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The Trusted Integrator for Sustainable Solutions

REMOVAL SUPPORT TEAM 2
EPA CONTRACT EP-W-06-072

RST 2-02-F-1246

TRANSMITTAL MEMO

To:	Cris D'Onofrio, OSC Response and Prevention Branch, U.S. EPA Region II
From:	Smita Sumbaly, Data Reviewer RST 2 Region II
Subject:	Alfred Heller Heat Treating Company Site Data Validation Assessment
Date:	January 21, 2010

The purpose of this memo is to transmit the following information:

- Data validation results for the following parameters:

  Hexavalent Chromium 13 samples

- Matrices and Number of Samples

  Soil 12 samples
  Water 1 sample

- Sampling Dates: December 16 and 17, 2009

The final data assessment narrative and original analytical data package are attached.

cc:	RST 2 SPM:	Sayed Iqbal
	RST 2 SITE FILE TDD #:	TO-0013-0129
	ANALYTICAL TDD #:	TO-0013-0141
	TASK#:	3139

U.S. ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

DATE: January 21, 2010

TO: Cris D'Onofrio, OSC
USEPA Region II

FROM: Smita Sumbaly
RST 2 Data Review Team

SUBJECT: QA/QC Compliance Review Summary

As requested, quality control and performance measures for the data packages noted have been examined and compared to EPA standards for compliance. Measures for the following general areas were evaluated as applicable:

Data Completeness	Blanks
Spectra Matching Quality	DFTPP and BFB Tuning
Surrogate Spikes	Chromatography
Matrix Spikes/Duplicates	Holding Times
Calibration	Compound ID (HSL, TIC)

Any statistical measures used to support the following conclusions are attached so that the review may be reviewed by others.

Summary of Results

	I Hexavalent Chromium
Acceptable as Submitted	
Acceptable with Comments	X
Unacceptable, Action Pending	
Unacceptable	

Data Reviewed by: Smita Sumbaly Date: 1/21/10

Approved By: [signature] Date: 1/21/10

Area Code/Phone No.: (732) 585-4410

NARRATIVE

CASE No. 3139

SITE NAME: **Alfred Heller Heat Treating Company Site**
5 Wellington Street, Clifton,
Passaic County, New Jersey

Laboratory Name: Chemtech Consulting Group, 284 Sheffield Street, Mountainside, NJ 07092

INTRODUCTION:

The laboratory's portion of this Case consisted of one water sample and 12 sub-slab soil samples, collected on December 16 and 17, 2009.

The laboratory reported No problem(s) with the receipt of these samples.

The laboratory reported No problems with the analyses of Hexavalent Chromium- Inorganic Parameters.

The evaluator has commented on the criteria specified under each fraction heading. All criteria have been assessed, but no discussion is given where the evaluator has determined that criteria were adequately performed or require no comment. Details relevant to these comments are given on the following forms.

Appropriate Form Is and Chain of Custody Record have been copied from the original data package and appended to the data assessment narrative for reference.

IV. Inorganic:

Y Data Summary/Tabulated Results	Y Initial and Continuing Calibration
Y Blanks	NA ICP Interference Check
Y Spike Sample Recovery	Y Replicates
Y Detection Limits	NA Standard Addition Results
NA ICP Serial Dilutions	Y Holding Times
NA ICP Interelement Correction Factors	NA ICP Linear Ranges
Y Chain of Custody	Y Raw Data
Y Quantitation, Conversions, Dilutions, etc.	

Comments:

1. Refer to Data Assessment Narrative.

Title: Evaluation of Hexavalent Chromium Data
Data Assessment Narrative

SW-846 Method 7196A

Case #: RFP # 3139 **Site: Alfred Heller Heat Treating Company Site**

SDG#: A5586 **Lab: Chemtech** **Matrix**
Sub-Slab Soil: 12

Contractor: WESTON-RST 2 **Reviewer: SMITA SUMBALY** **Water: 1**

A.2.1 Validation Flags- The following flags have been applied in red by the data validator and must be considered by the data user.

J- This flag indicates the result qualified as estimated.

Red- Line- A red-line drawn through a sample result indicates an unusable value. The red-lined data are known to contain significant errors based on documented information and must not be used by the data user.

Fully Usable Data- The results that do not carry "J" or "red-line" are fully usable.

A.2.2 The data assessment is given below and on the attached sheets.

On December 16 and 17, 2009, USEPA Region II RST 2 sampling personnel collected 12 sub-slab soil samples and one aqueous rinsate blank sample, including one field duplicate sample, from the Alfred Heller Heat Treating Company Site, 5 Wellington Avenue, Clifton, Passaic County, New Jersey. Samples for Hexavalent Chromium were picked-up by Chemtech Consulting Group, 284 Sheffield Street, Mountainside, New Jersey. The laboratory verified that the samples were received intact and properly custody sealed. Sample cooler temperatures recorded at 5.0°C.

Inorganic analyses for hexavalent chromium were analyzed according to EPA SW-846 Method No. 7196A.

Client identification (ID) and laboratory ID numbers are as follows:

Client ID No.	Laboratory ID No.	Matrix	Sampling Date	Analysis
AH-B5-SS-08	A5586-01	Sub-Slab Soil	12/16/09	Hexavalent Chromium
AH-B5-SS-12	A5586-02	Sub-Slab Soil	12/16/09	Hexavalent Chromium
AH-B5-SS-14	A5586-03	Sub-Slab Soil	12/16/09	Hexavalent Chromium
AH-B5-SS-15	A5586-04	Sub-Slab Soil	12/16/09	Hexavalent Chromium
AH-B5-SS-16	A5586-05	Sub-Slab Soil	12/16/09	Hexavalent Chromium
AH-B5-SS-30[1]	A5586-06	Sub-Slab Soil	12/16/09	Hexavalent Chromium
AH-RB-121609	A5586-07	Water	12/16/09	Hexavalent Chromium
AH-B5-SS-13	A5586-08	Sub-Slab Soil	12/17/09	Hexavalent Chromium
AH-B5-SS-17	A5586-09	Sub-Slab Soil	12/17/09	Hexavalent Chromium
AH-B5-SS-18	A5586-10	Sub-Slab Soil	12/17/09	Hexavalent Chromium
AH-B5-SS-19	A5586-11	Sub-Slab Soil	12/17/09	Hexavalent Chromium
AH-B5-SS-20	A5586-12	Sub-Slab Soil	12/17/09	Hexavalent Chromium
AH-B5-SS-21	A5586-13	Sub-Slab Soil	12/17/09	Hexavalent Chromium

[1] Sub-Slab Soil sample AH-B5-SS-30 is a field duplicate sample of sample AH-B5-SS-08

CASE DESCRIPTION: RFP # 118 consists of 12 sub-slab soil samples and one aqueous rinsate blank samples from the Alfred Heller Heat Treating Company Site.

HOLDING TIMES: All Soil and water samples were analyzed within holding time.

CALIBRATION: The correlation coefficient (r^2) of standard concentration versus absorbance readings is greater than (>) 0.995 for linear calibration curves generated in the data package.

RAW DATA: The laboratory provided the supporting raw data for this package. This data package contains summary of Analytical results, Method Blank results, Initial/Continuing Calibration Verification (ICV/CCV) recovery, Matrix Spike Sample recovery, Laboratory Duplicate results, and Laboratory Control Sample (LCS) recovery.

INITIAL CALIBRATION VERIFICATION/CONTINUING CALIBRATION VERIFICATION: ICV/CCVs were run at appropriate intervals as noted on the Calibration Summary form. All ICV/CCV recoveries are within the acceptable range of + 20%.

BLANK RESULTS: Initial calibration blank, continuing calibration blank, and method blanks were reported below the reporting limit.

MATRIX SPIKE RECOVERY: MS/MSD recoveries are within the acceptable range of 75-125%.

DUPLICATE ANALYSIS: Data met laboratory duplicate analysis QC criteria (< 20% RPD)

FIELD DUPLICATE ANALYSIS: Data met field duplicate analysis QC criteria (< 20% RPD)

LCS RECOVERY: LCS recoveries are within the acceptable range of 80-120%.

The results presented in the data package are acceptable as reported.

A.2.3 Contract Problem/Non-Compliance:

None

Contractor Reviewer: Tamita Sumbery — Signature — Date: 1/21/10

Verified by: _____ Signature — Date: _____

Hexavalent Chromium

Project: Alfred Heller Heat Treating Company Site

Sampling Dates: December 16 and 17, 2009

Client ID No.:	Lab ID No.:	Matrix	Detection Limit	Percent Solids	Sample Results
			Sample Concentration: mg/Kg		
AH-B5-SS-08	A5586-01	Sub-Slab Soil	0.40 mg/kg	85.10	0.47 U
AH-B5-SS-12	A5586-02	Sub-Slab Soil	0.40 mg/kg	86.30	0.463 U
AH-B5-SS-14	A5586-03	Sub-Slab Soil	0.40 mg/kg	80.10	0.499 U
AH-B5-SS-15	A5586-04	Sub-Slab Soil	0.40 mg/kg	87.50	0.457 U
AH-B5-SS-16	A5586-05	Sub-Slab Soil	0.40 mg/kg	80.00	**7.88**
AH-B5-SS-30	A5586-06	Sub-Slab Soil	0.40 mg/kg	85.50	0.468 U
AH-B5-SS-13	A5586-08	Sub-Slab Soil	0.40 mg/kg	85.00	**0.490**
AH-B5-SS-17	A5586-09	Sub-Slab Soil	0.40 mg/kg	83.80	0.477 U
AH-B5-SS-18	A5586-10	Sub-Slab Soil	0.40 mg/kg	83.60	**0.560**
AH-B5-SS-19	A5586-11	Sub-Slab Soil	0.40 mg/kg	83.70	0.478 U
AH-B5-SS-20	A5586-12	Sub-Slab Soil	0.40 mg/kg	86.00	**0.910**
AH-B5-SS-21	A5586-13	Sub-Slab Soil	0.40 mg/kg	89.40	0.447 U
			Sample Concentration: mg/L		
AH-RB-121609	A5586-07	Water	0.010 mg/L	NA	0.010 U

U - non-detected compound
J - estimated value
NA - not applicable

Note: - Reporting Limit on Form Is has been adjusted to reflect the % solid.

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Cover Page

Order ID : A5586

Project ID : RFP 118

Client : Weston Solutions, Inc.

Lab Sample Number	Client Sample Number
A5586-01	AH-B5-SS-08
A5586-02	AH-B5-SS-12
A5586-03	AH-B5-SS-14
A5586-04	AH-B5-SS-15
A5586-05	AH-B5-SS-16
A5586-06	AH-B5-SS-30
A5586-07	AH-RB-121609
A5586-08	AH-B5-SS-13
A5586-09	AH-B5-SS-17
A5586-10	AH-B5-SS-18
A5586-11	AH-B5-SS-19
A5586-12	AH-B5-SS-20
A5586-13	AH-B5-SS-21

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

Signature : Mildred V Reyes

Mildred V. Reyes
I am approving this document
2010.01.10 17:23:32 -05'00'

CHEMTECH

CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 118
Project # N/A
Chemtech Project # A5586

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 12/16/09.
6 Solid samples were received on 12/17/09.
1 Water sample was received on 12/16/09.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium. This data package contains results for Hexavalent Chromium.

C. Analytical Techniques:
The analysis of Hexavalent Chromium was based on method 7196A

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples except for Hexavalent Chromium due to matrix interference.
The Matrix Spike analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:

I certify that the 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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V. Reyes

Mildred V. Reyes
I am approving this document
2010.01.10 17:23:10 -05'00'

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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-B5-SS-08**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-01**	**Matrix:**	**SOIL**
% Solids:	**85.10**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.470	U	0.470	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-B5-SS-12**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-02**	**Matrix:**	**SOIL**
% Solids:	**86.30**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.463	U	0.463	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-B5-SS-14**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-03**	**Matrix:**	**SOIL**
% Solids:	**80.10**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.499	U	0.499	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-B5-SS-15**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-04**	**Matrix:**	**SOIL**
% Solids:	**87.50**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.457	U	0.457	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-B5-SS-16**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-05**	**Matrix:**	**SOIL**
% Solids:	**80.00**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	7.88		0.50	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-B5-SS-30**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-06**	**Matrix:**	**SOIL**
% Solids:	**85.50**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.468	U	0.468	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-RB-121609**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-07**	**Matrix:**	**WATER**
% Solids:	**0.00**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.010	U	0.010	mg/L	1	12/17/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-RB-121609**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-07**	**Matrix:**	**WATER**
% Solids:	**0.00**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.09		0.010	mg/L	1	12/17/2009	7196 Hexavalent Chromium

Do not use this one

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/17/2009**
Project:	**RFP 118**	**Date Received:**	**12/17/2009**
Client Sample ID:	**AH-B5-SS-13**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-08**	**Matrix:**	**SOIL**
% Solids:	**85.00**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.490		0.471	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	12/17/2009
Project:	RFP 118	Date Received:	12/17/2009
Client Sample ID:	AH-B5-SS-17	SDG No.:	A5586
Lab Sample ID:	A5586-09	Matrix:	SOIL
% Solids:	83.80		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.477	U	0.477	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/17/2009**
Project:	**RFP 118**	**Date Received:**	**12/17/2009**
Client Sample ID:	**AH-B5-SS-18**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-10**	**Matrix:**	**SOIL**
% Solids:	**83.60**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.560		0.478	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	Weston Solutions, Inc.	**Date Collected:**	12/17/2009
Project:	RFP 118	**Date Received:**	12/17/2009
Client Sample ID:	AH-B5-SS-19	**SDG No.:**	A5586
Lab Sample ID:	A5586-11	**Matrix:**	SOIL
% Solids:	83.70		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.478	U	0.478	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/17/2009**
Project:	**RFP 118**	**Date Received:**	**12/17/2009**
Client Sample ID:	**AH-B5-SS-20**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-12**	**Matrix:**	**SOIL**
% Solids:	**86.00**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.910		0.465	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/17/2009**
Project:	**RFP 118**	**Date Received:**	**12/17/2009**
Client Sample ID:	**AH-B5-SS-21**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-13**	**Matrix:**	**SOIL**
% Solids:	**89.40**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.447	U	0.447	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

A5586

RPB
RST 2, Edison, NJ
EPA Contract Number: EP-W-06-072
PO#: 0069775 / RFP: 118

CHAIN OF CUSTODY RECORD
Site: Clifton, NJ
Contact Name: Sayed Iqbal
Contact Phone: 908-565-2989

No: RS/AHHT-12/16/09-0001

Lab: Chemtech
Lab Phone: (908) 789 - 8900

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Sample Time	MS/MSD
	AH-B5-SS-08	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	1	8 oz jar	4 C	11:30	N
	AH-B5-SS-12	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	1	8 oz jar	4 C	14:50	N
	AH-B5-SS-14	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	1	8 oz jar	4 C	15:00	N
	AH-B5-SS-15	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	2	8 oz jar	4 C	11:40	Y
	AH-B5-SS-16	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	1	8 oz jar	4 C	15:15	N
	AH-B5-SS-30	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	1	8 oz jar	4 C	11:20	N
	AH-RB-121609	Site	Hexavalent Chromium [Cr(VI)]	Water	12/16/2009	1	1L plastic	4 C	15:30	N

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Transfer All	[illegible]	12/16/09	[illegible]	12/16/09	1633		[illegible]	2020 12/16/09	[illegible]	12-16-9	20:20
	[illegible] L.C.	~~2020~~ ~~12/16/09~~									

A5586

RPB
RST 2, Edison, NJ
EPA Contract Number: EP-W-06-072
PO#: 0069775 / RFP: 118

CHAIN OF CUSTODY RECORD
Site: Clifton, NJ
Contact Name: Sayed Iqbal
Contact Phone: (908) 565 - 2989

No: RS/AHHT-12/17/09-0002

Lab: Chemtech
Lab Phone: (908) 789 - 8900

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Sample Time	MS/MSD
	AH-B5-SS-13	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/17/2009	1	8 oz jar	4 C	09:25	N
	AH-B5-SS-17	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/17/2009	1	8 oz jar	4 C	09:40	N
	AH-B5-SS-18	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/17/2009	1	8 oz jar	4 C	09:50	N
	AH-B5-SS-19	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/17/2009	1	8 oz jar	4 C	16:15	N
	AH-B5-SS-20	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/17/2009	1	8 oz jar	4 C	16:30	N
	AH-B5-SS-21	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/17/2009	1	8 oz jar	4 C	16:00	N

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY # TMD 5 C

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All Transfer	Sayed Iqbal	12/17/09	A. Carter	12/17/09	1712						
Samples	A. Carter	1915 12/17/09	Sayed Iqbal	12/17/09	19:15						

Weston Solutions, Inc.
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Edison, New Jersey 08837-3703
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www.westonsolutions.com

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REMOVAL SUPPORT TEAM 2
EPA CONTRACT EP-W-06-072

RST 2-02-F-1246

TRANSMITTAL MEMO

To: Cris D'Onofrio, OSC
Response and Prevention Branch,
U.S. EPA Region II

From: Smita Sumbaly, Data Reviewer
RST 2 Region II

Subject: Alfred Heller Heat Treating Company Site
Data Validation Assessment

Date: January 21, 2010

The purpose of this memo is to transmit the following information:

- Data validation results for the following parameters:

  Hexavalent Chromium 13 samples

- Matrices and Number of Samples

  Soil 12 samples
  Water 1 sample

- Sampling Dates: December 16 and 17, 2009

The final data assessment narrative and original analytical data package are attached.

cc: RST 2 SPM: Sayed Iqbal
RST 2 SITE FILE TDD #: TO-0013-0129
ANALYTICAL TDD #: TO-0013-0141
TASK#: 3139

U.S. ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

DATE: January 21, 2010

TO: Cris D'Onofrio, OSC
USEPA Region II

FROM: Smita Sumbaly
RST 2 Data Review Team

SUBJECT: QA/QC Compliance Review Summary

As requested, quality control and performance measures for the data packages noted have been examined and compared to EPA standards for compliance. Measures for the following general areas were evaluated as applicable:

Data Completeness	Blanks
Spectra Matching Quality	DFTPP and BFB Tuning
Surrogate Spikes	Chromatography
Matrix Spikes/Duplicates	Holding Times
Calibration	Compound ID (HSL, TIC)

Any statistical measures used to support the following conclusions are attached so that the review may be reviewed by others.

Summary of Results

	I Hexavalent Chromium
Acceptable as Submitted	
Acceptable with Comments	X
Unacceptable, Action Pending	
Unacceptable	

Data Reviewed by: Smita Sumbaly Date: 1/21/10

Approved By: [signature] Date: 1/21/10

Area Code/Phone No.: (732) 585-4410

NARRATIVE

CASE No. 3139

SITE NAME: **Alfred Heller Heat Treating Company Site**
5 Wellington Street, Clifton,
Passaic County, New Jersey

Laboratory Name: Chemtech Consulting Group, 284 Sheffield Street, Mountainside, NJ 07092

INTRODUCTION:

The laboratory's portion of this Case consisted of one water sample and 12 sub-slab soil samples, collected on December 16 and 17, 2009.

The laboratory reported No problem(s) with the receipt of these samples.

The laboratory reported No problems with the analyses of Hexavalent Chromium- Inorganic Parameters.

The evaluator has commented on the criteria specified under each fraction heading. All criteria have been assessed, but no discussion is given where the evaluator has determined that criteria were adequately performed or require no comment. Details relevant to these comments are given on the following forms.

Appropriate Form Is and Chain of Custody Record have been copied from the original data package and appended to the data assessment narrative for reference.

IV. Inorganic:

Y Data Summary/Tabulated Results	Y Initial and Continuing Calibration
Y Blanks	NA ICP Interference Check
Y Spike Sample Recovery	Y Replicates
Y Detection Limits	NA Standard Addition Results
NA ICP Serial Dilutions	Y Holding Times
NA ICP Interelement Correction Factors	NA ICP Linear Ranges
Y Chain of Custody	Y Raw Data
Y Quantitation, Conversions, Dilutions, etc.	

