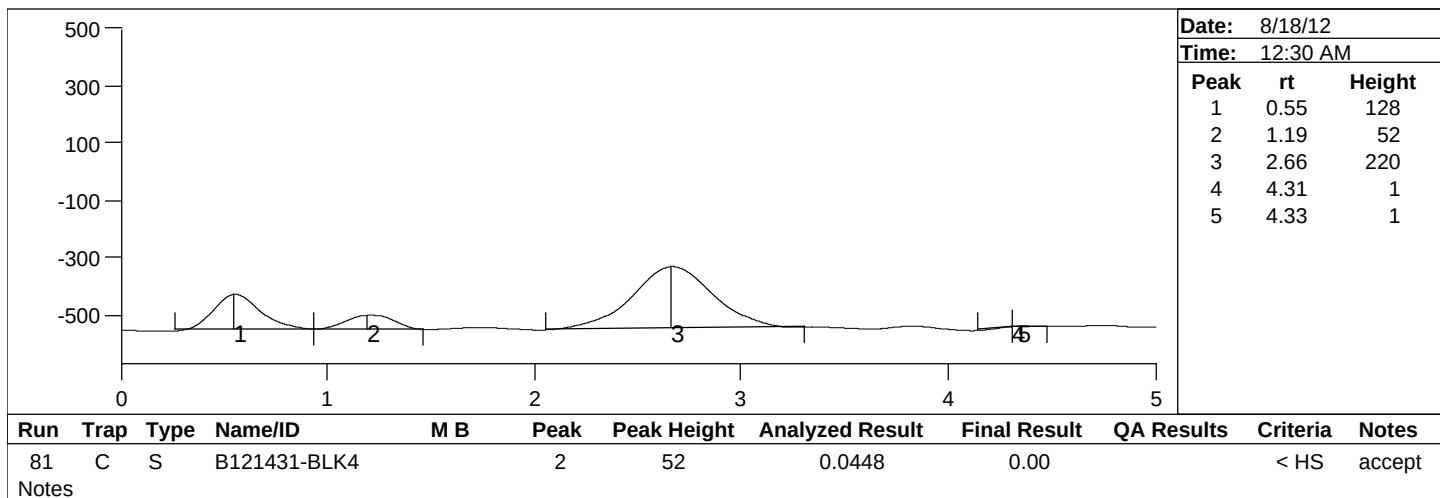
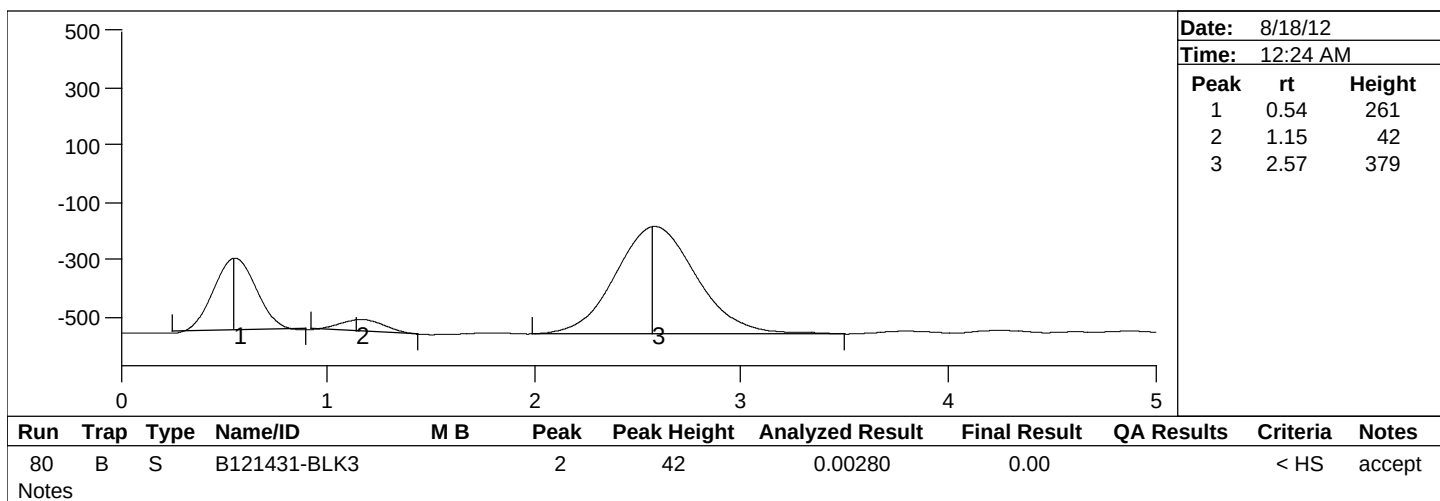
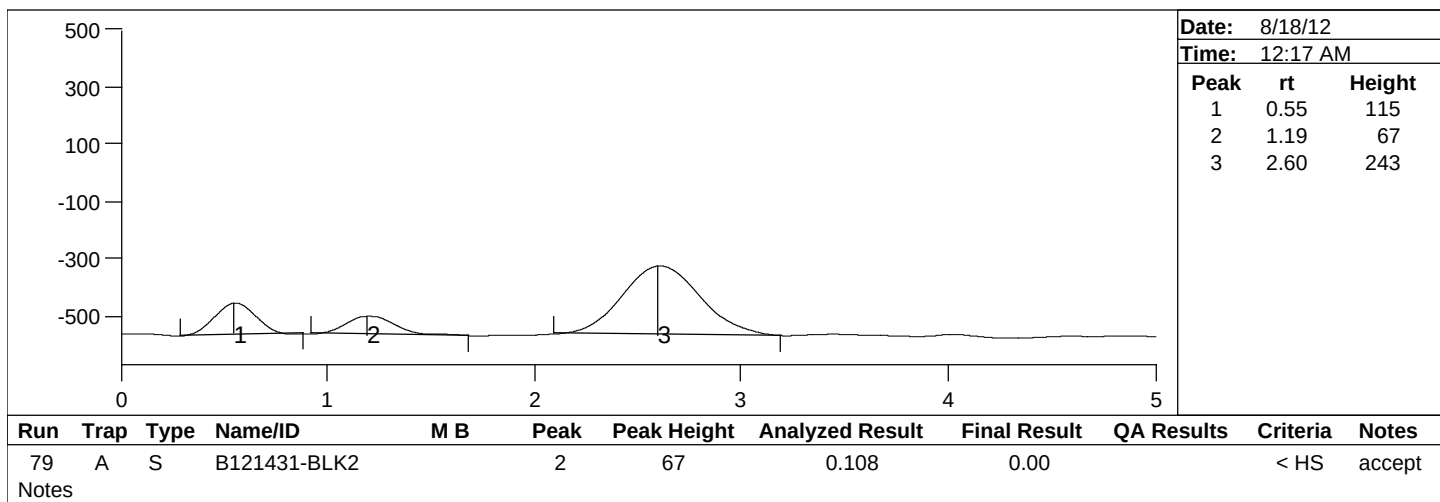
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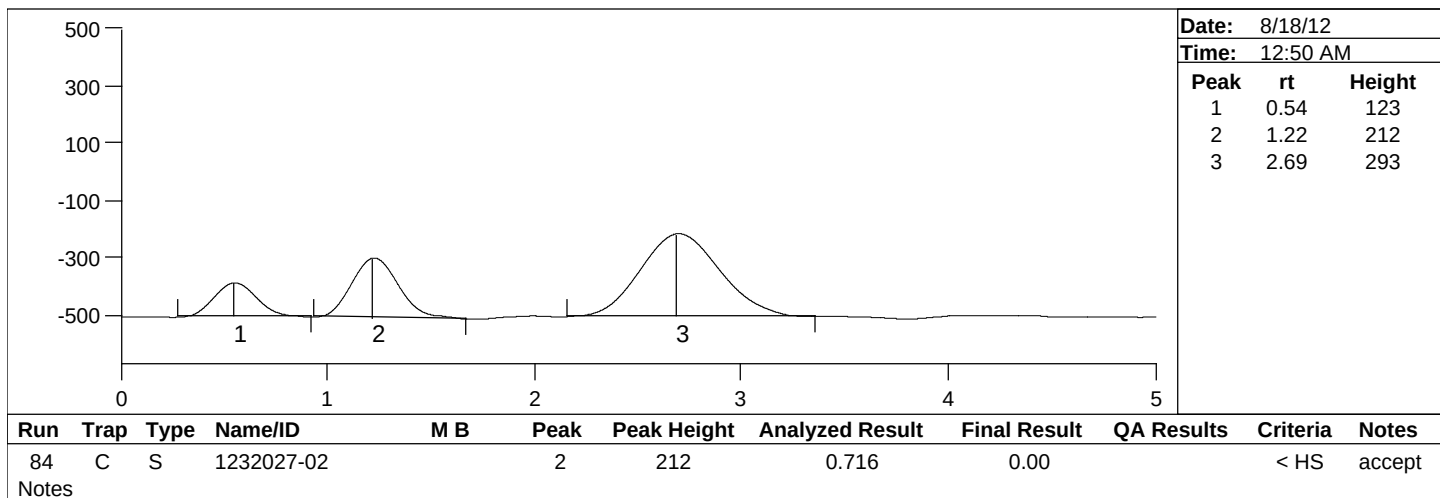
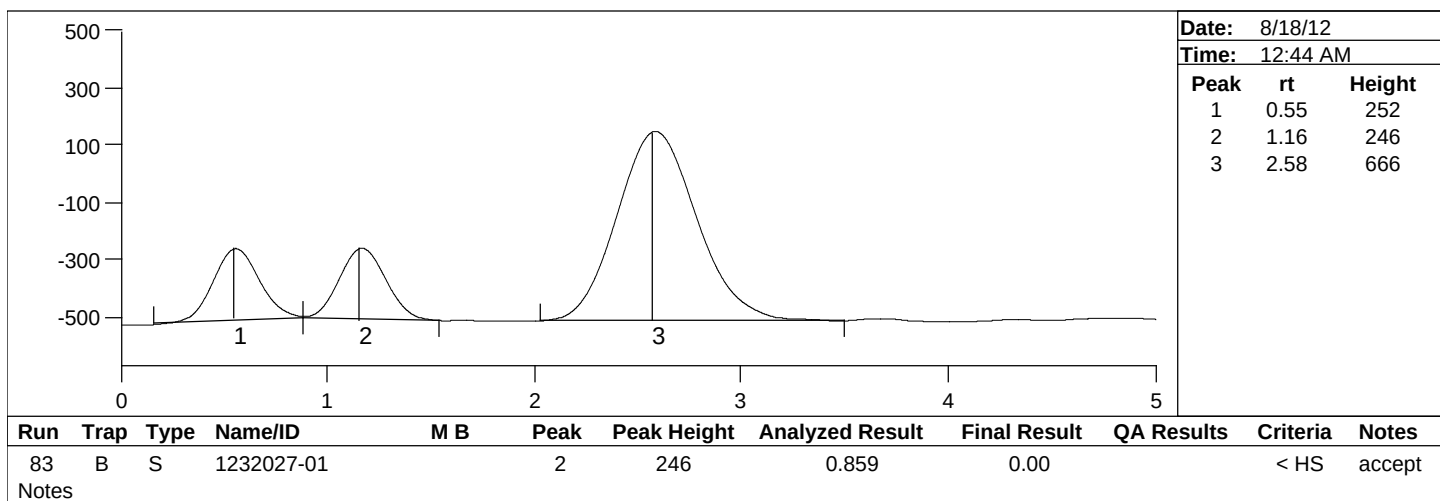
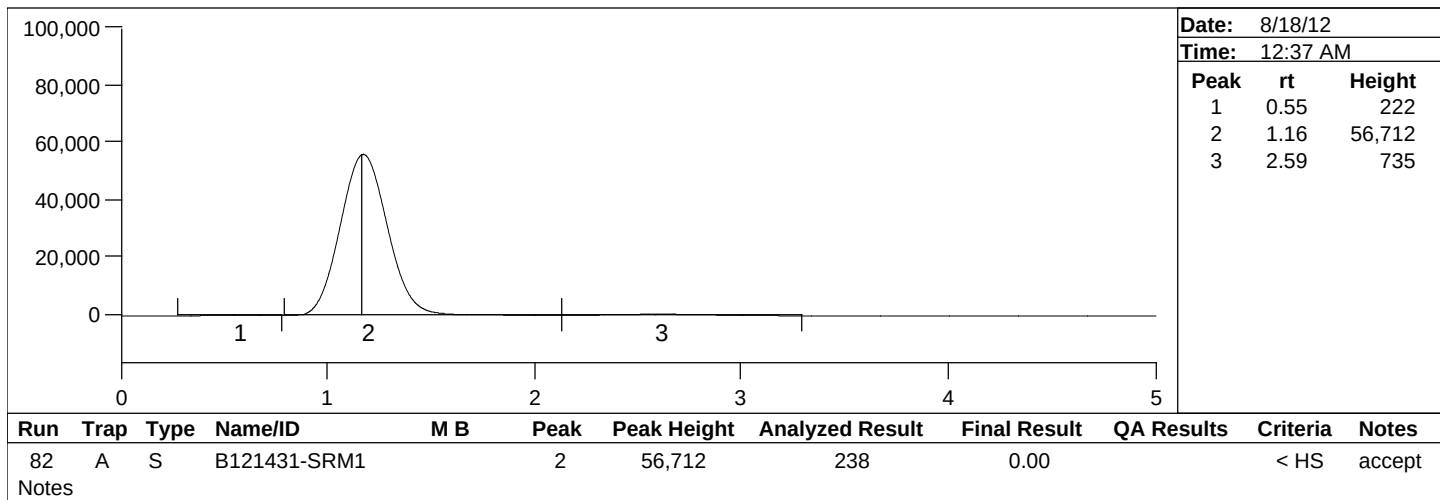
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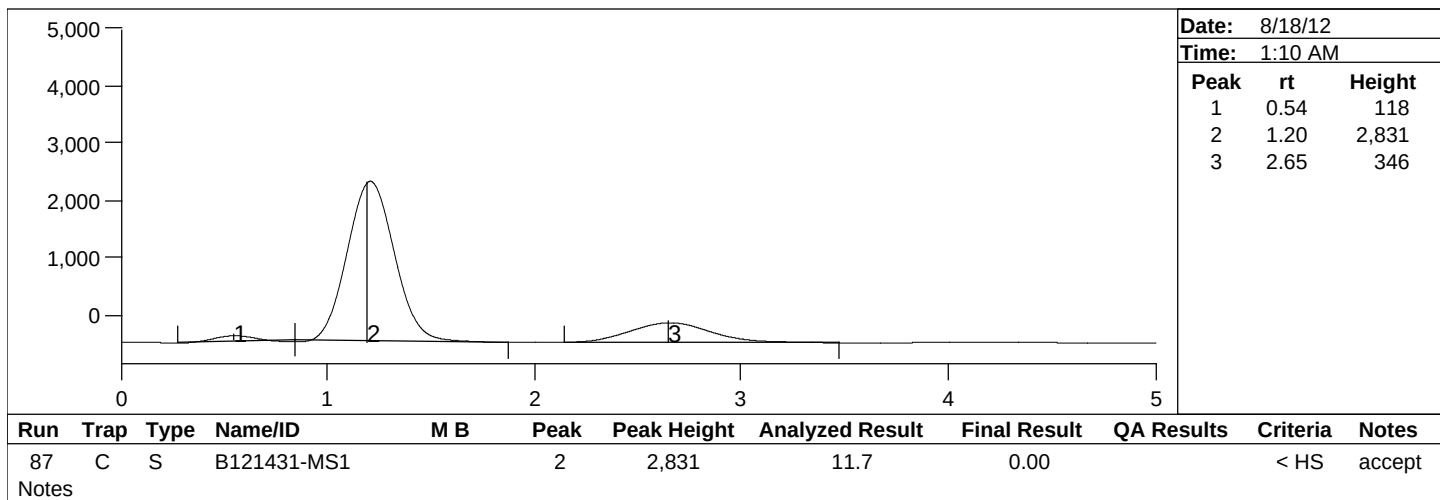
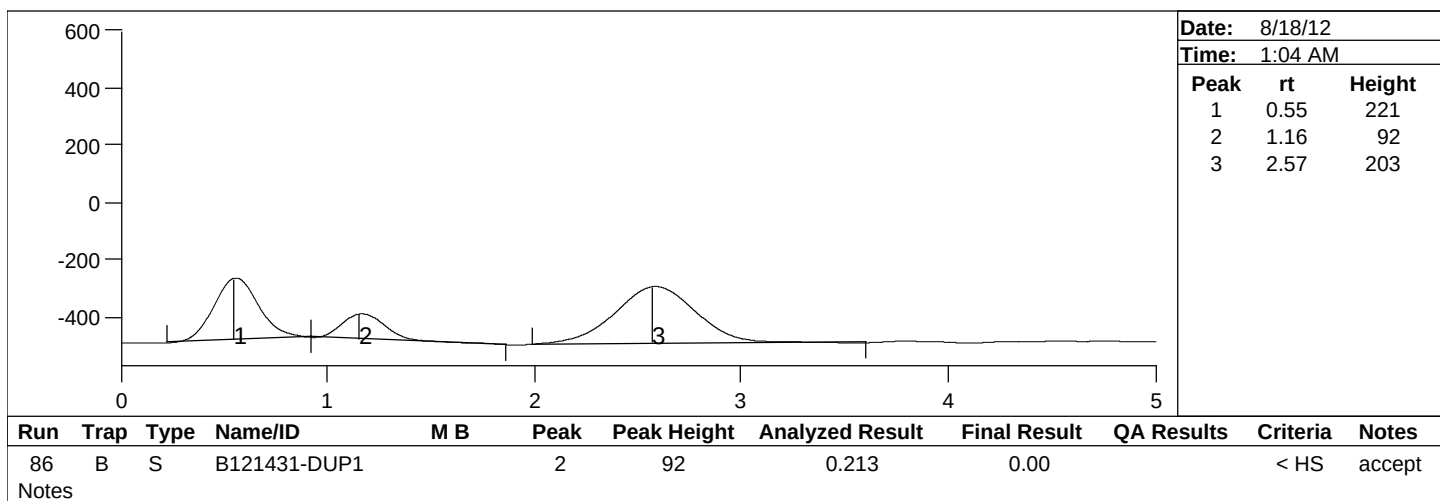
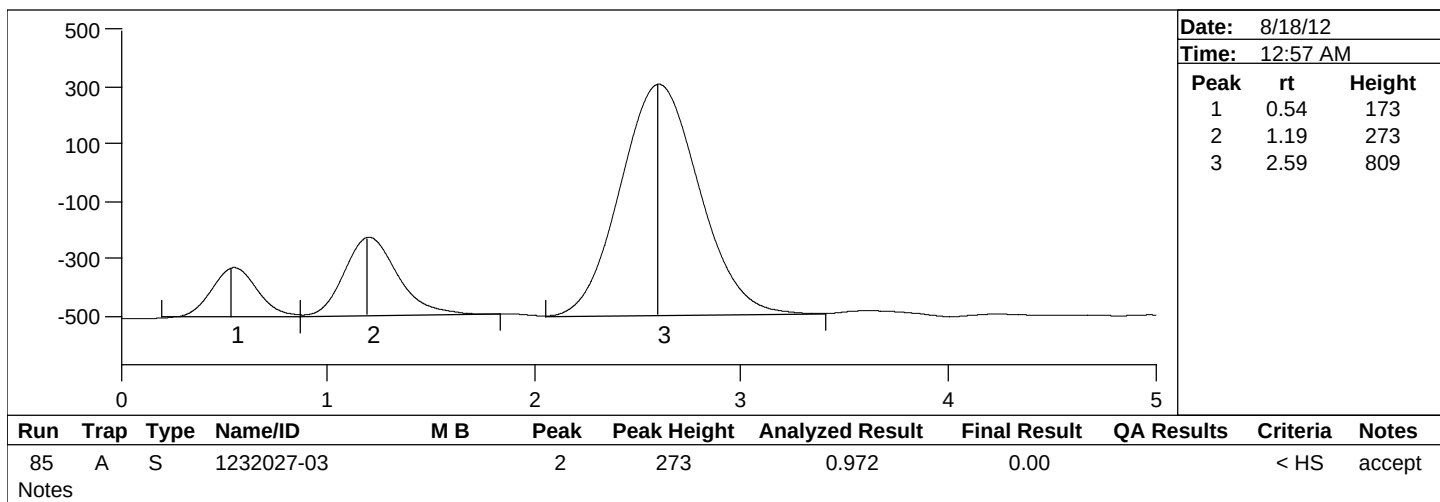
