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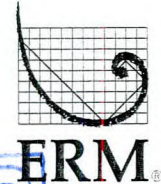
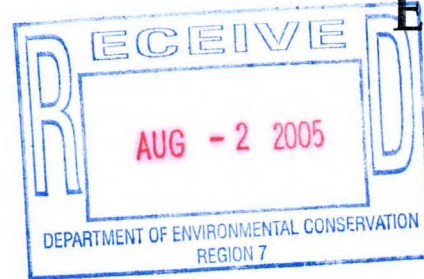
Environmental
Resources
Management

5788 Widewaters Parkway
Dewitt, NY 13214
(315) 445-2554
(315) 445-2543 (fax)

1 August 2005

Mr. Kevin C. Kemp, P.E.
Environmental Engineer I
New York State Department of Environmental Conservation
Division of Environmental Remediation
Petroleum and Chemical Bulk Storage
615 Erie Boulevard West
Syracuse, New York 13204-2400

RE: Project Status Report
General Super Plating
East Syracuse, New York
NYSDEC Spill No.: 00550288
ERM Project No.: 0032572



Dear Mr. Kemp:

Environmental Resource Management (ERM), on behalf of General Super Plating (GSP), is providing this Status Report to update the Department, in writing, of activities and analytical results received since our last report through 22 July 2005.

ERM previously submitted the Source and Abatement Report dated 23 June 2005, which detailed site description, physical setting and the chronological order of events related to the spill incident at GSP between the week of the 9 May 2005 and 6 June 2005 (ERM, 2005).

CHRONOLOGICAL ORDER OF EVENTS

ERM presented a list of the chronological order of events took place between 9 May 2005 and 6 July 2005 in the Source and Abatement Report (ERM, 2005). The following list summarizes the chronological order of investigative activity at the site from 13 June 2005 to 22 July 2005. With the exception of providing analytical data, all of these activities were previously reported verbally to the Department.

Week of 13 June 2005

- ERM monitored the Roof Drain Area on a daily basis;

Rec'd
8/2/05 mty
-mJP

- ERM retained Environmental Products and Services (EPS) to excavate four test pits along the east side of the Facility, in the GSP-Swale area; ERM generally observed the following soil stratigraphy at each test pit: fill material and organics from the surface to about 2-feet below grade; 5-feet massive gray clay and a silty-sand and with some gravel starting at approximately 7-feet below grade.
- ERM collected two grab soil samples from varying depths from each of the test pits; all samples were analyzed for chromium (Cr^{+3} and Cr^{+6}), copper (Cu), Nickel (Ni), Zinc (Zn) and total cyanide (Table 1; Attachment A presents the Laboratory Reports);
- A 2-inch diameter, 0.10-inch slot, PVC, temporary monitoring was installed in each of the test pits (TPW-1, TPW-2, TPW-3 and TPW-4); the depth to the bottom of each well is approximately 8-ft bgs. (Figure 4);
- Each of the temporary monitoring wells (samples are identified as TPW -1, TPW-2, TPW-3 and TPW-4) were purged and sampled in accordance with United States Environmental Protection Agency Region 3 (USEPA), Ground Water Sampling Procedure Low Stress (Low Flow) Purging and Sampling (USEPA, 1996); all samples were analyzed for Cu, Ni, Zn, Cr^{+3} , Cr^{+6} , and total cyanide (Table 2);

Week of 20 June 2005

- ERM monitored the Roof Drain Area on a daily basis;
- ERM received the Laboratory Report from Spectrum Analytical, Inc. (Spectrum) for soil samples collected from a test pit on 7 June 2005 in the Roof Drain Area (RDA); all samples were analyzed for Cu, Ni, Zn, Cr^{+3} , Cr^{+6} , and total cyanide (Table 3, Figure 3);
- ERM prepared and submitted the Source and Abatement Report to the NYSDEC on 23 June 2005;

Week of 27 June 2005

- ERM monitored the Roof Drain Area on a daily basis;
- ERM submitted Sub-Slab Investigation Work Plan to the NYSDEC dated the 29 June 2005;
- ERM prepared to inspect the Chrome Equalization Tank during a scheduled plant shutdown and to implement the sub-slab investigation;

Week of 4 July 2005

- ERM initiated the Sub-Slab Investigation Work Plan mobilizing field and sampling equipment to the Site (ERM, 2005);
- A hammer drill and Environmental Soil Probe (ESP) were utilized to penetrate the concrete slab at the facility to collect a surface and a near surface (surface to 2-feet below grade) soil samples from 12 locations as shown on Figure 4; two soil samples were collected from each boring for laboratory analyses;
- Four of the above referenced borings were advance to a completion depth of 12-feet bgs.; a temporary 0.75-inch PVC monitoring well was installed in each of the these boring locations (Figure 4);
- Each of the interior temporary monitoring wells (TW -1, TW-2, TW-3 and TW-4) were purged and sampled in accordance with USEPA, Ground Water Sampling Procedure Low Stress (Low Flow) Purging and Sampling (USEPA, 1996); all samples were analyzed for Cu, Ni, Zn, Cr⁺³, Cr⁺⁶, and total cyanide;
- Custom Plastics, Inc. dismantled and inspected the Koroseal™ lining of the chrome equalization tank. The tank and lining were inspected by the NYSDEC immediately upon removal; ERM, Custom Plastics and the NYSDEC observed a "slit cut" on the backside of the Koroseal™ which warranted further evaluation.

Week of 11 July 2005

- ERM monitored the Roof Drain Area on a daily basis;
- A round ground water levels were measured in each of the temporary monitoring wells;
- The pH of surface water in the swale, just north of the RDA, was measured with a field kit and found to be 7.8;

Week of 18 July 2005

- ERM monitored the Roof Drain Area on a daily basis;
- ERM received two Laboratory Report from Spectrum for ground water samples collected from the exterior temporary monitoring wells sampled on 17 June 2005 and for the temporary interior monitoring wells sampled on 8 July 2005 (Table 4); all samples were analyzed for Cu, Ni, Zn, Cr⁺³, Cr⁺⁶, and total cyanide;
- ERM received Laboratory Report from Spectrum from soil samples collected in the Sub-Slab Investigation collected on 5-7 July 2005 (Table 5);

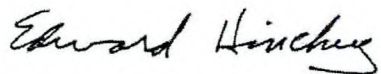
SUMMARY OF FUTURE ACTIVITIES

At this time, ERM is conducting and/or continues to conduct activities which include:

- communicate with the NYSDEC on a regular basis;
- monitor the RDA on a daily basis;
- prepare a work plan to install up to six monitoring wells on the north side of the facility and the facility perimeter;
- prepare a work plan to further delineate the extent of metal-affected media in the Bridge Street Swale Area;
- develop a workplan to address affected media beneath the facility (sub-slab area) and the GSP-Swale area; and,
- prepare for a meeting with the NYSDEC on 2 August 2005 to discuss site status, Department requests and the next steps of the investigation and remediation .

Please contact me at 315-445-2554 or ed.hinchey@erm.com if you have any questions, comments or need additional information.

Sincerely,

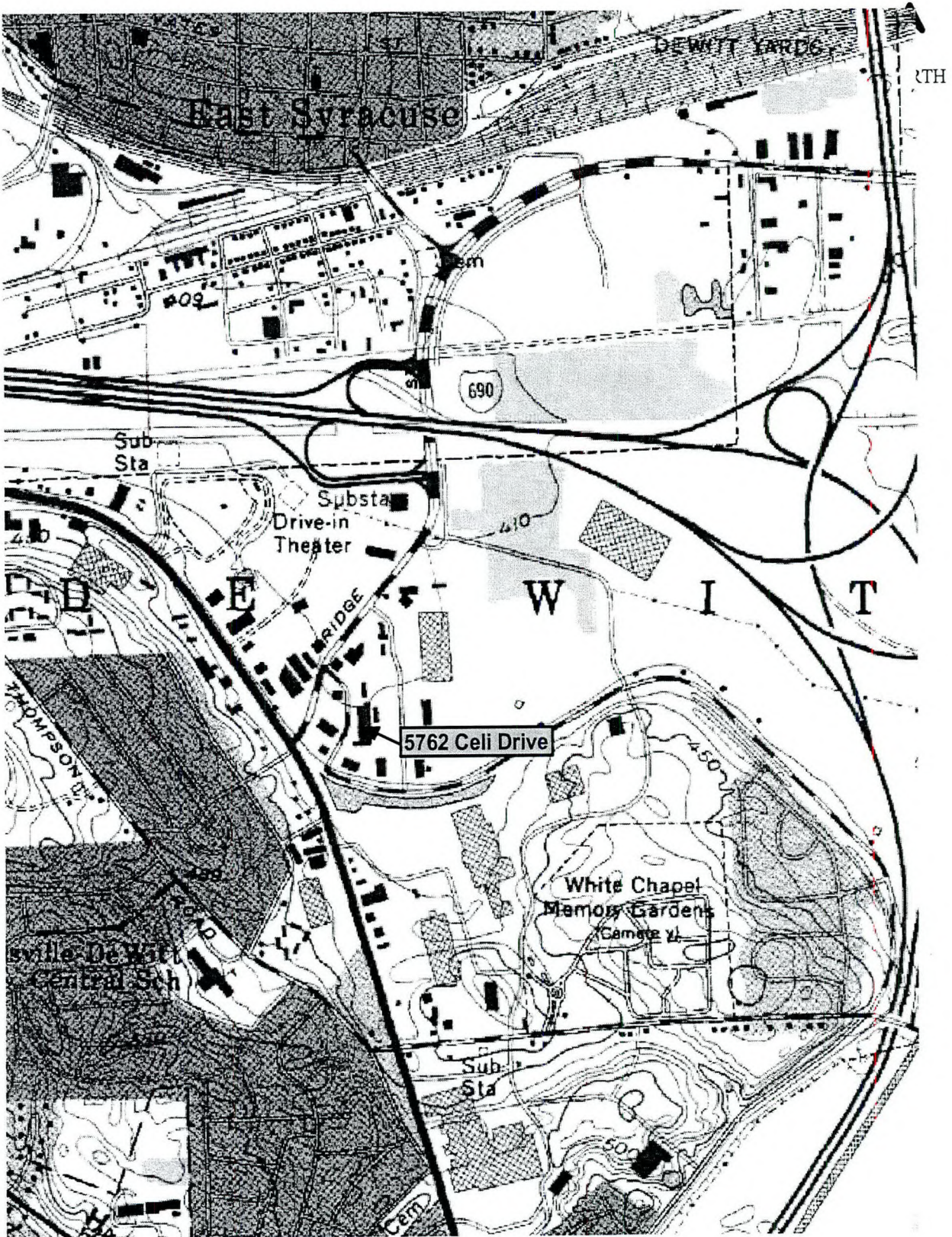


Edward Hinchey, P.G.
Partner In Charge

Attachments

- C: Woody Southwell - GSP
Doreen Simmons - Hancock & Estabrook

ATTACHMENT A
(Site Figures)



SOURCE: USGS 7/1/1978
 ENVIRONMENTAL RESOURCES MANAGEMENT

SITE LOCATION MAP

PREPARED FOR: Hancock & Estabrook, LLP



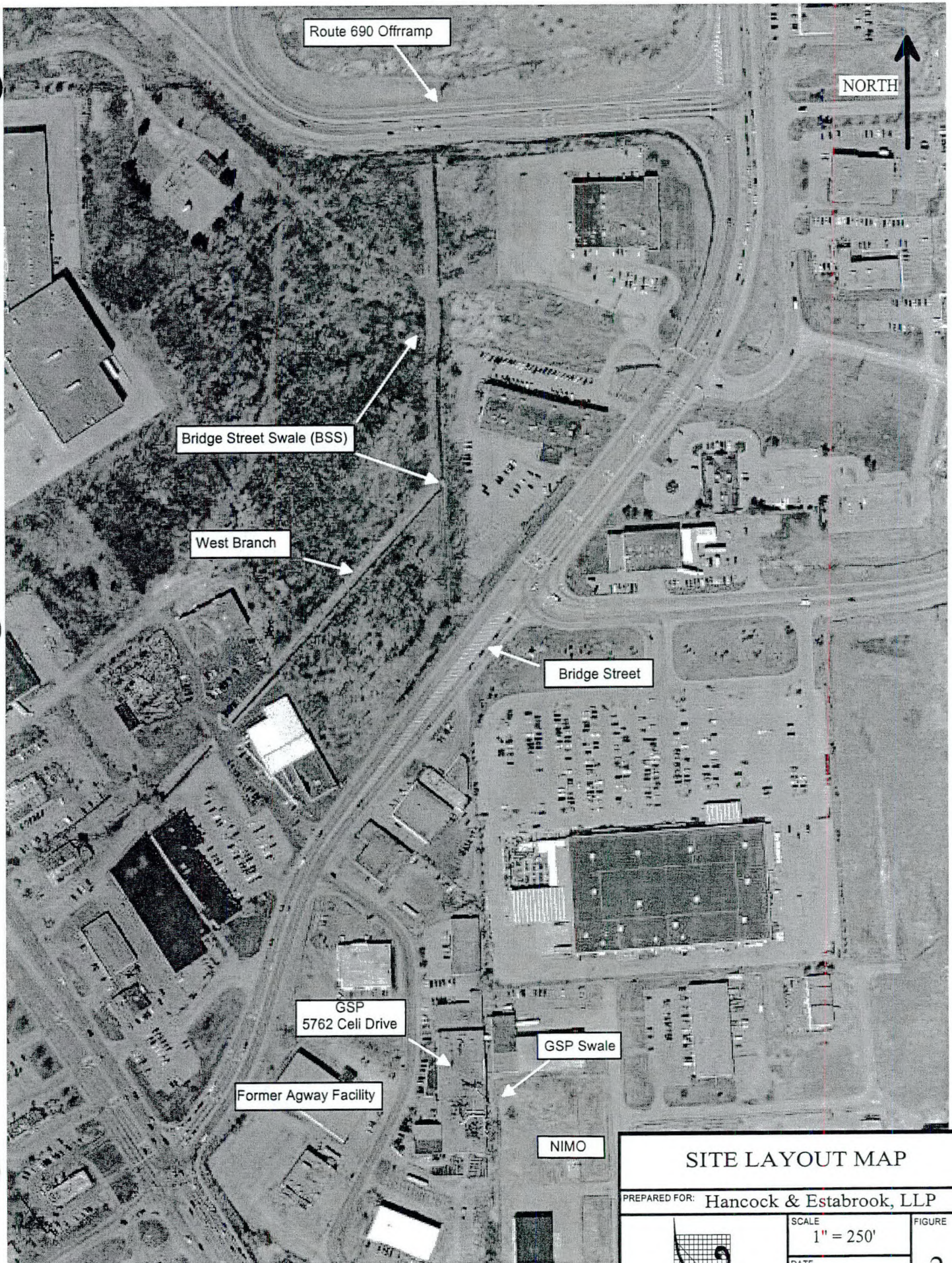
ERM

SCALE
 1" = 2000'