Comments:

1. Refer to Data Assessment Narrative.

Title: Evaluation of Hexavalent Chromium Data
Data Assessment Narrative

SW-846 Method 7196A

Case #: RFP # 3139 **Site: Alfred Heller Heat Treating Company Site**

SDG#: A5586 **Lab: Chemtech** **Matrix**
Sub-Slab Soil: 12

Contractor: WESTON-RST 2 **Reviewer: SMITA SUMBALY** **Water: 1**

A.2.1 Validation Flags- The following flags have been applied in red by the data validator and must be considered by the data user.

J- This flag indicates the result qualified as estimated.

Red- Line- A red-line drawn through a sample result indicates an unusable value. The red-lined data are known to contain significant errors based on documented information and must not be used by the data user.

Fully Usable Data- The results that do not carry "J" or "red-line" are fully usable.

A.2.2 The data assessment is given below and on the attached sheets.

On December 16 and 17, 2009, USEPA Region II RST 2 sampling personnel collected 12 sub-slab soil samples and one aqueous rinsate blank sample, including one field duplicate sample, from the Alfred Heller Heat Treating Company Site, 5 Wellington Avenue, Clifton, Passaic County, New Jersey. Samples for Hexavalent Chromium were picked-up by Chemtech Consulting Group, 284 Sheffield Street, Mountainside, New Jersey. The laboratory verified that the samples were received intact and properly custody sealed. Sample cooler temperatures recorded at 5.0°C.

Inorganic analyses for hexavalent chromium were analyzed according to EPA SW-846 Method No. 7196A.

Client identification (ID) and laboratory ID numbers are as follows:

Client ID No.	Laboratory ID No.	Matrix	Sampling Date	Analysis
AH-B5-SS-08	A5586-01	Sub-Slab Soil	12/16/09	Hexavalent Chromium
AH-B5-SS-12	A5586-02	Sub-Slab Soil	12/16/09	Hexavalent Chromium
AH-B5-SS-14	A5586-03	Sub-Slab Soil	12/16/09	Hexavalent Chromium
AH-B5-SS-15	A5586-04	Sub-Slab Soil	12/16/09	Hexavalent Chromium
AH-B5-SS-16	A5586-05	Sub-Slab Soil	12/16/09	Hexavalent Chromium
AH-B5-SS-30[1]	A5586-06	Sub-Slab Soil	12/16/09	Hexavalent Chromium
AH-RB-121609	A5586-07	Water	12/16/09	Hexavalent Chromium
AH-B5-SS-13	A5586-08	Sub-Slab Soil	12/17/09	Hexavalent Chromium
AH-B5-SS-17	A5586-09	Sub-Slab Soil	12/17/09	Hexavalent Chromium
AH-B5-SS-18	A5586-10	Sub-Slab Soil	12/17/09	Hexavalent Chromium
AH-B5-SS-19	A5586-11	Sub-Slab Soil	12/17/09	Hexavalent Chromium
AH-B5-SS-20	A5586-12	Sub-Slab Soil	12/17/09	Hexavalent Chromium
AH-B5-SS-21	A5586-13	Sub-Slab Soil	12/17/09	Hexavalent Chromium

[1] Sub-Slab Soil sample AH-B5-SS-30 is a field duplicate sample of sample AH-B5-SS-08

CASE DESCRIPTION: RFP # 118 consists of 12 sub-slab soil samples and one aqueous rinsate blank samples from the Alfred Heller Heat Treating Company Site.

HOLDING TIMES: All Soil and water samples were analyzed within holding time.

CALIBRATION: The correlation coefficient (r^2) of standard concentration versus absorbance readings is greater than (>) 0.995 for linear calibration curves generated in the data package.

RAW DATA: The laboratory provided the supporting raw data for this package. This data package contains summary of Analytical results, Method Blank results, Initial/Continuing Calibration Verification (ICV/CCV) recovery, Matrix Spike Sample recovery, Laboratory Duplicate results, and Laboratory Control Sample (LCS) recovery.

INITIAL CALIBRATION VERIFICATION/CONTINUING CALIBRATION VERIFICATION: ICV/CCVs were run at appropriate intervals as noted on the Calibration Summary form. All ICV/CCV recoveries are within the acceptable range of + 20%.

BLANK RESULTS: Initial calibration blank, continuing calibration blank, and method blanks were reported below the reporting limit.

MATRIX SPIKE RECOVERY: MS/MSD recoveries are within the acceptable range of 75-125%.

DUPLICATE ANALYSIS: Data met laboratory duplicate analysis QC criteria (< 20% RPD)

FIELD DUPLICATE ANALYSIS: Data met field duplicate analysis QC criteria (< 20% RPD)

LCS RECOVERY: LCS recoveries are within the acceptable range of 80-120%.

The results presented in the data package are acceptable as reported.

A.2.3 Contract Problem/Non-Compliance:

None

Contractor Reviewer: Tarita Symbey
Signature

1/21/10
Date:

Verified by: _____
Signature

_____
Date:

Hexavalent Chromium

Project: Alfred Heller Heat Treating Company Site

Sampling Dates: December 16 and 17, 2009

Client ID No.:	Lab ID No.:	Matrix	Detection Limit	Percent Solids	Sample Results
			Sample Concentration: mg/Kg		
AH-B5-SS-08	A5586-01	Sub-Slab Soil	0.40 mg/kg	85.10	0.47 U
AH-B5-SS-12	A5586-02	Sub-Slab Soil	0.40 mg/kg	86.30	0.463 U
AH-B5-SS-14	A5586-03	Sub-Slab Soil	0.40 mg/kg	80.10	0.499 U
AH-B5-SS-15	A5586-04	Sub-Slab Soil	0.40 mg/kg	87.50	0.457 U
AH-B5-SS-16	A5586-05	Sub-Slab Soil	0.40 mg/kg	80.00	**7.88**
AH-B5-SS-30	A5586-06	Sub-Slab Soil	0.40 mg/kg	85.50	0.468 U
AH-B5-SS-13	A5586-08	Sub-Slab Soil	0.40 mg/kg	85.00	**0.490**
AH-B5-SS-17	A5586-09	Sub-Slab Soil	0.40 mg/kg	83.80	0.477 U
AH-B5-SS-18	A5586-10	Sub-Slab Soil	0.40 mg/kg	83.60	**0.560**
AH-B5-SS-19	A5586-11	Sub-Slab Soil	0.40 mg/kg	83.70	0.478 U
AH-B5-SS-20	A5586-12	Sub-Slab Soil	0.40 mg/kg	86.00	**0.910**
AH-B5-SS-21	A5586-13	Sub-Slab Soil	0.40 mg/kg	89.40	0.447 U
			Sample Concentration: mg/L		
AH-RB-121609	A5586-07	Water	0.010 mg/L	NA	0.010 U

U - non-detected compound
J - estimated value
NA - not applicable

Note: - Reporting Limit on Form Is has been adjusted to reflect the % solid.

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Cover Page

Order ID : A5586

Project ID : RFP 118

Client : Weston Solutions, Inc.

Lab Sample Number	Client Sample Number
A5586-01	AH-B5-SS-08
A5586-02	AH-B5-SS-12
A5586-03	AH-B5-SS-14
A5586-04	AH-B5-SS-15
A5586-05	AH-B5-SS-16
A5586-06	AH-B5-SS-30
A5586-07	AH-RB-121609
A5586-08	AH-B5-SS-13
A5586-09	AH-B5-SS-17
A5586-10	AH-B5-SS-18
A5586-11	AH-B5-SS-19
A5586-12	AH-B5-SS-20
A5586-13	AH-B5-SS-21

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

Signature : Mildred V Reyes

Mildred V. Reyes
I am approving this document
2010.01.10 17:23:32 -05'00'

CHEMTECH

CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 118
Project # N/A
Chemtech Project # A5586

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 12/16/09.
6 Solid samples were received on 12/17/09.
1 Water sample was received on 12/16/09.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium. This data package contains results for Hexavalent Chromium.

C. Analytical Techniques:
The analysis of Hexavalent Chromium was based on method 7196A

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples except for Hexavalent Chromium due to matrix interference.
The Matrix Spike analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:

I certify that the 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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

Mildred V. Reyes
I am approving this document
2010.01.10 17:23:10 -05'00'

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.

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Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	12/16/2009
Project:	RFP 118	Date Received:	12/16/2009
Client Sample ID:	AH-B5-SS-08	SDG No.:	A5586
Lab Sample ID:	A5586-01	Matrix:	SOIL
% Solids:	85.10		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.470	U	0.470	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-B5-SS-12**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-02**	**Matrix:**	**SOIL**
% Solids:	**86.30**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.463	U	0.463	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-B5-SS-14**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-03**	**Matrix:**	**SOIL**
% Solids:	**80.10**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.499	U	0.499	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-B5-SS-15**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-04**	**Matrix:**	**SOIL**
% Solids:	**87.50**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.457	U	0.457	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	Weston Solutions, Inc.	**Date Collected:**	12/16/2009
Project:	RFP 118	**Date Received:**	12/16/2009
Client Sample ID:	AH-B5-SS-16	**SDG No.:**	A5586
Lab Sample ID:	A5586-05	**Matrix:**	SOIL
% Solids:	80.00		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	7.88		0.50	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	Weston Solutions, Inc.	**Date Collected:**	12/16/2009
Project:	RFP 118	**Date Received:**	12/16/2009
Client Sample ID:	AH-B5-SS-30	**SDG No.:**	A5586
Lab Sample ID:	A5586-06	**Matrix:**	SOIL
% Solids:	85.50		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.468	U	0.468	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	12/16/2009
Project:	RFP 118	Date Received:	12/16/2009
Client Sample ID:	AH-RB-121609	SDG No.:	A5586
Lab Sample ID:	A5586-07	Matrix:	WATER
% Solids:	0.00		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.010	U	0.010	mg/L	1	12/17/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-RB-121609**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-07**	**Matrix:**	**WATER**
% Solids:	**0.00**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.09		0.010	mg/L	1	12/17/2009	7196 Hexavalent Chromium

Do not use this for

Comment

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Report of Analysis

Client:	Weston Solutions, Inc.	**Date Collected:**	12/17/2009
Project:	RFP 118	**Date Received:**	12/17/2009
Client Sample ID:	AH-B5-SS-13	**SDG No.:**	A5586
Lab Sample ID:	A5586-08	**Matrix:**	SOIL
% Solids:	85.00		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.490		0.471	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/17/2009**
Project:	**RFP 118**	**Date Received:**	**12/17/2009**
Client Sample ID:	**AH-B5-SS-17**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-09**	**Matrix:**	**SOIL**
% Solids:	**83.80**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.477	U	0.477	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/17/2009**
Project:	**RFP 118**	**Date Received:**	**12/17/2009**
Client Sample ID:	**AH-B5-SS-18**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-10**	**Matrix:**	**SOIL**
% Solids:	**83.60**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.560		0.478	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/17/2009**
Project:	**RFP 118**	**Date Received:**	**12/17/2009**
Client Sample ID:	**AH-B5-SS-19**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-11**	**Matrix:**	**SOIL**
% Solids:	**83.70**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.478	U	0.478	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/17/2009**
Project:	**RFP 118**	**Date Received:**	**12/17/2009**
Client Sample ID:	**AH-B5-SS-20**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-12**	**Matrix:**	**SOIL**
% Solids:	**86.00**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.910		0.465	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/17/2009**
Project:	**RFP 118**	**Date Received:**	**12/17/2009**
Client Sample ID:	**AH-B5-SS-21**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-13**	**Matrix:**	**SOIL**
% Solids:	**89.40**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.447	U	0.447	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

A5586

RPB
RST 2, Edison, NJ
EPA Contract Number: EP-W-06-072
PO#: 0069775 / RFP: 118

CHAIN OF CUSTODY RECORD
Site: Clifton, NJ
Contact Name: Sayed Iqbal
Contact Phone: 908-565-2989

No: RS/AHHT-12/16/09-0001

Lab: Chemtech
Lab Phone: (908) 789 - 8900

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Sample Time	MS/MSD
	AH-B5-SS-08	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	1	8 oz jar	4 C	11:30	N
	AH-B5-SS-12	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	1	8 oz jar	4 C	14:50	N
	AH-B5-SS-14	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	1	8 oz jar	4 C	15:00	N
	AH-B5-SS-15	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	2	8 oz jar	4 C	11:40	Y
	AH-B5-SS-16	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	1	8 oz jar	4 C	15:15	N
	AH-B5-SS-30	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	1	8 oz jar	4 C	11:20	N
	AH-RB-121609	Site	Hexavalent Chromium [Cr(VI)]	Water	12/16/2009	1	1L plastic	4 C	15:30	N

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Transfer All	[illegible] L.C.	12/16/09	[illegible]	12/16/09	1633		[illegible]	2020 12/16/09	[illegible]	12/16/09	20:20
	~~[illegible]~~	~~[illegible]~~									

A5586

RPB
RST 2, Edison, NJ
EPA Contract Number: EP-W-06-072
PO#: 0069775 / RFP: 118

CHAIN OF CUSTODY RECORD
Site: Clifton, NJ
Contact Name: Sayed Iqbal
Contact Phone: (908) 565 - 2989

No: RS/AHHT-12/17/09-0002

Lab: Chemtech
Lab Phone: (908) 789 - 8900

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Sample Time	MS/MSD
	AH-B5-SS-13	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/17/2009	1	8 oz jar	4 C	09:25	N
	AH-B5-SS-17	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/17/2009	1	8 oz jar	4 C	09:40	N
	AH-B5-SS-18	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/17/2009	1	8 oz jar	4 C	09:50	N
	AH-B5-SS-19	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/17/2009	1	8 oz jar	4 C	16:15	N
	AH-B5-SS-20	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/17/2009	1	8 oz jar	4 C	16:30	N
	AH-B5-SS-21	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/17/2009	1	8 oz jar	4 C	16:00	N

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY # 7+MD 5°C

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All Transfer	[illegible]	12/17/09	[illegible]	12/17/09	1712						
Samples	[illegible]	1915 12/17/09	[illegible]	12/17/09	19:15						

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CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

ANALYTICAL RESULTS SUMMARY

PROJECT NAME : RFP 118

WESTON SOLUTIONS, INC.
Raritan Plaza Suite 201
1090 King Georges Post Road
Edison , NJ - 08837-3703
Phone No: 7322256116

ORDER ID : **A5586**
ATTENTION : **Smita Sumbaly**

ACCREDITED IN ACCORDANCE WITH nelac
LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025
DoD ELAP

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-B5-SS-08**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-01**	**Matrix:**	**SOIL**
% Solids:	**85.10**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.470	U	0.470	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-B5-SS-12**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-02**	**Matrix:**	**SOIL**
% Solids:	**86.30**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.463	U	0.463	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-B5-SS-14**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-03**	**Matrix:**	**SOIL**
% Solids:	**80.10**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.499	U	0.499	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-B5-SS-15**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-04**	**Matrix:**	**SOIL**
% Solids:	**87.50**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.457	U	0.457	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-B5-SS-16**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-05**	**Matrix:**	**SOIL**
% Solids:	**80.00**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	7.88		0.50	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-B5-SS-30**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-06**	**Matrix:**	**SOIL**
% Solids:	**85.50**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.468	U	0.468	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Weston Solutions, Inc.	**Date Collected:**	12/16/2009
Project:	RFP 118	**Date Received:**	12/16/2009
Client Sample ID:	AH-RB-121609	**SDG No.:**	A5586
Lab Sample ID:	A5586-07	**Matrix:**	WATER
% Solids:	0.00		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.010	U	0.010	mg/L	1	12/17/2009	7196 Hexavalent Chromium

Comment

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-RB-121609**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-07**	**Matrix:**	**WATER**
% Solids:	**0.00**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.09		0.010	mg/L	1	12/17/2009	7196 Hexavalent Chromium

Do not use this fuse

Comment

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/17/2009**
Project:	**RFP 118**	**Date Received:**	**12/17/2009**
Client Sample ID:	**AH-B5-SS-13**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-08**	**Matrix:**	**SOIL**
% Solids:	**85.00**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.490		0.471	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/17/2009**
Project:	**RFP 118**	**Date Received:**	**12/17/2009**
Client Sample ID:	**AH-B5-SS-17**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-09**	**Matrix:**	**SOIL**
% Solids:	**83.80**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.477	U	0.477	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/17/2009**
Project:	**RFP 118**	**Date Received:**	**12/17/2009**
Client Sample ID:	**AH-B5-SS-18**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-10**	**Matrix:**	**SOIL**
% Solids:	**83.60**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.560		0.478	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/17/2009**
Project:	**RFP 118**	**Date Received:**	**12/17/2009**
Client Sample ID:	**AH-B5-SS-19**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-11**	**Matrix:**	**SOIL**
% Solids:	**83.70**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.478	U	0.478	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/17/2009**
Project:	**RFP 118**	**Date Received:**	**12/17/2009**
Client Sample ID:	**AH-B5-SS-20**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-12**	**Matrix:**	**SOIL**
% Solids:	**86.00**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.910		0.465	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/17/2009**
Project:	**RFP 118**	**Date Received:**	**12/17/2009**
Client Sample ID:	**AH-B5-SS-21**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-13**	**Matrix:**	**SOIL**
% Solids:	**89.40**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.447	U	0.447	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

DATA PACKAGE

GENERAL CHEMISTRY

PROJECT NAME : RFP 118

WESTON SOLUTIONS, INC.

Raritan Plaza Suite 201

1090 King Georges Post Road

Edison, NJ - 08837-3703

Phone No: 7322256116

ORDER ID : A5586

ATTENTION : Smita Sumbaly

ACCREDITED IN ACCORDANCE WITH nelac

LABORATORY ACCREDITATION BUREAU
ACCREDITED ISO/IEC 17025

DoD ELAP

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CHEMTECH
284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Cover Page

Order ID : A5586

Project ID : RFP 118

Client : Weston Solutions, Inc.

Lab Sample Number	Client Sample Number
A5586-01	AH-B5-SS-08
A5586-02	AH-B5-SS-12
A5586-03	AH-B5-SS-14
A5586-04	AH-B5-SS-15
A5586-05	AH-B5-SS-16
A5586-06	AH-B5-SS-30
A5586-07	AH-RB-121609
A5586-08	AH-B5-SS-13
A5586-09	AH-B5-SS-17
A5586-10	AH-B5-SS-18
A5586-11	AH-B5-SS-19
A5586-12	AH-B5-SS-20
A5586-13	AH-B5-SS-21

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

Signature : Mildred V Reyes

Mildred V. Reyes
I am approving this document
2010.01.10 17:23:32 -05'00'

CHEMTECH

CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 118
Project # N/A
Chemtech Project # A5586

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 12/16/09.
6 Solid samples were received on 12/17/09.
1 Water sample was received on 12/16/09.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium. This data package contains results for Hexavalent Chromium.

C. Analytical Techniques:
The analysis of Hexavalent Chromium was based on method 7196A

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples except for Hexavalent Chromium due to matrix interference.
The Matrix Spike analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:

I certify that the 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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

Mildred V. Reyes
I am approving this document
2010.01.10 17:23:10 -05'00'

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.

