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ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates 0061

Lot #: H6D030194

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ANALYTICAL METHODS SUMMARY

H6D030194

PARAMETER	ANALYTICAL METHOD
Hexavalent Chromium	SW846 7199

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

H6D030194

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2HJV	001	G-2944-R1-METHOD 0061-0.5N KOH IMPINGERS COMPOSITE	03/28/06	
H2HJ0	002	G-2946-R1-METHOD 0061-0.5N KOH IMPINGER COMPOSITE FSD	03/30/06	
H2HJ6	003	G-2947-R1-METHOD 0061-0.5N KOH IMPINGER SOULTION RB	03/28/06	
H2HJ8	004	G-2948-R1-METHOD 0061-0.5N KOH IMPINGER SOULTION REAGENT SPIKE	03/30/06	
H2HKF	005	G-3054-R2-METHOD 0061-0.5N KOH IMPINGER COMPOSITE	03/29/06	
H2HKN	006	G-3138-R3-METHOD 0061-0.5N KOH IMPINGER COMPOSITE	03/30/06	
H2H16	007	G-2945-R1-METHOD 0061-0.5N KOH IMPINGER COMPOSITE FS	03/30/06	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H6D030194

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present upon sample receipt at STL Knoxville; however, the samples were hand delivered.

The "Relinquished by" field on the chain of custody documentation did not contain a signature.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

Samples were analyzed for hexavalent chromium (Cr^{+6}) by ion chromatography using SOP number KNOX-WC-0003 (based on EPA methods 0061 and 7199). All sample results were reported as total ug hexavalent chromium. Results were calculated using the following equation:

$$Cr^{+6}, ug = \left(Cr^{+6}, ug / L\right) * \left(\text{Sample Volume, L}\right) * \text{Bench Dilution}$$

The dilution factor reported on the sample result form is actually the combination of factors (not just a dilution factor) required by the method to convert the reporting limit and method detection limit from ug/L to total ug:

$$\text{Dilution Factor} = \left(\text{Sample Volume, L}\right) * \text{Bench Dilution}$$

PROJECT NARRATIVE
H6D030194

Note: A sample volume of 100 mL was used to convert the results to total ug for the method blanks, laboratory control samples, and client reagent blanks in order to standardize the analyte sample total.

Sample Data Summary

STL Knoxville - ACS

Client Sample ID: G-2944-R1-METHOD 0061-0.5N KOH IMPINGERS COMPOSITE

General Chemistry

Lot-Sample #...: H6D030194-001 **Work Order #...:** H2HJV **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	**5.6**	**0.70**	**ug**	**SW846 7199**	**04/07/06**	**6103131**

Dilution Factor: 1.4 MDL.....: 0.21

STL Knoxville - ACS

Client Sample ID: G-2946-R1-METHOD 0061-0.5N KOH IMPINGER COMPOSITE FSD

General Chemistry

Lot-Sample #...: H6D030194-002 Work Order #...: H2HJ0 Matrix.....: AIR
Date Sampled...: 03/30/06 Date Received...: 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	38.1	0.70	ug	SW846 7199	04/07/06	6103131

Dilution Factor: 1.4 MDL.....: 0.21

STL Knoxville - ACS

Client Sample ID: G-2947-R1-METHOD 0061-0.5N KOH IMPINGER SOULTION RB

General Chemistry

Lot-Sample #...: H6D030194-003 **Work Order #...:** H2HJ6 **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	0.050	ug	SW846 7199	04/07/06	6103131

Dilution Factor: 0.1 MDL.....: 0.015

STL Knoxville - ACS

Client Sample ID: G-2948-R1-METHOD 0061-0.5N KOH IMPINGER SOULTION REAGENT SPIKE

General Chemistry

Lot-Sample #...: H6D030194-004 **Work Order #...:** H2HJ8 **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	**2.4**	**0.050**	**ug**	**SW846 7199**	**04/07/06**	**6103131**

Dilution Factor: 0.1 MDL.....: 0.015

STL Knoxville - ACS

Client Sample ID: G-3054-R2-METHOD 0061-0.5N KOH IMPINGER COMPOSITE

General Chemistry

Lot-Sample #...: H6D030194-005 **Work Order #...:** H2HKF **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	**5.9**	**0.83**	**ug**	**SW846 7199**	**04/07/06**	**6103131**

Dilution Factor: 1.66 MDL.....: 0.25

STL Knoxville - ACS

Client Sample ID: G-3138-R3-METHOD 0061-0.5N KOH IMPINGER COMPOSITE

General Chemistry

Lot-Sample #...: H6D030194-006 Work Order #...: H2HKN Matrix.....: AIR
Date Sampled...: 03/30/06 Date Received..: 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	7.5	0.82	ug	SW846 7199	04/07/06	6103131

Dilution Factor: 1.65 MDL.....: 0.25

STL Knoxville - ACS

Client Sample ID: G-2945-R1-METHOD 0061-0.5N KOH IMPINGER COMPOSITE FS

General Chemistry

Lot-Sample #...: H6D030194-007 **Work Order #...:** H2H16 **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	**18.3**	**0.70**	**ug**	**SW846 7199**	**04/07/06**	**6103131**

Dilution Factor: 1.4 MDL.....: 0.21