DATE
 July 2005

FIGURE

1



SITE LAYOUT MAP

PREPARED FOR: Hancock & Estabrook, LLP



ERM

SCALE
1" = 250'

DATE
July 2005

FIGURE

2

B

ATTACHMENT B
(Tables)

C

ATTACHMENT C
(Laboratory Reports)

Report Date:
17-Jun-05 17:02



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

Environmental Resources Management
5788 Widewaters Pkwy
Dewitt, NY 13214
Attn: Ed Hinchey

Project: General Super Plating - Dewitt, NY
Project #: 0032572

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SA29466-01	GSP-Swale-TP-1@2'	Soil	14-Jun-05 11:35	15-Jun-05 09:15
SA29466-02	GSP-Swale-TP-1@6'	Soil	14-Jun-05 11:45	15-Jun-05 09:15
SA29466-03	GSP-Swale-TP-2@3'	Soil	14-Jun-05 10:25	15-Jun-05 09:15
SA29466-04	GSP-Swale-TP-2@7'	Soil	14-Jun-05 10:30	15-Jun-05 09:15
SA29466-05	GSP-Swale-TP-3@3'	Soil	14-Jun-05 13:15	15-Jun-05 09:15
SA29466-06	GSP-Swale-TP-3@7'	Soil	14-Jun-05 13:30	15-Jun-05 09:15
SA29466-07	GSP-Swale-TP-4@2.5'	Soil	14-Jun-05 14:20	15-Jun-05 09:15
SA29466-08	GSP-Swale-TP-4@7'	Soil	14-Jun-05 14:35	15-Jun-05 09:15

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. All applicable NELAC requirements have been met.

Please note that this report contains 7 pages of analytical data plus Chain of Custody document(s).

This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Massachusetts Certification # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538/2972
New York # 11393/11840
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393



Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

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ENVIRONMENTAL ANALYSES

Sample Identification
GSP-Swale-TP-1@2'
SA29466-01

Client Project #
0032572

Matrix
Soil

Collection Date/Time
14-Jun-05 11:35

Received
15-Jun-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	71.2	1.06 mg/kg dry	1	EPA 200.7	17-Jun-05	17-Jun-05	5060994	RE	
7440-50-8	Copper	141	1.06 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	419	1.06 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	39.2	1.06 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	89.0	%	1	SM2540 G Mod.	15-Jun-05	16-Jun-05	5061015	JAK	
57-12-5	Cyanide (total)	BRL	1.10 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	15-Jun-05	16-Jun-05	5061079	YV	

Sample Identification
GSP-Swale-TP-1@6'
SA29466-02

Client Project #
0032572

Matrix
Soil

Collection Date/Time
14-Jun-05 11:45

Received
15-Jun-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	79.2	1.25 mg/kg dry	1	EPA 200.7	17-Jun-05	17-Jun-05	5060994	RE	
7440-50-8	Copper	8.88	1.25 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	74.6	1.25 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	25.0	1.25 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	76.1	%	1	SM2540 G Mod.	15-Jun-05	16-Jun-05	5061015	JAK	
57-12-5	Cyanide (total)	BRL	1.30 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	15-Jun-05	16-Jun-05	5061079	YV	

Sample Identification
GSP-Swale-TP-2@3'
SA29466-03

Client Project #
0032572

Matrix
Soil

Collection Date/Time
14-Jun-05 10:25

Received
15-Jun-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	10.5	1.18 mg/kg dry	1	EPA 200.7	17-Jun-05	17-Jun-05	5060994	RE	
7440-50-8	Copper	14.7	1.18 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	16.5	1.18 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	22.9	1.18 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	80.0	%	1	SM2540 G Mod.	15-Jun-05	16-Jun-05	5061015	JAK	
57-12-5	Cyanide (total)	BRL	1.22 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	15-Jun-05	16-Jun-05	5061079	YV	

Sample Identification
GSP-Swale-TP-2@7'
SA29466-04

Client Project #
0032572

Matrix
Soil

Collection Date/Time
14-Jun-05 10:30

Received
15-Jun-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	24.2	1.12 mg/kg dry	1	EPA 200.7	17-Jun-05	17-Jun-05	5060994	RE	
7440-50-8	Copper	15.4	1.12 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	26.0	1.12 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	22.9	1.12 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	83.2	%	1	SM2540 G Mod.	15-Jun-05	16-Jun-05	5061015	JAK	
57-12-5	Cyanide (total)	BRL	1.16 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	15-Jun-05	16-Jun-05	5061079	YV	

Sample Identification
GSP-Swale-TP-3@7'
SA29466-05

Client Project #
0032572

Matrix
Soil

Collection Date/Time
14-Jun-05 13:15

Received
15-Jun-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	348	1.10 mg/kg dry	1	EPA 200.7	17-Jun-05	17-Jun-05	5060994	RE	
7440-50-8	Copper	26.0	1.10 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	75.8	1.10 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	20.0	1.10 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	84.2	%	1	SM2540 G Mod.	15-Jun-05	16-Jun-05	5061015	JAK	
57-12-5	Cyanide (total)	BRL	1.15 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	15-Jun-05	16-Jun-05	5061079	YV	

Sample Identification
GSP-Swale-TP-3@7'
SA29466-06

Client Project #
0032572

Matrix
Soil

Collection Date/Time
14-Jun-05 13:30

Received
15-Jun-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	93.2	1.22 mg/kg dry	1	EPA 200.7	17-Jun-05	17-Jun-05	5060994	RE	
7440-50-8	Copper	13.7	1.22 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	27.3	1.22 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	25.3	1.22 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	77.7	%	1	SM2540 G Mod.	15-Jun-05	16-Jun-05	5061015	JAK	
57-12-5	Cyanide (total)	BRL	1.25 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	15-Jun-05	16-Jun-05	5061079	YV	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 3 of 7

Sample Identification
GSP-Swale-TP-4@2.5'
 SA29466-07

Client Project #
 0032572

Matrix
 Soil

Collection Date/Time
 14-Jun-05 14:20

Received
 15-Jun-05

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>*RDL/Units</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Analyst</u>	<u>Flag</u>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	321	1.10 mg/kg dry	1	EPA 200.7	17-Jun-05	17-Jun-05	5060994	RE	
7440-50-8	Copper	32.9	1.10 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	45.6	1.10 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	14.6	1.10 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	86.6	%	1	SM2540 G Mod.	15-Jun-05	16-Jun-05	5061015	JAK	
57-12-5	Cyanide (total)	14.9	1.12 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	15-Jun-05	16-Jun-05	5061079	YV	

Sample Identification
GSP-Swale-TP-4@7'
 SA29466-08

Client Project #
 0032572

Matrix
 Soil

Collection Date/Time
 14-Jun-05 14:35

Received
 15-Jun-05

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>*RDL/Units</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Analyst</u>	<u>Flag</u>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	8.71	1.11 mg/kg dry	1	EPA 200.7	17-Jun-05	17-Jun-05	5060994	RE	
7440-50-8	Copper	7.83	1.11 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	7.58	1.11 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	11.8	1.11 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	84.6	%	1	SM2540 G Mod.	15-Jun-05	16-Jun-05	5061015	JAK	
12-5	Cyanide (total)	BRL	1.16 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	15-Jun-05	16-Jun-05	5061079	YV	

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5060994 - EPA 200 Series									
Blank (5060994-BLK1)			Prepared & Analyzed: 17-Jun-05						
Zinc	BRL	1.00 mg/kg wet							
Nickel	BRL	1.00 mg/kg wet							
Copper	BRL	1.00 mg/kg wet							
Chromium	BRL	1.00 mg/kg wet							
LCS (5060994-BS1)			Prepared & Analyzed: 17-Jun-05						
Zinc	0.929	0.0100 mg/kg wet	1.00		92.9	85-115			
Nickel	0.963	0.0100 mg/kg wet	1.00		96.3	85-115			
Copper	0.936	0.0100 mg/kg wet	1.00		93.6	85-115			
Chromium	0.938	0.0100 mg/kg wet	1.00		93.8	85-115			
Duplicate (5060994-DUP1)			Source: SA29466-02		Prepared & Analyzed: 17-Jun-05				
Zinc	26.0	1.15 mg/kg dry		25.0			3.92	35	
Nickel	69.6	1.15 mg/kg dry		74.6			6.93	35	
Copper	9.16	1.15 mg/kg dry		8.88			3.10	35	
Chromium	70.2	1.15 mg/kg dry		79.2			12.0	35	
Matrix Spike (5060994-MS1)			Source: SA29466-04		Prepared & Analyzed: 17-Jun-05				
Zinc	110	1.11 mg/kg dry	111	22.9	78.5	70-130			
Nickel	131	1.11 mg/kg dry	111	26.0	94.6	70-130			
Chromium	122	1.11 mg/kg dry	111	24.2	88.1	70-130			
Copper	115	1.11 mg/kg dry	111	15.4	89.7	70-130			
Matrix Spike Dup (5060994-MSD1)			Source: SA29466-04		Prepared & Analyzed: 17-Jun-05				
Zinc	117	1.12 mg/kg dry	112	22.9	84.0	70-130	6.17	35	
Nickel	130	1.12 mg/kg dry	112	26.0	92.9	70-130	0.766	35	
Chromium	122	1.12 mg/kg dry	112	24.2	87.3	70-130	0.00	35	
Copper	119	1.12 mg/kg dry	112	15.4	92.5	70-130	3.42	35	
Reference (5060994-SRM1)			Prepared & Analyzed: 17-Jun-05						
Zinc	565	1.00 mg/kg wet	637		88.7	85-115			
Copper	58.6	1.00 mg/kg wet	66.8		87.7	85-115			

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* Reportable Detection Limit BRL = Below Reporting Limit

General Chemistry Parameters - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5061015 - General Preparation									
Duplicate (5061015-DUP1)	Source: SA29468-01		Prepared: 15-Jun-05 Analyzed: 16-Jun-05						
% Solids	93.5	%		93.3			0.214	20	
Batch 5061079 - General Preparation									
Blank (5061079-BLK1)			Prepared: 15-Jun-05 Analyzed: 16-Jun-05						
Cyanide (total)	BRL	1.00 mg/kg wet							
Blank (5061079-BLK2)			Prepared: 15-Jun-05 Analyzed: 16-Jun-05						
Cyanide (total)	BRL	1.00 mg/kg wet							
LCS (5061079-BS1)			Prepared: 15-Jun-05 Analyzed: 16-Jun-05						
Cyanide (total)	29.9	1.00 mg/kg wet	30.0		99.7	90-110			
LCS (5061079-BS2)			Prepared: 15-Jun-05 Analyzed: 16-Jun-05						
Cyanide (total)	29.1	1.00 mg/kg wet	30.0		97.0	90-110			
Matrix Spike (5061079-MS1)	Source: SA29437-07		Prepared: 15-Jun-05 Analyzed: 16-Jun-05						
Cyanide (total)	34.3	1.17 mg/kg dry	35.0	0.549	96.4	75-125			
Matrix Spike Dup (5061079-MSD1)	Source: SA29437-07		Prepared: 15-Jun-05 Analyzed: 16-Jun-05						
Cyanide (total)	35.0	1.17 mg/kg dry	35.1	0.549	98.2	75-125	2.02	20	
Reference (5061079-SRM1)			Prepared: 15-Jun-05 Analyzed: 16-Jun-05						
Cyanide (total)	143	4.73 mg/kg wet	122		117	40-160			

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

Notes and Definitions

BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

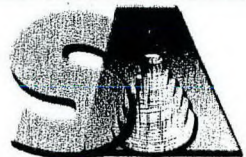
Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling: P

- ☐ Standard TAT - 7 to 10 business days
☒ Rush TAT - Date Needed: 6/17/05 PM
· All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.
· Samples disposed of after 60 days unless otherwise instructed.

Report To: ERM
5788 Widewaters Parkway
Dewitt, NY 13214

Invoice To: SAME

Project No.: 0032572

Site Name: General Super Plating

Location: Dewitt State: NY

Project Mgr.: Ed Hinchey

P.O. No.: 0032572 RQN: Special rates

Sampler(s): MN and DM

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=None 10=

Containers:

Analyses:

QA Reporting Notes:
(check if needed)

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Total Chromium	Total Copper	Total Nickel	Total Zinc	Total Cyanide
SA 010601	GSP-Swale-TP-1@2'	6/14/05	1135	G	SO	9	1				X	X	X	X	X
02	GSP-Swale-TP-1@6'	6/14/05	1145												
03	GSP-Swale-TP-2@3'		1025												
04	GSP-Swale-TP-2@7'		1030												
05	GSP-Swale-TP-3@3'		1315												
06	GSP-Swale-TP-3@7'		1330												
07	GSP-Swale-TP-4@2.5'		1420												
08	GSP-Swale-TP-4@7'		1455												

State specific reporting standards
If applicable, please list below.

- ☐ Provide MCP CAM Report
Were all field QC requirements met
as per MADEP CAM Section 2.0?
☐ Yes ☐ No
(Response required for CAM report)

☐ Fax results when available to (315) 445-2543

☐ E-mail to ed.hinchey@erm.com

EDD Format

Condition upon receipt: ☒ Iced ☐ Ambient ☐ °C if

Relinquished by:

Received by:

Date:

Time:

Michael Nigro
FedEx

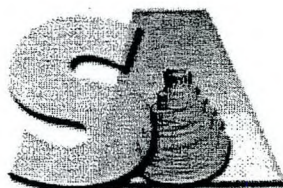
Ed Hinchey

6/14/05 1540

6/15/05 915

Report Date:
20-Jul-05 11:04

☒ Final Report



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

Environmental Resources Management
5788 Widewaters Pkwy
Dewitt, NY 13214
Attn: Ed Hinchey

Project: General Super Plating - Dewitt, NY
Project #: 0032572

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SA30535-01	GSP-Swale-TPW-1 (061705)	Ground Water	17-Jun-05 11:20	18-Jun-05 10:06
SA30535-02	GSP-Swale-TPW-2 (061705)	Ground Water	17-Jun-05 12:40	18-Jun-05 10:06
SA30535-03	GSP-Swale-TPW-3 (061705)	Ground Water	17-Jun-05 14:15	18-Jun-05 10:06
SA30535-04	GSP-Swale-TPW-4 (061705)	Ground Water	17-Jun-05 15:45	18-Jun-05 10:06

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. All applicable NELAC requirements have been met.
Please note that this report contains 6 pages of analytical data including Chain of Custody document(s).
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Massachusetts Certification # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538/2972
New York # 11393/11840
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393



Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method indicated. Please refer to our "Quality" webpage at www.spectrum-analytical.com for a full listing of our current certifications.