CHEMTECH

GENERAL CHEMISTRY DATA

CHEMTECH

ANALYTICAL RESULTS SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-B5-SS-08**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-01**	**Matrix:**	**SOIL**
% Solids:	**85.10**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.470	U	0.470	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-B5-SS-12**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-02**	**Matrix:**	**SOIL**
% Solids:	**86.30**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.463	U	0.463	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-B5-SS-14**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-03**	**Matrix:**	**SOIL**
% Solids:	**80.10**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.499	U	0.499	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-B5-SS-15**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-04**	**Matrix:**	**SOIL**
% Solids:	**87.50**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.457	U	0.457	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-B5-SS-16**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-05**	**Matrix:**	**SOIL**
% Solids:	**80.00**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	7.88		0.50	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-B5-SS-30**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-06**	**Matrix:**	**SOIL**
% Solids:	**85.50**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.468	U	0.468	mg/Kg	1	12/17/2009	7196 Hexavalent Chromium

Comment

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	Weston Solutions, Inc.	**Date Collected:**	12/16/2009
Project:	RFP 118	**Date Received:**	12/16/2009
Client Sample ID:	AH-RB-121609	**SDG No.:**	A5586
Lab Sample ID:	A5586-07	**Matrix:**	WATER
% Solids:	0.00		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.010	U	0.010	mg/L	1	12/17/2009	7196 Hexavalent Chromium

Comment

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/16/2009**
Project:	**RFP 118**	**Date Received:**	**12/16/2009**
Client Sample ID:	**AH-RB-121609**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-07**	**Matrix:**	**WATER**
% Solids:	**0.00**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.09		0.010	mg/L	1	12/17/2009	7196 Hexavalent Chromium

Do not use this file

Comment

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/17/2009**
Project:	**RFP 118**	**Date Received:**	**12/17/2009**
Client Sample ID:	**AH-B5-SS-13**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-08**	**Matrix:**	**SOIL**
% Solids:	**85.00**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.490		0.471	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/17/2009**
Project:	**RFP 118**	**Date Received:**	**12/17/2009**
Client Sample ID:	**AH-B5-SS-17**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-09**	**Matrix:**	**SOIL**
% Solids:	**83.80**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.477	U	0.477	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/17/2009**
Project:	**RFP 118**	**Date Received:**	**12/17/2009**
Client Sample ID:	**AH-B5-SS-18**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-10**	**Matrix:**	**SOIL**
% Solids:	**83.60**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.560		0.478	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/17/2009**
Project:	**RFP 118**	**Date Received:**	**12/17/2009**
Client Sample ID:	**AH-B5-SS-19**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-11**	**Matrix:**	**SOIL**
% Solids:	**83.70**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.478	U	0.478	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/17/2009**
Project:	**RFP 118**	**Date Received:**	**12/17/2009**
Client Sample ID:	**AH-B5-SS-20**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-12**	**Matrix:**	**SOIL**
% Solids:	**86.00**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.910		0.465	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

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Report of Analysis

Client:	**Weston Solutions, Inc.**	**Date Collected:**	**12/17/2009**
Project:	**RFP 118**	**Date Received:**	**12/17/2009**
Client Sample ID:	**AH-B5-SS-21**	**SDG No.:**	**A5586**
Lab Sample ID:	**A5586-13**	**Matrix:**	**SOIL**
% Solids:	**89.40**		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
Hexavalent Chromium	0.447	U	0.447	mg/Kg	1	12/23/2009	7196 Hexavalent Chromium

Comment

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QC RESULTS SUMMARY

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Initial and Continuing Calibration Verification

Client: Weston Solutions, Inc. **SDG No.:** A5586

Project:

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Hexavalent Chrom	mg/L	0.51	0.50	102.0	90-110	12/17/2009
Hexavalent Chrom	mg/L	0.51	0.50	102.0	90-110	12/23/2009
Hexavalent Chrom	mg/L	0.51	0.50	102.0	90-110	12/17/2009
Sample ID: CCV1						
Hexavalent Chrom	mg/L	0.50	0.50	100.0	90-110	12/17/2009
Hexavalent Chrom	mg/L	0.51	0.50	102.0	90-110	12/23/2009
Hexavalent Chrom	mg/L	0.51	0.50	102.0	90-110	12/17/2009
Sample ID: CCV2						
Hexavalent Chrom	mg/L	0.51	0.50	102.0	90-110	12/17/2009
Hexavalent Chrom	mg/L	0.51	0.50	102.0	90-110	12/17/2009
Hexavalent Chrom	mg/L	0.51	0.50	102.0	90-110	12/23/2009
Sample ID: CCV3						
Hexavalent Chrom	mg/L	0.51	0.50	102.0	90-110	12/17/2009
Hexavalent Chrom	mg/L	0.51	0.50	102.0	90-110	12/23/2009
Sample ID: CCV4						
Hexavalent Chrom	mg/L	0.51	0.50	102.0	90-110	12/17/2009

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Initial and Continuing Calibration Blank Summary

Client: Weston Solutions, Inc. **SDG No.:** A5586

Project:

Analyte	Units	Result	Acceptance Limits	Conc Qual	RDL	Analysis Date
Sample ID: ICB1						
Hexavalent Chromium	mg/L	< 0.010	+/-0.010	U	0.010	12/17/2009
Hexavalent Chromium	mg/L	< 0.010	+/-0.010	U	0.010	12/23/2009
Hexavalent Chromium	mg/L	< 0.010	+/-0.010	U	0.010	12/17/2009
Sample ID: CCB1						
Hexavalent Chromium	mg/L	< 0.010	+/-0.010	U	0.010	12/17/2009
Hexavalent Chromium	mg/L	< 0.010	+/-0.010	U	0.010	12/23/2009
Hexavalent Chromium	mg/L	< 0.010	+/-0.010	U	0.010	12/17/2009
Sample ID: CCB2						
Hexavalent Chromium	mg/L	< 0.010	+/-0.010	U	0.010	12/17/2009
Hexavalent Chromium	mg/L	< 0.010	+/-0.010	U	0.010	12/17/2009
Hexavalent Chromium	mg/L	< 0.010	+/-0.010	U	0.010	12/23/2009
Sample ID: CCB3						
Hexavalent Chromium	mg/L	< 0.010	+/-0.010	U	0.010	12/17/2009
Hexavalent Chromium	mg/L	< 0.010	+/-0.010	U	0.010	12/23/2009
Sample ID: CCB4						
Hexavalent Chromium	mg/L	< 0.010	+/-0.010	U	0.010	12/17/2009

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Preparation Blank Summary

Client: Weston Solutions, Inc. **SDG No.:** A5586

Project:

Analyte	Units	Result	Acceptance Limits	Conc Qual	RDL	Analysis Date
Sample ID: MBS						
Hexavalent Chromium	mg/Kg	< 0.40	+/-0.40	U	0.40	12/17/2009
Hexavalent Chromium	mg/Kg	< 0.40	+/-0.40	U	0.40	12/23/2009
Sample ID: MBW						
Hexavalent Chromium	mg/L	< 0.010	+/-0.010	U	0.010	12/17/2009

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Matrix Spike Summary

Client: Weston Solutions, Inc.
SDG No.: A5586
Project:
Sample ID: A5567-01
Client ID: SHAMROCK18-12-16-09S
Percent Solids for Spike Sample: 94.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	Dilution Factor	% Rec	Qual	Date Analyzed
Hexavalent Chrom	mg/Kg	75-125	40.60		0.80	U	42.19	2	96.2		12/17/2009
Hexavalent Chrom	mg/Kg	75-125	422.00		8.00	U	421.94	20	100.0		12/17/2009
Hexavalent Chrom	mg/Kg	75-125	40.50		0.80	U	42.19	2	96.0		12/17/2009

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Matrix Spike Summary

Client: Weston Solutions, Inc.
SDG No.: A5586
Project:
Sample ID: A5586-07
Client ID: AH-RB-121609S
Percent Solids for Spike Sample: 0.0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	Dilution Factor	% Rec	Qual	Date Analyzed
Hexavalent Chrom	mg/L	75-125	1.00		0.020	U	1.00	2	100.0		12/17/2009

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Matrix Spike Summary

Client: Weston Solutions, Inc.
SDG No.: A5586
Project:
Sample ID: A5586-08
Client ID: AH-B5-SS-13S
Percent Solids for Spike Sample: 85.0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	Dilution Factor	% Rec	Qual	Date Analyzed
Hexavalent Chrom	mg/Kg	75-125	48.30		0.80	U	47.05	2	102.6		12/23/2009
Hexavalent Chrom	mg/Kg	75-125	486.00		8.00	U	470.58	20	103.3		12/23/2009
Hexavalent Chrom	mg/Kg	75-125	48.10		0.80	U	47.05	2	102.3		12/23/2009

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Duplicate Sample Summary

Client: Weston Solutions, Inc.
SDG No.: A5586
Project:
Sample ID: A5567-01
Client ID: SHAMROCK18-12-16-09D
Percent Solids for Spike Sample: 94.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	Dilution Factor	RPD/ AD	Qual	Date Analyzed
Hexavalent Chromiu	mg/Kg	+/-20	0.42	U	0.42	U	1	0		12/17/2009

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Duplicate Sample Summary

Client: Weston Solutions, Inc.
SDG No.: A5586
Project:
Sample ID: A5586-07
Client ID: AH-RB-121609D
Percent Solids for Spike Sample: 0.0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	Dilution Factor	RPD/ AD	Qual	Date Analyzed
Hexavalent Chromiu	mg/L	+/-20	0.01	U	0.01	U	1	0		12/17/2009

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Duplicate Sample Summary

Client: Weston Solutions, Inc.
SDG No.: A5586
Project:
Sample ID: A5586-08
Client ID: AH-B5-SS-13D
Percent Solids for Spike Sample: 85.0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	Dilution Factor	RPD/ AD	Qual	Date Analyzed
Hexavalent Chromiu	mg/Kg	+/-20	0.47		0.31	U	1	200.0		12/23/2009

2001

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Duplicate Sample Summary

Client: Weston Solutions, Inc.
SDG No.: A5586
Project:
Sample ID: LCSW
Client ID: LCSWD
Percent Solids for Spike Sample: 0.0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	Dilution Factor	RPD/ AD	Qual	Date Analyzed
Hexavalent Chromiu	mg/L	+/-20	0.51		0.51		1	0		12/17/2009

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Laboratory Control Sample Summary

Client: Weston Solutions, Inc. **SDG No.:** A5586

Project:

Sample ID Analyte	Units	True Value	Result	C	% Recovery	Dilution Factor	Acceptance Limit %R	Date Analyzed
LCSS								
Hexavalent Chromium	mg/Kg	20.00	20.60		103.0	1	80-120	12/17/2009
Hexavalent Chromium	mg/Kg	20.00	20.50		102.5	1	80-120	12/23/2009

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Laboratory Control Sample Summary

Client: Weston Solutions, Inc. **SDG No.:** A5586

Project:

Sample ID Analyte	Units	True Value	Result	C	% Recovery	Dilution Factor	Acceptance Limit %R	Date Analyzed
LCSSD								
Hexavalent Chromium	mg/Kg	20.00	20.60		103.0	1	80-120	12/17/2009
Hexavalent Chromium	mg/Kg	20.00	20.50		102.5	1	80-120	12/23/2009

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Laboratory Control Sample Summary

Client: Weston Solutions, Inc. **SDG No.:** A5586

Project:

Sample ID Analyte	Units	True Value	Result	C	% Recovery	Dilution Factor	Acceptance Limit %R	Date Analyzed
LCSW								
Hexavalent Chromium	mg/L	0.50	0.51		102.0	1	80-120	12/17/2009

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Laboratory Control Sample Summary

Client: Weston Solutions, Inc. **SDG No.:** A5586

Project:

Sample ID Analyte	Units	True Value	Result	C	% Recovery	Dilution Factor	Acceptance Limit %R	Date Analyzed
LCSWD								
Hexavalent Chromium	mg/L	0.50	0.51		102.0	1	80-120	12/17/2009

RAW DATA

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LAB CHRONICLE

OrderID:	A5586	**OrderDate:**	12/17/2009 10:25:44 AM
Client:	Weston Solutions, Inc.	**Project:**	RFP 118
Contact:	Smita Sumbaly	**Location:**	D22

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
A5586-01	**AH-B5-SS-08**	**SOIL**			**12/16/09**			**12/16/09**
			Hexavalent Chromium	7196		12/17/09	12/17/09	
A5586-02	**AH-B5-SS-12**	**SOIL**			**12/16/09**			**12/16/09**
			Hexavalent Chromium	7196		12/17/09	12/17/09	
A5586-03	**AH-B5-SS-14**	**SOIL**			**12/16/09**			**12/16/09**
			Hexavalent Chromium	7196		12/17/09	12/17/09	
A5586-04	**AH-B5-SS-15**	**SOIL**			**12/16/09**			**12/16/09**
			Hexavalent Chromium	7196		12/17/09	12/17/09	
A5586-05	**AH-B5-SS-16**	**SOIL**			**12/16/09**			**12/16/09**
			Hexavalent Chromium	7196		12/17/09	12/17/09	
A5586-06	**AH-B5-SS-30**	**SOIL**			**12/16/09**			**12/16/09**
			Hexavalent Chromium	7196		12/17/09	12/17/09	
A5586-07	**AH-RB-121609**	**WATER**			**12/16/09**			**12/16/09**
			Hexavalent Chromium	7196		12/17/09	12/17/09	
A5586-08	**AH-B5-SS-13**	**SOIL**			**12/17/09**			**12/17/09**
			Hexavalent Chromium	7196		12/23/09	12/23/09	
A5586-09	**AH-B5-SS-17**	**SOIL**			**12/17/09**			**12/17/09**
			Hexavalent Chromium	7196		12/23/09	12/23/09	
A5586-10	**AH-B5-SS-18**	**SOIL**			**12/17/09**			**12/17/09**
			Hexavalent Chromium	7196		12/23/09	12/23/09	
A5586-11	**AH-B5-SS-19**	**SOIL**			**12/17/09**			**12/17/09**
			Hexavalent Chromium	7196		12/23/09	12/23/09	
A5586-12	**AH-B5-SS-20**	**SOIL**			**12/17/09**			**12/17/09**
			Hexavalent Chromium	7196		12/23/09	12/23/09	

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LAB CHRONICLE

A5586-13	**AH-B5-SS-21**	**SOIL**			**12/17/09**			**12/17/09**
			Hexavalent Chromium	7196		12/23/09	12/23/09	

M-PERCENTSOLIDS-01(ILM05.4)

CHEMTECH

QC: LB47837

PERCENT SOLIDS

ANALYST: [illegible]
DATE: 12/18/09

Lab ID	Client ID	Dish #	Dish Weight (g)	Dish Wt.+ Sample (g)	Dish Wt.+ Dry Sample (g)	% Solids
A5442-08	IOCC-B68-WC-0-3-N	1	1.18	9.05	7.97	86.3
A5442-09	IOCC-B68-WC-3-6-N	2	1.16	9.03	7.06	75.0
A5442-10	IOCC-C66-PEN-0-1-N	3	1.18	8.95	6.94	74.2
A5442-11	IOCC-C66-PEN-3-4-N	4	1.18	8.99	7.31	78.5
A5442-12	IOCC-C70-PEN-3-4-N	5	1.16	8.91	8.32	92.4
A5583-05	WESTLIFTBASE	6	1.15	9.06	8.63	94.6
A5583-06	WESTLIFTNOTHWALL	7	1.16	9.08	8.5	92.7
A5583-07	WESTLIFTSOUTHWALL	8	1.16	8.92	8.29	91.9
A5583-08	EASTLIFTWESTWALL	9	1.17	8.96	7.59	82.5
A5583-09	EASTLIFTEASTWALL	10	1.17	9.08	7.62	81.6
A5583-10	EASTLIFTSOUTHWALL	11	1.17	9.02	7.5	80.7
A5583-11	EASTLIFTNORTHWALL	12	1.17	9.07	7.83	84.4
A5584-01	EXCAVATIONBOTTOM(8000G/	13	1.17	9.06	8.02	86.9
A5584-02	EXCAVATIONWALLS(8000GAL	14	1.16	9.07	7.64	82.0
A5586-01	AH-B5-SS-08	15	1.18	8.94	7.78	85.1
A5586-02	AH-B5-SS-12	16	1.16	8.94	7.87	86.3
A5586-03	AH-B5-SS-14	17	1.19	9	7.44	80.1
A5586-04	AH-B5-SS-15	18	1.19	8.99	8.01	87.5
A5586-05	AH-B5-SS-16	19	1.19	9.04	7.47	80.0
A5586-06	AH-B5-SS-30	20	1.19	8.96	7.83	85.5
A5595-01	ENV-40-S2(14-16)	21	1.17	9.05	7.29	77.7
A5584-01D	EXCAVATIONBOTTOM(8000G/	13D	1.17	9.09	8.12	87.8
A5595-01D	ENV-40-S2(14-16)D	21D	1.17	9.08	7.39	78.7
BLANK	DISH	B1	1.16	1.16	1.16	0.0
BLANK	DISH	B2	1.18	1.18	1.18	0.0

WT1: 1.00g = 1.00g
WT2: 10.00g = 10.00g

OVEN TEMP: 106 C
TIME IN: 12/17/09 19:00
TIME OUT:

OVEN TEMP: 106 C
TIME OUT: 12/18/09 9:30 [illegible]

M-PERCENT SOLIDS-01 (ILM05.4)

CHEMTECH

QC: LB47869

PERCENT SOLIDS

ANALYST: [illegible]
DATE: 12/19/09

Lab ID	Client ID	Dish #	Dish Weight (g)	Dish Wt.+ Sample (g)	Dish Wt.+ Dry Sample (g)	% Solids
A5584-05	EXCAVATIONBOTTOM(10000C	1	1.18	9.08	7.76	83.3
A5584-06	EXCAVATIONWALLS(10000GA	2	1.18	9.05	7.36	78.6
A5586-08	AH-B5-SS-13	3	1.16	9	7.82	85.0
A5586-09	AH-B5-SS-17	4	1.18	9.01	7.74	83.8
A5586-10	AH-B5-SS-18	5	1.18	9	7.71	83.6
A5586-11	AH-B5-SS-19	6	1.16	9.03	7.74	83.7
A5586-12	AH-B5-SS-20	7	1.18	9.08	7.97	86.0
A5586-13	AH-B5-SS-21	8	1.17	8.96	8.13	89.4
A5601-01	A4EP01	9	1.18	8.94	8.11	89.4
A5601-02	A4EP02	10	1.17	8.78	8.01	89.9
A5601-03	A4EP03	11	1.16	9.03	7.71	83.3
A5601-04	A5601-03MS	12	1.16	9.03	7.71	83.3
A5601-05	A5601-03MSD	13	1.16	9.03	7.71	83.3
A5601-06	A4EP04	14	1.18	8.97	7.62	82.7
A5601-07	A4EP05	15	1.18	8.92	7.58	82.7
A5601-08	A4EP06	16	1.19	8.81	8.01	89.6
A5601-09	A4EP07	17	1.17	8.89	8.16	90.6
A5601-10	A4EP08	18	1.18	9	7.88	85.7
A5601-11	A4EP09	19	1.17	8.98	8.38	92.4
A5601-12	A4EP10	20	1.17	8.97	6.75	71.6
A5601-13	A4EP11	21	1.18	8.88	7.66	84.2
A5601-14	A4EP12	22	1.16	8.89	7.57	83.0
A5601-15	A4EP13	23	1.17	9.02	8.03	87.4
A5601-16	A4EP14	24	1.19	8.88	8	88.6
A5601-17	A4EP96	25	1.19	9.01	7.66	82.8
A5601-18	A4WC01	26	1.17	8.9	6.85	73.5
A5601-19	A3EP27	27	1.18	8.91	7.72	84.7
A5601-20	A3EP28	28	1.17	8.96	7.86	85.9
A5601-21	A3EP29	29	1.16	9.02	7.87	85.4
A5601-22	A3EP30	30	1.17	9.01	7.84	85.1
A5601-23	A3EP31	31	1.19	9.06	8	86.6
A5601-24	A3EP32	32	1.16	8.96	8.1	89.0
A5603-01	0912147228	33		FINE	SAMPLE	100.0
A5604-01	FK-BPM-02-C1A-C2A-C3A-D1A	34	1.2	8.97	8.36	92.2