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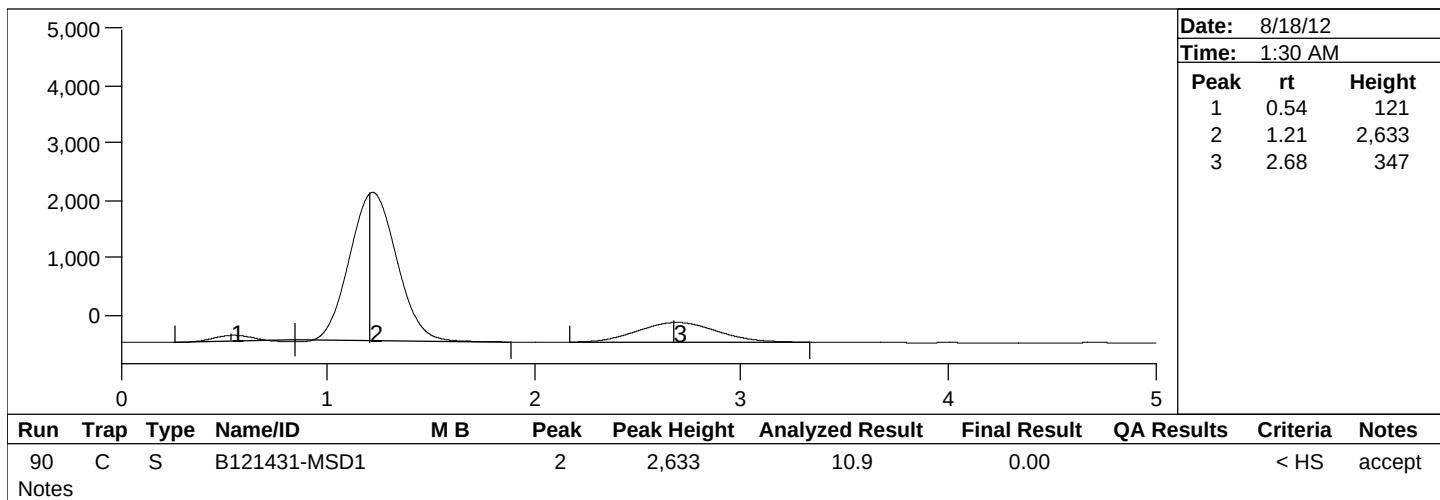
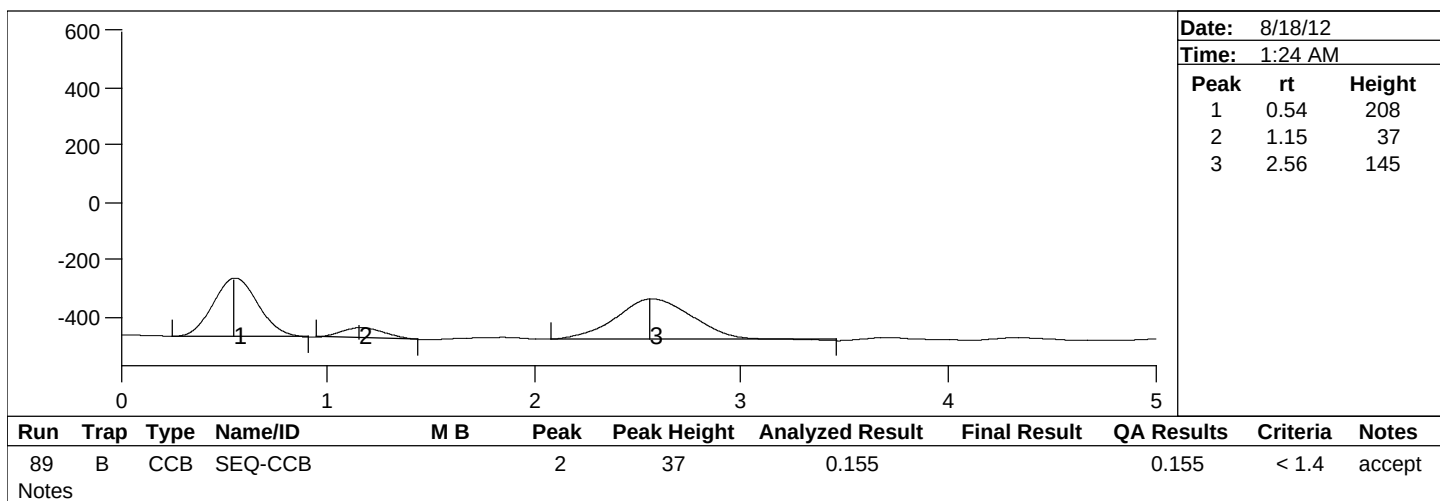
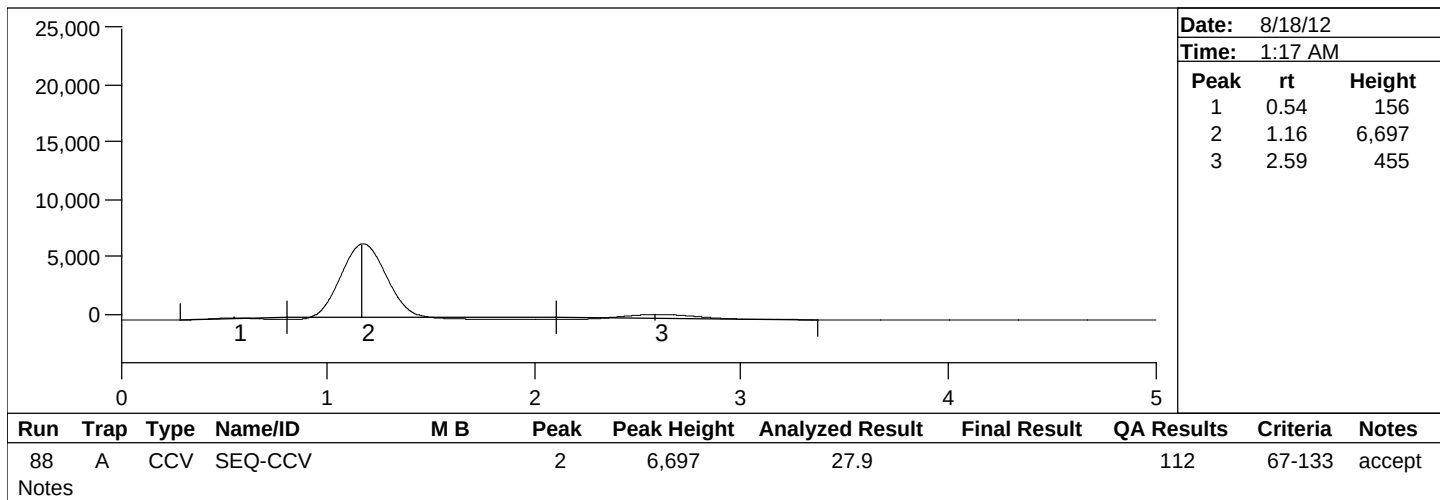
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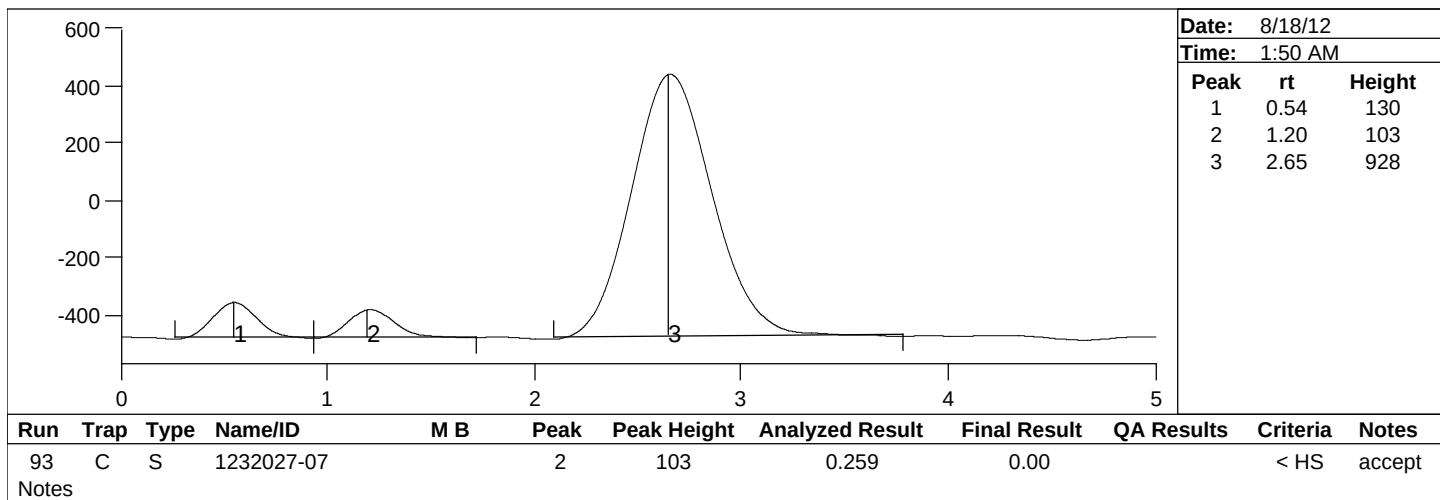
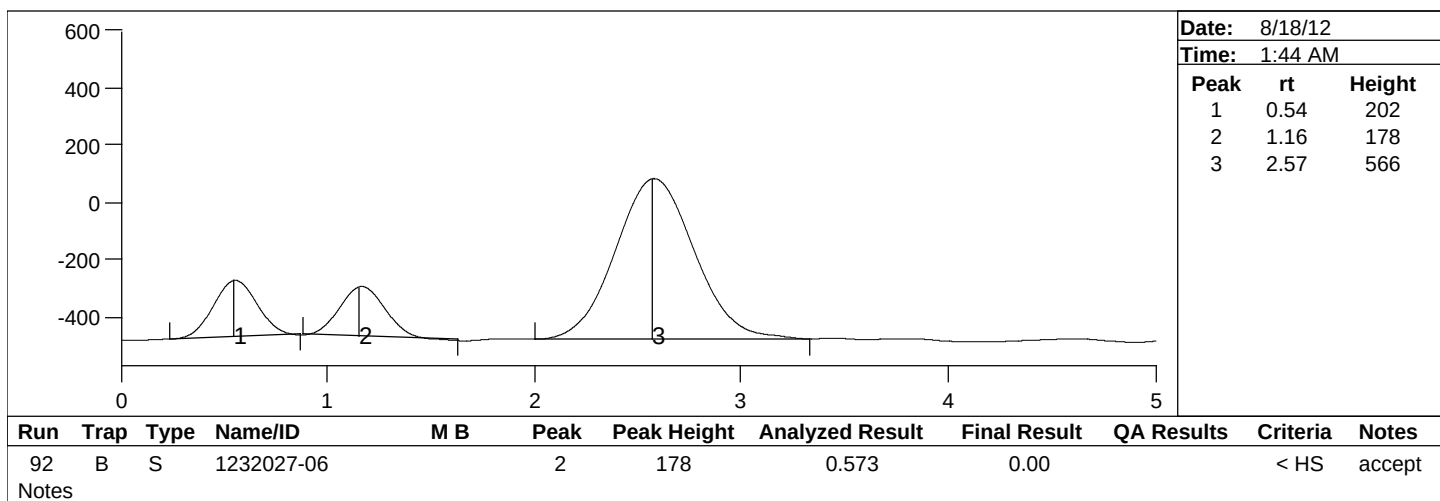
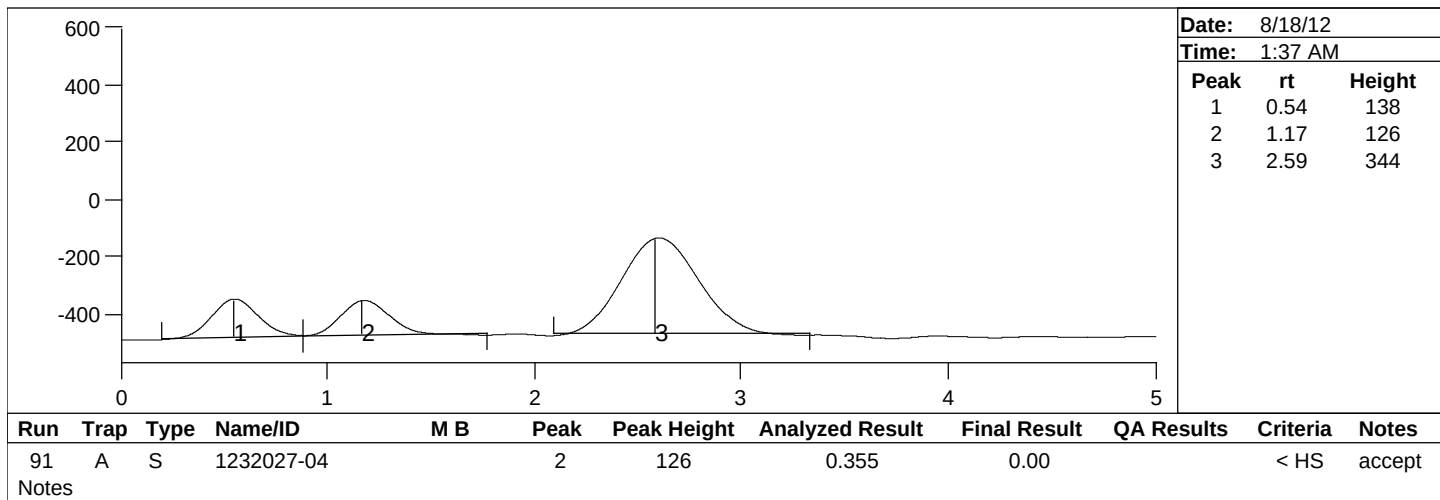
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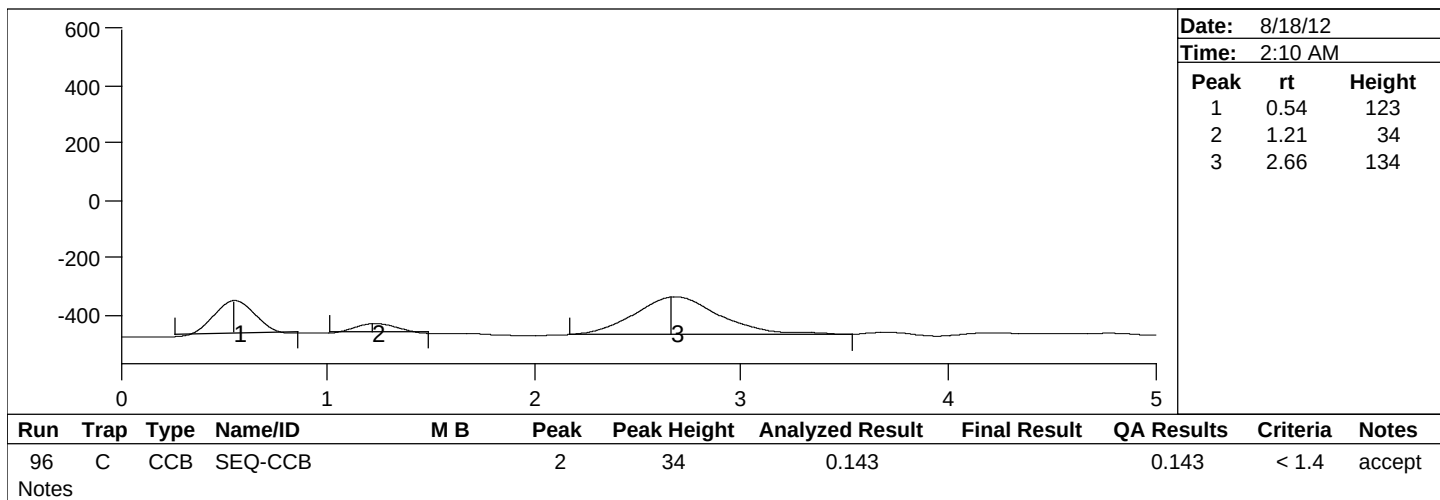
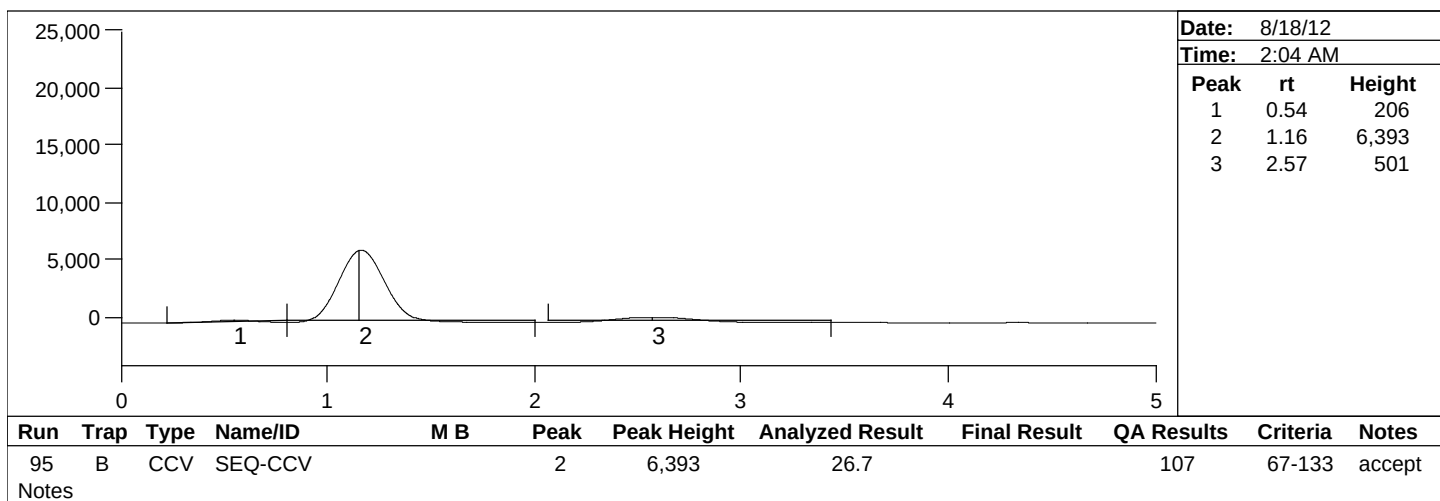
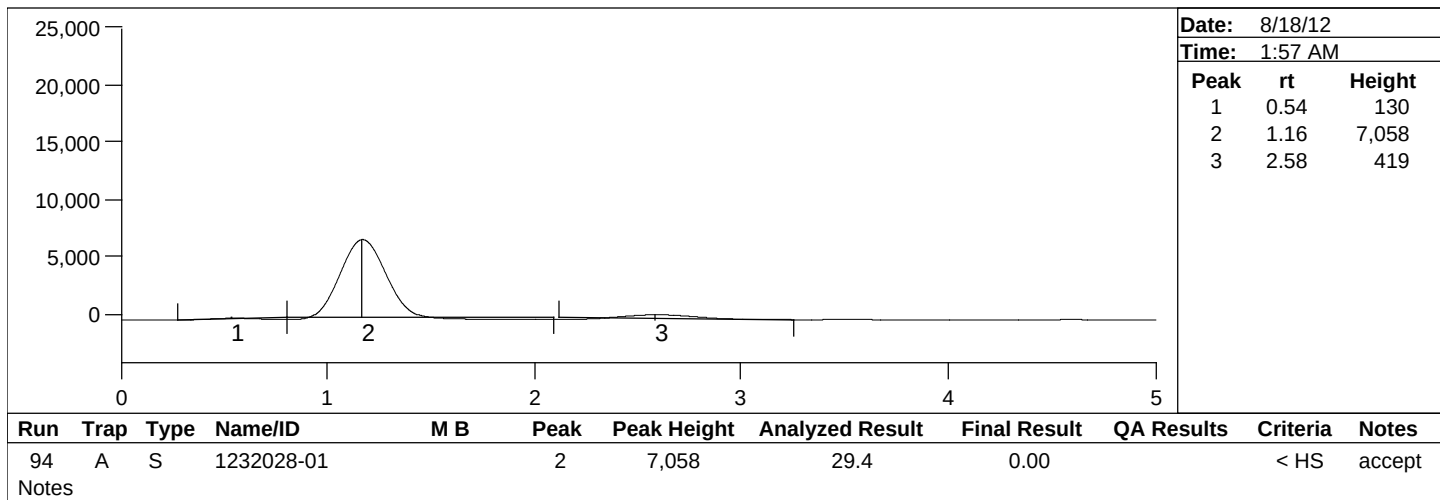
Method Number: CVAFS BR-0011