Sample Identification
GSP-Swale-TPW-1 (061705)
SA30535-01

Client Project #
0032572

Matrix
Ground Water

Collection Date/Time
17-Jun-05 11:20

Received
18-Jun-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	0.0040	0.0025 mg/l	1	EPA 200.7	08-Jul-05	13-Jul-05	5070413	CR	
7440-50-8	Copper	0.0053	0.0025 mg/l	1	"	"	"	"	"	
7440-02-0	Nickel	0.0812	0.0025 mg/l	1	"	"	"	"	"	
7440-66-6	Zinc	BRL	0.0400 mg/l	1	"	"	"	"	"	
General Chemistry Parameters										
57-12-5	Cyanide (total)	BRL	0.0100 mg/l	1	10-204-00-1-A / SW-846 9012A	12-Jul-05	12-Jul-05	5070633	YV	O-09

Sample Identification
GSP-Swale-TPW-2 (061705)
SA30535-02

Client Project #
0032572

Matrix
Ground Water

Collection Date/Time
17-Jun-05 12:40

Received
18-Jun-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	0.0035	0.0025 mg/l	1	EPA 200.7	08-Jul-05	13-Jul-05	5070413	CR	
7440-50-8	Copper	BRL	0.0025 mg/l	1	"	"	"	"	"	
7440-02-0	Nickel	1.15	0.0025 mg/l	1	"	"	"	"	"	
7440-66-6	Zinc	BRL	0.0400 mg/l	1	"	"	"	"	"	
General Chemistry Parameters										
57-12-5	Cyanide (total)	BRL	0.0100 mg/l	1	10-204-00-1-A / SW-846 9012A	12-Jul-05	12-Jul-05	5070633	YV	O-09

Sample Identification
GSP-Swale-TPW-3 (061705)
SA30535-03

Client Project #
0032572

Matrix
Ground Water

Collection Date/Time
17-Jun-05 14:15

Received
18-Jun-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	389	0.250 mg/l	100	EPA 200.7	08-Jul-05	14-Jul-05	5070768	CR	
7440-50-8	Copper	0.0113	0.0025 mg/l	1	"	"	13-Jul-05	5070413	"	
7440-02-0	Nickel	1.64	0.0025 mg/l	1	"	"	"	"	"	
7440-66-6	Zinc	0.371	0.0400 mg/l	1	"	"	"	"	"	
General Chemistry Parameters										
57-12-5	Cyanide (total)	0.0609	0.0100 mg/l	1	10-204-00-1-A / SW-846 9012A	12-Jul-05	12-Jul-05	5070633	YV	O-09

Sample IdentificationGSP-Swale-TPW-4 (061705)
SA30535-04Client Project #

0032572

Matrix

Ground Water

Collection Date/Time

17-Jun-05 15:45

Received

18-Jun-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	293	0.250 mg/l	100	EPA 200.7	08-Jul-05	14-Jul-05	5070768	CR	
7440-50-8	Copper	0.0200	0.0025 mg/l	1	"	"	13-Jul-05	5070413	"	
7440-02-0	Nickel	1.88	0.0025 mg/l	1	"	"	"	"	"	
7440-66-6	Zinc	0.323	0.0400 mg/l	1	"	"	"	"	"	
General Chemistry Parameters										
57-12-5	Cyanide (total)	0.0938	0.0100 mg/l	1	10-204-00-1-A / SW-846 9012A	12-Jul-05	12-Jul-05	5070633	YV	O-09

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070413 - EPA 200 Series									
Blank (5070413-BLK1)			Prepared: 08-Jul-05 Analyzed: 13-Jul-05						
Nickel	BRL	0.0025 mg/l							
Zinc	BRL	0.0400 mg/l							
Copper	BRL	0.0025 mg/l							
Chromium	BRL	0.0025 mg/l							
LCS (5070413-BS1)			Prepared: 08-Jul-05 Analyzed: 13-Jul-05						
Nickel	0.0966	0.0010 mg/l	0.100		96.6	85-115			
Zinc	0.0918	0.0025 mg/l	0.100		91.8	85-115			
Chromium	0.104	0.0010 mg/l	0.100		104	85-115			
Copper	0.0995	0.0010 mg/l	0.100		99.5	85-115			
Duplicate (5070413-DUP1)			Source: SA30541-01		Prepared: 08-Jul-05 Analyzed: 13-Jul-05				
Zinc	0.218	0.0400 mg/l		0.248			12.9	20	
Nickel	0.0042	0.0025 mg/l		0.0048			13.3	20	
Copper	2.98	0.0025 mg/l		3.10			3.95	20	
Chromium	0.0064	0.0025 mg/l		0.0066			3.08	20	
Matrix Spike (5070413-MS1)			Source: SA30542-01		Prepared: 08-Jul-05 Analyzed: 13-Jul-05				
Nickel	0.0837	0.0025 mg/l	0.100	0.0011	82.6	70-130			
Zinc	0.0924	0.0025 mg/l	0.100	0.0080	84.4	70-130			
Chromium	0.0883	0.0025 mg/l	0.100	0.0024	85.9	70-130			
Copper	0.0840	0.0025 mg/l	0.100	BRL	84.0	70-130			
Matrix Spike Dup (5070413-MSD1)			Source: SA30542-01		Prepared: 08-Jul-05 Analyzed: 13-Jul-05				
Nickel	0.0788	0.0025 mg/l	0.100	0.0011	77.7	70-130	6.03	20	
Zinc	0.0880	0.0025 mg/l	0.100	0.0080	80.0	70-130	4.88	20	
Chromium	0.0838	0.0025 mg/l	0.100	0.0024	81.4	70-130	5.23	20	
Copper	0.0839	0.0025 mg/l	0.100	BRL	83.9	70-130	0.119	20	
Batch 5070768 - EPA 200 Series									
Blank (5070768-BLK1)			Prepared: 08-Jul-05 Analyzed: 14-Jul-05						
Chromium	BRL	0.0025 mg/l							
LCS (5070768-BS1)			Prepared: 08-Jul-05 Analyzed: 14-Jul-05						
Chromium	0.0897	0.0025 mg/l	0.100		89.7	85-115			
General Chemistry Parameters - Quality Control									
Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070633 - General Preparation									
Blank (5070633-BLK1)			Prepared & Analyzed: 12-Jul-05						
Cyanide (total)	BRL	0.0100 mg/l							
LCS (5070633-BS1)			Prepared & Analyzed: 12-Jul-05						
Cyanide (total)	0.296	0.0100 mg/l	0.300		98.7	90-110			
Matrix Spike (5070633-MS1)			Source: SA30535-02		Prepared & Analyzed: 12-Jul-05				
Cyanide (total)	0.287	0.0100 mg/l	0.300	BRL	95.7	75-125			
Matrix Spike Dup (5070633-MSD1)			Source: SA30535-02		Prepared & Analyzed: 12-Jul-05				
Cyanide (total)	0.288	0.0100 mg/l	0.300	BRL	96.0	75-125	0.348	20	
Reference (5070633-SRM1)			Prepared & Analyzed: 12-Jul-05						
Cyanide (total)	0.329	0.0100 mg/l	0.333		98.8	75.7-125			

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Notes and Definitions

O-09	This sample was analyzed outside the EPA recommended holding time per client request.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

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Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

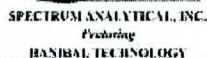
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Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown

Page 1 of 1

☒ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____

- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Sample(s): MIN

P.O. No.: 0032572 RQN: Special/Kals

QA Reporting Notes:
(check if needed)

2

Lab Id:	Sample Id:	Date:	Time:
---------	------------	-------	-------

☐ Provide MCP CAM Report
Were all field QC requirements met
as per MADEP CAM Section 2.0?
☐ Yes ☐ No
(Response required for CAM report)

SP350	535-01	CSP-Shale-TPW-1(061705)	6/17/05	1120
		R CSP-Shale-TPW-2(061705)	6/17/05	1240
		B CSP-Shale-TPW-3(061705)	6/17/05	1415
		D CSP-Shale-TPW-4(061705)	6/17/05	1545

Hand Run

↓ ↓

per client fax
cal/2005
per client fax
7/7/05
Run on past the

Relinquished by:

Received by:

Date:	Time:
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Condition upon receipt: ☒ Iced ☐ Ambient ☐ °C 5°C

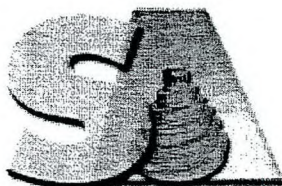
Richard J. Negro
Fed K

Que Kozik

6/17/05	1700
6/18/05	10:06 PK

Report Date:
20-Jul-05 15:15

☒ Final Report



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

Environmental Resources Management
5788 Widewaters Pkwy
Dewitt, NY 13214
Attn: Ed Hinchey

Project: General Super Plating - Dewitt, NY
Project #: 0032572

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SA30843-01	GSP-SS-TW-1 (070805)	Ground Water	08-Jul-05 12:30	11-Jul-05 08:35
SA30843-02	GSP-SS-TW-2 (070805)	Ground Water	08-Jul-05 15:10	11-Jul-05 08:35
SA30843-03	GSP-SS-TW-3 (070805)	Ground Water	08-Jul-05 11:05	11-Jul-05 08:35
SA30843-04	GSP-SS-TW-4 (070805)	Ground Water	08-Jul-05 16:10	11-Jul-05 08:35

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. All applicable NELAC requirements have been met.

Please note that this report contains 6 pages of analytical data including Chain of Custody document(s).

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Massachusetts Certification # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538/2972
New York # 11393/11840
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393



Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method indicated. Please refer to our "Quality" webpage at www.spectrum-analytical.com for a full listing of our current certifications.

Sample Identification
GSP-SS-TW-1 (070805)
SA30843-01

Client Project #
0032572

Matrix
Ground Water

Collection Date/Time
08-Jul-05 12:30

Received
11-Jul-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	181	0.0250 mg/l	10	EPA 200.7	18-Jul-05	19-Jul-05	5070997	HB	
7440-50-8	Copper	BRL	0.0250 mg/l	10	"	"	"	"	"	
7440-02-0	Nickel	BRL	0.0250 mg/l	10	"	"	"	"	"	
7440-66-6	Zinc	0.238	0.140 mg/l	10	"	"	"	"	"	
General Chemistry Parameters										
57-12-5	Cyanide (total)	0.0782	0.0100 mg/l	1	10-204-00-1-A / SW-846 9012A	18-Jul-05	19-Jul-05	5071101	YV	

Sample Identification
GSP-SS-TW-2 (070805)
SA30843-02

Client Project #
0032572

Matrix
Ground Water

Collection Date/Time
08-Jul-05 15:10

Received
11-Jul-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	0.0236	0.0025 mg/l	1	EPA 200.7	18-Jul-05	19-Jul-05	5070997	HB	
7440-50-8	Copper	0.0068	0.0025 mg/l	1	"	"	"	"	"	
7440-02-0	Nickel	0.166	0.0025 mg/l	1	"	"	"	"	"	
7440-66-6	Zinc	BRL	0.0140 mg/l	1	"	"	"	"	"	
General Chemistry Parameters										
57-12-5	Cyanide (total)	BRL	0.0100 mg/l	1	10-204-00-1-A / SW-846 9012A	18-Jul-05	19-Jul-05	5071101	YV	

Sample Identification
GSP-SS-TW-3 (070805)
SA30843-03

Client Project #
0032572

Matrix
Ground Water

Collection Date/Time
08-Jul-05 11:05

Received
11-Jul-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	0.0091	0.0025 mg/l	1	EPA 200.7	18-Jul-05	19-Jul-05	5070997	HB	
7440-50-8	Copper	BRL	0.0025 mg/l	1	"	"	"	"	"	
7440-02-0	Nickel	0.0740	0.0025 mg/l	1	"	"	"	"	"	
7440-66-6	Zinc	BRL	0.0140 mg/l	1	"	"	"	"	"	
General Chemistry Parameters										
57-12-5	Cyanide (total)	BRL	0.0100 mg/l	1	10-204-00-1-A / SW-846 9012A	18-Jul-05	19-Jul-05	5071101	YV	

Sample Identification
GSP-SS-TW-4 (070805)
SA30843-04

Client Project #
0032572

Matrix
Ground Water

Collection Date/Time
08-Jul-05 16:10

Received
11-Jul-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	0.0368	0.0025 mg/l	1	EPA 200.7	18-Jul-05	19-Jul-05	5070997	HB	
7440-50-8	Copper	0.0155	0.0025 mg/l	1	"	"	"	"	"	
7440-02-0	Nickel	0.884	0.0025 mg/l	1	"	"	"	"	"	
7440-66-6	Zinc	BRL	0.0140 mg/l	1	"	"	"	"	"	
General Chemistry Parameters										
57-12-5	Cyanide (total)	0.0252	0.0100 mg/l	1	10-204-00-1-A / SW-846 9012A	18-Jul-05	19-Jul-05	5071101	YV	