~~WT~~1: 1.00g = 1.00g
~~WT~~2: 10.00g = 10.00g

OVEN TEMP: 106C
TIME IN: 12/18/09 20:00 M
TIME OUT: ——

OVEN TEMP: 106C
TIME OUT: 12/19/09 10:00 AM

040

CHEMTECH

QC: LB47869

PERCENT SOLIDS

ANALYST: [illegible]
DATE: 12/19/09

Lab ID	Client ID	Dish #	Dish Weight (g)	Dish Wt.+ Sample (g)	Dish Wt.+ Dry Sample (g)	% Solids
A5604-03	FK-BPM-02-C1A-C2A-C3A-D1A	35	1.16	9.04	8.39	91.8
A5605-01	FK-BPM-02-D4A-D5A-C4A-C5A	36	1.16	8.97	8.36	92.2
A5605-03	FK-BPM-02-D4A-D5A-C4A-C5A	37	1.19	8.97	8.33	91.8
A5606-01	FK-BPM-02-C6A-C7A-D6A-D7A	38	1.17	8.95	8.37	92.6
A5606-03	FK-BPM-02-C6A-C7A-D6A-D7A	39	1.18	9.04	8.41	92.0
A5607-01	FK-BPM-02-D4A	40	1.18	8.99	8.41	92.6
A5607-02	FK-BPM-02-D5A	41	1.18	8.96	8.39	92.7
A5607-03	FK-BPM-02-C4A	42	1.17	9.03	8.38	91.8
A5607-04	FK-BPM-02-C5A	43	1.18	9.02	8.41	92.3
A5608-01	FK-BPM-02-C6A	44	1.18	8.91	8.33	92.5
A5608-02	FK-BPM-02-C7A	45	1.16	8.95	8.29	91.6
A5608-03	FK-BPM-02-D6A	46	1.17	9.05	8.41	91.9
A5608-04	FK-BPM-02-D7A	47	1.18	8.94	8.33	92.2
A5609-01	FK-BPM-02-C1A	48	1.19	8.93	8.35	92.6
A5609-02	FK-BPM-02-C2A	49	1.16	8.95	8.33	92.1
A5609-03	FK-BPM-02-C3A	50	1.18	8.89	8.32	92.7
A5609-04	FK-BPM-02-D1A	51	1.19	9.01	8.42	92.5
A5613-01	MIBC-BOTTOM	52	1.18	8.88	7.71	84.9
A5613-02	MIBC-EXC	53	1.17	8.99	7.72	83.8
A5615-01	HRR-SB01-S1(0-2)	54	1.17	8.91	7.55	82.5
A5615-02	HRR-SB01-S2	55	1.16	9.09	5.95	60.5
A5615-03	HRR-SB03-S1(0-2)	56	1.16	8.9	7.26	78.9
A5615-04	HRR-SB03-S2	57	1.16	8.98	6.84	72.7
A5615-05	HRR-SB04-S1(0-2)	58	1.16	9.09	6.92	72.7
A5615-06	HRR-SB04-S2	59	1.15	9.09	5.87	59.5
A5615-07	HRR-SB02-S1(0-2)	60	1.19	8.89	7.22	78.4
A5615-08	HRR-SB02-S2	61	1.19	9.1	6.62	68.7
A5615-10	KBM-SD01-S2	62	1.19	8.95	3.03	23.8
A5616-01	15.6A	63	1.19	8.71	7.02	77.6
A5616-02	15.7A	64	1.19	8.93	7.13	76.8
A5616-03	DUP	65	1.17	9.03	6.98	74.0
A5601-03D	A4EP03D	11D	1.16	9.06	7.81	84.2
A5604-01D	FK-BPM-02-C1A-C2A-C3A-D1A	34D	1.2	9	8.46	93.1
A5609-04D	FK-BPM-02-D1AD	51D	1.19	9.04	8.52	93.4

OVEN TEMP: 106 C
TIME IN: 12/18/09 10:00 AM
TIME OUT: ——

OVEN TEMP: 106 C
TIME OUT: 12/19/09 10:00 AM

CHEMTECH

QC: L847869

PERCENT SOLIDS

ANALYST: [illegible]
DATE: 12/19/09

Lab ID	Client ID	Dish #	Dish Weight (g)	Dish Wt.+ Sample (g)	Dish Wt.+ Dry Sample (g)	% Solids
A5616-02D	15.7AD	64D	1.19	8.96	7.23	77.8
BLANK	DISH	B1	1.17	1.17	1.17	0.0
BLANK	DISH	B2	1.18	1.18	1.18	0.0
BLANK	DISH	B3	1.19	1.19	1.19	0.0
BLANK	DISH	B4	1.16	1.16	1.16	0.0

OVEN TEMP: 106 C
TIME IN: 12/18/09 20:00 [illegible]
TIME OUT:

OVEN TEMP: 106 C
TIME OUT: 12/19/09 10:00 [illegible]

WORKLIST(Hardcopy Internal Chain)

Worklist Name %1-12180 **Date:** 18-Dec-09 LB47869

Due Date	matrix	Sample	Test	Preservative	Customer	Storage location	Customer Sample	Collect Date	METHOD
2/27/2009 9:25:00 AM	Solid	A5586-08	Percent Solids	Cool 4 deg C	Weston Solutions, I	D22	AH-B5-SS-13	12/17/2009	Chemtech -SOP
2/27/2009 9:25:00 AM	Solid	A5586-09	Percent Solids	Cool 4 deg C	Weston Solutions, I	D22	AH-B5-SS-17	12/17/2009	Chemtech -SOP
2/27/2009 9:25:00 AM	Solid	A5586-10	Percent Solids	Cool 4 deg C	Weston Solutions, I	D22	AH-B5-SS-18	12/17/2009	Chemtech -SOP
2/27/2009 9:25:00 AM	Solid	A5586-11	Percent Solids	Cool 4 deg C	Weston Solutions, I	D22	AH-B5-SS-19	12/17/2009	Chemtech -SOP
2/27/2009 9:25:00 AM	Solid	A5586-12	Percent Solids	Cool 4 deg C	Weston Solutions, I	D22	AH-B5-SS-20	12/17/2009	Chemtech -SOP
2/27/2009 9:25:00 AM	Solid	A5586-13	Percent Solids	Cool 4 deg C	Weston Solutions, I	D22	AH-B5-SS-21	12/17/2009	Chemtech -SOP
2/21/2009 7:15:00 PM	Solid	A5601-01	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A4EP01	12/17/2009	Chemtech -SOP
2/21/2009 7:15:00 PM	Solid	A5601-02	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A4EP02	12/17/2009	Chemtech -SOP
2/21/2009 7:15:00 PM	Solid	A5601-03	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A4EP03	12/17/2009	Chemtech -SOP
2/21/2009 7:15:00 PM	Solid	A5601-04	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A5601-03MS	12/17/2009	Chemtech -SOP
2/21/2009 7:15:00 PM	Solid	A5601-05	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A5601-03MSD	12/17/2009	Chemtech -SOP
2/21/2009 7:15:00 PM	Solid	A5601-06	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A4EP04	12/17/2009	Chemtech -SOP
2/21/2009 7:15:00 PM	Solid	A5601-07	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A4EP05	12/17/2009	Chemtech -SOP
2/21/2009 7:15:00 PM	Solid	A5601-08	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A4EP06	12/17/2009	Chemtech -SOP
2/21/2009 7:15:00 PM	Solid	A5601-09	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A4EP07	12/17/2009	Chemtech -SOP
2/21/2009 7:15:00 PM	Solid	A5601-10	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A4EP08	12/17/2009	Chemtech -SOP
2/21/2009 7:15:00 PM	Solid	A5601-11	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A4EP09	12/17/2009	Chemtech -SOP
2/21/2009 7:15:00 PM	Solid	A5601-12	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A4EP10	12/17/2009	Chemtech -SOP
2/21/2009 7:15:00 PM	Solid	A5601-13	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A4EP11	12/17/2009	Chemtech -SOP
2/21/2009 7:15:00 PM	Solid	A5601-14	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A4EP12	12/17/2009	Chemtech -SOP
2/21/2009 7:15:00 PM	Solid	A5601-15	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A4EP13	12/17/2009	Chemtech -SOP

Date/Time 12/18/09 14:00
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Date/Time 12/18/09 20:00
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WORKLIST(Hardcopy Internal Chain)

Worklist Name %1-12180 Date: 18-Dec-09 LB47869

Due Date	matrix	Sample	Test	Preservative	Customer	Storage location	Customer Sample	Collect Date	METHOD
2/21/2009 7:15:00 PM	Solid	A5601-16	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A4EP14	12/17/2009	Chemtech -SOP
2/21/2009 7:15:00 PM	Solid	A5601-17	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A4EP96	12/17/2009	Chemtech -SOP
2/18/2009 7:15:00 PM	Solid	A5601-18	Percent Solids	Cool 4 deg C	Tetra Tech EC Inc.	D51	A4WC01	12/17/2009	Chemtech -SOP
2/21/2009 7:15:00 PM	Solid	A5601-19	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A3EP27	12/17/2009	Chemtech -SOP
2/21/2009 7:15:00 PM	Solid	A5601-20	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A3EP28	12/17/2009	Chemtech -SOP
2/21/2009 7:15:00 PM	Solid	A5601-21	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A3EP29	12/17/2009	Chemtech -SOP
2/21/2009 7:15:00 PM	Solid	A5601-22	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A3EP30	12/17/2009	Chemtech -SOP
2/21/2009 7:15:00 PM	Solid	A5601-23	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A3EP31	12/17/2009	Chemtech -SOP
2/21/2009 7:15:00 PM	Solid	A5601-24	Percent Solids	Cool	Tetra Tech EC Inc.	D51	A3EP32	12/17/2009	Chemtech -SOP
12/17/2009	Solid	A5603-01	Percent Solids	NONE	Pharmachem Labo	D21	0912147228	12/7/2009	Chemtech -SOP
2/21/2009 2:00:00 PM	Solid	A5604-01	Percent Solids	Cool	Tully Construction	E31	2-C1A-C2A-C3A-D1A	12/17/2009	Chemtech -SOP
2/25/2009 2:00:00 PM	Solid	A5604-03	Percent Solids	Cool	Tully Construction	E31	2-C1A-C2A-C3A-D1A	12/17/2009	Chemtech -SOP
2/21/2009 2:00:00 PM	Solid	A5605-01	Percent Solids	Cool	Tully Construction	E31	2-D4A-D5A-C4A-C5A	12/17/2009	Chemtech -SOP
2/25/2009 2:00:00 PM	Solid	A5605-03	Percent Solids	Cool	Tully Construction	E31	2-D4A-D5A-C4A-C5A	12/17/2009	Chemtech -SOP
2/21/2009 2:00:00 PM	Solid	A5606-01	Percent Solids	Cool	Tully Construction	E31	2-C6A-C7A-D6A-D7A	12/18/2009	Chemtech -SOP
2/25/2009 2:00:00 PM	Solid	A5606-03	Percent Solids	Cool	Tully Construction	E31	2-C6A-C7A-D6A-D7A	12/18/2009	Chemtech -SOP
2/25/2009 2:00:00 PM	Solid	A5607-01	Percent Solids	Cool	Tully Construction		FK-BPM-02-D4A	12/17/2009	Chemtech -SOP
2/25/2009 2:00:00 PM	Solid	A5607-02	Percent Solids	Cool	Tully Construction		FK-BPM-02-D5A	12/17/2009	Chemtech -SOP
2/25/2009 2:00:00 PM	Solid	A5607-03	Percent Solids	Cool	Tully Construction		FK-BPM-02-C4A	12/17/2009	Chemtech -SOP
2/25/2009 2:00:00 PM	Solid	A5607-04	Percent Solids	Cool	Tully Construction		FK-BPM-02-C5A	12/17/2009	Chemtech -SOP
2/25/2009 2:00:00 PM	Solid	A5608-01	Percent Solids	Cool	Tully Construction	--Select--	FK-BPM-02-C6A	12/18/2009	Chemtech -SOP

Date/Time 12/18/09 14:00
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Relinquished by: Ken R.

Date/Time 12/18/09 20:00
Received by: Ken R.
Relinquished by: [illegible]

WORKLIST(Hardcopy Internal Chain)

Worklist Name %1-12180 Date: 18-Dec-09 LB47869

Due Date	matrix	Sample	Test	Preservative	Customer	Storage location	Customer Sample	Collect Date	METHOD
2/25/2009 2:00:00 PM	Solid	A5608-02	Percent Solids	Cool	Tully Construction	--Select--	FK-BPM-02-C7A	12/18/2009	Chemtech -SOP
2/25/2009 2:00:00 PM	Solid	A5608-03	Percent Solids	Cool	Tully Construction	--Select--	FK-BPM-02-D6A	12/18/2009	Chemtech -SOP
2/25/2009 2:00:00 PM	Solid	A5608-04	Percent Solids	Cool	Tully Construction	--Select--	FK-BPM-02-D7A	12/18/2009	Chemtech -SOP
2/25/2009 2:00:00 PM	Solid	A5609-01	Percent Solids	Cool	Tully Construction	--Select--	FK-BPM-02-C1A	12/17/2009	Chemtech -SOP
2/25/2009 2:00:00 PM	Solid	A5609-02	Percent Solids	Cool	Tully Construction	--Select--	FK-BPM-02-C2A	12/17/2009	Chemtech -SOP
2/25/2009 2:00:00 PM	Solid	A5609-03	Percent Solids	Cool	Tully Construction	--Select--	FK-BPM-02-C3A	12/17/2009	Chemtech -SOP
2/25/2009 2:00:00 PM	Solid	A5609-04	Percent Solids	Cool	Tully Construction	--Select--	FK-BPM-02-D1A	12/17/2009	Chemtech -SOP

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Relinquished by: Ken R.

Date/Time 12/18/09 20:00
Received by: Ken R.
Relinquished by: [illegible]

WORKLIST(Hardcopy Internal Chain)

Worklist Name %1-12180 Date: 21-Dec-09 LB478669

Due Date	matrix	Sample	Test	Preservative	Customer	Storage location	Customer Sample	Collect Date	METHOD
12/23/2009	Solid	A5584-05	Percent Solids	Cool 4 deg C	AECOM Technical	D21	BOTTOM(10000GAL)	12/18/2009	Chemtech -SOP
12/23/2009	Solid	A5584-06	Percent Solids	Cool 4 deg C	AECOM Technical	D21	NWALLS(10000GAL)	12/18/2009	Chemtech -SOP
/27/2009 7:30:00 PM	Solid	A5613-01	Percent Solids	Cool	Chazen Companie	D31	MIBC-BOTTOM	12/17/2009	Chemtech -SOP
/27/2009 8:00:00 PM	Solid	A5613-02	Percent Solids	Cool	Chazen Companie	D31	MIBC-EXC	12/17/2009	Chemtech -SOP
/23/2009 5:30:00 PM	Solid	A5615-01	Percent Solids	Cool 4 deg C	Portal Partners Tri-	E52	HRR-SB01-S1(0-2)	12/18/2009	Chemtech -SOP
/23/2009 5:30:00 PM	Solid	A5615-02	Percent Solids	Cool 4 deg C	Portal Partners Tri-	E52	HRR-SB01-S2	12/18/2009	Chemtech -SOP
/23/2009 5:30:00 PM	Solid	A5615-03	Percent Solids	Cool 4 deg C	Portal Partners Tri-	E52	HRR-SB03-S1(0-2)	12/18/2009	Chemtech -SOP
/23/2009 5:30:00 PM	Solid	A5615-04	Percent Solids	Cool 4 deg C	Portal Partners Tri-	E52	HRR-SB03-S2	12/18/2009	Chemtech -SOP
/23/2009 5:30:00 PM	Solid	A5615-05	Percent Solids	Cool 4 deg C	Portal Partners Tri-	E52	HRR-SB04-S1(0-2)	12/18/2009	Chemtech -SOP
/23/2009 5:30:00 PM	Solid	A5615-06	Percent Solids	Cool 4 deg C	Portal Partners Tri-	E52	HRR-SB04-S2	12/18/2009	Chemtech -SOP
/23/2009 5:30:00 PM	Solid	A5615-07	Percent Solids	Cool 4 deg C	Portal Partners Tri-	E52	HRR-SB02-S1(0-2)	12/18/2009	Chemtech -SOP
/23/2009 5:30:00 PM	Solid	A5615-08	Percent Solids	Cool 4 deg C	Portal Partners Tri-	E52	HRR-SB02-S2	12/18/2009	Chemtech -SOP
/23/2009 5:30:00 PM	Solid	A5615-10	Percent Solids	Cool 4 deg C	Portal Partners Tri-	E52	KBM-SD01-S2	12/18/2009	Chemtech -SOP
/25/2009 6:50:00 PM	Solid	A5616-01	Percent Solids	Cool	Louis Berger Group	E11	15.6A	12/17/2009	Chemtech -SOP
/25/2009 6:50:00 PM	Solid	A5616-02	Percent Solids	Cool	Louis Berger Group	E11	15.7A	12/17/2009	Chemtech -SOP
/25/2009 6:50:00 PM	Solid	A5616-03	Percent Solids	Cool	Louis Berger Group	E11	DUP	12/17/2009	Chemtech -SOP

ate/Time 12/18/09 14:00
eceived by: KD
elinquished by: Ken R

Date/Time 12/18/09 20:00
Received by: Ken R
Relinquished by: KD

WORKLIST(Hardcopy Internal Chain)

Worklist Name %1-12170 **Date:** 17-Dec-09 LB47837

Due Date	matrix	Sample	Test	Preservative	Customer	Storage location	Customer Sample	Collect Date	METHOD
2/15/2009 6:00:00 PM	Solid	A5442-08	Percent Solids	Cool 4 deg C	Conti Environment	B33	IOCC-B68-WC-0-3-N	12/8/2009	Chemtech -SOP
2/15/2009 6:00:00 PM	Solid	A5442-09	Percent Solids	Cool 4 deg C	Conti Environment	B33	IOCC-B68-WC-3-6-N	12/8/2009	Chemtech -SOP
2/15/2009 6:00:00 PM	Solid	A5442-10	Percent Solids	Cool 4 deg C	Conti Environment	B33	IOCC-C66-PEN-0-1-N	12/8/2009	Chemtech -SOP
2/15/2009 6:00:00 PM	Solid	A5442-11	Percent Solids	Cool 4 deg C	Conti Environment	B33	IOCC-C66-PEN-3-4-N	12/8/2009	Chemtech -SOP
2/15/2009 6:00:00 PM	Solid	A5442-12	Percent Solids	Cool 4 deg C	Conti Environment	B33	IOCC-C70-PEN-3-4-N	12/8/2009	Chemtech -SOP
2/26/2009 9:20:00 AM	Solid	A5583-05	Percent Solids	Cool	URS Corporation	D32	WESTLIFTBASE	12/16/2009	Chemtech -SOP
2/26/2009 9:50:00 AM	Solid	A5583-06	Percent Solids	Cool	URS Corporation	D32	'ESTLIFTNOTHWALL	12/16/2009	Chemtech -SOP
2/26/2009 9:52:00 AM	Solid	A5583-07	Percent Solids	Cool	URS Corporation	D32	:STLIFTSOUTHWALL	12/16/2009	Chemtech -SOP
26/2009 11:35:00 AM	Solid	A5583-08	Percent Solids	Cool	URS Corporation	D32	ASTLIFTWESTWALL	12/16/2009	Chemtech -SOP
26/2009 11:38:00 AM	Solid	A5583-09	Percent Solids	Cool	URS Corporation	D32	:ASTLIFTEASTWALL	12/16/2009	Chemtech -SOP
26/2009 11:40:00 AM	Solid	A5583-10	Percent Solids	Cool	URS Corporation	D32	.STLIFTSOUTHWALL	12/16/2009	Chemtech -SOP
26/2009 11:43:00 AM	Solid	A5583-11	Percent Solids	Cool	URS Corporation	D32	.STLIFTNORTHWALL	12/16/2009	Chemtech -SOP
2/21/2009 9:25:00 AM	Solid	A5584-01	Percent Solids	Cool	AECOM Technical	D31	NBOTTOM(8000GAL)	12/16/2009	Chemtech -SOP
2/21/2009 9:25:00 AM	Solid	A5584-02	Percent Solids	Cool	AECOM Technical	D31	ONWALLS(8000GAL)	12/16/2009	Chemtech -SOP
26/2009 11:30:00 AM	Solid	A5586-01	Percent Solids	Cool	Weston Solutions, I	D22	AH-B5-SS-08	12/16/2009	Chemtech -SOP
2/26/2009 2:50:00 PM	Solid	A5586-02	Percent Solids	Cool	Weston Solutions, I	D22	AH-B5-SS-12	12/16/2009	Chemtech -SOP
2/26/2009 3:00:00 PM	Solid	A5586-03	Percent Solids	Cool	Weston Solutions, I	D22	AH-B5-SS-14	12/16/2009	Chemtech -SOP
26/2009 11:40:00 AM	Solid	A5586-04	Percent Solids	Cool	Weston Solutions, I	D22	AH-B5-SS-15	12/16/2009	Chemtech -SOP
2/26/2009 3:15:00 PM	Solid	A5586-05	Percent Solids	Cool	Weston Solutions, I	D22	AH-B5-SS-16	12/16/2009	Chemtech -SOP
26/2009 11:20:00 AM	Solid	A5586-06	Percent Solids	Cool	Weston Solutions, I	D22	AH-B5-SS-30	12/16/2009	Chemtech -SOP