Project Number(s): 1200640

Instrument ID: MMHG-09

Date Analyzed: 8/17/12

Analyst Name: BJT



Peak Report

Batch Number: B121370, 1338, 1336, 1431

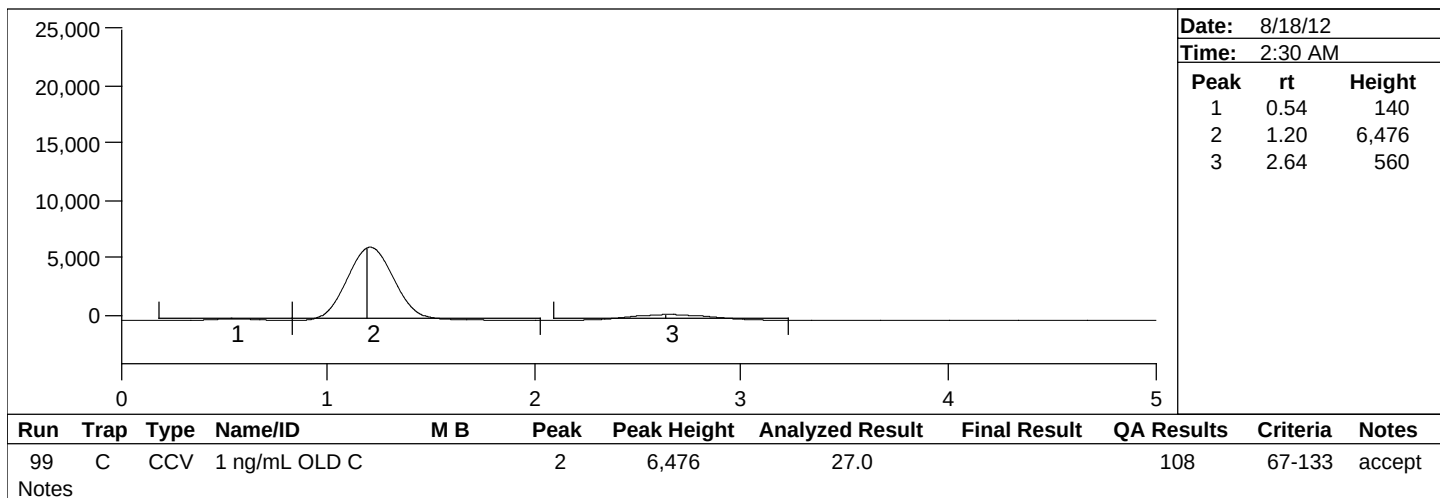
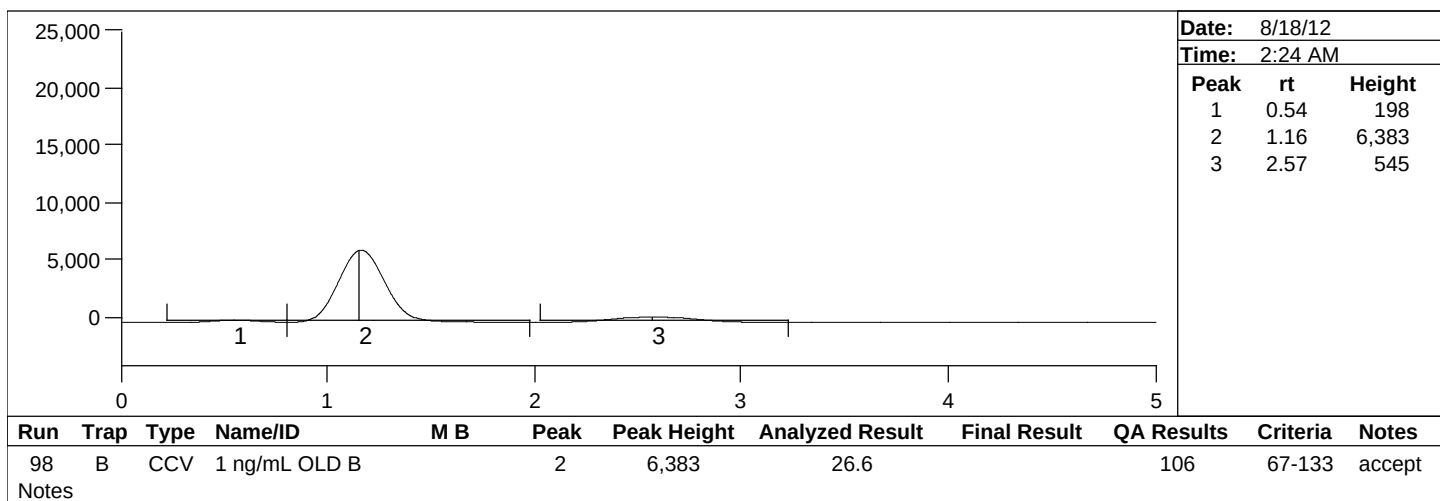
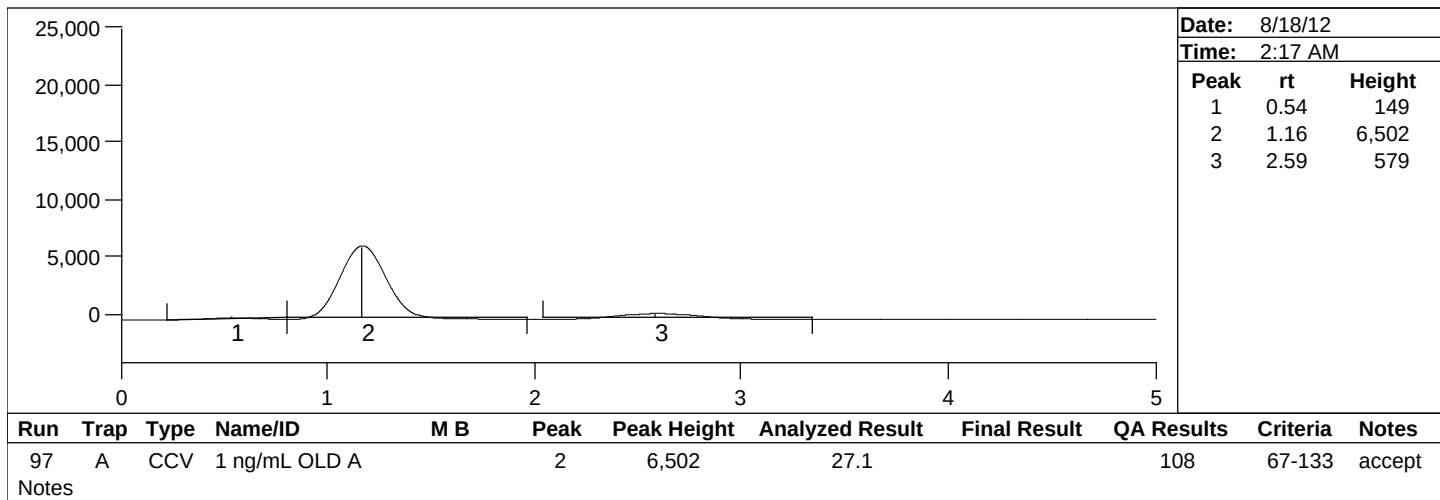
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Analyst Name: BJT



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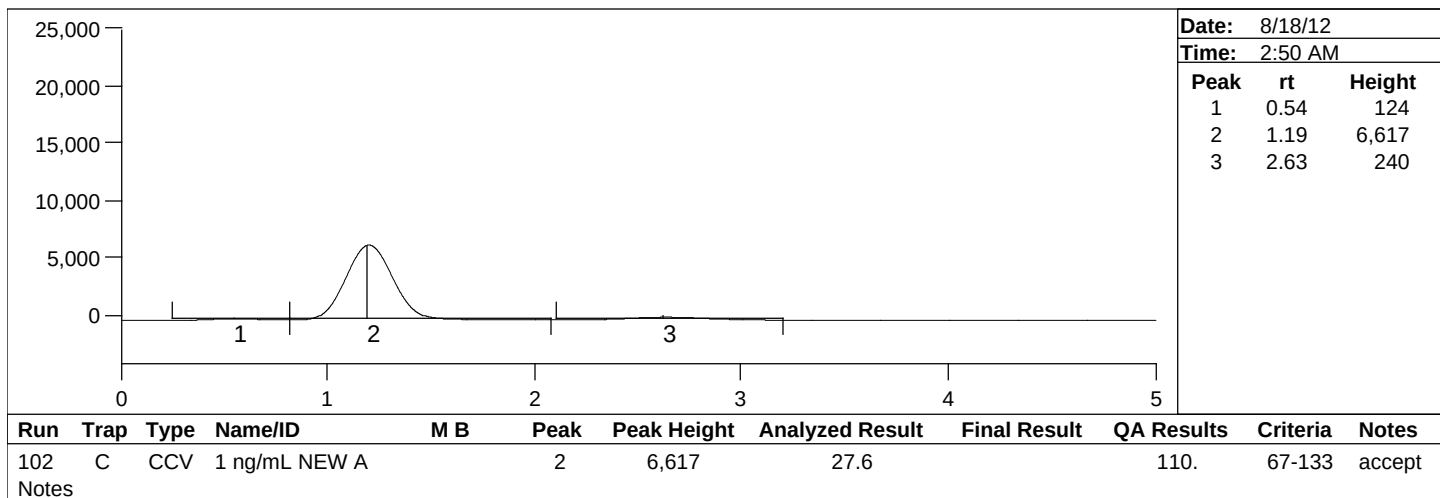
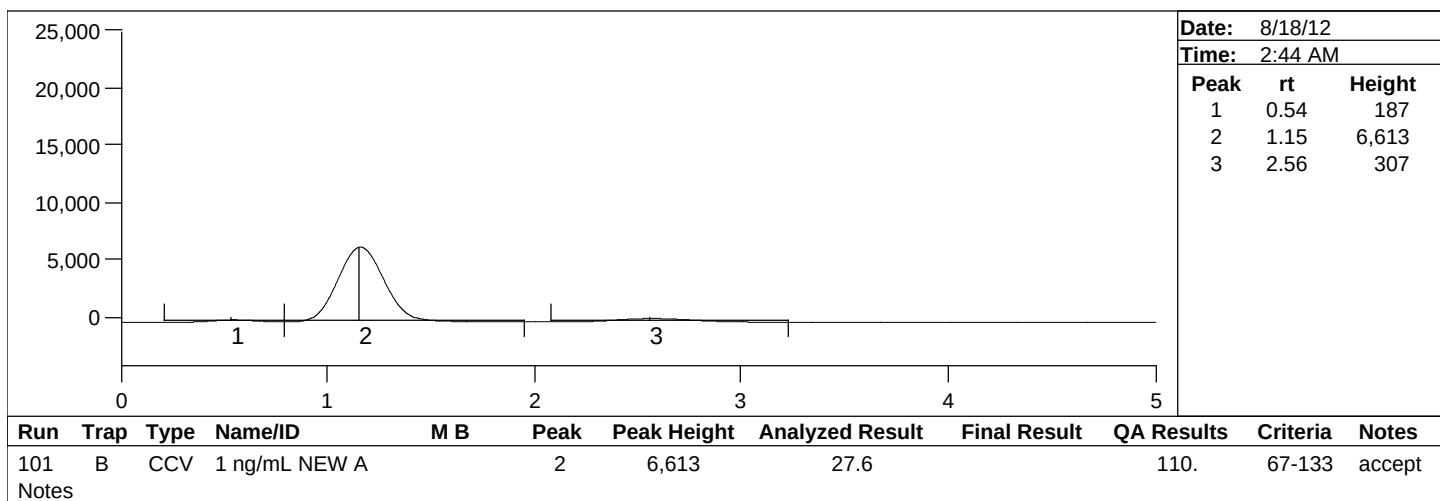
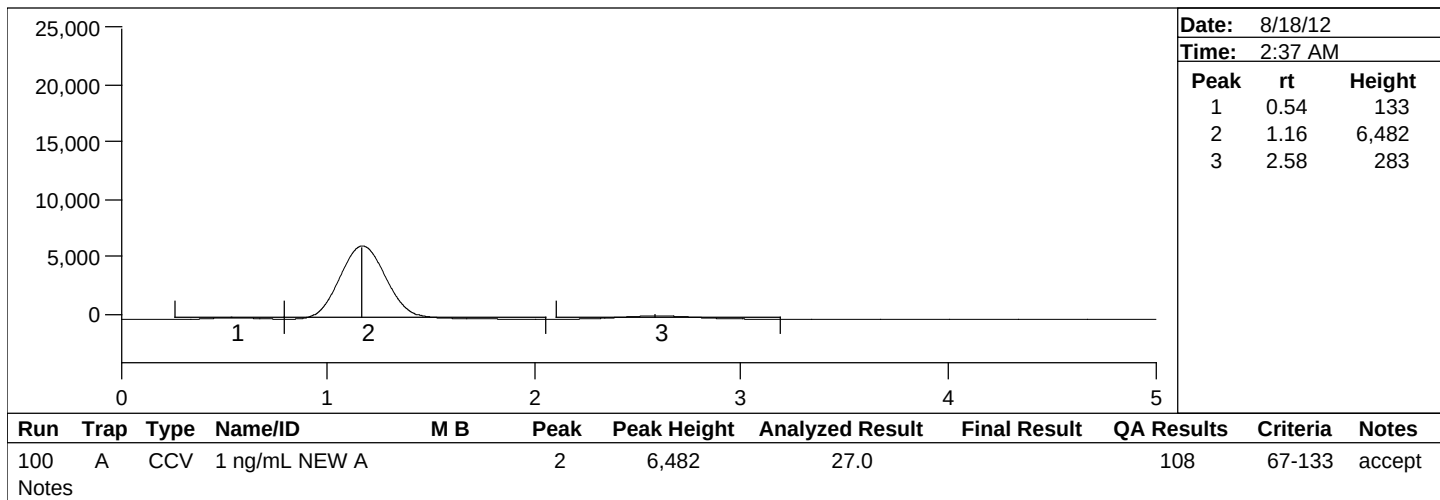
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Analyst Name: BJT