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070997 - EPA 200 Series									
Blank (5070997-BLK1)			Prepared: 18-Jul-05 Analyzed: 19-Jul-05						
Nickel	BRL	0.0025 mg/l							
Zinc	BRL	0.0140 mg/l							
Copper	BRL	0.0025 mg/l							
Chromium	BRL	0.0025 mg/l							
LCS (5070997-BS1)			Prepared: 18-Jul-05 Analyzed: 19-Jul-05						
Nickel	0.0919	0.0025 mg/l	0.100		91.9	85-115			
Zinc	0.0963	0.0025 mg/l	0.100		96.3	85-115			
Chromium	0.0990	0.0025 mg/l	0.100		99.0	85-115			
Copper	0.0888	0.0025 mg/l	0.100		88.8	85-115			
Duplicate (5070997-DUP1)			Source: SA30843-03		Prepared: 18-Jul-05 Analyzed: 19-Jul-05				
Nickel	0.0771	0.0025 mg/l		0.0740			4.10	20	
Zinc	BRL	0.0140 mg/l		0.0078			16.5	20	
Chromium	0.0086	0.0025 mg/l		0.0091			5.65	20	
Copper	BRL	0.0025 mg/l		BRL				20	
Matrix Spike (5070997-MS1)			Source: SA30834-30		Prepared: 18-Jul-05 Analyzed: 19-Jul-05				
Nickel	0.0915	0.0025 mg/l	0.100	BRL	91.5	70-130			
Zinc	0.102	0.0025 mg/l	0.100	0.0138	88.2	70-130			
Copper	0.0891	0.0025 mg/l	0.100	BRL	89.1	70-130			
Chromium	0.103	0.0025 mg/l	0.100	0.0043	98.7	70-130			
Matrix Spike Dup (5070997-MSD1)			Source: SA30834-30		Prepared: 18-Jul-05 Analyzed: 19-Jul-05				
Nickel	0.0921	0.0025 mg/l	0.100	BRL	92.1	70-130	0.654	20	
Zinc	0.0983	0.0025 mg/l	0.100	0.0138	84.5	70-130	3.69	20	
Chromium	0.104	0.0025 mg/l	0.100	0.0043	99.7	70-130	0.966	20	
Copper	0.0890	0.0025 mg/l	0.100	BRL	89.0	70-130	0.112	20	

General Chemistry Parameters - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5071101 - General Preparation									
Blank (5071101-BLK1)			Prepared: 18-Jul-05 Analyzed: 19-Jul-05						
Cyanide (total)	BRL	0.0100 mg/l							
Blank (5071101-BLK2)			Prepared: 18-Jul-05 Analyzed: 19-Jul-05						
Cyanide (total)	BRL	0.0100 mg/l							
LCS (5071101-BS1)			Prepared: 18-Jul-05 Analyzed: 19-Jul-05						
Cyanide (total)	0.305	0.0100 mg/l	0.300		102	90-110			
LCS (5071101-BS2)			Prepared: 18-Jul-05 Analyzed: 19-Jul-05						
Cyanide (total)	0.304	0.0100 mg/l	0.300		101	90-110			
Matrix Spike (5071101-MS1)			Source: SA30843-02		Prepared: 18-Jul-05 Analyzed: 19-Jul-05				
Cyanide (total)	0.306	0.0100 mg/l	0.300	BRL	102	75-125			
Matrix Spike Dup (5071101-MSD1)			Source: SA30843-02		Prepared: 18-Jul-05 Analyzed: 19-Jul-05				
Cyanide (total)	0.307	0.0100 mg/l	0.300	BRL	102	75-125	0.326	20	
Reference (5071101-SRM1)			Prepared: 18-Jul-05 Analyzed: 19-Jul-05						
Cyanide (total)	0.353	0.0100 mg/l	0.333		106	75.7-125			

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* Reportable Detection Limit

BRL = Below Reporting Limit

Notes and Definitions

BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown



SPECTRUM ANALYTICAL, INC.
Pioneering
ANALYTICAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____
 • All TATs subject to laboratory approval.
 • Min. 24-hour notification needed for rushes.
 • Samples disposed of after 60 days unless otherwise instructed.

Report To: ERM
5788 Widewaters Parkway
Dewitt, NY 13214

Invoice To: _____

Project No.: 0032572

Site Name: General Super Plating

Location: Dewitt State: NY

Project Mgr.: Ed Hinchey

P.O. No.: 0032572 RQN: Special Rates

Sampler(s): MN and RS

1=Na₂S₂O₅ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
 7=CH₃OH 8=NaHSO₄ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
 O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
 X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Total Chromium	Total Copper	Total Nickel	Total Zinc	Total Cyanide	QA Reporting Notes: (check if needed)
GSP-SS-TW-1(070805)	7/8/05 1330	G	GW	4/6						2	X	X	X	X	X	SA 30843-01
GSP-SS-TW-2(070805)	1510															-02
GSP-SS-TW-3(070805)	1105															73
GSP-SS-TW-4(070805)	1610															24

☐ Fax results when available to (315) 445-2543
☐ E-mail to ed.hinchey@erm.com
 EDD Format _____

Condition upon receipt: ☐ Iced ☐ Ambient ☒ PC 19

Relinquished by:

Michael J. Nigro
Feed Exp

Received by:

Feed Exp
Mary Demaree

Date:

7/8/05 1645
7/11/05 0835

Time:

Report Date:
21-Jun-05 10:30



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

RECEIVED

JUN 28 2005

Environmental Resources Management
5788 Widewaters Pkwy
Dewitt, NY 13214
Attn: Ed Hinchey

Project: General Super Plating - Dewitt, NY
Project #: 0032572

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SA29275-01	GSP-CON-001	Soil	07-Jun-05 14:10	08-Jun-05 09:50
SA29275-02	GSP-CON-001A	Soil	07-Jun-05 14:15	08-Jun-05 09:50
SA29275-03	GSP-CON-002	Soil	07-Jun-05 14:45	08-Jun-05 09:50
SA29275-04	GSP-CON-003	Soil	07-Jun-05 14:50	08-Jun-05 09:50
SA29275-05	GSP-CON-Dupe1	Soil	07-Jun-05 15:00	08-Jun-05 09:50

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. All applicable NELAC requirements have been met.

Please note that this report contains 9 pages of analytical data plus Chain of Custody document(s).

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New Hampshire # 2538/2972
New York # 11393/11840
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393



Authorized by

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

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ENVIRONMENTAL ANALYSES

Sample Identification

GSP-CON-001

SA29275-01

Client Project #

0032572

Matrix

Soil

Collection Date/Time

07-Jun-05 14:10

Received

08-Jun-05

<i>AS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	19.2	1.26 mg/kg dry	1	EPA 200.7	16-Jun-05	16-Jun-05	5060984	HB	
7440-50-8	Copper	15.4	1.26 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	419	1.26 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	60.1	1.26 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	73.9	%	1	SM2540 G Mod.	10-Jun-05	13-Jun-05	5060685	LK	
57-12-5	Cyanide (total)	BRL	1.32 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	13-Jun-05	13-Jun-05	5060806	JAK	

Sample Identification

GSP-CON-001A

SA29275-02

Client Project #

0032572

Matrix

Soil

Collection Date/Time

07-Jun-05 14:15

Received

08-Jun-05

<i>AS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	27.9	1.52 mg/kg dry	1	EPA 200.7	16-Jun-05	16-Jun-05	5060984	HB	
7440-50-8	Copper	40.6	1.52 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	23.3	1.52 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	74.4	1.52 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	61.1	%	1	SM2540 G Mod.	10-Jun-05	13-Jun-05	5060685	LK	
57-12-5	Cyanide (total)	BRL	1.62 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	13-Jun-05	13-Jun-05	5060806	JAK	

Sample Identification

GSP-CON-002

SA29275-03

Client Project #

0032572

Matrix

Soil

Collection Date/Time

07-Jun-05 14:45

Received

08-Jun-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	38.6	1.14 mg/kg dry	1	EPA 200.7	16-Jun-05	16-Jun-05	5060984	HB	
7440-50-8	Copper	35.6	1.14 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	79.5	1.14 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	33.3	1.14 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	80.9	%	1	SM2540 G Mod.	10-Jun-05	13-Jun-05	5060685	LK	
57-12-5	Cyanide (total)	BRL	1.23 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	14-Jun-05	14-Jun-05	5060906	YV	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 4 of 9

Sample Identification

GSP-CON-003

SA29275-04

Client Project #

0032572

Matrix

Soil

Collection Date/Time

07-Jun-05 14:50

Received

08-Jun-05

<u>EAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>*RDL/Units</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Analyst</u>	<u>Flag</u>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	279	1.06 mg/kg dry	1	EPA 200.7	16-Jun-05	16-Jun-05	5060984	HB	
7440-50-8	Copper	153	1.06 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	571	1.06 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	26.4	1.06 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	88.2	%	1	SM2540 G Mod.	10-Jun-05	13-Jun-05	5060685	LK	
57-12-5	Cyanide (total)	BRL	1.12 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	14-Jun-05	14-Jun-05	5060906	YV	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 5 of 9

Sample Identification

GSP-CON-Dupe1

SA29275-05

Client Project #

0032572

Matrix

Soil

Collection Date/Time

07-Jun-05 15:00

Received

08-Jun-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	558	1.15 mg/kg dry	1	EPA 200.7	16-Jun-05	16-Jun-05	5060984	HB	
7440-50-8	Copper	193	1.15 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	941	1.15 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	60.8	1.15 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	78.5	%	1	SM2540 G Mod.	10-Jun-05	13-Jun-05	5060685	LK	
57-12-5	Cyanide (total)	BRL	1.26 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	14-Jun-05	14-Jun-05	5060906	YV	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 6 of 9

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5060984 - EPA 200 Series									
Blank (5060984-BLK1)			Prepared & Analyzed: 16-Jun-05						
Zinc	BRL	1.00 mg/kg wet							
Nickel	BRL	1.00 mg/kg wet							
Copper	BRL	1.00 mg/kg wet							
Chromium	BRL	1.00 mg/kg wet							
LCS (5060984-BS1)			Prepared & Analyzed: 16-Jun-05						
Nickel	0.990	0.0100 mg/kg wet	1.00		99.0	85-115			
Zinc	0.980	0.0100 mg/kg wet	1.00		98.0	85-115			
Chromium	0.959	0.0100 mg/kg wet	1.00		95.9	85-115			
Copper	0.988	0.0100 mg/kg wet	1.00		98.8	85-115			
Duplicate (5060984-DUP1)			Source: SA29188-01		Prepared & Analyzed: 16-Jun-05				
Nickel	10.5	1.25 mg/kg dry		10.1			3.88	35	
Zinc	275	1.25 mg/kg dry		300			8.70	35	
Chromium	18.4	1.25 mg/kg dry		13.0			34.4	35	
Copper	81.0	1.25 mg/kg dry		64.7			22.4	35	
Duplicate (5060984-DUP2)			Source: SA29312-01		Prepared & Analyzed: 16-Jun-05				
Nickel	7.10	0.923 mg/kg dry		7.25			2.09	35	
Zinc	32.7	0.923 mg/kg dry		35.3			7.65	35	
Chromium	6.71	0.923 mg/kg dry		7.88			16.0	35	
Copper	87.9	0.923 mg/kg dry		300			109	35	QR-05
Matrix Spike (5060984-MS1)			Source: SA29497-01		Prepared & Analyzed: 16-Jun-05				
Nickel	125	0.972 mg/kg dry	97.2	10.4	118	70-130			
Zinc	201	0.972 mg/kg dry	97.2	21.2	185	70-130			QM-07
Chromium	165	0.972 mg/kg dry	97.2	11.3	158	70-130			QM-07
Copper	168	0.972 mg/kg dry	97.2	12.7	160	70-130			QM-07
Matrix Spike (5060984-MS2)			Source: SA29292-01		Prepared & Analyzed: 16-Jun-05				
Nickel	97.8	0.988 mg/kg dry	98.8	68.4	29.8	70-130			QM-07
Zinc	109	0.988 mg/kg dry	98.8	391	NR	70-130			QM-07
Chromium	97.2	0.988 mg/kg dry	98.8	153	NR	70-130			QM-07
Copper	106	0.988 mg/kg dry	98.8	218	NR	70-130			QM-07
Matrix Spike Dup (5060984-MSD1)			Source: SA29497-01		Prepared & Analyzed: 16-Jun-05				
Zinc	284	0.999 mg/kg dry	99.9	21.2	263	70-130	34.2	35	QM-07
Nickel	144	0.999 mg/kg dry	99.9	10.4	134	70-130	14.1	35	QM-07
Chromium	203	0.999 mg/kg dry	99.9	11.3	192	70-130	20.7	35	QM-07
Copper	210	0.999 mg/kg dry	99.9	12.7	197	70-130	22.2	35	QM-07
Matrix Spike Dup (5060984-MSD2)			Source: SA29292-01		Prepared & Analyzed: 16-Jun-05				
Zinc	113	0.985 mg/kg dry	98.5	391	NR	70-130	3.60	35	QM-07
Nickel	99.1	0.985 mg/kg dry	98.5	68.4	31.2	70-130	1.32	35	QM-07
Chromium	99.2	0.985 mg/kg dry	98.5	153	NR	70-130	2.04	35	QM-07
Copper	108	0.985 mg/kg dry	98.5	218	NR	70-130	1.87	35	QM-07
Reference (5060984-SRM1)			Prepared & Analyzed: 16-Jun-05						
Nickel	46.4	1.00 mg/kg wet	51.0		91.0	85-115			
Zinc	612	1.00 mg/kg wet	640		95.6	85-115			
Chromium	52.1	1.00 mg/kg wet	57.0		91.4	85-115			
Copper	69.0	1.00 mg/kg wet	67.0		103	85-115			