Date/Time 12/17/09 14:30
Received by: [illegible]
Relinquished by: Ken K

Date/Time 12/17/09 19:00
Received by: Ken K
Relinquished by: [illegible]

WORKLIST(Hardcopy Internal Chain)

Worklist Name %1-12170

Date: 17-Dec-09 LB47837

Due Date	matrix	Sample	Test	Preservative	Customer	Storage location	Customer Sample	Collect Date	METHOD
12/22/2009 3:35:00 PM	Solid	A5595-01	Percent Solids	Cool	Portal Partners Tri-	D62	ENV-40-S2(14-16)	12/17/2009	Chemtech -SOP

Date/Time 12/17/09 14:30
Received by: [illegible]
Relinquished by: [illegible]

Date/Time 12/17/09 19:00
Received by: [illegible]
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WORKLIST(Hardcopy Internal Chain)

Worklist Name %1-12160 **Date:** 17-Dec-09 LB47816

Due Date	matrix	Sample	Test	Preservative	Customer	Storage location	Customer Sample	Collect Date	METHOD
2/22/2009 6:55:00 PM	Solid	A5550-11	Percent Solids	Cool	Conti Environment	D21	IOCC-C39-PEN-0-1-N	12/16/2009	Chemtech -SOP
2/22/2009 6:55:00 PM	Solid	A5550-12	Percent Solids	Cool	Conti Environment	D21	IOCC-C39-PEN-3-4-N	12/16/2009	Chemtech -SOP
2/22/2009 6:55:00 PM	Solid	A5550-13	Percent Solids	Cool	Conti Environment	D21	IOCC-C44-PEN-0-1-N	12/16/2009	Chemtech -SOP
2/22/2009 6:55:00 PM	Solid	A5550-14	Percent Solids	Cool	Conti Environment	D21	OCC-C44-PEN-3-4-M	12/16/2009	Chemtech -SOP
2/22/2009 6:55:00 PM	Solid	A5550-15	Percent Solids	Cool	Conti Environment	D21	A5550-14MS	12/16/2009	Chemtech -SOP
2/22/2009 6:55:00 PM	Solid	A5550-16	Percent Solids	Cool	Conti Environment	D21	A5550-14MSD	12/16/2009	Chemtech -SOP
2/22/2009 6:55:00 PM	Solid	A5550-17	Percent Solids	Cool	Conti Environment	D21	IOCC-C53-PEN-0-1-N	12/16/2009	Chemtech -SOP
2/22/2009 6:55:00 PM	Solid	A5550-18	Percent Solids	Cool	Conti Environment	D21	IOCC-C53-PEN-3-4-N	12/16/2009	Chemtech -SOP
2/22/2009 6:55:00 PM	Solid	A5550-19	Percent Solids	Cool	Conti Environment	D21	IOCC-C59-PEN-0-1-N	12/16/2009	Chemtech -SOP
2/22/2009 6:55:00 PM	Solid	A5550-20	Percent Solids	Cool	Conti Environment	D21	IOCC-C59-PEN-3-4-N	12/16/2009	Chemtech -SOP
2/22/2009 6:55:00 PM	Solid	A5550-21	Percent Solids	Cool	Conti Environment	D21	-DUP09-PEN-12160	912/16/2009	Chemtech -SOP
2/22/2009 6:55:00 PM	Solid	A5550-22	Percent Solids	Cool	Conti Environment	D21	-DUP10-PEN-12160	912/16/2009	Chemtech -SOP
2/22/2009 6:55:00 PM	Solid	A5550-23	Percent Solids	Cool	Conti Environment	D21	-DUP11-PEN-12160	912/16/2009	Chemtech -SOP
2/18/2009 4:30:00 PM	Solid	A5551-01	Percent Solids	Cool	Portal Partners Tri-	D42	KBM-SD04-S1	12/15/2009	Chemtech -SOP
2/18/2009 4:30:00 PM	Solid	A5551-02	Percent Solids	Cool	Portal Partners Tri-	D42	KBM-SD07-S1	12/15/2009	Chemtech -SOP
2/18/2009 4:30:00 PM	Solid	A5551-03	Percent Solids	Cool	Portal Partners Tri-	D42	KBM-SD08-S1	12/15/2009	Chemtech -SOP
2/18/2009 4:30:00 PM	Solid	A5551-04	Percent Solids	Cool	Portal Partners Tri-	D42	KBM-SD09-S1	12/15/2009	Chemtech -SOP
2/18/2009 4:30:00 PM	Solid	A5551-05	Percent Solids	Cool	Portal Partners Tri-	D42	KBM-SD12-S1	12/15/2009	Chemtech -SOP
2/18/2009 4:30:00 PM	Solid	A5551-06	Percent Solids	Cool	Portal Partners Tri-	D42	KBM-SD11-S1	12/15/2009	Chemtech -SOP
2/18/2009 4:30:00 PM	Solid	A5551-07	Percent Solids	Cool	Portal Partners Tri-	D42	KBM-SD10-S1	12/15/2009	Chemtech -SOP
2/18/2009 4:30:00 PM	Solid	A5551-08	Percent Solids	Cool	Portal Partners Tri-	D42	KBM-SD15-S1	12/15/2009	Chemtech -SOP

Date/Time 12/16/09 13:00
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Received by: [illegible]
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WORKLIST(Hardcopy Internal Chain)

Worklist Name %1-12160 **Date:** 17-Dec-09 LB47816

Due Date	matrix	Sample	Test	Preservative	Customer	Storage location	Customer Sample	Collect Date	METHOD
2/18/2009 4:30:00 PM	Solid	A5551-09	Percent Solids	Cool	Portal Partners Tri-	D42	KBM-SD14-S1	12/15/2009	Chemtech -SOP
2/18/2009 5:05:00 PM	Solid	A5551-11	Percent Solids	Cool	Portal Partners Tri-	D42	ENV-51-S1(0-2)	12/15/2009	Chemtech -SOP
2/18/2009 5:05:00 PM	Solid	A5551-12	Percent Solids	Cool	Portal Partners Tri-	D42	ENV-51-S2(16-18)	12/15/2009	Chemtech -SOP
2/24/2009 9:40:00 AM	Solid	A5552-01	Percent Solids	Cool	Arcadis	D41	ARC-70(14.5-15.0)	12/14/2009	Chemtech -SOP
/24/2009 10:05:00 AM	Solid	A5552-02	Percent Solids	Cool	Arcadis	D41	ARC-68(14.5-15.0)	12/14/2009	Chemtech -SOP
/24/2009 11:45:00 AM	Solid	A5552-03	Percent Solids	Cool	Arcadis	D41	ARC-65(8.5-9.0)	12/14/2009	Chemtech -SOP
2/24/2009 1:15:00 PM	Solid	A5552-04	Percent Solids	Cool	Arcadis	D41	ARC-67(14.5-15.0)	12/14/2009	Chemtech -SOP
2/24/2009 2:05:00 PM	Solid	A5552-05	Percent Solids	Cool	Arcadis	D41	ARC-66(8.5-9.0)	12/14/2009	Chemtech -SOP
2/24/2009 2:50:00 PM	Solid	A5552-06	Percent Solids	Cool	Arcadis	D41	ARC-69(14.5-15.0)	12/14/2009	Chemtech -SOP
/25/2009 11:40:00 AM	Solid	A5554-05	Percent Solids	Cool	Sea Coast Environ	D22	IDW-S1	12/15/2009	Chemtech -SOP
2/18/2009 2:00:00 PM	Solid	A5563-05	Percent Solids	Cool	Chemtech Consulti	D31	SVOC-GPC-BLANK	12/8/2009	Chemtech -SOP
2/18/2009 2:00:00 PM	Solid	A5563-06	Percent Solids	Cool	Chemtech Consulti	D31	PEST-GPC-BLANK	12/8/2009	Chemtech -SOP
2/18/2009 2:00:00 PM	Solid	A5563-07	Percent Solids	Cool	Chemtech Consulti	D31	T-GPC-BLANKSPIKE	12/8/2009	Chemtech -SOP
2/18/2009 2:00:00 PM	Solid	A5563-08	Percent Solids	Cool	Chemtech Consulti	D31	PCB-GPC-BLANK	12/8/2009	Chemtech -SOP
2/18/2009 2:00:00 PM	Solid	A5563-09	Percent Solids	Cool	Chemtech Consulti	D31	B-GPC-BLANKSPIKE	12/8/2009	Chemtech -SOP
2/18/2009 2:00:00 PM	Solid	A5567-01	Percent Solids	Cool	Tectonic Engineeri	D22	AMROCK18-12-16-09	12/16/2009	Chemtech -SOP
2/18/2009 2:00:00 PM	Solid	A5567-02	Percent Solids	Cool	Tectonic Engineeri	D22	AMROCK19-12-16-09	12/16/2009	Chemtech -SOP
2/18/2009 2:00:00 PM	Solid	A5567-03	Percent Solids	Cool	Tectonic Engineeri	D22	AMROCK20-12-16-09	12/16/2009	Chemtech -SOP
2/18/2009 2:00:00 PM	Solid	A5567-04	Percent Solids	Cool	Tectonic Engineeri	D22	AMROCK21-12-16-09	12/16/2009	Chemtech -SOP
2/18/2009 2:00:00 PM	Solid	A5567-05	Percent Solids	Cool	Tectonic Engineeri	D22	AMROCK22-12-16-09	12/16/2009	Chemtech -SOP
12/25/2009	Solid	A5568-01	Percent Solids	Cool	E.E. Cruz	D21	B95CFA-1	12/15/2009	Chemtech -SOP

Date/Time 12/16/09 13:30
Received by: [illegible]
Relinquished by: [illegible]

Date/Time 12/16/09 20:30
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WORKLIST(Hardcopy Internal Chain)

Worklist Name %1-12160 Date: 17-Dec-09 LB47816

Due Date	matrix	Sample	Test	Preservative	Customer	Storage location	Customer Sample	Collect Date	METHOD
12/25/2009	Solid	A5568-03	Percent Solids	Cool	E.E. Cruz	D21	B95CFA-1	12/15/2009	Chemtech -SOP
25/2009 10:20:00 AM	Solid	A5571-03	Percent Solids	Cool	Arcadis	D61	ARC-78(14.5-15.0)	12/15/2009	Chemtech -SOP
25/2009 10:55:00 AM	Solid	A5571-04	Percent Solids	Cool	Arcadis	D61	ARC-79(14.5-15.0)	12/15/2009	Chemtech -SOP
25/2009 11:40:00 AM	Solid	A5571-05	Percent Solids	Cool	Arcadis	D61	ARC-96(14.5-15.0)	12/15/2009	Chemtech -SOP
/25/2009 1:15:00 PM	Solid	A5571-06	Percent Solids	Cool	Arcadis	D61	ARC-83(14.5-15.0)	12/15/2009	Chemtech -SOP
/25/2009 1:55:00 PM	Solid	A5571-07	Percent Solids	Cool	Arcadis	D61	ARC-80(14.5-15.0)	12/15/2009	Chemtech -SOP
/17/2009 1:55:00 PM	Solid	A5573-01	Percent Solids	Cool 4 deg C	Tully Construction	D42	CK-A73-A71-B73-B71	12/16/2009	Chemtech -SOP
/23/2009 1:55:00 PM	Solid	A5573-03	Percent Solids	Cool	Tully Construction	D42	CK-A73-A71-B73-B71	12/16/2009	Chemtech -SOP
/17/2009 1:55:00 PM	Solid	A5574-01	Percent Solids	Cool 4 deg C	Tully Construction	D52	CK-A64-A62-B64-B62	12/16/2009	Chemtech -SOP
/23/2009 1:55:00 PM	Solid	A5574-03	Percent Solids	Cool	Tully Construction	D52	CK-A64-A62-B64-B62	12/16/2009	Chemtech -SOP
/17/2009 1:55:00 PM	Solid	A5575-01	Percent Solids	Cool 4 deg C	Tully Construction	D52	CK-C71-C72-C73-C74	12/15/2009	Chemtech -SOP
/23/2009 1:55:00 PM	Solid	A5575-03	Percent Solids	Cool	Tully Construction	D52	CK-C71-C72-C73-C74	12/15/2009	Chemtech -SOP
/17/2009 1:55:00 PM	Solid	A5576-01	Percent Solids	Cool 4 deg C	Tully Construction	D52	CK-B52-B54-B61-B63	12/15/2009	Chemtech -SOP
/23/2009 1:55:00 PM	Solid	A5576-03	Percent Solids	Cool	Tully Construction	D52	CK-B52-B54-B61-B63	12/15/2009	Chemtech -SOP
/23/2009 1:55:00 PM	Solid	A5577-01	Percent Solids	Cool	Tully Construction	D52	FK-BPM-BUCK-B52	12/15/2009	Chemtech -SOP
/23/2009 1:55:00 PM	Solid	A5577-02	Percent Solids	Cool	Tully Construction	D52	FK-BPM-BUCK-B54	12/15/2009	Chemtech -SOP
/23/2009 1:55:00 PM	Solid	A5577-03	Percent Solids	Cool	Tully Construction	D52	FK-BPM-BUCK-B61	12/15/2009	Chemtech -SOP
/23/2009 1:55:00 PM	Solid	A5577-04	Percent Solids	Cool	Tully Construction	D52	FK-BPM-BUCK-B63	12/15/2009	Chemtech -SOP
/23/2009 1:55:00 PM	Solid	A5578-01	Percent Solids	Cool	Tully Construction	D51	FK-BPM-BUCK-C71	12/15/2009	Chemtech -SOP
/23/2009 1:55:00 PM	Solid	A5578-02	Percent Solids	Cool	Tully Construction	D51	FK-BPM-BUCK-C72	12/15/2009	Chemtech -SOP
/23/2009 1:55:00 PM	Solid	A5578-03	Percent Solids	Cool	Tully Construction	D51	FK-BPM-BUCK-C73	12/15/2009	Chemtech -SOP
/23/2009 1:55:00 PM	Solid	A5578-04	Percent Solids	Cool	Tully Construction	D51	FK-BPM-BUCK-C74	12/15/2009	Chemtech -SOP

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Date/Time 12/16/09 20:30
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WORKLIST (Hardcopy Internal Chain)

Worklist Name %1-12160 Date: 17-Dec-09 LB47816

Due Date	matrix	Sample	Test	Preservative	Customer	Storage location	Customer Sample	Collect Date	METHOD
2/23/2009 1:55:00 PM	Solid	A5579-01	Percent Solids	Cool	Tully Construction	D52	FK-BPM-BUCK-A6412/16/2009	Chemtech	-SOP
2/23/2009 1:55:00 PM	Solid	A5579-02	Percent Solids	Cool	Tully Construction	D52	FK-BPM-BUCK-A6212/16/2009	Chemtech	-SOP
2/23/2009 1:55:00 PM	Solid	A5579-03	Percent Solids	Cool	Tully Construction	D52	FK-BPM-BUCK-B6412/16/2009	Chemtech	-SOP
2/23/2009 1:55:00 PM	Solid	A5579-04	Percent Solids	Cool	Tully Construction	D52	FK-BPM-BUCK-B6212/16/2009	Chemtech	-SOP
2/23/2009 1:55:00 PM	Solid	A5580-01	Percent Solids	Cool	Tully Construction	D52	FK-BPM-BUCK-A7312/16/2009	Chemtech	-SOP
2/23/2009 1:55:00 PM	Solid	A5580-02	Percent Solids	Cool	Tully Construction	D52	FK-BPM-BUCK-A7112/16/2009	Chemtech	-SOP
2/23/2009 1:55:00 PM	Solid	A5580-03	Percent Solids	Cool	Tully Construction	D52	FK-BPM-BUCK-B7312/16/2009	Chemtech	-SOP
2/23/2009 1:55:00 PM	Solid	A5580-04	Percent Solids	Cool	Tully Construction	D52	FK-BPM-BUCK-B7112/16/2009	Chemtech	-SOP
2/21/2009 5:35:00 PM	Solid	A5581-01	Percent Solids	Cool 4 deg C	Portal Partners Tri-	D62	KBD-SD17-S112/16/2009	Chemtech	-SOP
2/21/2009 5:35:00 PM	Solid	A5581-02	Percent Solids	Cool 4 deg C	Portal Partners Tri-	D62	KBD-SD18-S112/16/2009	Chemtech	-SOP
2/21/2009 5:35:00 PM	Solid	A5581-03	Percent Solids	Cool 4 deg C	Portal Partners Tri-	D62	KBD-SD19-S112/16/2009	Chemtech	-SOP
2/21/2009 5:35:00 PM	Solid	A5581-04	Percent Solids	Cool 4 deg C	Portal Partners Tri-	D62	KBD-SD16-S112/16/2009	Chemtech	-SOP
2/21/2009 5:35:00 PM	Solid	A5581-05	Percent Solids	Cool 4 deg C	Portal Partners Tri-	D62	A5581-04MS12/16/2009	Chemtech	-SOP
2/21/2009 5:35:00 PM	Solid	A5581-06	Percent Solids	Cool 4 deg C	Portal Partners Tri-	D62	A5581-04MSD12/16/2009	Chemtech	-SOP
2/21/2009 5:35:00 PM	Solid	A5581-07	Percent Solids	Cool 4 deg C	Portal Partners Tri-	D62	KBD-SD20-S112/16/2009	Chemtech	-SOP
2/21/2009 5:35:00 PM	Solid	A5581-08	Percent Solids	Cool 4 deg C	Portal Partners Tri-	D62	KBD-SD21-S112/16/2009	Chemtech	-SOP
2/21/2009 5:35:00 PM	Solid	A5581-09	Percent Solids	Cool 4 deg C	Portal Partners Tri-	D62	KBD-SD13-S112/16/2009	Chemtech	-SOP
2/21/2009 5:35:00 PM	Solid	A5581-11	Percent Solids	Cool 4 deg C	Portal Partners Tri-	D62	ENV-40-S1(0-2)12/16/2009	Chemtech	-SOP
2/23/2009 8:20:00 PM	Solid	A5582-01	Percent Solids	Cool	Conti Environment	D61	IOCC-C27-PEN-0-1-N12/16/2009	Chemtech	-SOP
2/23/2009 8:20:00 PM	Solid	A5582-02	Percent Solids	Cool	Conti Environment	D61	IOCC-C27-PEN-3-4-N12/16/2009	Chemtech	-SOP
2/23/2009 8:20:00 PM	Solid	A5582-03	Percent Solids	Cool	Conti Environment	D61	IOCC-C28-PEN-0-1-N12/16/2009	Chemtech	-SOP
2/23/2009 8:20:00 PM	Solid	A5582-04	Percent Solids	Cool	Conti Environment	D61	IOCC-C28-PEN-3-4-N12/16/2009	Chemtech	-SOP