Peak Report

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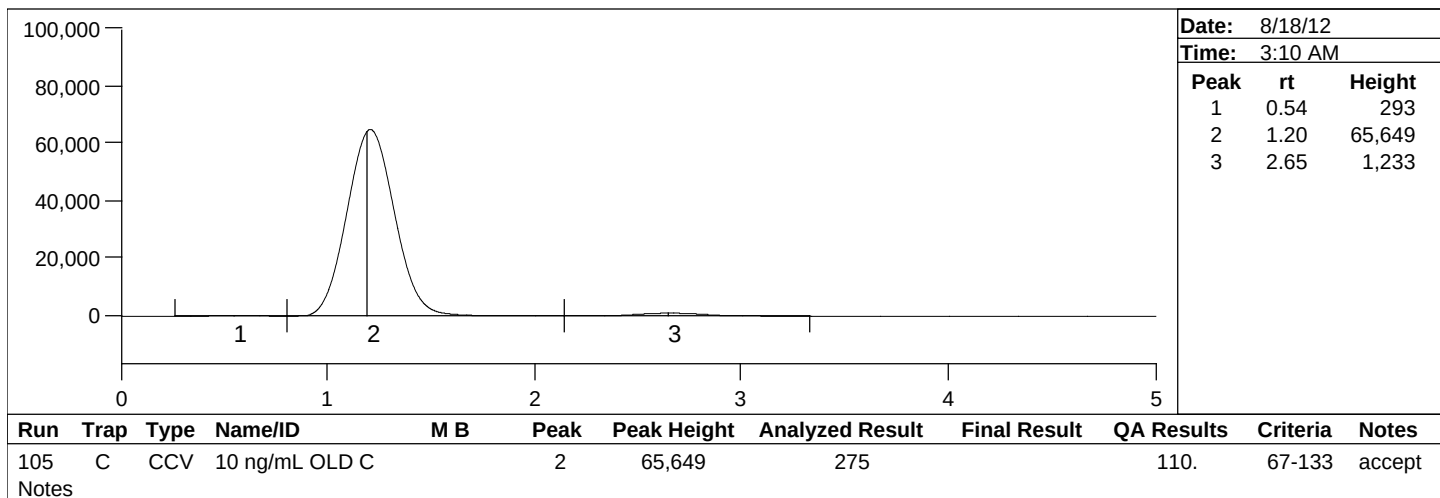
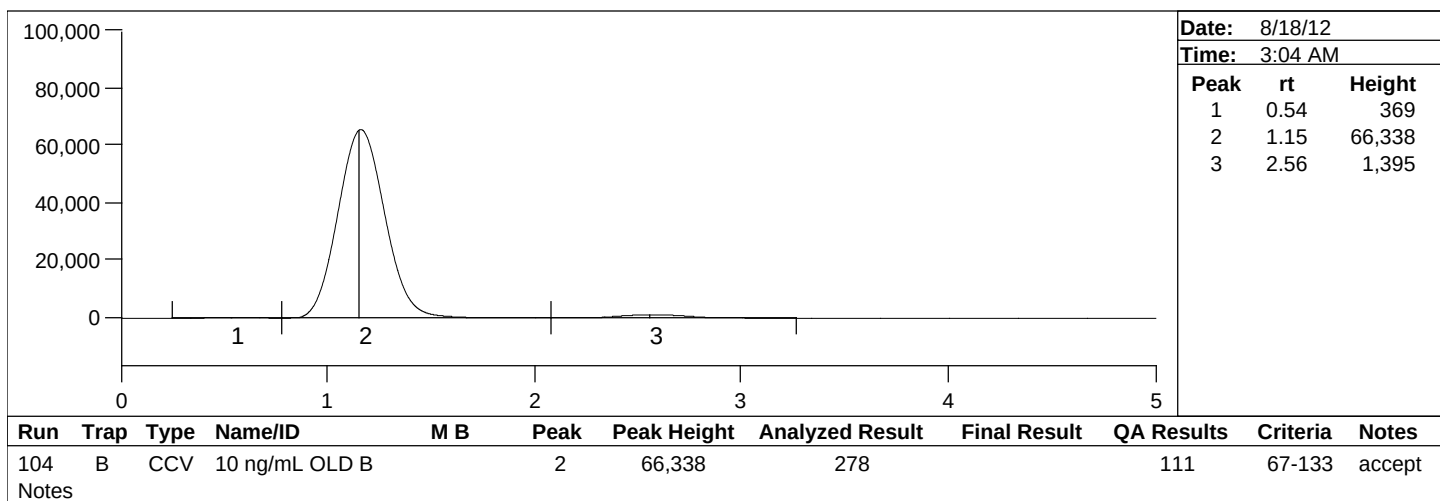
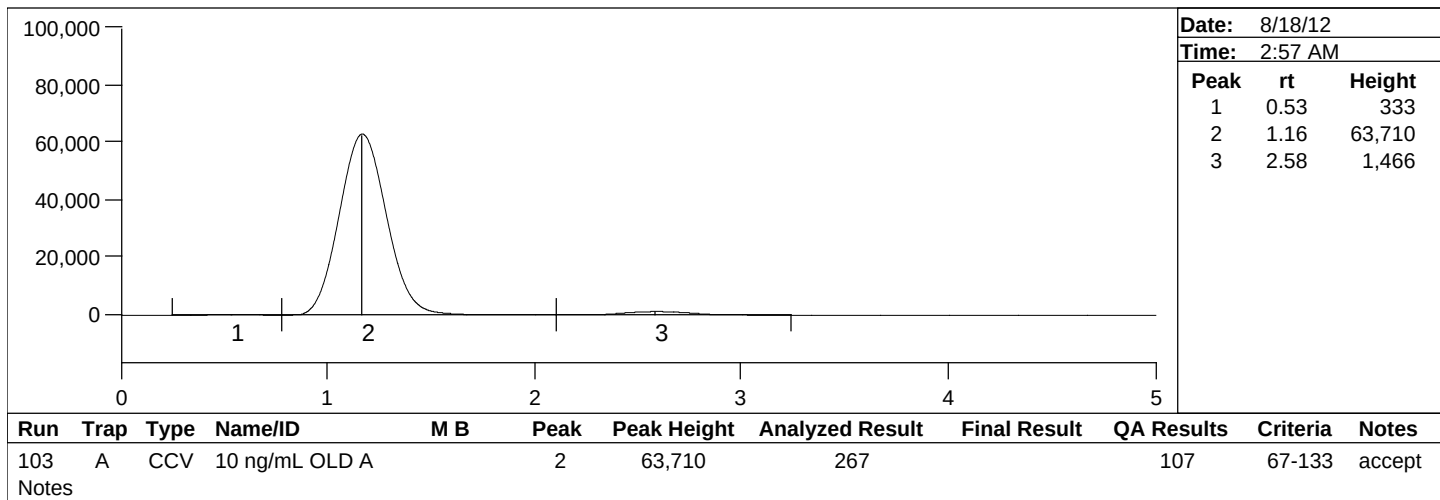
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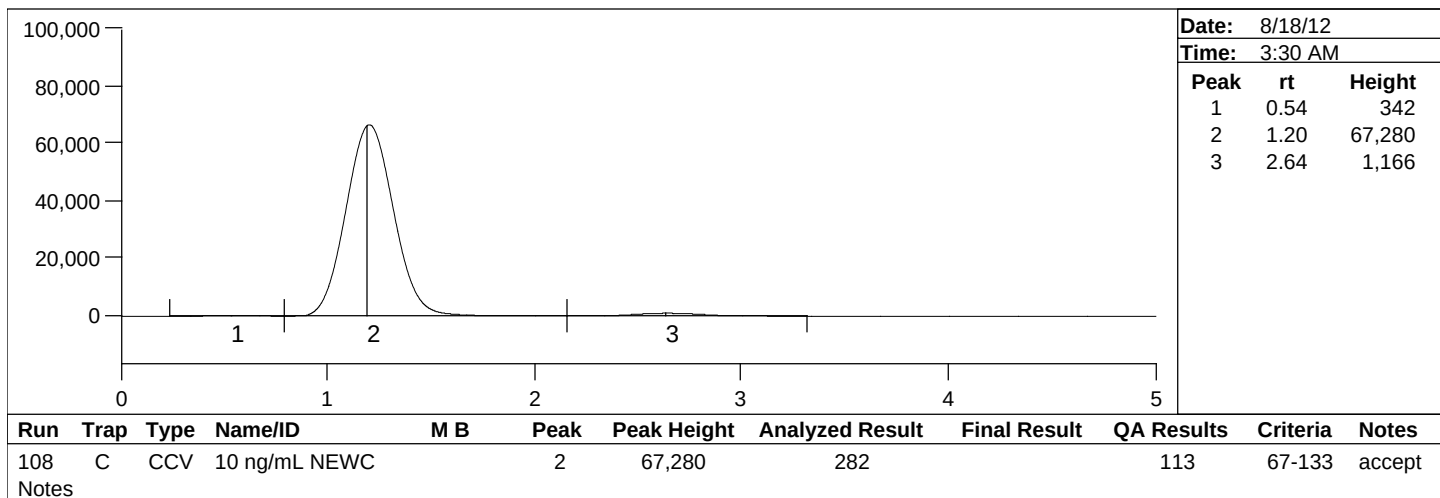
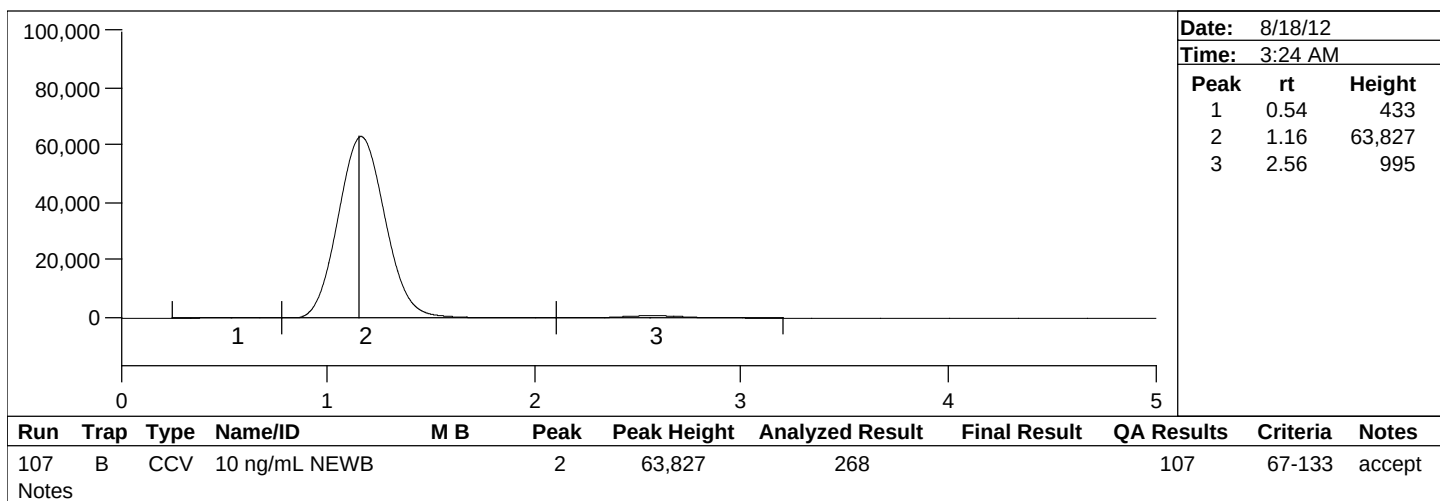
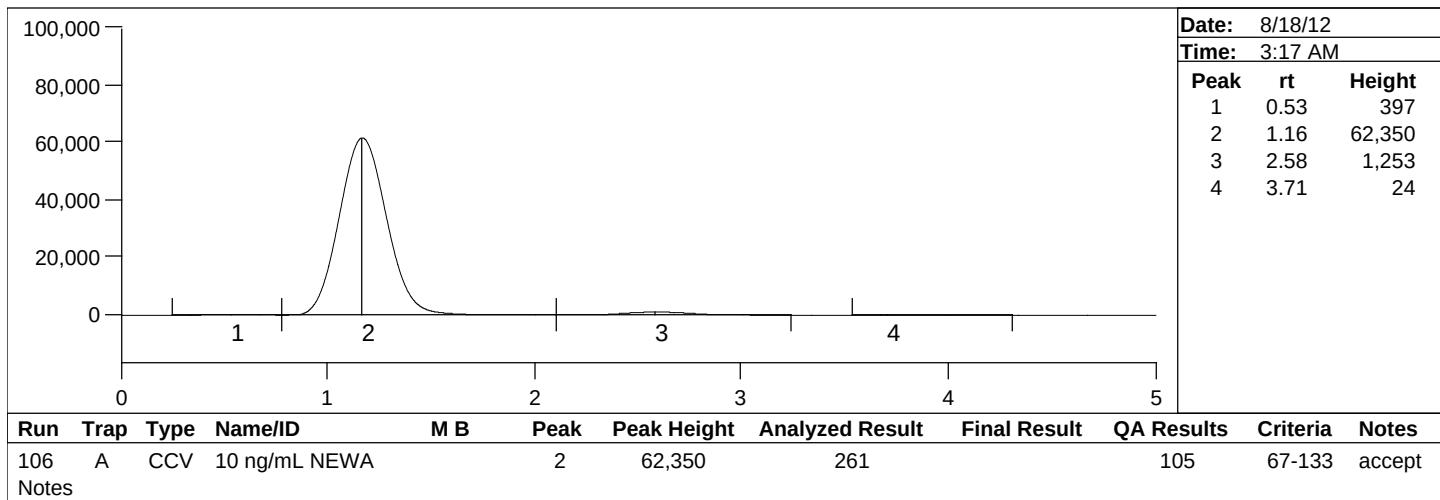
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Project Number(s): 1200640