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 7 of 9

General Chemistry Parameters - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0506146 - 5060806									
Initial Cal Blank (0506146-ICB1)			Prepared & Analyzed: 17-Jun-05						
Cyanide (total)	0.00	mg/kg wet							
Initial Cal Check (0506146-ICV1)			Prepared & Analyzed: 17-Jun-05						
Cyanide (total)	0.313	mg/kg wet	0.300		104	0-200			
Batch 5060685 - General Preparation									
Duplicate (5060685-DUP1)			Source: SA29285-01		Prepared: 10-Jun-05 Analyzed: 13-Jun-05				
% Solids	79.2	%		79.0			0.253	20	
Batch 5060806 - General Preparation									
Blank (5060806-BLK1)			Prepared & Analyzed: 13-Jun-05						
Cyanide (total)	BRL	1.00 mg/kg wet							
LCS (5060806-BS1)			Prepared & Analyzed: 13-Jun-05						
Cyanide (total)	31.3	1.00 mg/kg wet	30.0		104	90-110			
Matrix Spike (5060806-MS1)			Source: SA29285-02		Prepared & Analyzed: 13-Jun-05				
Cyanide (total)	33.4	1.07 mg/kg dry	32.1	BRL	104	75-125			
Matrix Spike Dup (5060806-MSD1)			Source: SA29285-02		Prepared & Analyzed: 13-Jun-05				
Cyanide (total)	32.7	1.06 mg/kg dry	31.9	BRL	103	75-125	2.12	20	
Reference (5060806-SRM1)			Prepared & Analyzed: 13-Jun-05						
Cyanide (total)	178	4.71 mg/kg wet	122		146	40-160			
Batch 5060906 - General Preparation									
Blank (5060906-BLK1)			Prepared & Analyzed: 14-Jun-05						
Cyanide (total)	BRL	1.00 mg/kg wet							
Blank (5060906-BLK2)			Prepared & Analyzed: 14-Jun-05						
Cyanide (total)	BRL	1.00 mg/kg wet							
Blank (5060906-BLK3)			Prepared & Analyzed: 14-Jun-05						
Cyanide (total)	BRL	1.00 mg/kg wet							
LCS (5060906-BS1)			Prepared & Analyzed: 14-Jun-05						
Cyanide (total)	29.3	1.00 mg/kg wet	30.0		97.7	90-110			
LCS (5060906-BS2)			Prepared & Analyzed: 14-Jun-05						
Cyanide (total)	29.0	1.00 mg/kg wet	30.0		96.7	90-110			
LCS (5060906-BS3)			Prepared & Analyzed: 14-Jun-05						
Cyanide (total)	27.8	1.00 mg/kg wet	30.0		92.7	90-110			
Matrix Spike (5060906-MS1)			Source: SA29333-11		Prepared & Analyzed: 14-Jun-05				
Cyanide (total)	35.9	1.18 mg/kg dry	35.5	BRL	101	75-125			
Matrix Spike Dup (5060906-MSD1)			Source: SA29333-11		Prepared & Analyzed: 14-Jun-05				
Cyanide (total)	35.9	1.17 mg/kg dry	35.2	BRL	102	75-125	0.00	20	
Reference (5060906-SRM1)			Prepared & Analyzed: 14-Jun-05						
Cyanide (total)	39.0	1.00 mg/kg wet	26.5		147	40-160			

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 8 of 9

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR-05	RPD out of acceptance range.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown



CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____
 • All TATs subject to laboratory approval.
 Min. 24-hour notification needed for rushes.
 • Samples disposed of after 60 days unless otherwise instructed.

Report To: ERM
5788 Widewaters Parkway
Dewitt, N.Y. 13214

Invoice To: SAME
1000 S. 500 E. 100 N.

Project No.: 0032572

Site Name: General Super Plating

Location: Dewitt, N.Y. State: _____

Project Mgr.: Ed Hinchey

P.O. No.: 0031572 RQN: _____

Sampler(s): David W. Myers

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
 7=CH₃OH 8=NaHSO₄ 9=ICE 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
 O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
 X1=_____ X2=_____ X3=_____

Containers:

Analyses:

QA Reporting Notes:

(check if needed)

State specific reporting standards
 If applicable, please list below.

- ☐ Provide MCP CAM Report
 Were all field QC requirements met
 as per MADEP CAM Section 2.0?
☐ Yes ☐ No
 (Response required for CAM report)

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Total Chromium	Nickel	Copper	Zinc	Total Cyanide
29275-01	GSP-CON-001	6/7/05	14:10	G	SO	9	1	+			X	X	X	X	X
- 02	GSP-CON-001A		14:15	G	SO	9	1	+			X	X	X	X	X
- 03	GSP-CON-002		14:45	G	SO	9	1	+			X	X	X	X	X
- 04	GSP-CON-003		14:50	G	SO	9	1	+			X	X	X	X	X
- 05	GSP-CON-DUPE1		15:00	G	SO	9	1	+			X	X	X	X	X

Relinquished by:

Received by:

☒ Fax results when available to (315) 445-2543
☒ E-mail to ed.hinchey@erm.com
 EDD Format _____

Condition upon receipt: ☐ Iced ☐ Ambient ☐ °C 2

David W. Myers
FedEx

W. Knowles

Date: _____ Time: _____

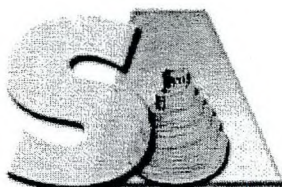
6/7/05 16:45

6/8/05 950

*not needed per client
 Needs to have NYS
 ASP level B 6/8/05
 deliverable package*

Report Date:
20-Jul-05 15:15

☒ Final Report



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

Environmental Resources Management
5788 Widewaters Pkwy
Dewitt, NY 13214
Attn: Ed Hinchey

Project: General Super Plating - Dewitt, NY
Project #: 0032572

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SA30843-01	GSP-SS-TW-1 (070805)	Ground Water	08-Jul-05 12:30	11-Jul-05 08:35
SA30843-02	GSP-SS-TW-2 (070805)	Ground Water	08-Jul-05 15:10	11-Jul-05 08:35
SA30843-03	GSP-SS-TW-3 (070805)	Ground Water	08-Jul-05 11:05	11-Jul-05 08:35
SA30843-04	GSP-SS-TW-4 (070805)	Ground Water	08-Jul-05 16:10	11-Jul-05 08:35

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. All applicable NELAC requirements have been met.

Please note that this report contains 6 pages of analytical data including Chain of Custody document(s).

This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Massachusetts Certification # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538/2972
New York # 11393/11840
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393



Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method indicated. Please refer to our "Quality" webpage at www.spectrum-analytical.com for a full listing of our current certifications.

Sample Identification
GSP-SS-TW-1 (070805)
SA30843-01

Client Project #
0032572

Matrix
Ground Water

Collection Date/Time
08-Jul-05 12:30

Received
11-Jul-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	181	0.0250 mg/l	10	EPA 200.7	18-Jul-05	19-Jul-05	5070997	HB	
7440-50-8	Copper	BRL	0.0250 mg/l	10	"	"	"	"	"	
7440-02-0	Nickel	BRL	0.0250 mg/l	10	"	"	"	"	"	
7440-66-6	Zinc	0.238	0.140 mg/l	10	"	"	"	"	"	
General Chemistry Parameters										
57-12-5	Cyanide (total)	0.0782	0.0100 mg/l	1	10-204-00-1-A / SW-846 9012A	18-Jul-05	19-Jul-05	5071101	YV	

Sample Identification
GSP-SS-TW-2 (070805)
SA30843-02

Client Project #
0032572

Matrix
Ground Water

Collection Date/Time
08-Jul-05 15:10

Received
11-Jul-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	0.0236	0.0025 mg/l	1	EPA 200.7	18-Jul-05	19-Jul-05	5070997	HB	
7440-50-8	Copper	0.0068	0.0025 mg/l	1	"	"	"	"	"	
7440-02-0	Nickel	0.166	0.0025 mg/l	1	"	"	"	"	"	
7440-66-6	Zinc	BRL	0.0140 mg/l	1	"	"	"	"	"	
General Chemistry Parameters										
57-12-5	Cyanide (total)	BRL	0.0100 mg/l	1	10-204-00-1-A / SW-846 9012A	18-Jul-05	19-Jul-05	5071101	YV	

Sample Identification
GSP-SS-TW-3 (070805)
SA30843-03

Client Project #
0032572

Matrix
Ground Water

Collection Date/Time
08-Jul-05 11:05

Received
11-Jul-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	0.0091	0.0025 mg/l	1	EPA 200.7	18-Jul-05	19-Jul-05	5070997	HB	
7440-50-8	Copper	BRL	0.0025 mg/l	1	"	"	"	"	"	
7440-02-0	Nickel	0.0740	0.0025 mg/l	1	"	"	"	"	"	
7440-66-6	Zinc	BRL	0.0140 mg/l	1	"	"	"	"	"	
General Chemistry Parameters										
57-12-5	Cyanide (total)	BRL	0.0100 mg/l	1	10-204-00-1-A / SW-846 9012A	18-Jul-05	19-Jul-05	5071101	YV	

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

Page 2 of 6

Sample Identification
GSP-SS-TW-4 (070805)
SA30843-04

Client Project #
0032572

Matrix
Ground Water

Collection Date/Time
08-Jul-05 16:10

Received
11-Jul-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	0.0368	0.0025 mg/l	1	EPA 200.7	18-Jul-05	19-Jul-05	5070997	HB	
7440-50-8	Copper	0.0155	0.0025 mg/l	1	"	"	"	"	"	
7440-02-0	Nickel	0.884	0.0025 mg/l	1	"	"	"	"	"	
7440-66-6	Zinc	BRL	0.0140 mg/l	1	"	"	"	"	"	
General Chemistry Parameters										
57-12-5	Cyanide (total)	0.0252	0.0100 mg/l	1	10-204-00-1-A / SW-846 9012A	18-Jul-05	19-Jul-05	5071101	YV	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 3 of 6

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070997 - EPA 200 Series									
Blank (5070997-BLK1)			Prepared: 18-Jul-05 Analyzed: 19-Jul-05						
Nickel	BRL	0.0025 mg/l							
Zinc	BRL	0.0140 mg/l							
Copper	BRL	0.0025 mg/l							
Chromium	BRL	0.0025 mg/l							
LCS (5070997-BS1)			Prepared: 18-Jul-05 Analyzed: 19-Jul-05						
Nickel	0.0919	0.0025 mg/l	0.100		91.9	85-115			
Zinc	0.0963	0.0025 mg/l	0.100		96.3	85-115			
Chromium	0.0990	0.0025 mg/l	0.100		99.0	85-115			
Copper	0.0888	0.0025 mg/l	0.100		88.8	85-115			
Duplicate (5070997-DUP1)			Source: SA30843-03		Prepared: 18-Jul-05 Analyzed: 19-Jul-05				
Nickel	0.0771	0.0025 mg/l		0.0740			4.10	20	
Zinc	BRL	0.0140 mg/l		0.0078			16.5	20	
Chromium	0.0086	0.0025 mg/l		0.0091			5.65	20	
Copper	BRL	0.0025 mg/l		BRL				20	
Matrix Spike (5070997-MS1)			Source: SA30834-30		Prepared: 18-Jul-05 Analyzed: 19-Jul-05				
Nickel	0.0915	0.0025 mg/l	0.100	BRL	91.5	70-130			
Zinc	0.102	0.0025 mg/l	0.100	0.0138	88.2	70-130			
Copper	0.0891	0.0025 mg/l	0.100	BRL	89.1	70-130			
Chromium	0.103	0.0025 mg/l	0.100	0.0043	98.7	70-130			
Matrix Spike Dup (5070997-MSD1)			Source: SA30834-30		Prepared: 18-Jul-05 Analyzed: 19-Jul-05				
Nickel	0.0921	0.0025 mg/l	0.100	BRL	92.1	70-130	0.654	20	
Zinc	0.0983	0.0025 mg/l	0.100	0.0138	84.5	70-130	3.69	20	
Chromium	0.104	0.0025 mg/l	0.100	0.0043	99.7	70-130	0.966	20	
Copper	0.0890	0.0025 mg/l	0.100	BRL	89.0	70-130	0.112	20	

General Chemistry Parameters - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5071101 - General Preparation									
Blank (5071101-BLK1)			Prepared: 18-Jul-05 Analyzed: 19-Jul-05						
Cyanide (total)	BRL	0.0100 mg/l							
Blank (5071101-BLK2)			Prepared: 18-Jul-05 Analyzed: 19-Jul-05						
Cyanide (total)	BRL	0.0100 mg/l							
LCS (5071101-BS1)			Prepared: 18-Jul-05 Analyzed: 19-Jul-05						
Cyanide (total)	0.305	0.0100 mg/l	0.300		102	90-110			
LCS (5071101-BS2)			Prepared: 18-Jul-05 Analyzed: 19-Jul-05						
Cyanide (total)	0.304	0.0100 mg/l	0.300		101	90-110			
Matrix Spike (5071101-MS1)			Source: SA30843-02		Prepared: 18-Jul-05 Analyzed: 19-Jul-05				
Cyanide (total)	0.306	0.0100 mg/l	0.300	BRL	102	75-125			
Matrix Spike Dup (5071101-MSD1)			Source: SA30843-02		Prepared: 18-Jul-05 Analyzed: 19-Jul-05				
Cyanide (total)	0.307	0.0100 mg/l	0.300	BRL	102	75-125	0.326	20	
Reference (5071101-SRM1)			Prepared: 18-Jul-05 Analyzed: 19-Jul-05						
Cyanide (total)	0.353	0.0100 mg/l	0.333		106	75.7-125			

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Notes and Definitions

BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

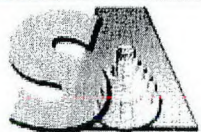
Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown



SPECTRUM ANALYTICAL, INC.
Forteone
HASIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____
 • All TATs subject to laboratory approval.
 • Min. 24-hour notification needed for rushes.
 • Samples disposed of after 60 days unless otherwise instructed.