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WORKLIST(Hardcopy Internal Chain)

Worklist Name %1-12160

Date: 17-Dec-09 LB47816

Due Date	matrix	Sample	Test	Preservative	Customer	Storage location	Customer Sample	Collect Date	METHOD
2/23/2009 8:20:00 PM	Solid	A5582-05	Percent Solids	Cool	Conti Environment	D61	IOCC-C29-PEN-0-1-N12/16/2009		Chemtech -SOP
2/23/2009 8:20:00 PM	Solid	A5582-06	Percent Solids	Cool	Conti Environment	D61	IOCC-C29-PEN-3-4-N12/16/2009		Chemtech -SOP
2/23/2009 8:20:00 PM	Solid	A5582-07	Percent Solids	Cool	Conti Environment	D61	IOCC-C30-PEN-0-1-N12/16/2009		Chemtech -SOP
2/23/2009 8:20:00 PM	Solid	A5582-08	Percent Solids	Cool	Conti Environment	D61	IOCC-C30-PEN-3-4-N12/16/2009		Chemtech -SOP
2/23/2009 8:20:00 PM	Solid	A5582-09	Percent Solids	Cool	Conti Environment	D61	IOCC-C31-PEN-0-1-N12/16/2009		Chemtech -SOP
2/23/2009 8:20:00 PM	Solid	A5582-10	Percent Solids	Cool	Conti Environment	D61	IOCC-C31-PEN-3-4-N12/16/2009		Chemtech -SOP
2/23/2009 8:20:00 PM	Solid	A5582-11	Percent Solids	Cool	Conti Environment	D61	IOCC-C22-PEN-0-1-N12/16/2009		Chemtech -SOP
2/23/2009 8:20:00 PM	Solid	A5582-12	Percent Solids	Cool	Conti Environment	D61	IOCC-C22-PEN-3-4-N12/16/2009		Chemtech -SOP
2/23/2009 8:20:00 PM	Solid	A5582-13	Percent Solids	Cool	Conti Environment	D61	IOCC-C23-PEN-0-1-N12/16/2009		Chemtech -SOP
2/23/2009 8:20:00 PM	Solid	A5582-14	Percent Solids	Cool	Conti Environment	D61	IOCC-C23-PEN-3-4-N12/16/2009		Chemtech -SOP
2/23/2009 8:20:00 PM	Solid	A5582-15	Percent Solids	Cool	Conti Environment	D61	IOCC-C24-PEN-0-1-N12/16/2009		Chemtech -SOP
2/23/2009 8:20:00 PM	Solid	A5582-16	Percent Solids	Cool	Conti Environment	D61	IOCC-C24-PEN-3-4-N12/16/2009		Chemtech -SOP
2/23/2009 8:20:00 PM	Solid	A5582-17	Percent Solids	Cool	Conti Environment	D61	IOCC-C25-PEN-0-1-N12/16/2009		Chemtech -SOP
2/23/2009 8:20:00 PM	Solid	A5582-18	Percent Solids	Cool	Conti Environment	D61	IOCC-C25-PEN-3-4-N12/16/2009		Chemtech -SOP
2/23/2009 8:20:00 PM	Solid	A5582-19	Percent Solids	Cool	Conti Environment	D61	IOCC-C26-PEN-0-1-N12/16/2009		Chemtech -SOP
2/23/2009 8:20:00 PM	Solid	A5582-20	Percent Solids	Cool	Conti Environment	D61	IOCC-C26-PEN-3-4-N12/16/2009		Chemtech -SOP

Date/Time 12/16/09 13:00
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Date/Time 12/16/09 20:30
Received by:
Relinquished by:

Chemtech

Analytical Review Report

Date Printed : 12/18/09
Analyst : MBS
Data File : LB47822.MDB

Approved By :
Approved Date :
Worksheet # :

Lab Sample ID / Parameter	Client ID		Raw Amt PPB	Dil / Final Conc	Matrix	A. Date / %Rec	Prep Method / LCL	Analysis Method / UCL	RPD	Max RPD	Units	Line 1 / Line 2
Hexavalent Chromium												
CAL	CAL				W	12/17/09						
Hexavalent Chrom		PASS	0.000	0.000							mg/L	
CAL	CAL				W	12/17/09						
Hexavalent Chrom		PASS	0.005	0.005							mg/L	
CAL	CAL				W	12/17/09						
Hexavalent Chrom		PASS	0.039	0.039							mg/L	
CAL	CAL				W	12/17/09						
Hexavalent Chrom		PASS	0.080	0.080							mg/L	
CAL	CAL				W	12/17/09						
Hexavalent Chrom		PASS	0.241	0.241							mg/L	
CAL	CAL				W	12/17/09						
Hexavalent Chrom		PASS	0.395	0.395							mg/L	
CAL	CAL				W	12/17/09						
Hexavalent Chrom		PASS	0.763	0.763							mg/L	
ICV1	ICV1				W	12/17/09						
Hexavalent Chrom		PASS	0.510	0.51		102.0	90	110			mg/L	
ICB1	ICB1				W	12/17/09						
Hexavalent Chrom		PASS	0.000	0.00				+/-0.0100			mg/L	
CCV1	CCV1				W	12/17/09						
Hexavalent Chrom		PASS	0.500	0.50		100.0	90	110			mg/L	
CCB1	CCB1				W	12/17/09						
Hexavalent Chrom		PASS	0.000	0.00				+/-0.0100			mg/L	
MBS	MBS			1	S	12/17/09						
Hexavalent Chrom		PASS	0.000	0.0							mg/Kg	
LCSS	LCSS				S	12/17/09						
Hexavalent Chrom		PASS	20.610	20.60		103.0	80.00	120.00			mg/Kg	
LCSSD	LCSSD				S	12/17/09						
Hexavalent Chrom		PASS	20.610	20.60		103.0	80.00	120.00			mg/Kg	
A5567-01	SHAMROCK18-12-16-09			1	S	12/17/09						
Hexavalent Chrom		PASS	0.010	0.010							mg/Kg	
A5567-01D	SHAMROCK18-12-16-09D				S	12/17/09						
Hexavalent Chrom		PASS	0.010	0.01					0	20	mg/Kg	
A5567-01S	SHAMROCK18-12-16-09S			2	S	12/17/09						
Hexavalent Chrom		PASS	20.300	40.6		101.5	75	125			mg/Kg	
A5567-01S	SHAMROCK18-12-16-09S			20	S	12/17/09						
Hexavalent Chrom		PASS	21.080	422.0		105.5	75	125			mg/Kg	
A5567-01S	SHAMROCK18-12-16-09S			2	S	12/17/09						
Hexavalent Chrom		PASS	20.250	40.5		101.3	75	125			mg/Kg	
A5567-02	SHAMROCK19-12-16-09			1	S	12/17/09						
Hexavalent Chrom		PASS	-0.160	-0.160							mg/Kg	

Chemtech

Analytical Review Report

Date Printed : 12/18/09
Analyst : MBS
Data File : LB47822.MDB

Approved By :
Approved Date : 12/21/09
Worksheet # :

Lab Sample ID / Parameter	Client ID	Raw Amt PPB	Dil / Final Conc	Matrix	A. Date / %Rec	Prep Method / LCL	Analysis Method / UCL	RPD	Max RPD	Units	Line 1 / Line 2
Hexavalent Chromium											
A5567-03	**SHAMROCK20-12-16-09**		1	S	12/17/09						
Hexavalent Chrom		PASS	-0.110	-0.110						mg/Kg	
CCV2	**CCV2**			W	12/17/09						
Hexavalent Chrom		PASS	0.510	0.51	102.0	90	110			mg/L	
CCB2	**CCB2**			W	12/17/09						
Hexavalent Chrom		PASS	0.000	0.00			+/-0.0100			mg/L	
A5567-04	**SHAMROCK21-12-16-09**		1	S	12/17/09						
Hexavalent Chrom		PASS	-0.120	-0.120						mg/Kg	
A5567-05	**SHAMROCK22-12-16-09**		1	S	12/17/09						
Hexavalent Chrom		PASS	-0.110	-0.110						mg/Kg	
A5568-01	**B95CFA-1**		1	S	12/17/09						
Hexavalent Chrom		PASS	-0.120	-0.120						mg/Kg	
A5573-01	**FK-BPM-BUCK-A73-A71-B73-**		1	S	12/17/09						
Hexavalent Chrom		PASS	0.120	0.120						mg/Kg	
A5574-01	**FK-BPM-BUCK-A64-A62-B64-**		1	S	12/17/09						
Hexavalent Chrom		PASS	0.120	0.120						mg/Kg	
A5575-01	**FK-BPM-BUCK-C71-C72-C73**		1	S	12/17/09						
Hexavalent Chrom		PASS	0.120	0.120						mg/Kg	
A5576-01	**FK-BPM-BUCK-B52-B54-B61-**		1	S	12/17/09						
Hexavalent Chrom		PASS	0.120	0.120						mg/Kg	
A5586-01	**AH-B5-SS-08**		1	S	12/17/09						
Hexavalent Chrom		PASS	-0.150	-0.150						mg/Kg	
A5586-02	**AH-B5-SS-12**		1	S	12/17/09						
Hexavalent Chrom		PASS	0.110	0.110						mg/Kg	
A5586-03	**AH-B5-SS-14**		1	S	12/17/09						
Hexavalent Chrom		PASS	0.010	0.010						mg/Kg	
CCV3	**CCV3**			W	12/17/09						
Hexavalent Chrom		PASS	0.510	0.51	102.0	90	110			mg/L	
CCB3	**CCB3**			W	12/17/09						
Hexavalent Chrom		PASS	0.000	0.00			+/-0.0100			mg/L	
A5586-04	**AH-B5-SS-15**		1	S	12/17/09						
Hexavalent Chrom		PASS	0.420	0.420						mg/Kg	
A5586-05	**AH-B5-SS-16**		1	S	12/17/09						
Hexavalent Chrom		PASS	7.880	7.880						mg/Kg	
A5586-06	**AH-B5-SS-30**		1	S	12/17/09						
Hexavalent Chrom		PASS	-0.150	-0.150						mg/Kg	
CCV4	**CCV4**			W	12/17/09						
Hexavalent Chrom		PASS	0.510	0.51	102.0	90	110			mg/L	
CCB4	**CCB4**			W	12/17/09						
Hexavalent Chrom		PASS	0.000	0.00			+/-0.0100			mg/L	

Chemtech Consulting Group

Analytical Summary Report

Analysis Method: 7196 Hexavalent Chromium
Parameter: Hexavalent Chromium
Run Number: LB47822
Instrument: Hach 2010
Analyst: MBS
Supervisor Review:

Intercept (x): 0.0029
Slope (b): 0.7668
Regression (r): 0.9998

Reagent/Standard	Lot/Log Number

MBS 12/21/09

Seq	Lab ID	Sample Type	DF	Initial Vol (ml/gm)	Final Vol (ml/gm)	Absorbance at 540 nm	Result	QC Batch	Analytical Date	Time/Seq
1	CAL	CAL	1	~~1.00~~	100 1.00	0.000	0.00		12/17/09	001
2	CAL	CAL	1	1.00	1.00	0.005	0.00		12/17/09	002
3	CAL	CAL	1	1.00	1.00	0.039	0.04		12/17/09	003
4	CAL	CAL	1	1.00	1.00	0.080	0.08		12/17/09	004
5	CAL	CAL	1	1.00	1.00	0.241	0.24		12/17/09	005
6	CAL	CAL	1	1.00	1.00	0.395	0.40		12/17/09	006
7	CAL	CAL	1	1.00	1.00	0.763	0.76		12/17/09	007
8	ICV	ICV	1	1.00	1.00	0.392	0.51		12/17/09	008
9	ICB	ICB	1	1.00	1.00	0.000	0.00		12/17/09	009
10	CCV	CCV	1	1.00	1.00	0.390	0.50		12/17/09	010
11	CCB	CCB	1	~~1.00~~	100 ~~1.00~~	0.000	0.00		12/17/09	011
12	MBS	MB	1	2.50	100.00	0.000	0.00		12/17/09	012
13	LCSS	LCS	1	2.50	100.00	0.398	20.61		12/17/09	013
14	LCSSD	LCSD	1	2.50	100.00	0.398	20.61		12/17/09	014
15	A5567-01	SAM	1	2.50	100.00	0.003	0.01		12/17/09	015
16	A5567-01D	DUP	1	2.50	100.00	0.003	0.01		12/17/09	016
17	A5567-01S	MS	2	2.50	100.00	0.392	40.59		12/17/09	017
18	A5567-01S	MS	20	2.50	100.00	0.407	421.60		12/17/09	018
19	A5567-01S	MS	2	2.50	100.00	0.391	40.49		12/17/09	019
20	A5567-02	SAM	1	2.50	100.00	0.000	-0.16		12/17/09	020
21	A5567-03	SAM	1	2.50	100.00	0.001	-0.11		12/17/09	021
22	CCV	CCV	1	~~1.00~~	100 ~~1.00~~	0.396	0.51		12/17/09	022
23	CCB	CCB	1	~~1.00~~	100 ~~1.00~~	0.000	0.00		12/17/09	023
24	A5567-04	SAM	1	2.50	100.00	0.001	-0.12		12/17/09	024
25	A5567-05	SAM	1	2.50	100.00	0.001	-0.11		12/17/09	025
26	A5568-01	SAM	1	2.50	100.00	0.001	-0.12		12/17/09	026
27	A5573-01	SAM	1	2.50	100.00	0.005	0.12		12/17/09	027
28	A5574-01	SAM	1	2.50	100.00	0.005	0.12		12/17/09	028
29	A5575-01	SAM	1	2.50	100.00	0.005	0.12		12/17/09	029
30	A5576-01	SAM	1	2.50	100.00	0.005	0.12		12/17/09	030
31	A5586-01	SAM	1	2.50	100.00	0.000	-0.15		12/17/09	031
32	A5586-02	SAM	1	2.50	100.00	0.005	0.11		12/17/09	032
33	A5586-03	SAM	1	2.50	100.00	0.003	0.01		12/17/09	033
34	CCV	CCV	1	~~1.00~~	100 ~~1.00~~	0.391	0.51		12/17/09	034
35	CCB	CCB	1	~~1.00~~	100 ~~1.00~~	0.000	0.00		12/17/09	035
36	A5586-04	SAM	1	2.50	100.00	0.011	0.42		12/17/09	036

MBS 12/21/09

Chemtech Consulting Group

Analytical Summary Report

Analysis Method: 7196 Hexavalent Chromium
Parameter: Hexavalent Chromium
Run Number: LB47822
Instrument: Hach 2010
Analyst: MBS

Supervisor Review:

Intercept (x): 0.0029
Slope (b): 0.7668
Regression (r): 0.9998

Reagent/Standard	Lot/Log Number

MBS 12/21/09

Seq	Lab ID	Sample Type	DF	Initial Vol (ml/gm)	Final Vol (ml/gm)	Absorbance at 540 nm	Result	QC Batch	Analytical Date	Time/Seq
37	A5586-05	SAM	1	2.50	100.00	0.154	7.88		12/17/09	037
38	A5586-06	SAM	1	2.50	100.00	0.000	-0.15		12/17/09	038
39	CCV	CCV	1	1.00	1.00	0.394	0.51		12/17/09	039
40	CCB	CCB	1	1.00	1.00	0.000	0.00		12/17/09	040

MBS 12/21/09

MBS 12/21/09

Chemtech Consulting Group

Analytical Summary Report

Analysis Method: 7196 Hexavalent Chromium
Parameter: Hexavalent Chromium
Run Number: LB47822
Instrument: Hach 2010

ANALYST: Muhammad Saeed / SIS
SUPERVISOR REVIEW WA
Digestion Date: 12/17/09
Analysis Date: 12/18/09

Reagent/Standard	Lot/Log #	Prep. Date	Exp. Date
Cr+6 Intermediate Std. (5ppm) S1	W028723	12/17/09	12/17/09
Cr+6 Intermediate Std. (5ppm) S2	W028724		
Cr+6 ICV Std. / LCS	W028725-6		
Cr+6 Working / CCV / LCS Std.	W028727-34		
Cr+6 Color Reagent	W028735	12/17/09	12/17/09
Sand for Blank	WC1267	5/18/09	5/17/19
H2SO4 (5N) Sulfuric Acid 10%	W027471	11/12/09	5/11/10
HNO3 (5N) Nitric Acid 10%	MR1972	6/9/09	6/8/19

Reagent/Standard	Lot/Log #	Prep. Date	Exp. Date
Digestion Solution	W028736	12/17/09	12/17/09
Phosphate Buffer	W023954	7/7/09	1/6/10
Lead Chromate	WC1065	2/13/07	2/12/17
MgCl2	WC1248	11/4/09	11/3/19

Balance # Metal

Calibration Check:
5 g = 5.00 (g), 100 g = 100.00 (g)

Seq	Lab ID	Sample Type	DF	Initial Vol (ml/gm)	Final Vol (ml)	Absorbance Backgrnd	Absorbance Color	Difference	pH HNO3	pH H2SO4	Dig. Start Time	Dig. End Time
1	CAL	CAL		100ml	100	0.000	0.000	0.000	N/A	2.04	N/A	N/A
2	CAL	CAL			100	0.000	0.005	0.005		2.04		
3	CAL	CAL			100	0.000	0.039	0.039		2.04		
4	CAL	CAL			100	0.000	0.050	0.050		2.00		
5	CAL	CAL			100	0.000	0.241	0.241		2.01		
6	CAL	CAL			100	0.000	0.395	0.395		2.05		
7	CAL	CAL			100	0.000	0.763	0.763		2.00		
8	ICV	ICV			100	0.000	0.392	0.392		2.03		
9	ICB	ICB			100	0.000	0.000	0.000		1.95		
10	CCV	CCV			100	0.000	0.390	0.390		2.04		
11	CCB	CCB		100ml	100	0.000	0.000	0.000	N/A	1.98	N/A	N/A
12	MBS	MB		2.50 gm	100	0.000	0.000	0.000	7.52	2.00	15:10	16:11
13	LCSS	LCS		2.51	100	0.000	0.398	0.398	7.00	2.04		
14	LCSSD	LCSD		2.50	100	0.001	0.399	0.398	7.08	1.97		
15	A5567-01	SAM		2.51	100	0.010	0.013	0.003	7.50	2.02		
16	A5567-01D	DUP		2.49	100	0.010	0.013	0.003	7.59	1.96		
17	A5567-01S Pre	MS	2	2.50	100	0.008	0.400	0.392	7.48	2.00		
18	A5567-01S Im	MS	20	2.51	100	0.003	0.410	0.407	7.41	1.98		
19	A5567-01S Pst	MS	2	2.50	100	0.008	0.399	0.391	7.43	2.05		
20	A5567-02	SAM		2.49	100	0.008	0.008	0.000	7.51	2.04		
21	A5567-03	SAM		2.51 gm	100	0.003	0.004	0.001	7.58	1.99	15:10	16:11
22	CCV	CCV		100ml	100	0.000	0.396	0.396	N/A	1.99	N/A	N/A
23	CCB	CCB		100 ml	100	0.000	0.000	0.000	N/A	2.01	N/A	N/A
24	A5567-04	SAM		2.51 gm	100	0.005	0.006	0.001	7.00	1.95	15:10	16:11
25	A5567-05	SAM		2.50	100	0.001	0.002	0.001	7.80	2.04		
26	A5568-01	SAM		2.51	100	0.024	0.025	0.001	7.80	2.01		
27	A5573-01	SAM		2.49	100	0.029	0.034	0.005	7.41	2.04		
28	A5574-01	SAM		2.49	100	0.021	0.026	0.005	7.49	2.02		
29	A5575-01	SAM		2.50	100	0.029	0.034	0.005	7.34	1.97	15:10	16:11
30	A5576-01	SAM		2.51	100	0.021	0.026	0.005	7.33	2.03	16:25	17:25
31	A5586-01	SAM		2.50	100	0.126	0.126	0.000	7.41	2.04		
32	A5586-02	SAM		2.51	100	0.038	0.043	0.005	7.44	2.05		
33	A5586-03	SAM		2.50 gm	100	0.030	0.033	0.003	7.47	2.00	16:25	17:25
34	CCV	CCV		100ml	100	0.000	0.391	0.391	N/A	2.04	N/A	N/A