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Date Analyzed: 8/17/12

Analyst Name: BJT



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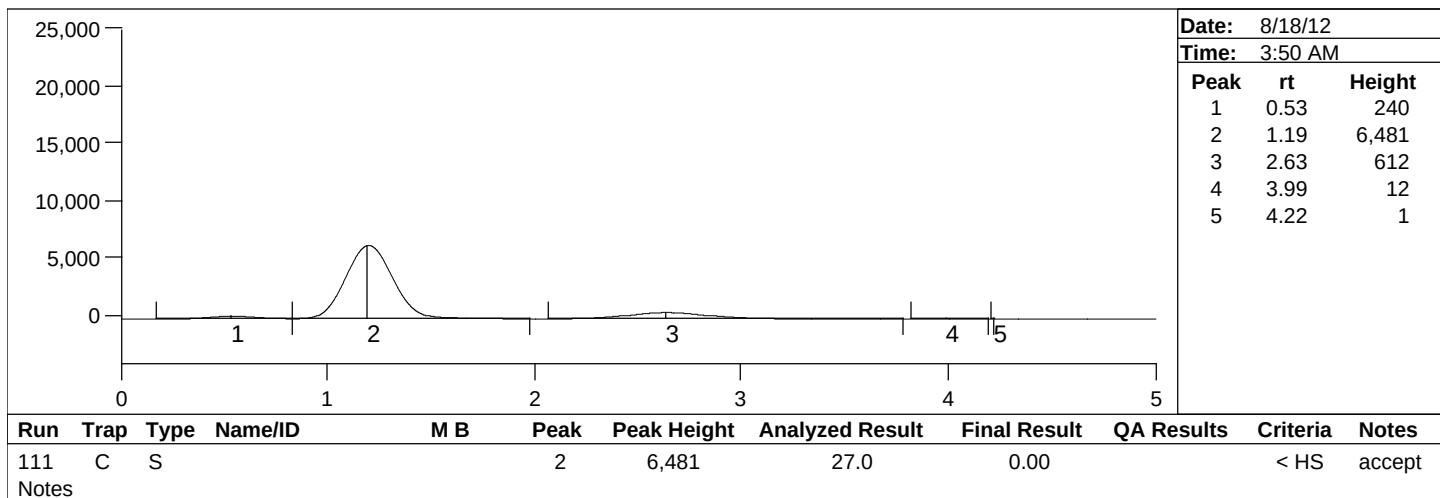
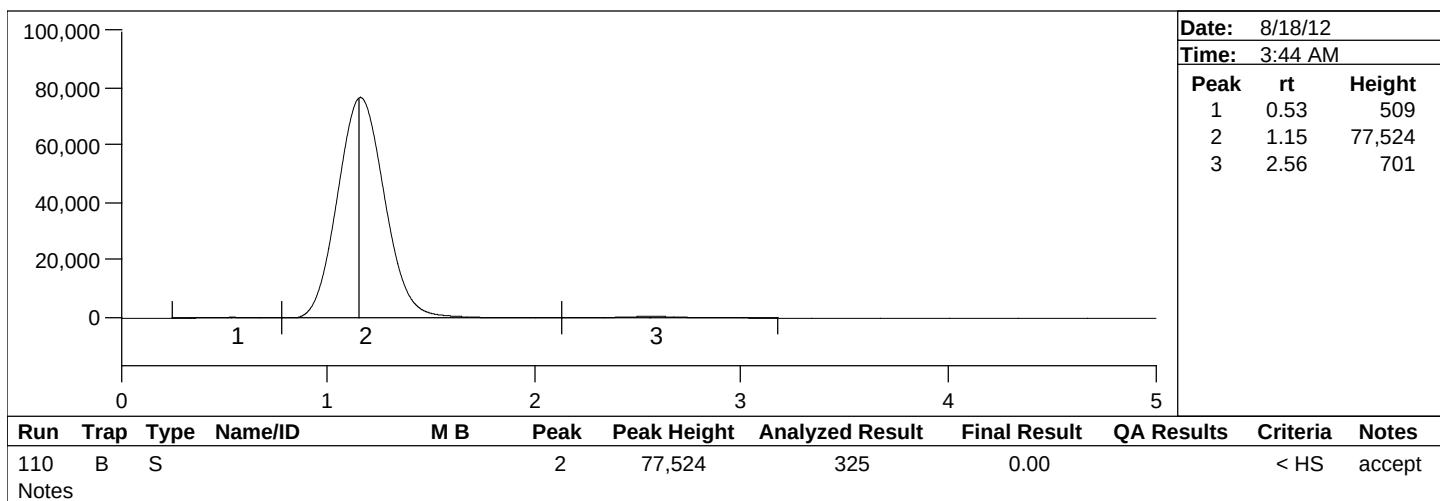
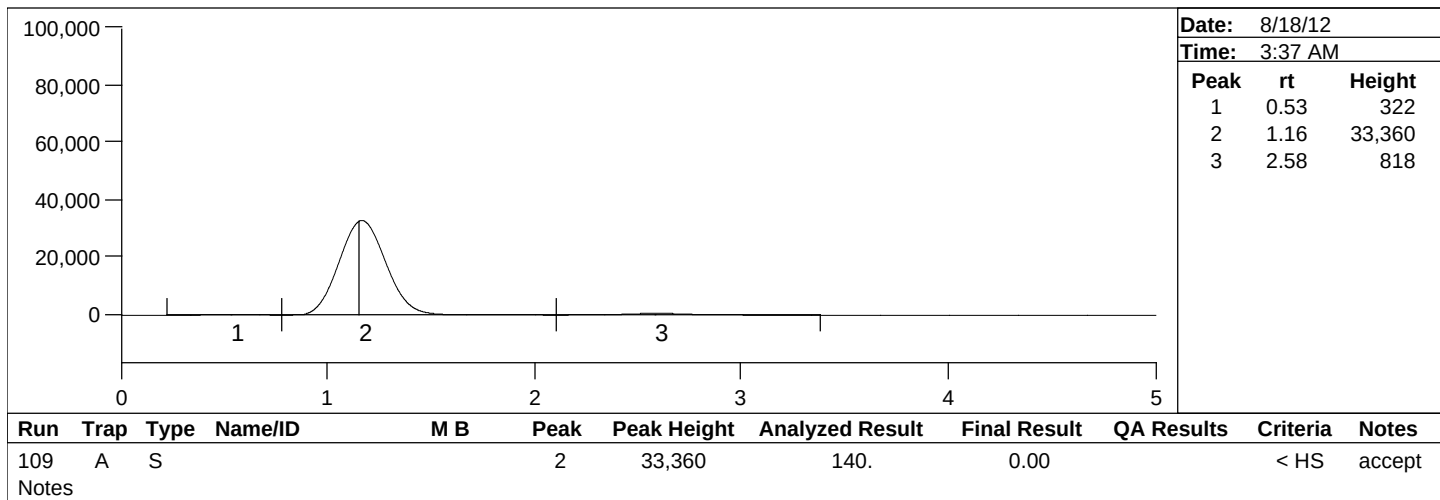
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Project Number(s): 1200640