Report To: ERM
5788 Widewaters Parkway
Dewitt, NY 13214

Invoice To: _____

Project No.: 0032572

Site Name: General Super Plating

Location: Dewitt

State: NY

Project Mgr.: Ed Hinchey

P.O. No.: 0032572 RQN: Special Rates

Sample(s): MN and RS

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
 7=CH₃OH 8=NaHSO₄ 9= _____ 10= _____

DW=Drinking Water GW=Groundwater WW=Wastewater
 O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
 X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Total Chromium	Total Copper	Total Nickel	Total Zinc	Total Cyanide	OA Reporting Notes: (check if needed)
GSP-SS-TW-1(070805)	7/8/05	1230	G	GN	4/5					2	X	X	X	X	X	SA30843-01
GSP-SS-TW-2(070805)		1510														-02
GSP-SS-TW-3(070805)		1105														-03
GSP-SS-TW-4(070805)		1610														-24

☐ Fax results when available to (315) 445-0543

☐ E-mail to ed.hinchey@erm.com

EDD Format _____

Condition upon receipt: ☐ Iced ☐ Ambient ☒ PC 19

Relinquished by:

Michael J. Nigro
Field Exp

Received by:

Ed Hinchey
Managing Director

Date:

7/8/05

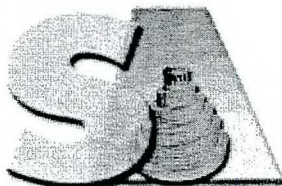
Time:

1645

7/11/05 0835

Report Date:
22-Jul-05 14:11

☒ Final Report



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

Environmental Resources Management
5788 Widewaters Pkwy
Dewitt, NY 13214
Attn: Ed Hinchey

Project: General Super Plating - Dewitt, NY
Project #: 0032572

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SA30573-01	GSP-SSS-B-12 (0-6")	Soil	05-Jul-05 10:00	08-Jul-05 08:30
SA30573-02	GSP-SSS-B-12 (12-18")	Soil	05-Jul-05 10:00	08-Jul-05 08:30
SA30573-03	GSP-SSS-B-4 (0-6")	Soil	05-Jul-05 11:55	08-Jul-05 08:30
SA30573-04	GSP-SSS-B-4 (12-18")	Soil	05-Jul-05 11:55	08-Jul-05 08:30
SA30573-05	GSP-SSS-B-9 (0-6")	Soil	05-Jul-05 14:25	08-Jul-05 08:30
SA30573-06	GSP-SSS-B-9 (12-18")	Soil	05-Jul-05 14:25	08-Jul-05 08:30
SA30573-07	GSP-SSS-B-1 (0-6")	Soil	06-Jul-05 09:40	08-Jul-05 08:30
SA30573-08	GSP-SSS-B-1 (12-18")	Soil	06-Jul-05 09:40	08-Jul-05 08:30
SA30573-09	GSP-SSS-B-5 (0-6")	Soil	06-Jul-05 11:05	08-Jul-05 08:30
SA30573-10	GSP-SSS-B-5 (12-18")	Soil	06-Jul-05 11:05	08-Jul-05 08:30
SA30573-11	GSP-SSS-B-6 (0-6")	Soil	06-Jul-05 11:50	08-Jul-05 08:30
SA30573-12	GSP-SSS-B-6 (12-18")	Soil	06-Jul-05 11:50	08-Jul-05 08:30
SA30573-13	GSP-SSS-B-2 (0-6")	Soil	06-Jul-05 12:35	08-Jul-05 08:30
SA30573-14	GSP-SSS-B-2 (12-18")	Soil	06-Jul-05 12:35	08-Jul-05 08:30
SA30573-15	GSP-SSS-B-7 (0-6")	Soil	06-Jul-05 15:00	08-Jul-05 08:30
SA30573-16	GSP-SSS-B-7 (12-18")	Soil	06-Jul-05 15:00	08-Jul-05 08:30
SA30573-17	GSP-SSS-B-3 (0-6")	Soil	06-Jul-05 15:45	08-Jul-05 08:30
SA30573-18	GSP-SSS-B-3 (12-18")	Soil	06-Jul-05 15:45	08-Jul-05 08:30
SA30573-19	GSP-SSS-B-8 (0-6")	Soil	07-Jul-05 09:35	08-Jul-05 08:30
SA30573-20	GSP-SSS-B-8 (12-18")	Soil	07-Jul-05 09:35	08-Jul-05 08:30
SA30573-21	GSP-SSS-B-10 (0-6")	Soil	07-Jul-05 10:30	08-Jul-05 08:30
SA30573-22	GSP-SSS-B-10 (12-18")	Soil	07-Jul-05 10:30	08-Jul-05 08:30
SA30573-23	GSP-SSS-B-11 (0-6")	Soil	07-Jul-05 11:15	08-Jul-05 08:30
SA30573-24	GSP-SSS-B-11 (12-18")	Soil	07-Jul-05 11:15	08-Jul-05 08:30
SA30573-25	GSP-SSS-B-4 (0-6")	Soil	07-Jul-05 12:15	08-Jul-05 08:30
SA30573-26	GSP-SSS-B-4 (0-6")	Soil	07-Jul-05 12:55	08-Jul-05 08:30

Sample Identification
GSP-SSS-B-12 (0-6")
SA30573-01

Client Project #
0032572

Matrix
Soil

Collection Date/Time
05-Jul-05 10:00

Received
08-Jul-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	398	0.627 mg/kg dry	1	EPA 200.7	14-Jul-05	15-Jul-05	5070766	HB	
7440-50-8	Copper	1,260	0.627 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	492	0.627 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	58.6	0.627 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	79.1	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070619	BD	
57-12-5	Cyanide (total)	BRL	1.23 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	11-Jul-05	12-Jul-05	5070630	YV	

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-12 (12-18")
SA30573-02

Client Project #
0032572

Matrix
Soil

Collection Date/Time
05-Jul-05 10:00

Received
08-Jul-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	24.1	0.542 mg/kg dry	1	EPA 200.7	14-Jul-05	15-Jul-05	5070766	HB	
7440-50-8	Copper	60.7	0.542 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	33.9	0.542 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	31.0	0.542 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	89.8	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070619	BD	
57-12-5	Cyanide (total)	BRL	1.06 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	11-Jul-05	12-Jul-05	5070630	YV	

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-4 (0-6")
SA30573-03

Client Project #
0032572

Matrix
Soil

Collection Date/Time
05-Jul-05 11:55

Received
08-Jul-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	1,300	11.0 mg/kg dry	20	EPA 200.7	14-Jul-05	15-Jul-05	5070766	HB	
7440-50-8	Copper	87,400	11.0 mg/kg dry	20	"	"	"	"	"	
7440-02-0	Nickel	5,780	11.0 mg/kg dry	20	"	"	"	"	"	
7440-66-6	Zinc	41.8	11.0 mg/kg dry	20	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	91.1	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070619	BD	
57-12-5	Cyanide (total)	BRL	1.09 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	11-Jul-05	12-Jul-05	5070630	YV	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-4 (12-18")
SA30573-04

Client Project #
0032572

Matrix
Soil

Collection Date/Time
05-Jul-05 11:55

Received
08-Jul-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	9.29	0.558 mg/kg dry	1	EPA 200.7	14-Jul-05	15-Jul-05	5070766	HB	
7440-50-8	Copper	91.8	0.558 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	1,300	0.558 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	16.0	0.558 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	88.4	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070619	BD	
57-12-5	Cyanide (total)	BRL	1.12 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	13-Jul-05	14-Jul-05	5070847	YV	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-9 (0-6")
SA30573-05

Client Project #
0032572

Matrix
Soil

Collection Date/Time
05-Jul-05 14:25

Received
08-Jul-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	18.0	0.530 mg/kg dry	1	EPA 200.7	14-Jul-05	15-Jul-05	5070766	HB	
7440-50-8	Copper	73.1	0.530 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	40.1	0.530 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	39.7	0.530 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	92.3	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070619	BD	
57-12-5	Cyanide (total)	BRL	1.08 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	13-Jul-05	14-Jul-05	5070847	YV	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-9 (12-18")
SA30573-06

Client Project #
0032572

Matrix
Soil

Collection Date/Time
05-Jul-05 14:25

Received
08-Jul-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	10.9	0.547 mg/kg dry	1	EPA 200.7	14-Jul-05	15-Jul-05	5070766	HB	
7440-50-8	Copper	56.1	0.547 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	35.7	0.547 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	44.0	0.547 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	90.6	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070619	BD	
57-12-5	Cyanide (total)	BRL	1.06 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	13-Jul-05	14-Jul-05	5070847	YV	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-1 (0-6")
SA30573-07

Client Project #
0032572

Matrix
Soil

Collection Date/Time
06-Jul-05 09:40

Received
08-Jul-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	546	0.546 mg/kg dry	1	EPA 200.7	18-Jul-05	21-Jul-05	5070796	HB	
7440-50-8	Copper	132	0.546 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	969	0.546 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	745	0.546 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	89.4	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070619	BD	
57-12-5	Cyanide (total)	1.72	1.10 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	13-Jul-05	14-Jul-05	5070847	YV	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-1 (12-18")
SA30573-08

Client Project #
0032572

Matrix
Soil

Collection Date/Time
06-Jul-05 09:40

Received
08-Jul-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	51.9	0.537 mg/kg dry	1	EPA 200.7	18-Jul-05	21-Jul-05	5070796	HB	
7440-50-8	Copper	51.7	0.537 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	54.3	0.537 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	46.6	0.537 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	90.5	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070619	BD	
57-12-5	Cyanide (total)	BRL	1.10 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	13-Jul-05	14-Jul-05	5070847	YV	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-5 (0-6")
SA30573-09

Client Project #
0032572

Matrix
Soil

Collection Date/Time
06-Jul-05 11:05

Received
08-Jul-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	10.5	0.542 mg/kg dry	1	EPA 200.7	18-Jul-05	21-Jul-05	5070796	HB	
7440-50-8	Copper	57.8	0.542 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	33.8	0.542 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	41.2	0.542 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	92.2	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070619	BD	
57-12-5	Cyanide (total)	BRL	1.07 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	13-Jul-05	14-Jul-05	5070847	YV	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-5 (12-18")
SA30573-10

Client Project #
0032572

Matrix
Soil

Collection Date/Time
06-Jul-05 11:05

Received
08-Jul-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	41.5	0.505 mg/kg dry	1	EPA 200.7	18-Jul-05	21-Jul-05	5070796	HB	
7440-50-8	Copper	137	0.505 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	109	0.505 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	671	0.505 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	94.6	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070619	BD	
57-12-5	Cyanide (total)	BRL	1.02 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	13-Jul-05	14-Jul-05	5070847	YV	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-6 (0-6")
SA30573-11

Client Project #
0032572

Matrix
Soil

Collection Date/Time
06-Jul-05 11:50

Received
08-Jul-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	10.9	0.530 mg/kg dry	1	EPA 200.7	18-Jul-05	21-Jul-05	5070796	HB	
7440-50-8	Copper	54.1	0.530 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	32.3	0.530 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	37.5	0.530 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	92.7	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070619	BD	
57-12-5	Cyanide (total)	BRL	1.04 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	13-Jul-05	14-Jul-05	5070847	YV	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-6 (12-18")
SA30573-12

Client Project #
0032572

Matrix
Soil

Collection Date/Time
06-Jul-05 11:50

Received
08-Jul-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	7.32	0.525 mg/kg dry	1	EPA 200.7	18-Jul-05	21-Jul-05	5070796	HB	
7440-50-8	Copper	63.9	0.525 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	27.6	0.525 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	36.1	0.525 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	93.8	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070619	BD	
57-12-5	Cyanide (total)	BRL	1.04 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	14-Jul-05	14-Jul-05	5070848	YV	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-2 (0-6")
SA30573-13

Client Project #
0032572

Matrix
Soil

Collection Date/Time
06-Jul-05 12:35

Received
08-Jul-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	15.9	0.553 mg/kg dry	1	EPA 200.7	18-Jul-05	21-Jul-05	5070796	HB	
7440-50-8	Copper	61.2	0.553 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	13.4	0.553 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	21.3	0.553 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	88.7	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070619	BD	
57-12-5	Cyanide (total)	BRL	1.10 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	14-Jul-05	14-Jul-05	5070848	YV	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-2 (12-18")
SA30573-14

Client Project #
0032572

Matrix
Soil

Collection Date/Time
06-Jul-05 12:35

Received
08-Jul-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	21.5	0.573 mg/kg dry	1	EPA 200.7	18-Jul-05	21-Jul-05	5070796	HB	
7440-50-8	Copper	16.0	0.573 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	14.1	0.573 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	BRL	16.0 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	84.2	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070619	BD	
57-12-5	Cyanide (total)	BRL	1.18 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	14-Jul-05	14-Jul-05	5070848	YV	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-7 (0-6")
SA30573-15

Client Project #
0032572

Matrix
Soil

Collection Date/Time
06-Jul-05 15:00

Received
08-Jul-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	21.2	0.550 mg/kg dry	1	EPA 200.7	18-Jul-05	21-Jul-05	5070796	HB	
7440-50-8	Copper	13.3	0.550 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	18.7	0.550 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	27.7	0.550 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	89.8	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070619	BD	
57-12-5	Cyanide (total)	BRL	1.10 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	14-Jul-05	14-Jul-05	5070848	YV	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-7 (12-18'')
SA30573-16

Client Project #
0032572

Matrix
Soil

Collection Date/Time
06-Jul-05 15:00

Received
08-Jul-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	169	0.525 mg/kg dry	1	EPA 200.7	18-Jul-05	21-Jul-05	5070796	HB	
7440-50-8	Copper	11.9	0.525 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	124	0.525 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	29.2	0.525 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	92.8	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070619	BD	
57-12-5	Cyanide (total)	BRL	1.05 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	14-Jul-05	14-Jul-05	5070848	YV	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-3 (0-6")
SA30573-17

Client Project #
0032572

Matrix
Soil

Collection Date/Time
06-Jul-05 15:45

Received
08-Jul-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	19.1	0.547 mg/kg dry	1	EPA 200.7	18-Jul-05	21-Jul-05	5070796	HB	
7440-50-8	Copper	113	0.547 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	29.3	0.547 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	30.3	0.547 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	88.9	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070619	BD	
57-12-5	Cyanide (total)	1.66	1.12 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	14-Jul-05	14-Jul-05	5070848	YV	

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-3 (12-18")
SA30573-18

Client Project #
0032572

Matrix
Soil

Collection Date/Time
06-Jul-05 15:45

Received
08-Jul-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	13.7	0.621 mg/kg dry	1	EPA 200.7	18-Jul-05	21-Jul-05	5070796	HB	
7440-50-8	Copper	25.2	0.621 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	16.4	0.621 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	34.1	0.621 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	80.2	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070619	BD	
57-12-5	Cyanide (total)	BRL	1.22 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	14-Jul-05	14-Jul-05	5070848	YV	

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-8 (0-6")
SA30573-19

Client Project #
0032572

Matrix
Soil

Collection Date/Time
07-Jul-05 09:35

Received
08-Jul-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	22.9	0.540 mg/kg dry	1	EPA 200.7	18-Jul-05	21-Jul-05	5070796	HB	
7440-50-8	Copper	59.8	0.540 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	18.5	0.540 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	34.4	0.540 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	90.1	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070619	BD	
57-12-5	Cyanide (total)	BRL	1.07 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	14-Jul-05	14-Jul-05	5070848	YV	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-8 (12-18")
SA30573-20

Client Project #
0032572

Matrix
Soil

Collection Date/Time
07-Jul-05 09:35

Received
08-Jul-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	338	0.535 mg/kg dry	1	EPA 200.7	18-Jul-05	21-Jul-05	5070796	HB	
7440-50-8	Copper	855	0.535 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	412	0.535 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	52.9	0.535 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	92.5	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070619	BD	
57-12-5	Cyanide (total)	BRL	1.06 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	14-Jul-05	14-Jul-05	5070848	YV	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-10 (0-6")
SA30573-21