Chemtech Consulting Group

Analytical Summary Report

Analysis Method: 7196 Hexavalent Chromium
Parameter: Hexavalent Chromium
Run Number: LB47822
Instrument: Hach 2010

ANALYST: Muhammad Saeed / SVS
SUPERVISOR REVIEW
Digestion Date: 12/17/09
Analysis Date: 12/18/09

Reagent/Standard	Lot/Log #	Prep. Date	Exp. Date
Cr+6 Intermediate Std. (5ppm) S1			
Cr+6 Intermediate Std. (5ppm) S2			
Cr+6 ICV Std.			
Cr+6 Working / CCV / LCS Std.			
Cr+6 Color Reagent			
Sand for Blank			
H2SO4 (5N) Sulfuric Acid			
HNO3 (5N) Nitric Acid			

Reagent/Standard	Lot/Log #	Prep. Date	Exp. Date
Digestion Solution			
Phosphate Buffer			
Lead Chromate			
MgCl2			

Balance # _____

Calibration Check:
_____g = _____ (g), _____g = _____ (g)

MBS 12/17/09

Seq	Lab ID	Sample Type	DF	Initial Vol (ml/gm)	Final Vol (ml)	Absorbance Backgrnd	Absorbance Color	Difference	pH HNO3	pH H2SO4	Dig. Start Time	Dig. End Time
35	CCB	CCB		100 ml	100	0.000	0.000	0.000	N/A	2.00	N/A	N/A
36	A5586-04	SAM		2.50 gm	100	0.065	0.076	0.011	7.55	2.01	16:25	17:25
37	A5586-05	SAM		2.49 ↓	100	0.048	0.202	0.154	7.50	2.05	↓	↓
38	A5586-06	SAM		2.50 gm	100	0.039	0.039	0.000	7.51	1.96	16:25	17:25
39	CCV	CCV		100 ml	100	0.000	0.394	0.394	NA	1.99	N/A	N/A
40	CCB	CCB		100 ml	100	0.000	0.000	0.000	N/A	2.00	N/A	N/A

True value of ICV = CCV = 0.5 mg/L
True value of LCSS = LCSSD = 0.5 mg/kg
True value pre & post-digestion = 40 mg/kg
True value Insoluble Spike = 400 mg/kg

Hot Plate #1 Temp.= 90.8 °C [90°C-95°C]
Hot Plate #2 Temp.= 93.0 °C [90°C-95°C]

2 OF 2

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092 Tel 908-789-8900

General Chemistry
Standard Preparation Log

Name	NO.	Prep date	Expiration Date	SIGNATURE
Cr+6 STOCK STD 1	W028687	12-16-09	06-15-10	SIS

FROM 141.4 mg OF WC0758 & MAKE UP TO 1 LITER WITH DI WATER.

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr+6 STOCK STD 2	W028688	12-16-09	06-15-10	SIS

FROM 141.4 mg OF WC0967 & MAKE UP TO 1 LITER WITH DI WATER.

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
TOC 100 ppm I	W025689	12-16-09	12-16-09	[illegible]

FROM 5 ml of source I. (W027041) 4000 ppm to 200 ml with DI water

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
TOC CCV	W028690	12-16-09	12-16-09	[illegible]

FROM 25 ml of 100 ppm I (W028689) to 250 ml with DI water

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092 Tel 908-789-8900

General Chemistry
Standard Preparation Log

Name	NO.	Prep date	Expiration Date	SIGNATURE
Cr+6 INTERMEDIATE Std. (S1)	W028723	12/17/09	12/17/09	SIS

FROM 5PPM :-
10ml of the W028687 & MAKE UPTO 100ml DI WATER

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr+6 Intermediate Std (S2) 5PPM	W028724	12/17/09	12/17/09	SIS

FROM 10ml of W028688 & MAKE UPTO 100ml DI WATER

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr+6 ICV Std. 0.5 PPM	W028725	12/17/09	12/17/09	SIS

FROM 10 ml of W028723 → 100 ml of DI WATER

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr+6 LCS Std. 0.5 PPM	W028726	12/17/09	12/17/09	SIS

FROM 10ml of W028723 → 100 ml of DI WATER

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092 Tel 908-789-8900

General Chemistry

Standard Preparation Log

Name	NO.	Prep date	Expiration Date	SIGNATURE
Cr+6 CCV Std. 0.5 PPM	W028727	12/17/09	12/17/09	SIS

FROM 10 ml of W028724 → 100ml with DI water.

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr+6 WORKING Std. 1.0 PPM	W028728	12/17/09	12/17/09	SIS

FROM 20 ml of W028724 → 100 ml DI WATER.

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr+6 WORKING Std. 0.5 PPM	W028729	12/17/09	12/17/09	SIS

FROM 10ml of W028724 → 100ml DI WATER

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr+6 working Std 0.3 PPM	W028730	12/17/09	12/17/09	SIS

FROM 6 ml of W028724 → 100ml DI WATER

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General Chemistry
Standard Preparation Log

Name	NO.	Prep date	Expiration Date	SIGNATURE
Cr^{+6} working std. 0.1 PPM	W028731	12/17/09	12/17/09	SIS

FROM 2ml of W028724 → 100 ml DI WATER

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr^{+6} working std. 0.05 PPM	W028732	12/17/09	12/17/09	SIS

FROM 1ml of W028724 → 100 ml DI WATER

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr^{+6} working std 0.01 PPM	W028733	12/17/09	12/17/09	SIS

FROM 0.2 ml of W028724 → 100ml DI water.

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
~~Cr+6~~ Cr^{+6} WORKING STD 0 PPM	W028734	12/17/09	12/17/09	SIS

FROM 100ml DI WATER.

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092 Tel 908-789-8900

General Chemistry
Standard Preparation Log

Name	NO.	Prep date	Expiration Date	SIGNATURE
Cr+6 COLOR REAGENT	W028735	12/17/09	12/17/09	SIS

FROM 0.5g WC0366 → 200ml ER1594

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr+6 DIGESTION SOLUTION	W028736	12/17/09	6/16/10	SIS

FROM 600g of Na_2CO_3 # WC1253 + 400g of NaOH # WC1233 AND MAKE FINAL VOLUME OF 20L DI WATER.

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
REACTIVE CYANIDE LCSS/LCSSD.	W028737	12/17/09	12/17/09	SIS

FROM 1.25 ml of W026875 → 5g sample/kg.

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
REACTIVE CYANIDE ~~LCSSD~~ 12/17/09 SIS LCSW/LCSD	W028738	12/17/09	12/17/09	SIS

FROM 1.25 ml of W026875 → 50ml sample

64

Chemtech

Analytical Review Report

Date Printed : 12/24/09
Analyst : SUNIL
Data File : LB47899.MDB

Approved By : [illegible]
Approved Date : 12-28-09
Worksheet # :

Lab Sample ID / Parameter	Client ID		Raw Amt PPB	Dil / Final Conc	Matrix	A. Date / %Rec	Prep Method / LCL	Analysis Method / UCL	RPD	Max RPD	Units	Line 1 / Line 2
Hexavalent Chromium												
CAL	CAL				W	12/23/09						
Hexavalent Chrom		PASS	0.000	0.000							mg/L	
CAL	CAL				W	12/23/09						
Hexavalent Chrom		PASS	0.005	0.005							mg/L	
CAL	CAL				W	12/23/09						
Hexavalent Chrom		PASS	0.040	0.040							mg/L	
CAL	CAL				W	12/23/09						
Hexavalent Chrom		PASS	0.079	0.079							mg/L	
CAL	CAL				W	12/23/09						
Hexavalent Chrom		PASS	0.240	0.240							mg/L	
CAL	CAL				W	12/23/09						
Hexavalent Chrom		PASS	0.396	0.396							mg/L	
CAL	CAL				W	12/23/09						
Hexavalent Chrom		PASS	0.761	0.761							mg/L	
ICV1	ICV1				W	12/23/09						
Hexavalent Chrom		PASS	0.510	0.51		102.0	90	110			mg/L	
ICB1	ICB1				W	12/23/09						
Hexavalent Chrom		PASS	0.000	0.00				+/-0.0100			mg/L	
CCV1	CCV1				W	12/23/09						
Hexavalent Chrom		PASS	0.510	0.51		102.0	90	110			mg/L	
CCB1	CCB1				W	12/23/09						
Hexavalent Chrom		PASS	0.000	0.00				+/-0.0100			mg/L	
MBS	MBS			1	S	12/23/09						
Hexavalent Chrom		PASS	-0.160	-0.16							mg/Kg	
LCSS	LCSS				S	12/23/09						
Hexavalent Chrom		PASS	20.490	20.50		102.5	80.00	120.00			mg/Kg	
LCSSD	LCSSD				S	12/23/09						
Hexavalent Chrom		PASS	20.490	20.50		102.5	80.00	120.00			mg/Kg	
A5586-08	AH-B5-SS-13			1	S	12/23/09						
Hexavalent Chrom		PASS	0.490	0.490							mg/Kg	
A5586-08D	AH-B5-SS-13D				S	12/23/09						
Hexavalent Chrom		FAIL	0.310	0.31					200.0	20	mg/Kg	
A5586-08S	AH-B5-SS-13S			2	S	12/23/09						
Hexavalent Chrom		PASS	24.170	48.3		101.7	75	125			mg/Kg	
A5586-08S	AH-B5-SS-13S			20	S	12/23/09						
Hexavalent Chrom		PASS	24.290	486.0		103.3	75	125			mg/Kg	
A5586-08S	AH-B5-SS-13S			2	S	12/23/09						
Hexavalent Chrom		PASS	24.050	48.1		101.3	75	125			mg/Kg	
A5586-09	AH-B5-SS-17			1	S	12/23/09						
Hexavalent Chrom		PASS	-0.190	-0.190							mg/Kg	

Chemtech

Analytical Review Report

Date Printed : 12/24/09
Analyst : SUNIL
Data File : LB47899.MDB

Approved By : Jm
Approved Date : 12-24-09
Worksheet # :

Lab Sample ID / Parameter	Client ID		Raw Amt PPB	Dil / Final Conc	Matrix	A. Date / %Rec	Prep Method / LCL	Analysis Method / UCL	RPD	Max RPD	Units	Line 1 / Line 2
Hexavalent Chromium												
A5586-10	**AH-B5-SS-18**			1	S	12/23/09						
Hexavalent Chrom		PASS	0.560	0.560							mg/Kg	
CCV2	**CCV2**				W	12/23/09						
Hexavalent Chrom		PASS	0.510	0.51		102.0	90	110			mg/L	
CCB2	**CCB2**				W	12/23/09						
Hexavalent Chrom		PASS	0.000	0.00				+/-0.0100			mg/L	
A5586-11	**AH-B5-SS-19**			1	S	12/23/09						
Hexavalent Chrom		PASS	-0.120	-0.120							mg/Kg	
A5586-12	**AH-B5-SS-20**			1	S	12/23/09						
Hexavalent Chrom		PASS	0.910	0.910							mg/Kg	
A5586-13	**AH-B5-SS-21**			1	S	12/23/09						
Hexavalent Chrom		PASS	0.000	0.000							mg/Kg	
A5604-01	**FK-BPM-02-C1A-C2A-C3A-D1**			1	S	12/23/09						
Hexavalent Chrom		PASS	-0.170	-0.170							mg/Kg	
A5605-01	**FK-BPM-02-D4A-D5A-C4A-C5**			1	S	12/23/09						
Hexavalent Chrom		PASS	-0.170	-0.170							mg/Kg	
A5606-01	**FK-BPM-02-C6A-C7A-D6A-D7**			1	S	12/23/09						
Hexavalent Chrom		PASS	-0.060	-0.060							mg/Kg	
CCV3	**CCV3**				W	12/23/09						
Hexavalent Chrom		PASS	0.510	0.51		102.0	90	110			mg/L	
CCB3	**CCB3**				W	12/23/09						
Hexavalent Chrom		PASS	0.000	0.00				+/-0.0100			mg/L	

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#:20012 : NEW YORK LAB ID#: 11376

GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: A5586 MATRIX: Solid

METHOD: 7196

	NA	NO	YES
1. Blank Contamination			

If YES, list compounds and concentrations in each blank:

	NA	NO	YES
2. Matrix Spike Recoveries Meet Criteria			

If not met, list those compounds and their recoveries which fall outside of the acceptance range:

	NA	NO	YES
3. Sample Duplicate Analysis Meet QC Criteria:		X	

If not met, list those compounds and their % differences which fall outside of the acceptance range:

Hexavalent Chromium - 45% due to matrix interference

	NA	NO	YES
4. Analysis Holding Time Met			

If not met, list number of days exceeded for each sample:

ADDITIONAL COMMENTS:

Sunil
Analyst

Date 12/28/09

QA REVIEW

Date

QA Control # A3040188

Chemtech Consulting Group

Analytical Summary Report

Analysis Method: 7196 Hexavalent Chromium
Parameter: Hexavalent Chromium
Run Number: LB47899
Instrument: Hach 2010
Analyst: SUNIL

Supervisor Review:

Intercept (x): 0.0030

Slope (b): 0.7652

Regression (r): 0.9997

Reagent/Standard	Lot/Log Number

SLS 12/24/09

Seq	Lab ID	Sample Type	DF	Initial Vol (ml/gm)	Final Vol (ml/gm)	Absorbance at 540 nm	Result	QC Batch	Analytical Date	Time/Seq
1	CAL	CAL	1	100ml ~~1.00~~	100 ~~1.00~~	0.000	0.00		12/23/09	001
2	CAL	CAL	1	1.00	1.00	0.005	0.00		12/23/09	002
3	CAL	CAL	1	1.00	1.00	0.040	0.04		12/23/09	003
4	CAL	CAL	1	1.00	1.00	0.079	0.08		12/23/09	004
5	CAL	CAL	1	1.00	1.00	0.240	0.24		12/23/09	005
6	CAL	CAL	1	1.00	1.00	0.396	0.40		12/23/09	006
7	CAL	CAL	1	1.00	1.00	0.761	0.76		12/23/09	007
8	ICV	ICV	1	1.00	1.00	0.392	0.51		12/23/09	008
9	ICB	ICB	1	1.00	1.00	0.000	0.00		12/23/09	009
10	CCV	CCV	1	1.00	1.00	0.391	0.51		12/23/09	010
11	CCB	CCB	1	1.00	~~1.00~~	0.000	0.00		12/23/09	011
12	MBS	MB	1	2.50	100.00	0.000	-0.16		12/23/09	012
13	LCSS	LCS	1	2.50	100.00	0.395	20.49		12/23/09	013
14	LCSSD	LCSD	1	2.50	100.00	0.395	20.49		12/23/09	014
15	A5586-08	SAM	1	2.50	100.00	0.011	0.49		12/23/09	015
16	A5586-08D	DUP	1	2.50	100.00	0.008	0.31		12/23/09	016
17	A5586-08S	MS	2	2.50	100.00	0.396	48.34		12/23/09	017
18	A5586-08S	MS	20	2.50	100.00	0.398	485.84		12/23/09	018
19	A5586-08S	MS	2	2.50	100.00	0.394	48.09		12/23/09	019
20	A5586-09	SAM	1	2.50	100.00	0.000	-0.19		12/23/09	020
21	A5586-10	SAM	1	2.50	100.00	0.012	0.56		12/23/09	021
22	CCV	CCV	1	100ml ~~1.00~~	100 ~~1.00~~	0.392	0.51		12/23/09	022
23	CCB	CCB	1	100ml ~~1.00~~	100 ~~1.00~~	0.000	0.00		12/23/09	023
24	A5586-11	SAM	1	2.50	100.00	0.001	-0.12		12/23/09	024
25	A5586-12	SAM	1	2.50	100.00	0.018	0.91		12/23/09	025
26	A5586-13	SAM	1	2.50	100.00	0.003	0.00		12/23/09	026
27	A5604-01	SAM	1	2.50	100.00	0.000	-0.17		12/23/09	027
28	A5605-01	SAM	1	2.50	100.00	0.000	-0.17		12/23/09	028
29	A5606-01	SAM	1	2.50	100.00	0.002	-0.06		12/23/09	029
30	CCV	CCV	1	100ml ~~1.00~~	100 ~~1.00~~	0.392	0.51		12/23/09	030
31	CCB	CCB	1	100ml ~~1.00~~	100 ~~1.00~~	0.000	0.00		12/23/09	031

SLS 12/24/09

Chemtech Consulting Group

Analytical Summary Report

Analysis Method: 7196 Hexavalent Chromium
Parameter: Hexavalent Chromium
Run Number: LB47899
Instrument: Hach 2010

ANALYST: SUNIL
SUPERVISOR REVIEW
Digestion Date: 12/22/09
Analysis Date: 12/23/09

Reagent/Standard	Lot/Log #	Prep. Date	Exp. Date
Cr+6 Intermediate Std. (5ppm) S1	W028878	12/22/09	12/22/09
Cr+6 Intermediate Std. (5ppm) S2	W028879	12/22/09	12/22/09
Cr+6 ICV Std. / LCS	W028880-1	12/22/09	12/22/09
Cr+6 Working / CCV / ~~LCS~~ Std.	W028882-9	12/22/09	12/22/09
Cr+6 Color Reagent	W028890	12/22/09	12/22/09
Sand for Blank	WC1267	5/18/09	5/17/19
H2SO4 (5N) Sulfuric Acid	W027471	11/12/09	5/11/10
HNO3 (5N) Nitric Acid	MR1972	6/19/09	6/8/19

Reagent/Standard	Lot/Log #	Prep. Date	Exp. Date
Digestion Solution	W028736	12/17/09	6/17/10
Phosphate Buffer	W023954	7/7/09	1/6/10
Lead Chromate	WC1065	2/13/07	2/12/17
MgCl2	WC1248	1/14/09	1/13/19

Balance # METAL

Calibration Check:
5 g = 5.00 (g), 100 g = 100.00 (g)

Seq	Lab ID	Sample Type	DF	Initial Vol (ml/gm)	Final Vol (ml)	Absorbance Backgrnd	Absorbance Color	Difference	pH HNO3	pH H2SO4	Dig. Start Time	Dig. End Time
1	CAL	CAL		100ml	100	0.000	0.000	0.000	N/A	2.04	N/A	N/A
2	CAL	CAL			100	0.000	0.005	0.005		2.04		
3	CAL	CAL			100	0.000	0.040	0.040		2.04		
4	CAL	CAL			100	0.000	0.079	0.079		2.00		
5	CAL	CAL			100	0.000	0.240	0.240		2.01		
6	CAL	CAL			100	0.000	0.396	0.396		2.05		
7	CAL	CAL			100	0.000	0.761	0.761		2.00		
8	ICV	ICV			100	0.000	0.392	0.392		2.03		
9	ICB	ICB			100	0.000	0.000	0.000		1.95		
10	CCV	CCV			100	0.000	0.391	0.391		2.04		
11	CCB	CCB			100	0.000	0.000	0.000		1.99		
12	MBS	MB		2.50gm	100	0.000	0.000	0.000	7.45	2.00	16:30	15:30
13	LCSS	LCS		2.51	100	0.000	0.395	0.395	7.00	2.02		
14	LCSSD	LCSD		2.50	100	0.001	0.396	0.395	7.02	1.98		
15	A5586-08	SAM		2.50	100	0.038	0.049	0.011	7.30	2.01		
16	A5586-08D	DUP		2.51	100	0.041	0.049	0.008	7.25	1.97		
17	A5586-08S PRE	MS	2	2.50	100	~~0.430~~ 0.034	0.430	0.396	7.45	2.00		
18	A5586-08S INS	MS	20	2.50	100	0.036	0.434	0.398	7.48	1.98		
19	A5586-08S POST	MS	2	2.51	100	0.032	0.426	0.394	7.51	2.06		
20	A5586-09	SAM		2.51	100	0.072	0.072	0.000	7.39	2.03		
21	A5586-10	SAM		2.50	100	0.225	0.237	0.012	7.43	2.00		
22	CCV	CCV		100ml	100	0.000	0.392	0.392	N/A	2.01	N/A	N/A
23	CCB	CCB		100ml	100	0.000	0.000	0.000	N/A	1.99	N/A	N/A
24	A5586-11	SAM		2.49	100	0.094	0.095	0.001	7.50	2.02	16:30	15:30
25	A5586-12	SAM		2.51	100	0.159	0.177	0.018	7.25	2.01		
26	A5586-13	SAM		2.50	100	0.123	0.126	0.003	7.31	2.03		
27	A5604-01	SAM		2.51	100	0.044	0.044	0.000	7.55	2.04		
28	A5605-01	SAM		2.51	100	0.040	0.040	0.000	7.35	2.04		
29	A5606-01	SAM		2.50	100	0.036	0.038	0.002	7.45	2.05		
30	CCV	CCV		100ml	100	0.000	0.392	0.392	N/A	2.01	N/A	N/A
31	CCB	CCB		100ml	100	0.000	0.000	0.000	N/A	1.99	N/A	N/A

True value of ICV = CCV = 0.5 mg/
True value of LCSS = LCSSD = 0.5 mg/
True value pre & post-digestion = 40 mg/kg
True value Insoluble Spike = 400 mg/kg

Hot Plate #1 Temp.= 90.8 °C [90°C-95°C]
Hot Plate #2 Temp.= 93.0 °C [90°C-95°C]

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092 Tel 908-789-8900

General Chemistry
Standard Preparation Log

Name	NO.	Prep date	Expiration Date	SIGNATURE
Cr+6 Intermediate Std (S1)	W028878	12/22/09	12/22/09	SIS

FROM 5PPM:-

10ml of W028687 & make upto 100ml w/DI WATER

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr+6 Intermediate Std (S2)	W028879	12/22/09	12/22/09	SIS

FROM 5PPM:-

10ml of W021688 & make upto 100ml w/DI water

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr+6 ICV std 0.5 PPM	W028880	12/22/09	12/22/09	SIS

FROM 10ml of W028878 → 100ml of DI water

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr+6 LCS Std 0.5 PPM	W028881	12/22/09	12/22/09	SIS

FROM 10ml of W028878 → 100ml of DI water

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General Chemistry
Standard Preparation Log

Name	NO.	Prep date	Expiration Date	SIGNATURE
Cr+6 CCV std 0.5 PPM	W028882	12/22/09	12/22/09	SLS

FROM 10 ml of W028879 → 100 ml DI water.