Instrument ID: MMHG-09

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Analyst Name: BJT



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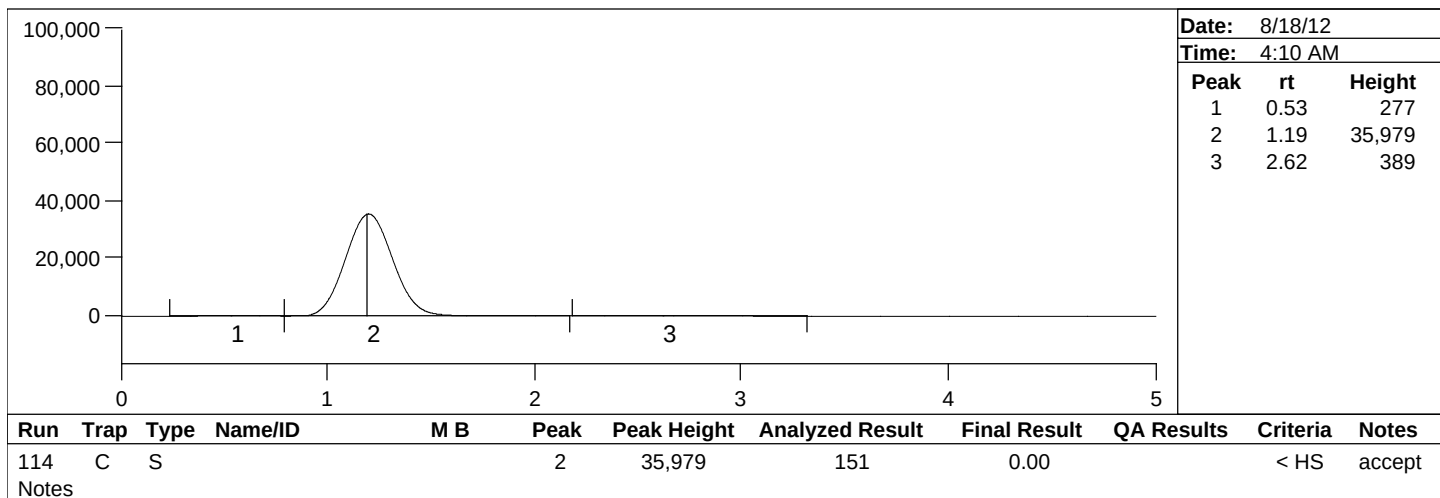
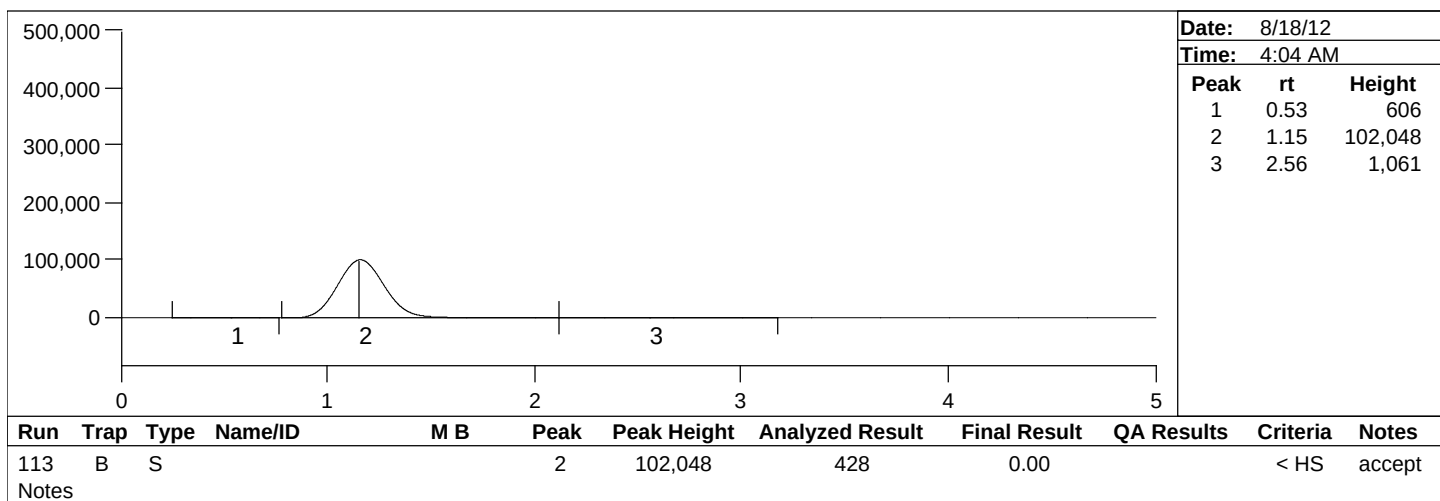
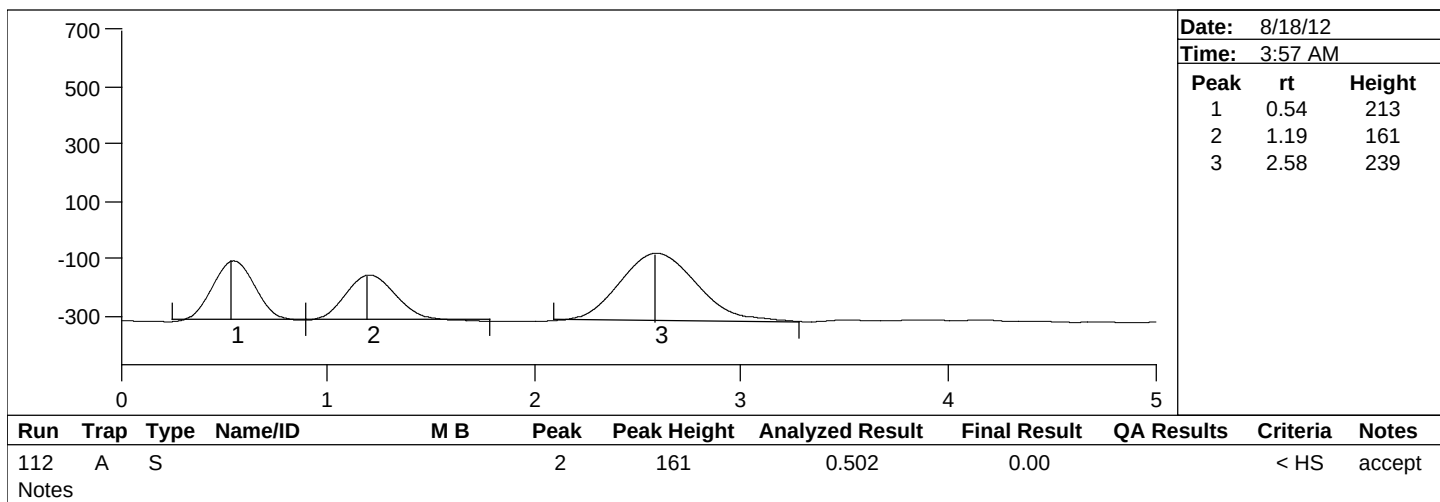
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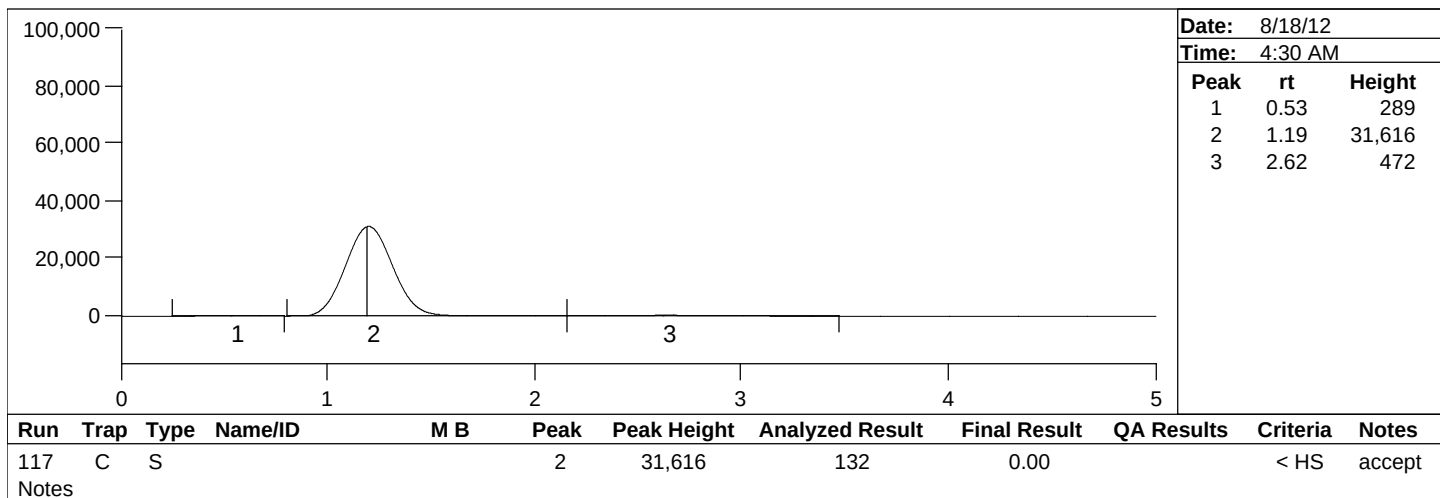
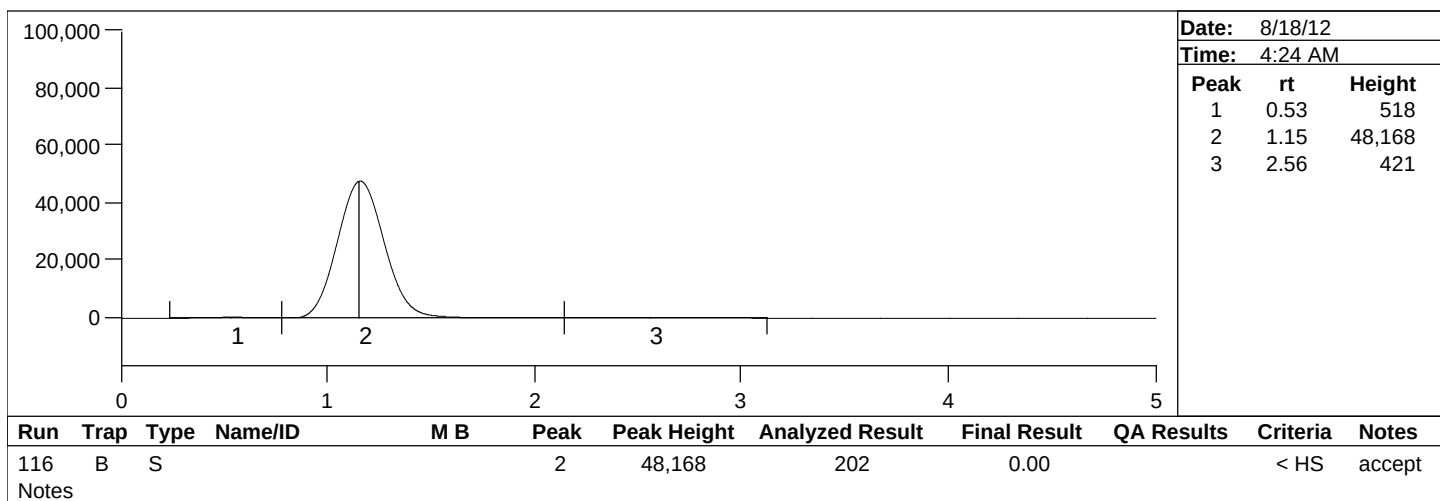
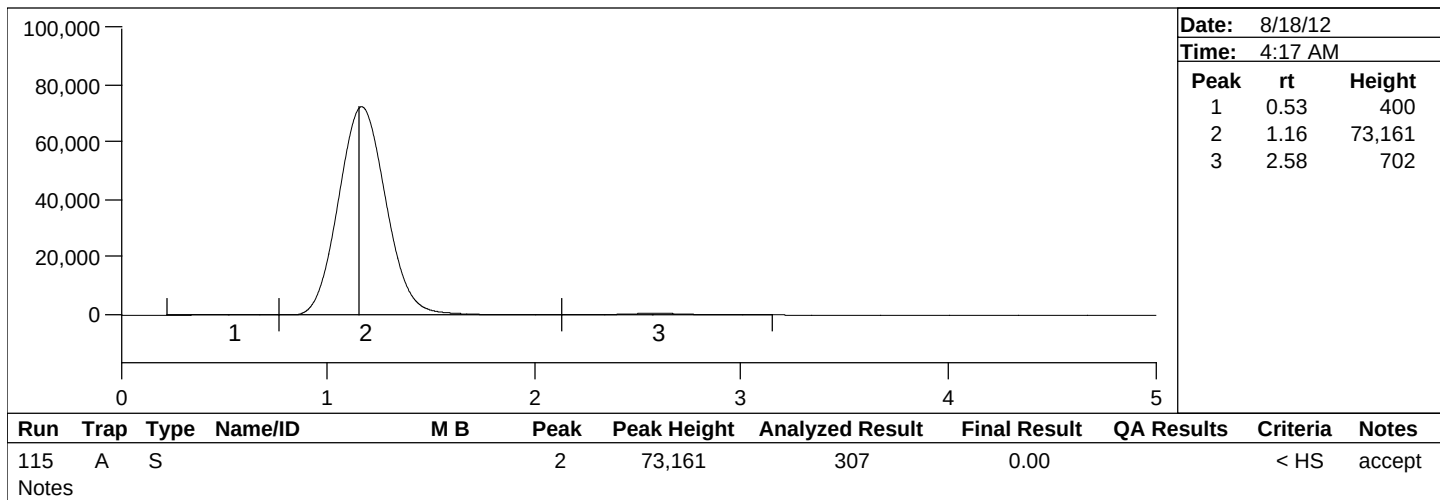
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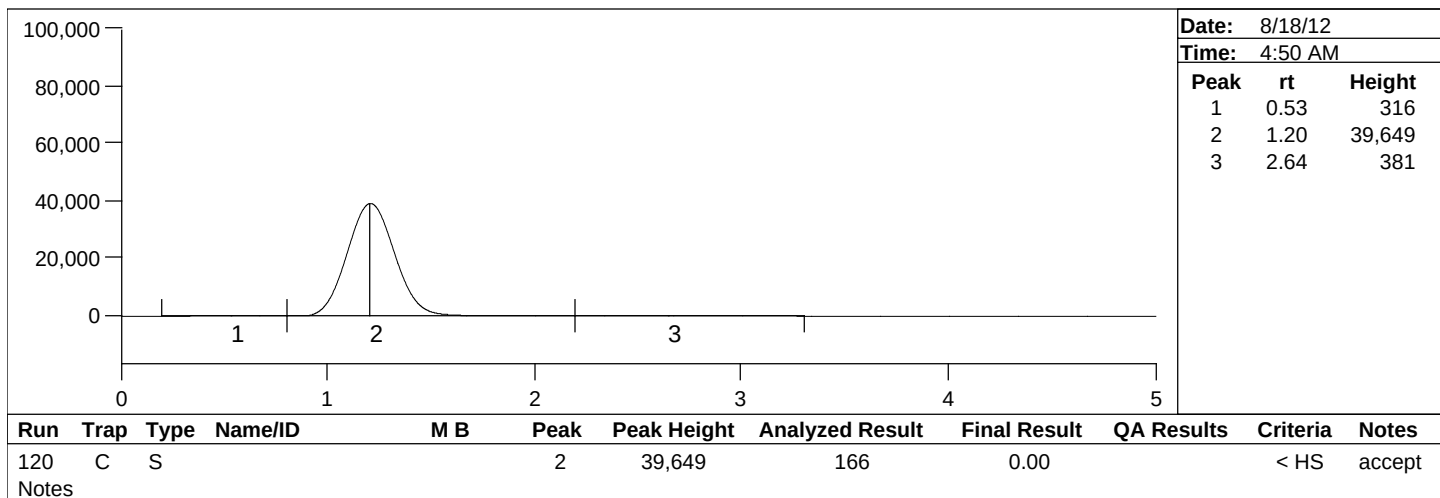
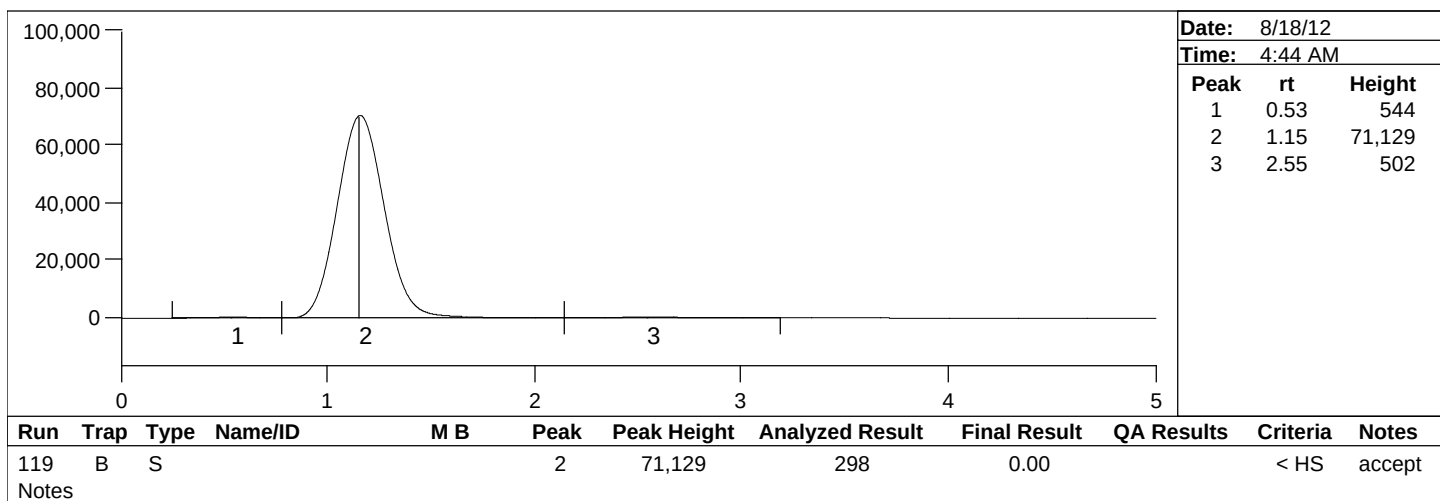
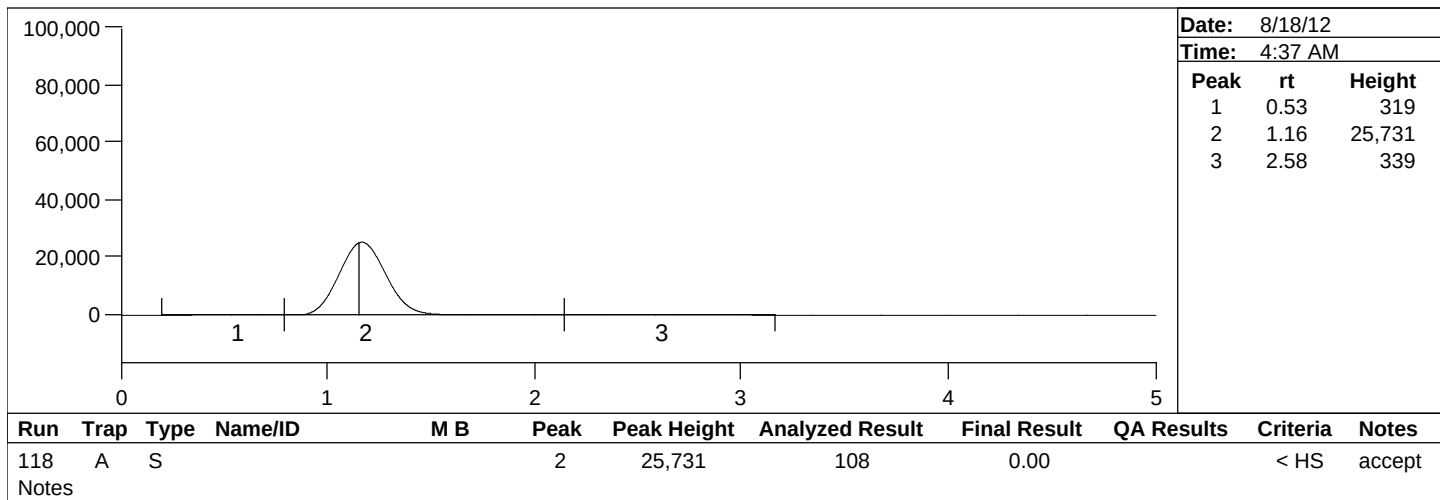
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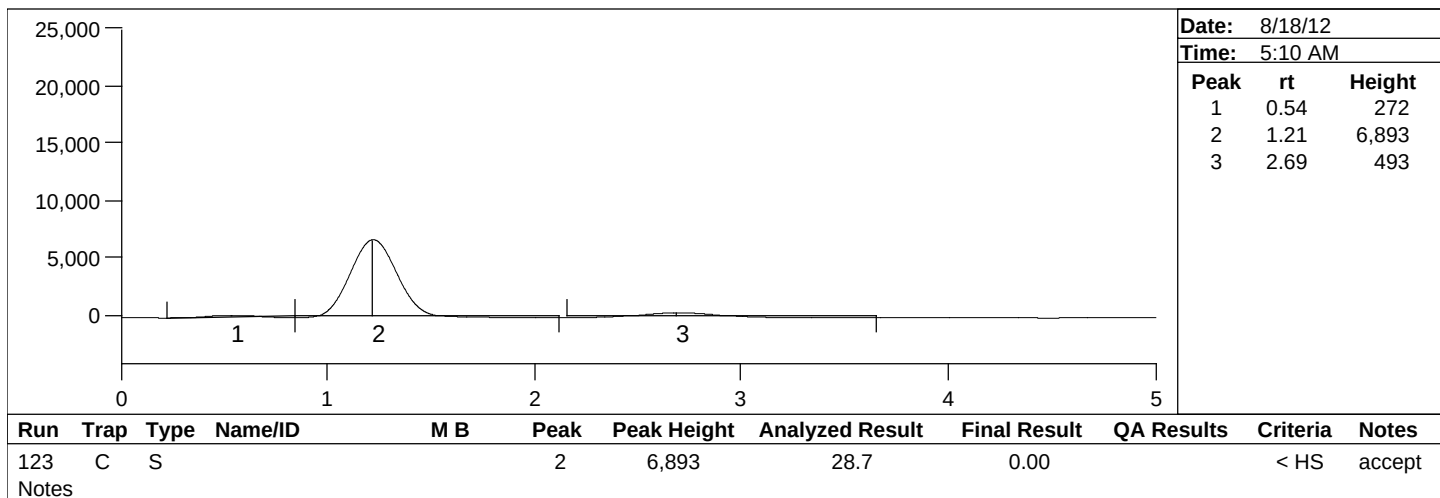
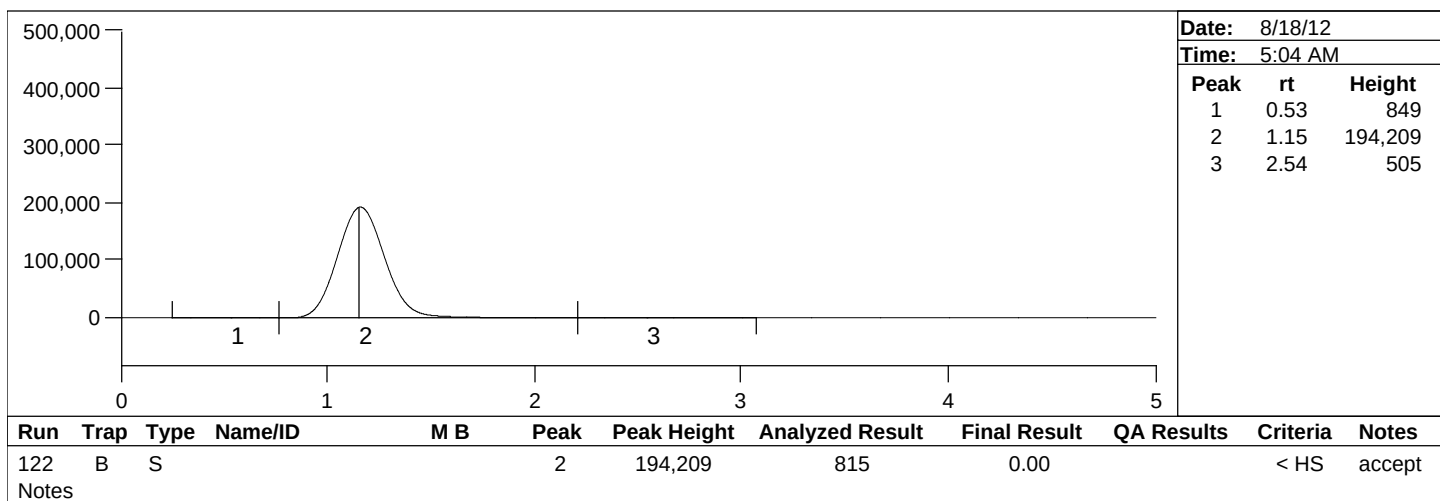
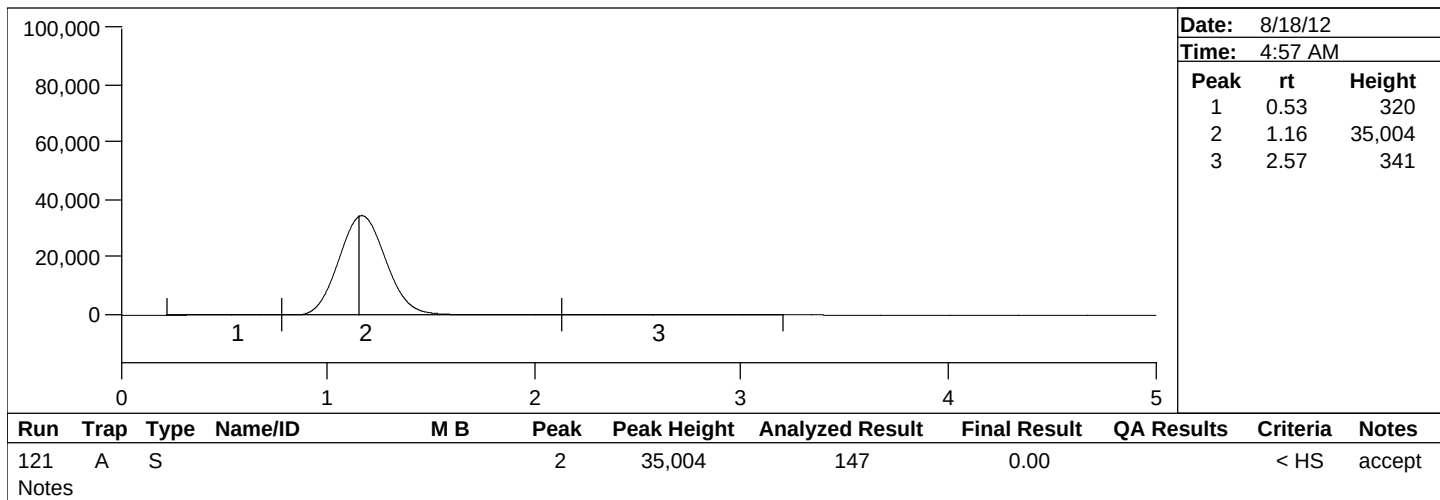
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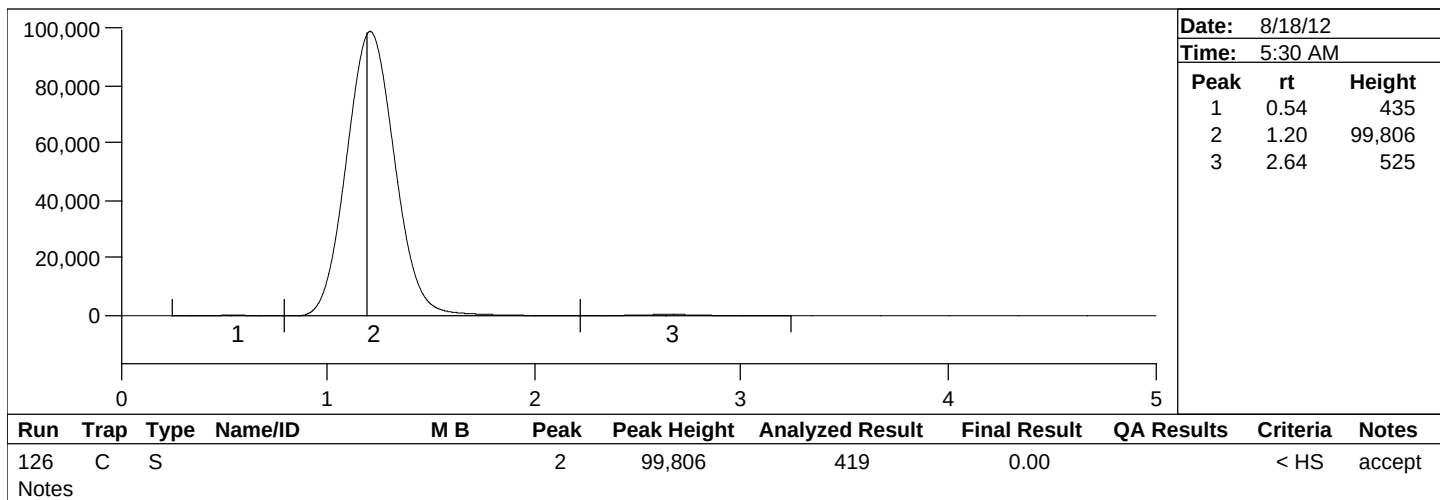
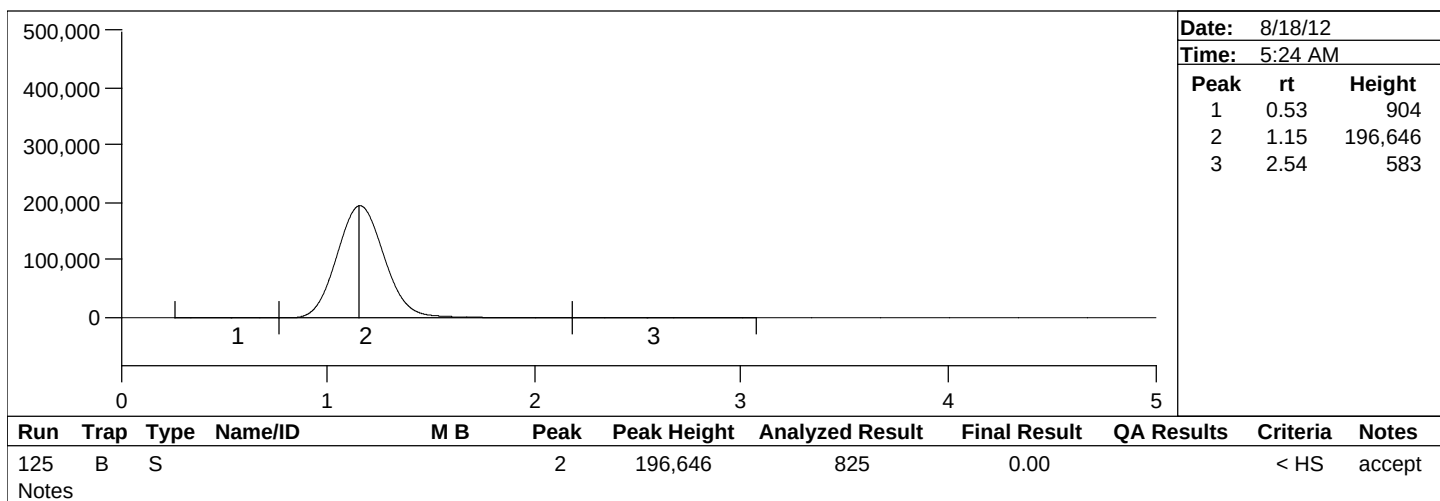
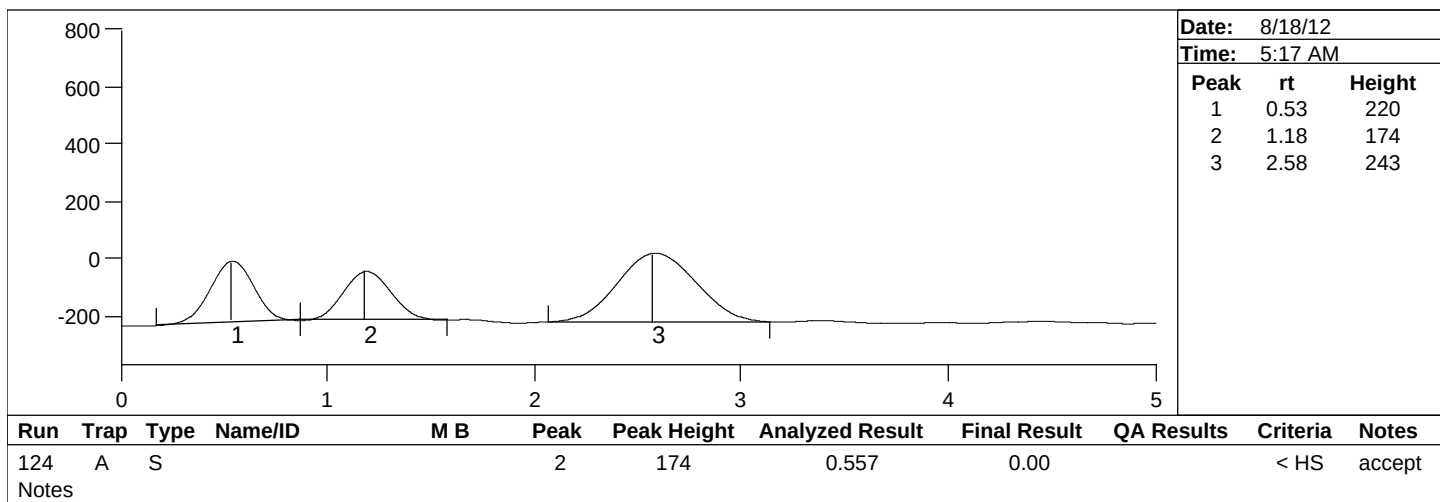
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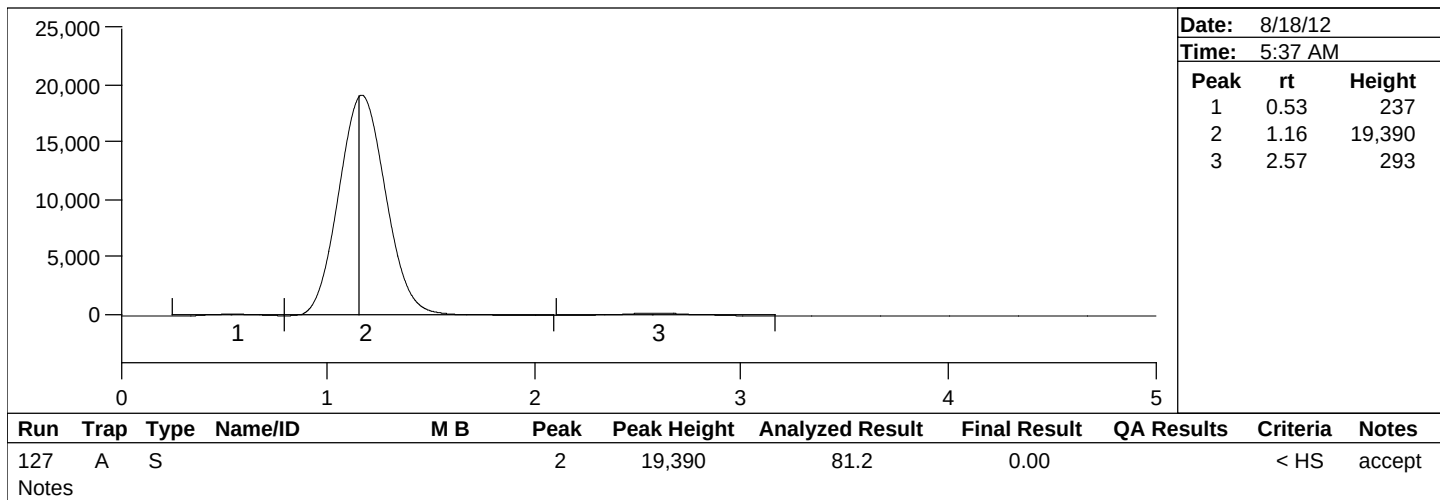
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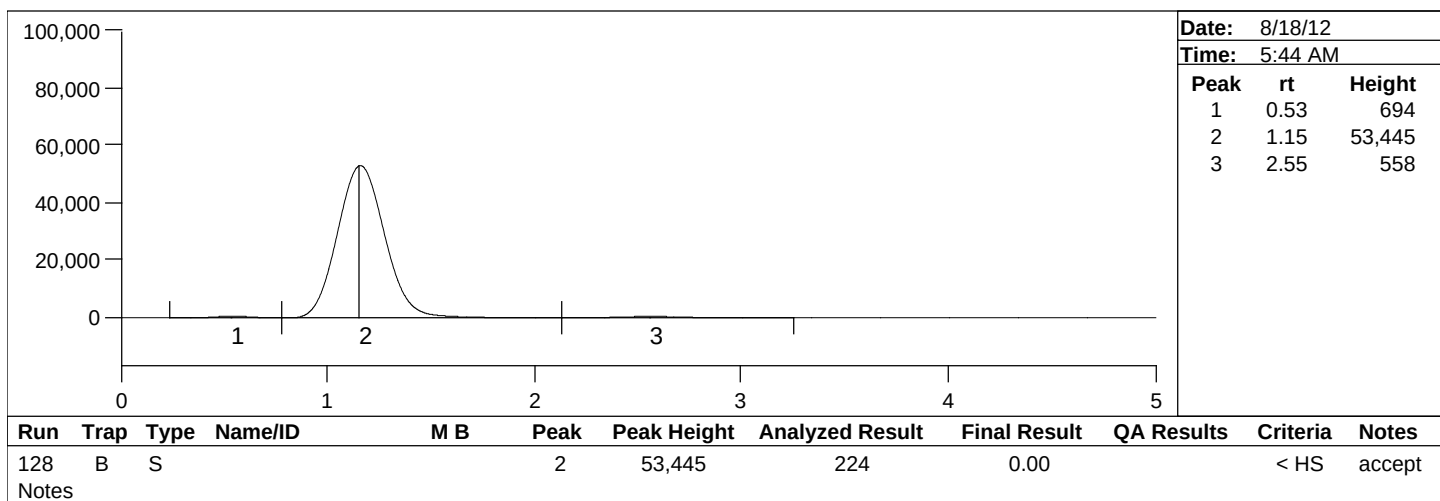
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Date: 8/18/12