Client Project #
0032572

Matrix
Soil

Collection Date/Time
07-Jul-05 10:30

Received
08-Jul-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	65.5	0.535 mg/kg dry	1	EPA 200.7	18-Jul-05	21-Jul-05	5070796	HB	
7440-50-8	Copper	55.3	0.535 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	78.5	0.535 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	41.6	0.535 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	92.4	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070621	BD	
57-12-5	Cyanide (total)	BRL	1.05 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	14-Jul-05	14-Jul-05	5070848	YV	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-10 (12-18")
SA30573-22

Client Project #
0032572

Matrix
Soil

Collection Date/Time
07-Jul-05 10:30

Received
08-Jul-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	34.0	0.529 mg/kg dry	1	EPA 200.7	18-Jul-05	21-Jul-05	5070796	HB	
7440-50-8	Copper	102	0.529 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	560	0.529 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	65.7	0.529 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	91.1	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070621	BD	
57-12-5	Cyanide (total)	2.82	1.06 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	14-Jul-05	14-Jul-05	5070848	YV	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification
 GSP-SSS-B-11 (0-6")
 SA30573-23

Client Project #
 0032572

Matrix
 Soil

Collection Date/Time
 07-Jul-05 11:15

Received
 08-Jul-05

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>*RDL/Units</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>	<i>Flag</i>
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	13.0	0.522 mg/kg dry	1	EPA 200.7	18-Jul-05	21-Jul-05	5070796	HB	
7440-50-8	Copper	12.7	0.522 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	10.5	0.522 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	BRL	14.6 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	94.8	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070621	BD	
57-12-5	Cyanide (total)	BRL	1.02 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	14-Jul-05	14-Jul-05	5070848	YV	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-11 (12-18")
SA30573-24

Client Project #
0032572

Matrix
Soil

Collection Date/Time
07-Jul-05 11:15

Received
08-Jul-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Total Metals by EPA 200 Series Methods										
7440-47-3	Chromium	16.4	0.759 mg/kg dry	1	EPA 200.7	18-Jul-05	21-Jul-05	5070796	HB	
7440-50-8	Copper	20.4	0.759 mg/kg dry	1	"	"	"	"	"	
7440-02-0	Nickel	19.6	0.759 mg/kg dry	1	"	"	"	"	"	
7440-66-6	Zinc	40.5	0.759 mg/kg dry	1	"	"	"	"	"	
General Chemistry Parameters										
	% Solids	65.5	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070621	BD	
57-12-5	Cyanide (total)	BRL	1.52 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	14-Jul-05	14-Jul-05	5070848	YV	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-4 (0-6")
SA30573-25

Client Project #
0032572

Matrix
Soil

Collection Date/Time
07-Jul-05 12:15

Received
08-Jul-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Volatile Organic Compounds										
	VOC Extraction	Field extracted	N/A	1	VOC	11-Jul-05	11-Jul-05	5070512	BD	
<u>Volatile Organic Compounds by SW846 8260B</u>			Prepared by method	SW846 5030 Soil (high level)						VOC10
67-64-1	Acetone	BRL	917 µg/kg dry	50	SW846 8260B	15-Jul-05	15-Jul-05	5070859	tim	
107-13-1	Acrylonitrile	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
71-43-2	Benzene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
108-86-1	Bromobenzene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
74-97-5	Bromochloromethane	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
75-27-4	Bromodichloromethane	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
75-25-2	Bromoform	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
74-83-9	Bromomethane	BRL	91.7 µg/kg dry	50	"	"	"	"	"	
78-93-3	2-Butanone (MEK)	BRL	459 µg/kg dry	50	"	"	"	"	"	
104-51-8	n-Butylbenzene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
135-98-8	sec-Butylbenzene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
75-15-0	Carbon disulfide	BRL	229 µg/kg dry	50	"	"	"	"	"	
56-23-5	Carbon tetrachloride	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
108-90-7	Chlorobenzene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
75-00-3	Chloroethane	BRL	91.7 µg/kg dry	50	"	"	"	"	"	
67-66-3	Chloroform	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
74-87-3	Chloromethane	BRL	91.7 µg/kg dry	50	"	"	"	"	"	
95-49-8	2-Chlorotoluene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL	91.7 µg/kg dry	50	"	"	"	"	"	
124-48-1	Dibromochloromethane	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
106-93-4	1,2-Dibromoethane (EDB)	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
74-95-3	Dibromomethane	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane (Freon12)	BRL	91.7 µg/kg dry	50	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
100-41-4	Ethylbenzene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
591-78-6	2-Hexanone (MBK)	BRL	459 µg/kg dry	50	"	"	"	"	"	
98-82-8	Isopropylbenzene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-4 (0-6")
SA30573-25

Client Project #
0032572

Matrix
Soil

Collection Date/Time
07-Jul-05 12:15

Received
08-Jul-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Volatile Organic Compounds										
<i>Volatile Organic Compounds by SW846 8260B</i>			Prepared by method SW846 5030 Soil (high level)				VOC10			
1634-04-4	Methyl tert-butyl ether	BRL	45.9 µg/kg dry	50	SW846 8260B	15-Jul-05	15-Jul-05	5070859	tim	
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL	459 µg/kg dry	50	"	"	"	"	"	
75-09-2	Methylene chloride	BRL	459 µg/kg dry	50	"	"	"	"	"	
91-20-3	Naphthalene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
103-65-1	n-Propylbenzene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
100-42-5	Styrene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
630-20-6	1,1,1,2-Tetrachloroethane	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
127-18-4	Tetrachloroethene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
108-88-3	Toluene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
79-01-6	Trichloroethene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
75-69-4	Trichlorofluoromethane (Freon 11)	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
75-01-4	Vinyl chloride	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
1330-20-7	m,p-Xylene	BRL	91.7 µg/kg dry	50	"	"	"	"	"	
95-47-6	o-Xylene	BRL	45.9 µg/kg dry	50	"	"	"	"	"	
<i>Surrogate recoveries:</i>										
460-00-4	4-Bromofluorobenzene	104	70-130 %		"	"	"	"	"	
2037-26-5	Toluene-d8	95.4	70-130 %		"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	98.8	70-130 %		"	"	"	"	"	
1868-53-7	Dibromofluoromethane	96.6	70-130 %		"	"	"	"	"	
General Chemistry Parameters										
	% Solids	86.6	%	1	SM2540 G Mod.	12-Jul-05	13-Jul-05	5070623	JAK	

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* Reportable Detection Limit BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-4 (0-6")
SA30573-26

Client Project #
0032572

Matrix
Soil

Collection Date/Time
07-Jul-05 12:55

Received
08-Jul-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Semivolatile Organic Compounds by GC										
<u>Polychlorinated Biphenyls by SW846 8082</u>			Prepared by method		SW846 3550B					
12674-11-2	PCB 1016	BRL	33.0 µg/kg dry	1	SW846 8082	12-Jul-05	13-Jul-05	5070576	MP	
11104-28-2	PCB 1221	BRL	33.0 µg/kg dry	1	"	"	"	"	"	
11141-16-5	PCB 1232	BRL	33.0 µg/kg dry	1	"	"	"	"	"	
53469-21-9	PCB 1242	BRL	33.0 µg/kg dry	1	"	"	"	"	"	
12672-29-6	PCB 1248	BRL	33.0 µg/kg dry	1	"	"	"	"	"	
11097-69-1	PCB 1254	BRL	33.0 µg/kg dry	1	"	"	"	"	"	
11096-82-5	PCB 1260	BRL	33.0 µg/kg dry	1	"	"	"	"	"	
37324-23-5	PCB 1262	BRL	33.0 µg/kg dry	1	"	"	"	"	"	
11100-14-4	PCB 1268	BRL	33.0 µg/kg dry	1	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80.0	30-150 %	"	"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	110	30-150 %	"	"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

Semivolatile Organic Compounds by SW846 8270C

Prepared by method SW846 3545A

83-32-9	Acenaphthene	BRL	235 µg/kg dry	1	SW846 8270C	18-Jul-05	19-Jul-05	5070919		
208-96-8	Acenaphthylene	BRL	235 µg/kg dry	1	"	"	"	"	"	
62-53-3	Aniline	BRL	235 µg/kg dry	1	"	"	"	"	"	
120-12-7	Anthracene	BRL	235 µg/kg dry	1	"	"	"	"	"	
1912-24-9	Atrazine	BRL	235 µg/kg dry	1	"	"	"	"	"	
103-33-3	Azobenzene/Diphenyldiazine	BRL	235 µg/kg dry	1	"	"	"	"	"	
92-87-5	Benzidine	BRL	235 µg/kg dry	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	BRL	235 µg/kg dry	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	BRL	235 µg/kg dry	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	BRL	235 µg/kg dry	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	BRL	235 µg/kg dry	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	BRL	235 µg/kg dry	1	"	"	"	"	"	
65-85-0	Benzoic acid	BRL	235 µg/kg dry	1	"	"	"	"	"	
100-51-6	Benzyl alcohol	BRL	235 µg/kg dry	1	"	"	"	"	"	
111-91-1	Bis(2-chloroethoxy)methane	BRL	235 µg/kg dry	1	"	"	"	"	"	
111-44-4	Bis(2-chloroethyl)ether	BRL	235 µg/kg dry	1	"	"	"	"	"	
39638-32-9	Bis(2-chloroisopropyl)ether	BRL	235 µg/kg dry	1	"	"	"	"	"	
117-81-7	Bis(2-ethylhexyl)phthalate	BRL	235 µg/kg dry	1	"	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	BRL	235 µg/kg dry	1	"	"	"	"	"	
85-68-7	Butyl benzyl phthalate	BRL	235 µg/kg dry	1	"	"	"	"	"	
86-74-8	Carbazole	BRL	235 µg/kg dry	1	"	"	"	"	"	
59-50-7	4-Chloro-3-methylphenol	BRL	235 µg/kg dry	1	"	"	"	"	"	
106-47-8	4-Chloroaniline	BRL	235 µg/kg dry	1	"	"	"	"	"	
91-58-7	2-Chloronaphthalene	BRL	235 µg/kg dry	1	"	"	"	"	"	
95-57-8	2-Chlorophenol	BRL	235 µg/kg dry	1	"	"	"	"	"	
7005-72-3	4-Chlorophenyl phenyl ether	BRL	235 µg/kg dry	1	"	"	"	"	"	
218-01-9	Chrysene	BRL	235 µg/kg dry	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	BRL	235 µg/kg dry	1	"	"	"	"	"	
132-64-9	Dibenzofuran	BRL	235 µg/kg dry	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL	235 µg/kg dry	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL	235 µg/kg dry	1	"	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Sample Identification
GSP-SSS-B-4 (0-6")
SA30573-26

Client Project #
0032572

Matrix
Soil

Collection Date/Time
07-Jul-05 12:55

Received
08-Jul-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Semivolatile Organic Compounds by GCMS										
<u>Semivolatile Organic Compounds by SW846 8270C</u>			Prepared by method SW846 3545A							
106-46-7	1,4-Dichlorobenzene	BRL	235 µg/kg dry	1	SW846 8270C	18-Jul-05	19-Jul-05	5070919		
91-94-1	3,3'-Dichlorobenzidine	BRL	235 µg/kg dry	1	"	"	"	"	"	"
120-83-2	2,4-Dichlorophenol	BRL	235 µg/kg dry	1	"	"	"	"	"	"
84-66-2	Diethyl phthalate	BRL	235 µg/kg dry	1	"	"	"	"	"	"
131-11-3	Dimethyl phthalate	BRL	235 µg/kg dry	1	"	"	"	"	"	"
105-67-9	2,4-Dimethylphenol	BRL	235 µg/kg dry	1	"	"	"	"	"	"
84-74-2	Di-n-butyl phthalate	BRL	235 µg/kg dry	1	"	"	"	"	"	"
534-52-1	4,6-Dinitro-2-methylphenol	BRL	235 µg/kg dry	1	"	"	"	"	"	"
51-28-5	2,4-Dinitrophenol	BRL	235 µg/kg dry	1	"	"	"	"	"	"
121-14-2	2,4-Dinitrotoluene	BRL	235 µg/kg dry	1	"	"	"	"	"	"
606-20-2	2,6-Dinitrotoluene	BRL	235 µg/kg dry	1	"	"	"	"	"	"
117-84-0	Di-n-octyl phthalate	BRL	235 µg/kg dry	1	"	"	"	"	"	"
206-44-0	Fluoranthene	BRL	235 µg/kg dry	1	"	"	"	"	"	"
86-73-7	Fluorene	BRL	235 µg/kg dry	1	"	"	"	"	"	"
118-74-1	Hexachlorobenzene	BRL	235 µg/kg dry	1	"	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL	235 µg/kg dry	1	"	"	"	"	"	"
77-47-4	Hexachlorocyclopentadiene	BRL	235 µg/kg dry	1	"	"	"	"	"	"
67-72-1	Hexachloroethane	BRL	235 µg/kg dry	1	"	"	"	"	"	"
193-39-5	Indeno (1,2,3-cd) pyrene	BRL	235 µg/kg dry	1	"	"	"	"	"	"
90-12-0	1-Methylnaphthalene	BRL	235 µg/kg dry	1	"	"	"	"	"	"
78-59-1	Isophorone	BRL	235 µg/kg dry	1	"	"	"	"	"	"
91-57-6	2-Methylnaphthalene	BRL	235 µg/kg dry	1	"	"	"	"	"	"
95-48-7	2-Methylphenol	BRL	235 µg/kg dry	1	"	"	"	"	"	"
108-39-4, 106-43-4	3,4-Methylphenol	BRL	235 µg/kg dry	1	"	"	"	"	"	"
91-20-3	Naphthalene	BRL	235 µg/kg dry	1	"	"	"	"	"	"
88-74-4	2-Nitroaniline	BRL	235 µg/kg dry	1	"	"	"	"	"	"
99-09-2	3-Nitroaniline	BRL	235 µg/kg dry	1	"	"	"	"	"	"
100-01-6	4-Nitroaniline	BRL	941 µg/kg dry	1	"	"	"	"	"	"
98-95-3	Nitrobenzene	BRL	235 µg/kg dry	1	"	"	"	"	"	"
88-75-5	2-Nitrophenol	BRL	235 µg/kg dry	1	"	"	"	"	"	"
100-02-7	4-Nitrophenol	BRL	941 µg/kg dry	1	"	"	"	"	"	"
62-75-9	N-Nitrosodimethylamine	BRL	235 µg/kg dry	1	"	"	"	"	"	"
621-64-7	N-Nitrosodi-n-propylamine	BRL	235 µg/kg dry	1	"	"	"	"	"	"
86-30-6	N-Nitrosodiphenylamine	BRL	235 µg/kg dry	1	"	"	"	"	"	"
87-86-5	Pentachlorophenol	BRL	941 µg/kg dry	1	"	"	"	"	"	"
85-01-8	Phenanthrene	BRL	235 µg/kg dry	1	"	"	"	"	"	"
108-95-2	Phenol	BRL	235 µg/kg dry	1	"	"	"	"	"	"
129-00-0	Pyrene	BRL	235 µg/kg dry	1	"	"	"	"	"	"
110-86-1	Pyridine	BRL	235 µg/kg dry	1	"	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL	235 µg/kg dry	1	"	"	"	"	"	"
95-95-4	2,4,5-Trichlorophenol	BRL	235 µg/kg dry	1	"	"	"	"	"	"
88-06-2	2,4,6-Trichlorophenol	BRL	235 µg/kg dry	1	"	"	"	"	"	"
<u>Surrogate recoveries:</u>										
321-60-8	2-Fluorobiphenyl	54.2	30-130 %		"	"	"	"	"	"
367-12-4	2-Fluorophenol	51.7	15-110 %		"	"	"	"	"	"
4165-60-0	Nitrobenzene-d5	49.6	30-130 %		"	"	"	"	"	"