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr+6 working std 1.0 PPM	W028883	12/22/09	12/22/09	SLS

FROM 20ml of W028879 → 100ml w/DI water

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr+6 working std. 0.5 PPM	W028884	12/22/09	12/22/09	SLS

FROM 10ml of W028879 → 100ml w/DI water.

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr+6 working std. 0.3 PPM	W028885	12/22/09	12/22/09	SLS

FROM 6ml of W028879 → 100ml w/DI water.

CHEMTECH

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General Chemistry
Standard Preparation Log

Name	NO.	Prep date	Expiration Date	SIGNATURE
Cr6 working std. 0.1 PPM	W028886	12/22/09	12/22/09	SLS

FROM 2 ml of W028879 → 100 ml w/DI water.

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr6 working std. 0.05 PPM	W028887	12/22/09	12/22/09	SLS

FROM 1 ml of W028879 → 100 ml w/DI water.

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr6 working std. 0.01 PPM	W028888	12/22/09	12/22/09	SLS

FROM 0.2 ml of W028879 → 100 ml w/DI water.

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr6 working std. 0 PPM	W028889	12/22/09	12/22/09	SLS

FROM 100 ml DI water.

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General Chemistry
Standard Preparation Log

Name	NO.	Prep date	Expiration Date	SIGNATURE
Cr+6 Color Reagent	W028890	12/22/09	12/22/09	SLS

FROM 0.5g W0366 → 200ml ER1594

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Reactive Cyanide LCSS/LCSSD.	W028891	12/22/09	12/22/09	SLS

FROM 1.25 ml of W026875 → 5g sample /kg.

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Reactive Sulfide LCSS/LCSSD	W028892	12/22/09	12/22/09	SLS

FROM 1.25 ml of W026876 → 5g. of sample /kg.

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
TOC 100 ppm I	W028893	12-22-09	12-22-09	RG

FROM 5 ml of source I (W027041) 4000 ppm to 200 ml with DI water

Chemtech Consulting Group

Analytical Review Report

Date Printed : 12/30/09
Analyst : sunil
Data File : lb47836.MDB

Approved By : [illegible]
Approved Date : 12-30-09
Worksheet # :

Lab Sample ID / Parameter	Client ID		Raw Amt PPB	Dil / Final Conc	Matrix	A. Date / %Rec	Prep Method / LCL	Analysis Method / UCL	RPD	Max RPD	Units	Line 1 / Line 2
Hexavalent Chromium												
CAL	CAL				W	12/17/09						
Hexavalent Chrom		PASS	0.000	0.000							mg/L	
CAL	CAL				W	12/17/09						
Hexavalent Chrom		PASS	0.000	0.000							mg/L	
CAL	CAL				W	12/17/09						
Hexavalent Chrom		PASS	0.050	0.050							mg/L	
CAL	CAL				W	12/17/09						
Hexavalent Chrom		PASS	0.100	0.100							mg/L	
CAL	CAL				W	12/17/09						
Hexavalent Chrom		PASS	0.310	0.310							mg/L	
CAL	CAL				W	12/17/09						
Hexavalent Chrom		PASS	0.510	0.510							mg/L	
CAL	CAL				W	12/17/09						
Hexavalent Chrom		PASS	0.990	0.990							mg/L	
ICV1	ICV1				W	12/17/09						
Hexavalent Chrom		PASS	0.510	0.51		102.0	90	110			mg/L	
ICB1	ICB1				W	12/17/09						
Hexavalent Chrom		PASS	0.000	0.00				+/-0.0100			mg/L	
CCV1	CCV1				W	12/17/09						
Hexavalent Chrom		PASS	0.510	0.51		102.0	90	110			mg/L	
CCB1	CCB1				W	12/17/09						
Hexavalent Chrom		PASS	0.000	0.00				+/-0.0100			mg/L	
MBW	MBW				W	12/17/09						
Hexavalent Chrom		PASS	0.000	0.00				+/-0.0100			mg/L	
LCSW	LCSW				W	12/17/09						
Hexavalent Chrom		PASS	0.510	0.51		102.0	80	120			mg/L	
LCSWD	LCSWD				W	12/17/09						
Hexavalent Chrom		PASS	0.510	0.51		102.0	80	120	0	20	mg/L	
A5586-07	AH-RB-121609		1		W	12/17/09						
Hexavalent Chrom		PASS	0.010	0.010							mg/L	
A5586-07D	AH-RB-121609D				W	12/17/09						
Hexavalent Chrom		PASS	0.010	0.01					0	20	mg/L	
A5586-07S	AH-RB-121609S		2		W	12/17/09						
Hexavalent Chrom		PASS	0.510	1.0		100.0	75	125			mg/L	
CCV2	CCV2				W	12/17/09						
Hexavalent Chrom		PASS	0.510	0.51		102.0	90	110			mg/L	
CCB2	CCB2				W	12/17/09						
Hexavalent Chrom		PASS	0.000	0.00				+/-0.0100			mg/L	

Chemtech Consulting Group

Analytical Summary Report

Analysis Method: 7196 Hexavalent Chromium
Parameter: Hexavalent Chromium
Run Number: 1b47836
Instrument: Hach 2010
Analyst: sunil

Supervisor Review: J M

Intercept (x): 0.0033

Slope (b): 0.7638

Regression (r): 0.9997

~~Reagent/Standard~~	~~Lot/Log Number~~

12/30/09
SIS

Seq	Lab ID	Sample Type	DF	Initial Vol (ml/gm)	Final Vol (ml/gm)	Absorbance at 540 nm	Result	QC Batch	Analytical Date	Analytical Time/Seq
1	CAL	CAL	1	100.00	100.00	0.000	0.00		12/17/09	001
2	CAL	CAL	1	100.00	100.00	0.005	0.00		12/17/09	002
3	CAL	CAL	1	100.00	100.00	0.040	0.05		12/17/09	003
4	CAL	CAL	1	100.00	100.00	0.080	0.10		12/17/09	004
5	CAL	CAL	1	100.00	100.00	0.240	0.31		12/17/09	005
6	CAL	CAL	1	100.00	100.00	0.395	0.51		12/17/09	006
7	CAL	CAL	1	100.00	100.00	0.760	0.99		12/17/09	007
8	ICV	ICV	1	100.00	100.00	0.393	0.51		12/17/09	008
9	ICB	ICB	1	100.00	100.00	0.000	0.00		12/17/09	009
10	CCV	CCV	1	100.00	100.00	0.391	0.51		12/17/09	010
11	CCB	CCB	1	100.00	100.00	0.000	0.00		12/17/09	011
12	MBW	MB	1	100.00	100.00	0.000	0.00		12/17/09	012
13	LCSW	LCS	1	100.00	100.00	0.394	0.51		12/17/09	013
14	LCSWD	LCSD	1	100.00	100.00	0.395	0.51		12/17/09	014
15	A5586-07	SAM	1	100.00	100.00	0.010	0.01		12/17/09	015
16	A5586-07D	DUP	1	100.00	100.00	0.010	0.01		12/17/09	016
17	A5586-07S	MS	2	100.00	100.00	0.395	1.03		12/17/09	017
18	CCV	CCV	1	100.00	100.00	0.391	0.51		12/17/09	018
19	CCB	CCB	1	100.00	100.00	0.000	0.00		12/17/09	019

12/30/09
SIS

Chemtech Consulting Group

Analytical Summary Report

Analysis Method: 7196 Hexavalent Chromium
Parameter: Hexavalent Chromium
Run Number: LB47836
Instrument: Hach 2010

ANALYST: SUNIL
SUPERVISOR REVIEW: [illegible]
Digestion Date: 12/17/09
Analysis Date: 12/17/09

Reagent/Standard	Lot/Log #	Prep. Date	Exp. Date
Cr+6 Intermediate Std. (5ppm) S1	W028723	12/17/09	12/17/09
Cr+6 Intermediate Std. (5ppm) S2	W028724		
Cr+6 ICV Std. LCS	W028725-7		
Cr+6 Working / CCV / ~~LCS Std.~~	W028728-31		
Cr+6 Color Reagent	W028735		
Sand for Blank	WC1267	5/18/09	5/17/19
H2SO4 (5N) Sulfuric Acid	W027491	11/12/09	5/11/10
HNO3 (5N) Nitric Acid	MR1972	6/9/09	6/8/19

Reagent/Standard	Lot/Log #	Prep. Date	Exp. Date
~~Digestion Solution~~			
Phosphate Buffer			
Lead Chromate			
MgCl2			

Balance # _____

Calibration Check: ~~_____ g = _____ (g), _____ g = _____ (g)~~ 12/17/09 SIS

Seq	Lab ID	Sample Type	DF	Initial Vol (ml/gm)	Final Vol (ml)	Absorbance Backgrnd	Absorbance Color	Difference	pH HNO3	pH H2SO4	Dig. Start Time	Dig. End Time
1	CAL	CAL		100ml	100	0.000	0.000	0.000	N/A ~~7.07~~ 12/29/09	2.04	N/A	N/A
2	CAL	CAL			100	0.000	0.005	0.005	7.10	2.04		
3	CAL	CAL			100	0.000	0.040	0.040	7.15	2.04		
4	CAL	CAL			100	0.000	0.080	0.080	7.25	2.02		
5	CAL	CAL			100	0.000	0.240	0.240	7.29	2.01		
6	CAL	CAL			100	0.000	0.395	0.395	7.30	2.04		
7	CAL	CAL			100	0.000	0.760	0.760	7.30	2.04		
8	ICV	ICV			100	0.000	0.393	0.393	N/A	2.02		
9	ICB	ICB			100	0.000	0.000	0.000		2.01		
10	CCV	CCV			100	0.000	0.391	0.391		2.03		
11	CCB	CCB			100	0.000	0.000	0.000		2.03		
12	MBW	MB			100	0.000	0.000	0.000	7.35	2.05		
13	LCSW	LCS			100	0.000	0.394	0.394	7.09	2.00		
14	LCSWD	LCSD			100	0.000	0.395	0.395	7.01	2.08		
15	A5586-07	SAM			100	0.008	0.010	0.010	7.15	2.01		
16	A5586-07D	DUP			100	0.008	0.010	0.010	7.20	2.03		
17	A5586-07S	MS			100	0.018	0.413	0.395	7.34	2.06		
18	CCV	CCV			100	0.000	0.391	0.391	~~7.44~~ N/A	2.01		
19	CCB	CCB			100	0.000	0.000	0.000	~~7.26~~ N/A 12/29/09 SIS	2.03		

True value of ICV = CCV = 0.5 mg/
True value of LCSS = LCSSD = 0.5 mg/
True value pre & post-digestion = 40 mg/kg
True value Insoluble Spike = 400 mg/kg

Hot Plate #1 Temp.= _____ °C [90°C-95°C]
Hot Plate #2 Temp.= _____ °C [90°C-95°C]

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092 Tel 908-789-8900

General Chemistry
Standard Preparation Log

Name	NO.	Prep date	Expiration Date	SIGNATURE
Cr+6 INTERMEDIATE Std. (S1)	W028723	12/17/09	12/17/09	SIS

FROM 5PPM :- 10ml of the W028687 & MAKE UPTO 100ml DI WATER

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr+6 Intermediate Std (S2) 5PPM	W028724	12/17/09	12/17/09	SIS

FROM 10ml of W028688 & MAKE UPTO 100ml DI WATER

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr+6 ICV Std. 0.5 PPM	W028725	12/17/09	12/17/09	SIS

FROM 10ml of W028723 → 100 ml of DI WATER

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr+6 LCS Std. 0.5 PPM	W028726	12/17/09	12/17/09	SIS

FROM 10ml of W028723 → 100 ml of DI WATER

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CHEMTECH

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General Chemistry
Standard Preparation Log

Name	NO.	Prep date	Expiration Date	SIGNATURE
Cr+6 CCV std. 0.5 PPM	W028727	12/17/09	12/17/09	SIS

FROM 10 ml of W028724 → 100ml with DI water.

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr+6 WORKING std. 1.0 PPM	W028728	12/17/09	12/17/09	SIS

FROM 20 ml of W028724 → 100ml DI WATER.

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr+6 WORKING std. 0.5 PPM	W028729	12/17/09	12/17/09	SIS

FROM 10ml of W028724 → 100ml DI WATER

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr+6 warning std 0.3 PPM	W028730	12/17/09	12/17/09	SIS

FROM 6 ml of W028724 → 100ml DI WATER

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General Chemistry
Standard Preparation Log

Name	NO.	Prep date	Expiration Date	SIGNATURE
Cr^{+6} working std. 0.1 PPM	W028731	12/17/09	12/17/09	SIS

FROM 2ml of W028724 → 100 ml DI WATER

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr^{+6} working std. 0.05 PPM	W028732	12/17/09	12/17/09	SIS

FROM 1ml of W028724 → 100 ml DI WATER

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr^{+6} working std 0.01 PPM	W028733	12/17/09	12/17/09	SIS

FROM 0.2 ml of W028724 → 100 ml DI water.

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
~~Cr6~~ Cr^{+6} WORKING std 0 PPM	W028734	12/17/09	12/17/09	SIS

FROM 100ml DI WATER.

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General Chemistry
Standard Preparation Log

Name	NO.	Prep date	Expiration Date	SIGNATURE
Cr+6 COLOR REAGENT	W028735	12/17/09	12/17/09	SLS

FROM 0.5 g WC0366 → 200ml ER1594

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
Cr+6 DIGESTION SOLUTION	W028736	12/17/09	6/16/10	SLS

FROM 600g of Na_2CO_3 # WC1253 + 400g of NaOH # WC1233 AND MAKE FINAL VOLUME OF 20L DI WATER.

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
REACTIVE CYANIDE LCSS/LCSSD.	W028737	12/17/09	12/17/09	SLS

FROM 1.25 ml of W026875 → 5 g sample/kg.

NAME	NO.	Prep Date	Expiration Date	SIGNATURE
REACTIVE CYANIDE ~~LCSSD~~ 12/17/09 SLS LCSW/LCSD	W028738	12/17/09	12/17/09	SLS

FROM 1.25 ml of W026875 → 50ml sample

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

SHIPPING AND RECEIVING DOCUMENTATION

A5586

RPB
RST 2, Edison, NJ
EPA Contract Number: EP-W-06-072
PO#: 0069775 / RFP: 118

CHAIN OF CUSTODY RECORD
Site: Clifton, NJ
Contact Name: Sayed Iqbal
Contact Phone: 908-565-2989

No: RS/AHHT-12/16/09-0001
Lab: Chemtech
Lab Phone: (908) 789 - 8900

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Sample Time	MS/MSD
	AH-B5-SS-08	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	1	8 oz jar	4 C	11:30	N
	AH-B5-SS-12	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	1	8 oz jar	4 C	14:50	N
	AH-B5-SS-14	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	1	8 oz jar	4 C	15:00	N
	AH-B5-SS-15	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	2	8 oz jar	4 C	11:40	Y
	AH-B5-SS-16	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	1	8 oz jar	4 C	15:15	N
	AH-B5-SS-30	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/16/2009	1	8 oz jar	4 C	11:20	N
	AH-RB-121609	Site	Hexavalent Chromium [Cr(VI)]	Water	12/16/2009	1	1L plastic	4 C	15:30	N

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Transfer AI	[signature]	12/16/09	[signature]	12/16/09	1633		[signature]	2020 12/16/09	[signature]	12/16/09	20:20
	[signature] L.C.	~~12/16/09~~									

A5586

RPB
RST 2, Edison, NJ
EPA Contract Number: EP-W-06-072
PO#: 0069775 / RFP: 118

CHAIN OF CUSTODY RECORD
Site: Clifton, NJ
Contact Name: Sayed Iqbal
Contact Phone: (908) 565 - 2989

No: RS/AHHT-12/17/09-0002

Lab: Chemtech
Lab Phone: (908) 789 - 8900

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	Sample Time	MS/MSD
	AH-B5-SS-13	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/17/2009	1	8 oz jar	4 C	09:25	N
	AH-B5-SS-17	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/17/2009	1	8 oz jar	4 C	09:40	N
	AH-B5-SS-18	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/17/2009	1	8 oz jar	4 C	09:50	N
	AH-B5-SS-19	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/17/2009	1	8 oz jar	4 C	16:15	N
	AH-B5-SS-20	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/17/2009	1	8 oz jar	4 C	16:30	N
	AH-B5-SS-21	Building No. 5	Hexavalent Chromium [Cr(VI)]	Soil	12/17/2009	1	8 oz jar	4 C	16:00	N

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY # 74MD.5C

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All Transfer	[illegible]	12/17/09	[illegible]	12/17/09	1712						
Samples	[illegible]	1915 12/17/09	[illegible]	12/17/09	19:15						

CHEMTECH 284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

LABORATORY CERTIFICATION

STATE	License No.
New Jersey	20012
New York	11376
Florida	E87935
Maryland	296
Massachusetts	M-NJ503
Oklahoma	9705
Rhode Island	LAO00259
Connecticut	PH-0649
Maine	NJ0503
Pennsylvania	68-548

CHEMTECH 284 Sheffield Street, Mountainside, New Jersey 07092 Phone: 908 789 8900 Fax: 908 789 8922

END OF ANALYTICAL RESULTS