Time: 5:37 AM

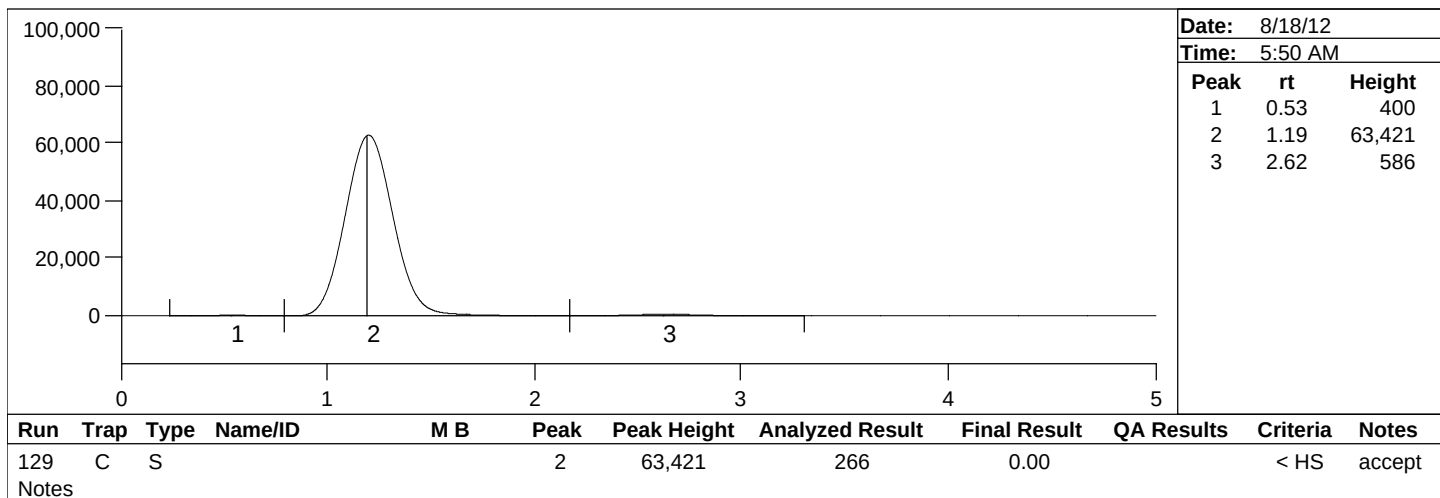
Peak	rt	Height
1	0.53	237
2	1.16	19,390
3	2.57	293



Date: 8/18/12

Time: 5:44 AM

Peak	rt	Height
1	0.53	694
2	1.15	53,445
3	2.55	558



Date: 8/18/12

Time: 5:50 AM

Peak	rt	Height
1	0.53	400
2	1.19	63,421
3	2.62	586

Peak Report

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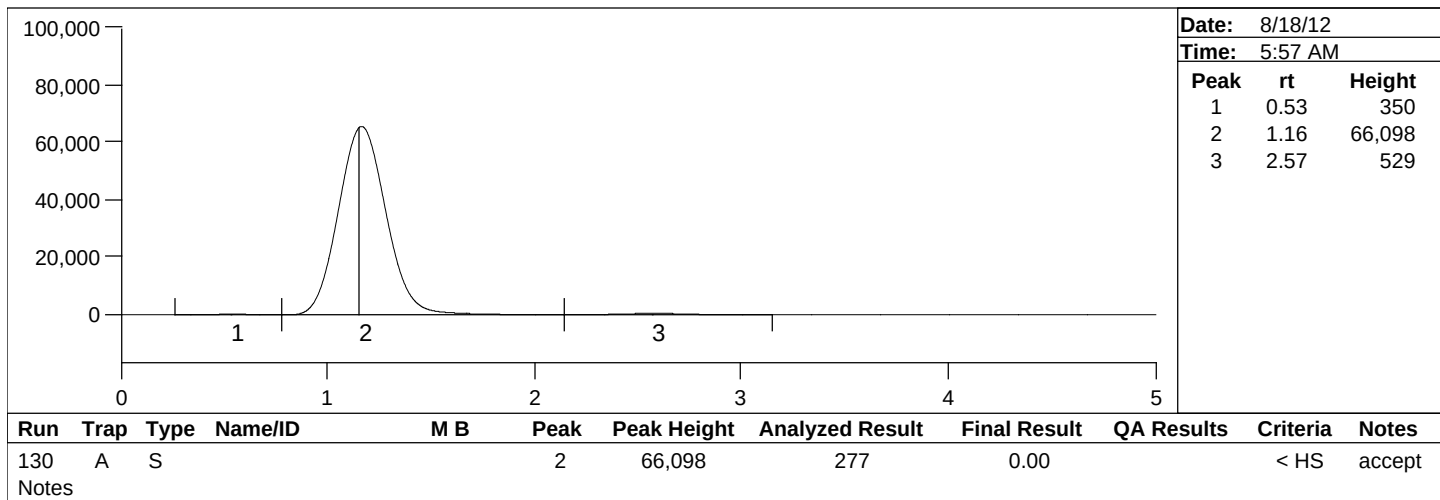
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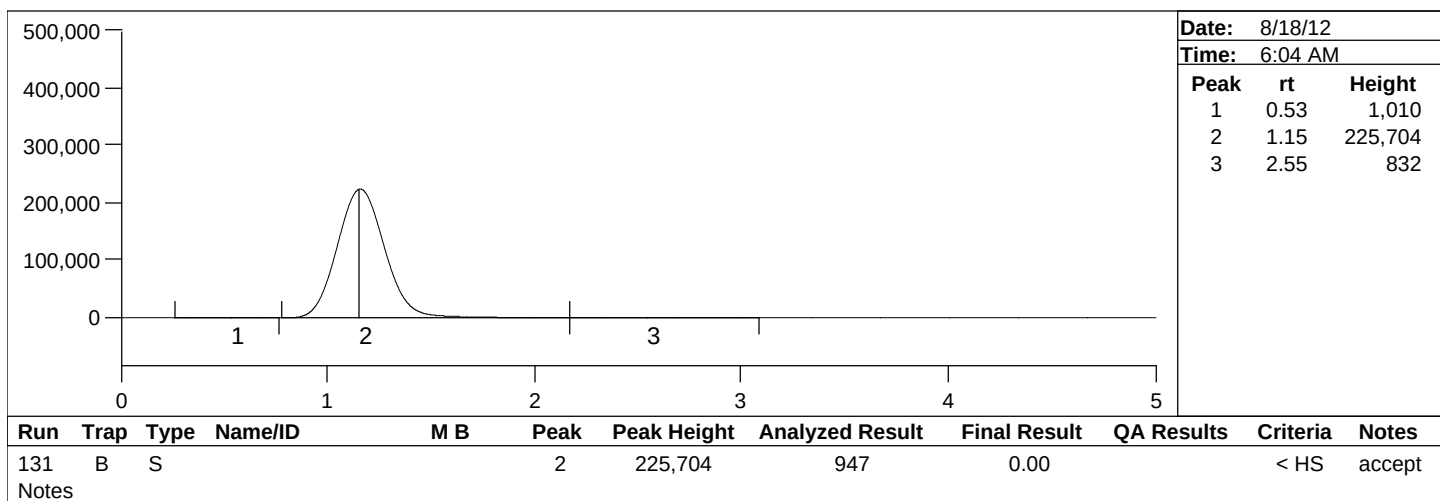
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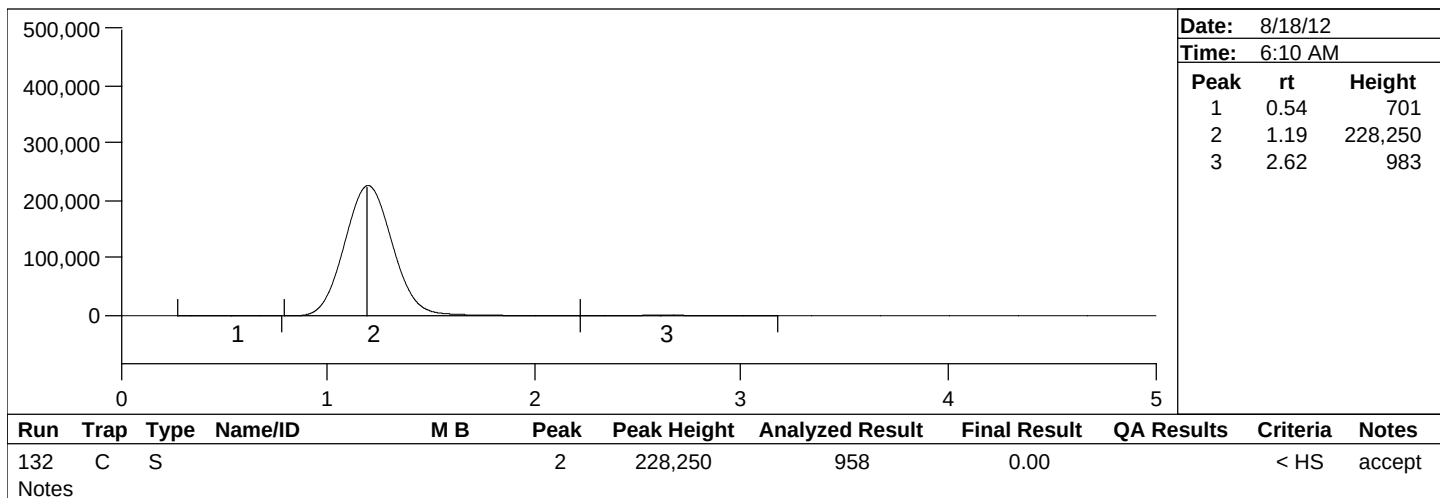
Analyst Name: BJT



Date: 8/18/12		
Time: 5:57 AM		
Peak	rt	Height
1	0.53	350
2	1.16	66,098
3	2.57	529



Date: 8/18/12		
Time: 6:04 AM		
Peak	rt	Height
1	0.53	1,010
2	1.15	225,704
3	2.55	832



Date: 8/18/12		
Time: 6:10 AM		
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3	2.62	983

Peak Report

Batch Number: B121370, 1338, 1336, 1431

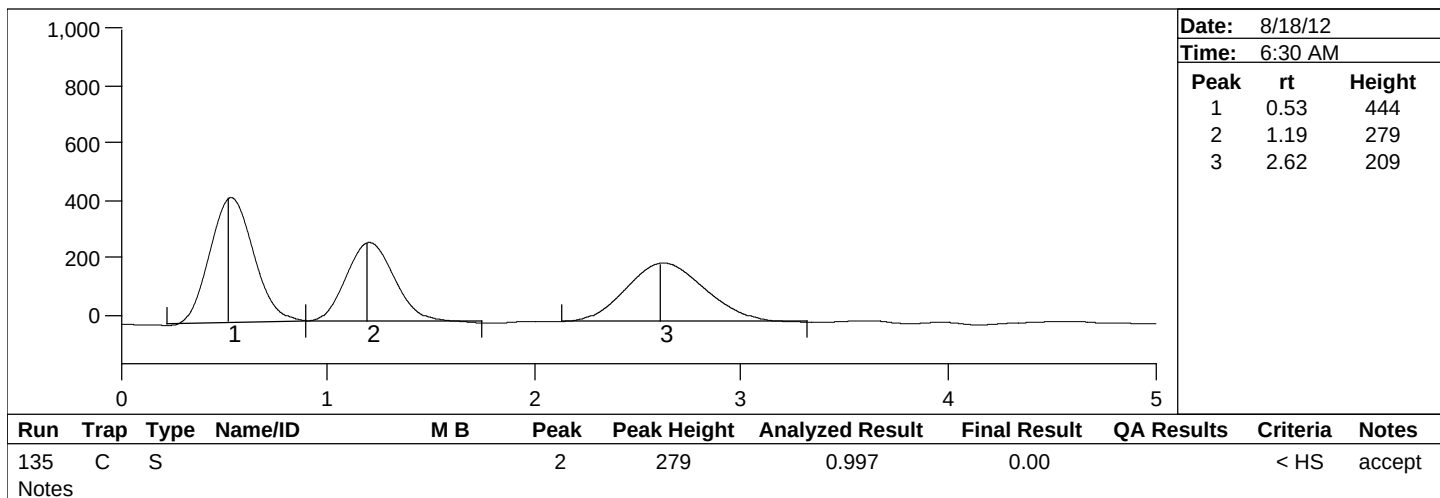
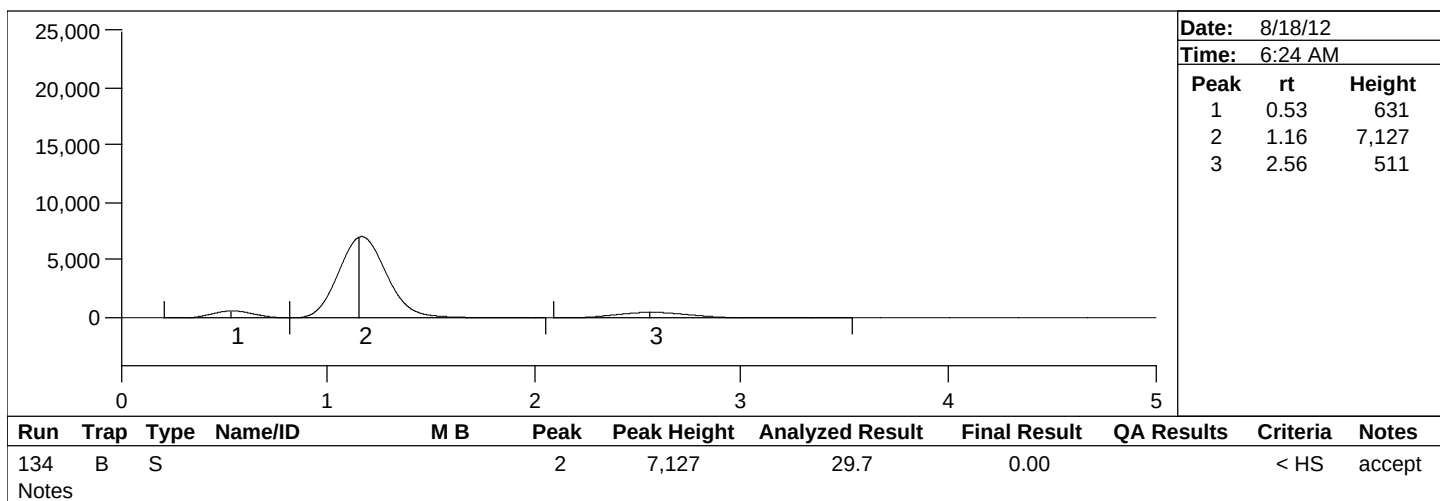
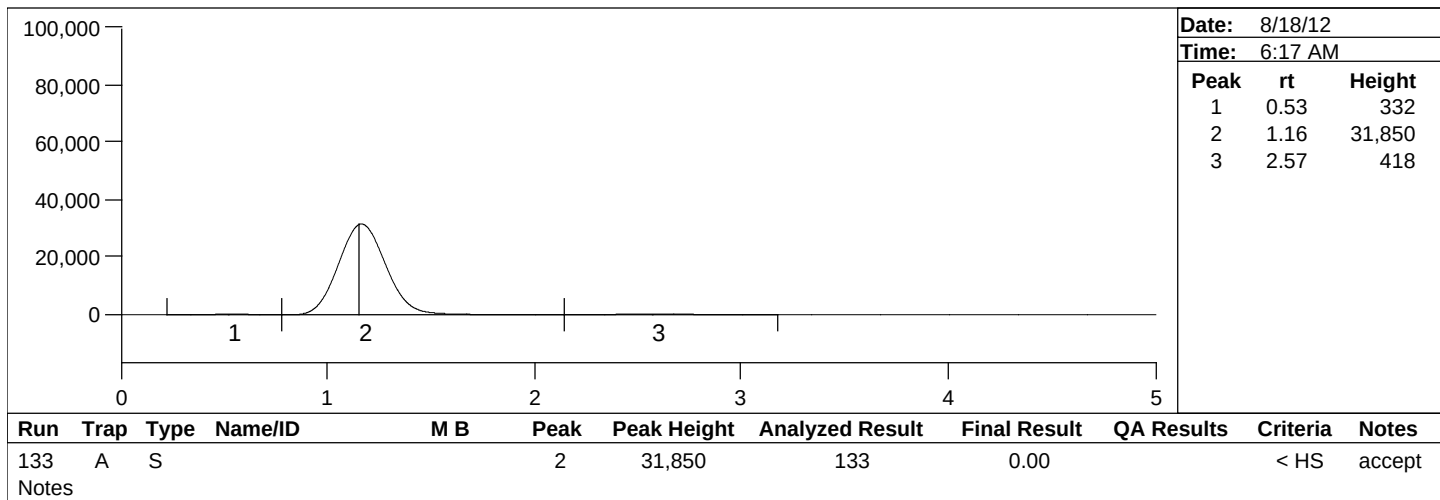
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Project Number(s): 1200640

Instrument ID: MMHG-09

Date Analyzed: 8/17/12

Analyst Name: BJT



Peak Report

Batch Number: B121370, 1338, 1336, 1431

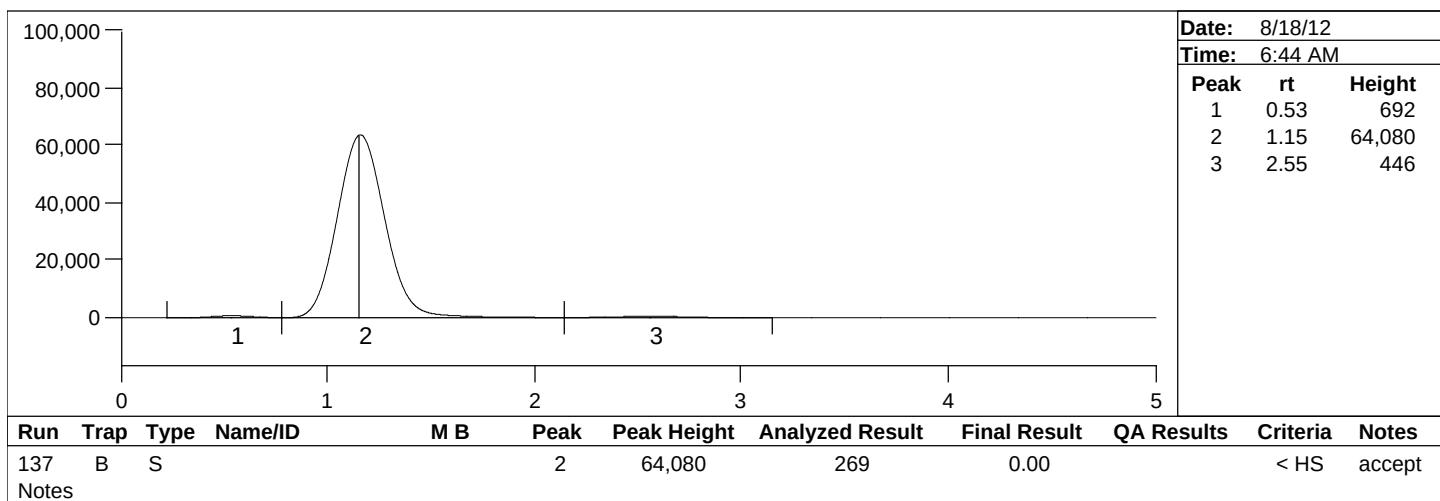
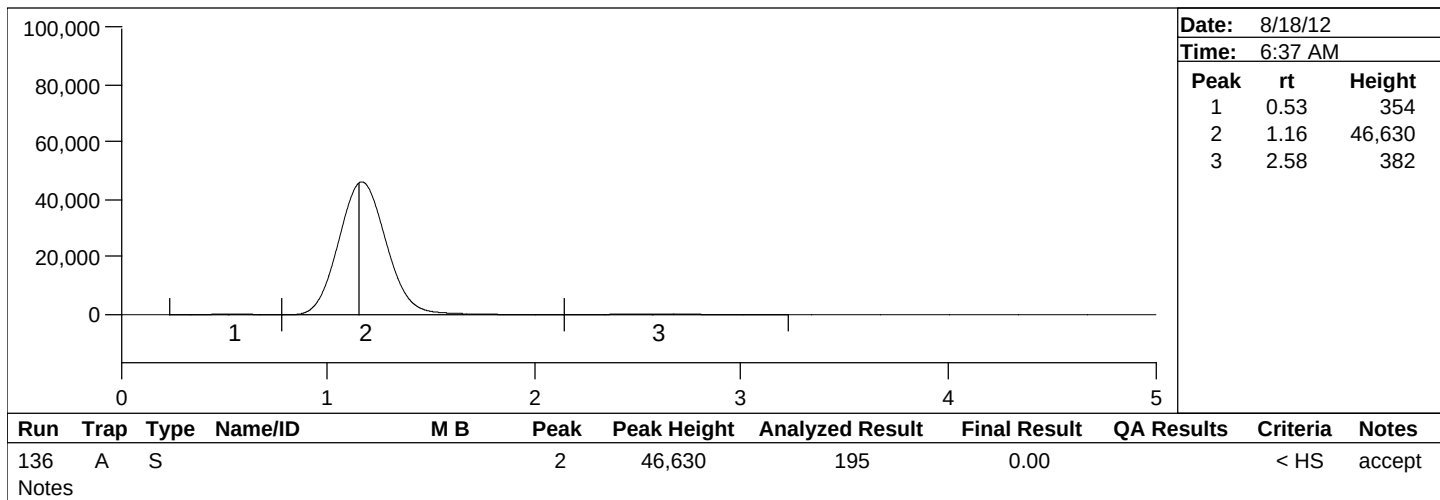
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Project Number(s): 1200640

Instrument ID: MMHG-09

Date Analyzed: 8/17/12

Analyst Name: BJT



Appendix C

Riverbed Substrate and Bank Mapping Protocol

Riverbed Substrate and Bank Mapping Protocol Wanaque River Investigation, DuPont Pompton Lakes Site

This protocol describes the approach that will be used to identify and map riverbed substrates and bank conditions in the Wanaque River near the former DuPont Plant in Pompton Lakes, New Jersey.

The survey will extend for approximately 1.6 miles of the Wanaque River, from the Phase II detailed substrate mapping reach upstream of station WR13 downstream to the Phase II detailed substrate mapping reach downstream of station WR22. Detailed substrate mapping will not be conducted within the proposed IRM project area, which extends from approximately station WR-16 downstream to the former dam; however, the condition of the stream banks in this reach will be documented.

The substrate mapping and bank survey process is divided into two phases: the preliminary geospatial analysis and the field mapping assessment phase. The preliminary geospatial analysis phase is an assessment of the riverbed study area conducted in ESRI's ArcGIS (Geographic Information Systems). The geospatial analysis efforts will utilize previous field observations of substrate composition, made during the Phase I and Phase II remedial investigations, and GIS photo-interpretation to create physical characteristic datasets and detailed field maps for the mapping assessment phase. The field mapping assessment is the comprehensive field-based survey of the riverbed substrate and banks.

This protocol is divided by task into the following sections:

- Equipment List
- Preliminary Geospatial Analysis
- Field Mapping Assessment
- Field Log Book and Field Sketch Maps

Equipment

The following equipment/supplies may be used to conduct the Phase II site characterization field surveys:

- Field notebook/field sketch maps
- Pencils and waterproof/permanent marking pens
- Trimble® Geo-XH 6000 global positioning system (GPS)
- Camera and waterproof dry bags
- Field sediment grain size and texture guides
- Graduated sediment probe
- Ruler and measuring tapes
- Jon boat and necessary boating supplies (*e.g.*, anchor, paddles, PFDs, etc.)
- Appropriate health and safety equipment

Preliminary Geospatial Assessment

The preliminary geospatial assessment provides the baseline maps and background physical data for use during the bank and substrate field mapping assessment. The preliminary GIS mapping process is outlined below:

- Manual evaluation of the entire study area will be conducted in ArcGIS at a scale of 1:1,250 using the most recent New Jersey aerial imagery along with the previously collected substrate datasets.
- Reaches will be delineated based on existing sampling transect locations.
- Physical reach characteristics will be determined using spatial analysis techniques, which include:
 - LiDAR-derived reach slope
 - Reach dimension data (area and length)
 - Areas of known substrate composition
- Previous substrate data and physical reach characteristics will be used to create reference maps in order to increase the efficiency of the field-based survey.
- Data generated during the preliminary geospatial assessment will be uploaded onto a high-resolution GPS unit to increase the assessment accuracy and provide real-time spatial comparisons of known substrate composition.

Field Mapping Assessment

The field mapping assessment will utilize the Trimble GPS unit to accurately map the spatial extent of riverbed substrate and bank condition in the Wanaque River.

Substrate Mapping

- In each reach, field survey mapping will begin on the channel margin and work inward toward the center of the riverbed in an upstream-to-downstream direction. If water depths prohibit safely wading the reach a boat will be used to paddle the area of concern. In the event of boat deployment, a third “shore watch” will be used to ensure the safety of the field team.
- Substrate patches will be identified by the predominant coverage (>50%) of a sediment type. Determination of the predominant sediment type may require the measurement of the median axis width of several randomly selected particles within a patch. The six substrate types adopted from the Wentworth Scale (Leeder, 1982) are:

Type 1) Silts and Clays	< 0.064 mm
Type 2) Fine Sands	0.064 mm – 0.25 mm
Type 3) Medium / Coarse Sands and Granules	0.25 mm – 4.00 mm
Type 4) Pebbles	4.00 mm – 64.00 mm
Type 5) Cobbles and Boulders	64.00 mm – 4096 mm
Type 6) Bedrock	> 4096 mm

- Finer substrates will be worked between the thumb and forefinger to identify particle sizes.
- Substrate mapping will be performed at the highest resolution possible given the weather and hydrologic conditions at the time of survey. Generally, substrate patches greater than or equal to approximately 100 square feet will be mapped.
- Where surface water depths prohibit clear determination of substrate type, a probing rod will be used to probe the benthic layer and identify substrate type. If predominate particle size cannot be determined with the probing rod alone, a petite Ponar® sampler will be used to retrieve for qualitative characterization.
- The average depth of fine-grained deposits (*i.e.*, Type 1 and Type 2 substrates) will be estimated to approximate the volume and extent of accumulated sediment.
- Observations of any unique morphological features that describe sediment dynamics, such as the degree of embeddedness, imbrication, and sorting will be noted on the field sketch maps created in the preliminary geospatial assessment.
- Spatially co-located photographs will be taken as needed to accurately document the condition and characterization of varying sediment types.

Bank Condition Survey

- A qualitative assessment of river bank condition will be conducted concurrently to the substrate mapping. Bank disturbances and features, including seeps, eroding bank material, ATV crossings, etc., will be photographed and detailed notes regarding overall bank condition will be recorded.
- Observations will be documented on the field maps created in the preliminary geospatial assessment phase.
- Particular attention should be made regarding the dimensions of the bank scour and whether or not unstable banks correspond to fine-grained sediment deposits downstream.

Field Logbook and Field Data Sheet

Thorough, organized, and accurate records will be made using field logbooks and field maps to document findings. Information pertinent to the investigation will be recorded in the field logbook and/or field data sheets. Entries will include the following, as applicable:

- Project name and number
- Name of sampler and field personnel
- Date and time of survey
- Physical characteristics of the substrate
- Photograph log with comments and spatial locations
- Observations at the sampling site (e.g., weather conditions)

Field investigation situations vary widely. No general rules can include each type of information that must be entered in a logbook or data sheet for a particular site. Site-specific recording will include sufficient information so that the sampling activity can be reconstructed without relying on the memory of field personnel.

References

Leeder, M. R. 1982. Sedimentology: Process and Product. George Allen and Unwin Ltd, London, UK.