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Sample Identification
GSP-SSS-B-4 (0-6")
SA30573-26

Client Project #
0032572

Matrix
Soil

Collection Date/Time
07-Jul-05 12:55

Received
08-Jul-05

CAS No.	Analyte(s)	Result	*RDL/Units	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst	Flag
Semivolatile Organic Compounds by GCMS										
<u>Semivolatile Organic Compounds by SW846 8270C</u>			Prepared by method SW846 3545A							
4165-62-2	Phenol-d5	47.5	15-110 %		SW846 8270C	18-Jul-05	19-Jul-05	5070919		
1718-51-0	Terphenyl-dl4	29.1	30-130 %		"	"	"	"	"	S-GC
118-79-6	2,4,6-Tribromophenol	61.3	15-110 %		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods										
7439-97-6	Mercury	BRL	0.199 mg/kg dry	1	SW846 7471A	18-Jul-05	19-Jul-05	5070797	YP	
Total Metals by EPA 200 Series Methods										
7440-22-4	Silver	BRL	1.14 mg/kg dry	1	EPA 200.7	18-Jul-05	21-Jul-05	5070796	HB	
7440-38-2	Arsenic	BRL	3.14 mg/kg dry	1	"	"	"	"	"	
7440-39-3	Barium	8.93	0.571 mg/kg dry	1	"	"	"	"	"	
7440-43-9	Cadmium	0.457	0.286 mg/kg dry	1	"	"	"	"	"	
7440-47-3	Chromium	64.4	0.571 mg/kg dry	1	"	"	"	"	"	
7439-92-1	Lead	8.98	0.857 mg/kg dry	1	"	"	"	"	"	
7782-49-2	Selenium	BRL	1.71 mg/kg dry	1	"	"	"	"	"	
Toxicity Characteristics										
	pH	7.39	pH Units	1	SW846 9045C	08-Jul-05 11:30	08-Jul-05	5070458	BD	
General Chemistry Parameters										
	% Solids	86.6	%	1	SM2540 G Mod.	12-Jul-05	12-Jul-05	5070621	BD	
1854-029-9	Hexavalent Chromium	BRL	11.3 mg/kg dry	1	+SW846 3060A	14-Jul-05	14-Jul-05	5070819	YV	
57-12-5	Cyanide (total)	BRL	1.13 mg/kg dry	1	10-204-00-1-A / SW-846 9012A	14-Jul-05	14-Jul-05	5070848	"	

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070859 - SW846 5030 Soil (high level)									
Blank (5070859-BLK1)			Prepared & Analyzed: 15-Jul-05						
Acetone	BRL	20.0 µg/kg wet							
Acrylonitrile	BRL	1.0 µg/kg wet							
Benzene	BRL	1.0 µg/kg wet							
Bromobenzene	BRL	1.0 µg/kg wet							
Bromochloromethane	BRL	1.0 µg/kg wet							
Bromodichloromethane	BRL	1.0 µg/kg wet							
Bromoform	BRL	1.0 µg/kg wet							
Bromomethane	BRL	2.0 µg/kg wet							
2-Butanone (MEK)	BRL	10.0 µg/kg wet							
n-Butylbenzene	BRL	1.0 µg/kg wet							
sec-Butylbenzene	BRL	1.0 µg/kg wet							
tert-Butylbenzene	BRL	1.0 µg/kg wet							
Carbon disulfide	BRL	5.0 µg/kg wet							
Carbon tetrachloride	BRL	1.0 µg/kg wet							
Chlorobenzene	BRL	1.0 µg/kg wet							
Chloroethane	BRL	2.0 µg/kg wet							
Chloroform	BRL	1.0 µg/kg wet							
Chloromethane	BRL	2.0 µg/kg wet							
2-Chlorotoluene	BRL	1.0 µg/kg wet							
4-Chlorotoluene	BRL	1.0 µg/kg wet							
1,2-Dibromo-3-chloropropane	BRL	2.0 µg/kg wet							
Dibromochloromethane	BRL	1.0 µg/kg wet							
1,2-Dibromoethane (EDB)	BRL	1.0 µg/kg wet							
Dibromomethane	BRL	1.0 µg/kg wet							
1,2-Dichlorobenzene	BRL	1.0 µg/kg wet							
1,3-Dichlorobenzene	BRL	1.0 µg/kg wet							
1,4-Dichlorobenzene	BRL	1.0 µg/kg wet							
Dichlorodifluoromethane (Freon12)	BRL	2.0 µg/kg wet							
1,1-Dichloroethane	BRL	1.0 µg/kg wet							
1,2-Dichloroethane	BRL	1.0 µg/kg wet							
1,1-Dichloroethene	BRL	1.0 µg/kg wet							
cis-1,2-Dichloroethene	BRL	1.0 µg/kg wet							
trans-1,2-Dichloroethene	BRL	1.0 µg/kg wet							
1,2-Dichloropropane	BRL	1.0 µg/kg wet							
1,3-Dichloropropane	BRL	1.0 µg/kg wet							
2,2-Dichloropropane	BRL	1.0 µg/kg wet							
1,1-Dichloropropene	BRL	1.0 µg/kg wet							
cis-1,3-Dichloropropene	BRL	1.0 µg/kg wet							
trans-1,3-Dichloropropene	BRL	1.0 µg/kg wet							
Ethylbenzene	BRL	1.0 µg/kg wet							
Hexachlorobutadiene	BRL	1.0 µg/kg wet							
2-Hexanone (MBK)	BRL	10.0 µg/kg wet							
Isopropylbenzene	BRL	1.0 µg/kg wet							
4-Isopropyltoluene	BRL	1.0 µg/kg wet							
Methyl tert-butyl ether	BRL	1.0 µg/kg wet							
4-Methyl-2-pentanone (MIBK)	BRL	10.0 µg/kg wet							
Methylene chloride	BRL	10.0 µg/kg wet							
Naphthalene	BRL	1.0 µg/kg wet							
n-Propylbenzene	BRL	1.0 µg/kg wet							
Styrene	BRL	1.0 µg/kg wet							
1,1,1,2-Tetrachloroethane	BRL	1.0 µg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	1.0 µg/kg wet							
Tetrachloroethene	BRL	1.0 µg/kg wet							
Toluene	BRL	1.0 µg/kg wet							

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070859 - SW846 5030 Soil (high level)									
Blank (5070859-BLK1)			Prepared & Analyzed: 15-Jul-05						
1,2,3-Trichlorobenzene	BRL	1.0 µg/kg wet							
1,2,4-Trichlorobenzene	BRL	1.0 µg/kg wet							
1,1,1-Trichloroethane	BRL	1.0 µg/kg wet							
1,1,2-Trichloroethane	BRL	1.0 µg/kg wet							
Trichloroethene	BRL	1.0 µg/kg wet							
Trichlorofluoromethane (Freon 11)	BRL	1.0 µg/kg wet							
1,2,3-Trichloropropane	BRL	1.0 µg/kg wet							
1,2,4-Trimethylbenzene	BRL	1.0 µg/kg wet							
1,3,5-Trimethylbenzene	BRL	1.0 µg/kg wet							
Vinyl chloride	BRL	1.0 µg/kg wet							
m,p-Xylene	BRL	2.0 µg/kg wet							
o-Xylene	BRL	1.0 µg/kg wet							
Surrogate: 4-Bromofluorobenzene	50.4	µg/kg wet	50.0		101	70-130			
Surrogate: Toluene-d8	49.2	µg/kg wet	50.0		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	49.9	µg/kg wet	50.0		99.8	70-130			
Surrogate: Dibromofluoromethane	48.8	µg/kg wet	50.0		97.6	70-130			
LCS (5070859-BS1)			Prepared & Analyzed: 15-Jul-05						
Acetone	54.1	µg/kg wet	20.0		270	19.4-217			QC-2
Acrylonitrile	23.2	µg/kg wet	20.0		116	70-130			
Benzene	21.0	µg/kg wet	20.0		105	70-130			
Bromobenzene	21.7	µg/kg wet	20.0		108	70-130			
Bromochloromethane	21.2	µg/kg wet	20.0		106	70-130			
Bromodichloromethane	22.4	µg/kg wet	20.0		112	70-130			
Bromoform	20.4	µg/kg wet	20.0		102	70-130			
Bromomethane	23.4	µg/kg wet	20.0		117	48.6-171			
2-Butanone (MEK)	19.6	µg/kg wet	20.0		98.0	16.5-153			
n-Butylbenzene	23.0	µg/kg wet	20.0		115	70-130			
sec-Butylbenzene	22.1	µg/kg wet	20.0		110	70-130			
tert-Butylbenzene	22.4	µg/kg wet	20.0		112	70-130			
Carbon disulfide	20.0	µg/kg wet	20.0		100	70-130			
Carbon tetrachloride	18.3	µg/kg wet	20.0		91.5	70-130			
Chlorobenzene	21.8	µg/kg wet	20.0		109	70-130			
Chloroethane	28.7	µg/kg wet	20.0		144	68.8-140			QC-1
Chloroform	21.7	µg/kg wet	20.0		108	70-130			
Chloromethane	35.1	µg/kg wet	20.0		176	70-130			QC-2
2-Chlorotoluene	22.1	µg/kg wet	20.0		110	70-130			
4-Chlorotoluene	22.1	µg/kg wet	20.0		110	70-130			
1,2-Dibromo-3-chloropropane	22.4	µg/kg wet	20.0		112	70-130			
Dibromochloromethane	17.6	µg/kg wet	20.0		88.0	53.9-173			
1,2-Dibromoethane (EDB)	21.3	µg/kg wet	20.0		106	70-130			
Dibromomethane	22.1	µg/kg wet	20.0		110	70-130			
1,2-Dichlorobenzene	23.1	µg/kg wet	20.0		116	70-130			
1,3-Dichlorobenzene	21.8	µg/kg wet	20.0		109	70-130			
1,4-Dichlorobenzene	23.2	µg/kg wet	20.0		116	70-130			
Dichlorodifluoromethane (Freon12)	26.6	µg/kg wet	20.0		133	59.6-150			
1,1-Dichloroethane	20.6	µg/kg wet	20.0		103	70-130			
1,2-Dichloroethane	21.0	µg/kg wet	20.0		105	70-130			
1,1-Dichloroethene	21.8	µg/kg wet	20.0		109	70-130			
cis-1,2-Dichloroethene	21.2	µg/kg wet	20.0		106	70-130			
trans-1,2-Dichloroethene	20.1	µg/kg wet	20.0		100	70-130			
1,2-Dichloropropane	21.0	µg/kg wet	20.0		105	70-130			
1,3-Dichloropropane	21.9	µg/kg wet	20.0		110	70-130			
2,2-Dichloropropane	23.2	µg/kg wet	20.0		116	70-130			
1,1-Dichloropropene	22.0	µg/kg wet	20.0		110	70-130			

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070859 - SW846 5030 Soil (high level)									
LCS (5070859-BS1)			Prepared & Analyzed: 15-Jul-05						
cis-1,3-Dichloropropene	21.4	µg/kg wet	20.0		107	70-130			
trans-1,3-Dichloropropene	21.6	µg/kg wet	20.0		108	70-130			
Ethylbenzene	22.1	µg/kg wet	20.0		110	70-130			
Hexachlorobutadiene	21.8	µg/kg wet	20.0		109	67.9-157			
2-Hexanone (MBK)	23.8	µg/kg wet	20.0		119	70-130			
Isopropylbenzene	21.3	µg/kg wet	20.0		106	70-130			
4-Isopropyltoluene	23.9	µg/kg wet	20.0		120	70-130			
Methyl tert-butyl ether	22.0	µg/kg wet	20.0		110	70-130			
4-Methyl-2-pentanone (MIBK)	20.6	µg/kg wet	20.0		103	43.9-154			
Methylene chloride	18.2	µg/kg wet	20.0		91.0	70-130			
Naphthalene	24.4	µg/kg wet	20.0		122	70-130			
n-Propylbenzene	21.5	µg/kg wet	20.0		108	70-130			
Styrene	21.0	µg/kg wet	20.0		105	70-130			
1,1,1,2-Tetrachloroethane	22.4	µg/kg wet	20.0		112	70-130			
1,1,2,2-Tetrachloroethane	24.1	µg/kg wet	20.0		120	70-130			
Tetrachloroethene	20.8	µg/kg wet	20.0		104	70-130			
Toluene	21.8	µg/kg wet	20.0		109	70-130			
1,2,3-Trichlorobenzene	22.7	µg/kg wet	20.0		114	70-130			
1,2,4-Trichlorobenzene	22.3	µg/kg wet	20.0		112	70-130			
1,1,1-Trichloroethane	18.9	µg/kg wet	20.0		94.5	70-130			
1,1,2-Trichloroethane	22.3	µg/kg wet	20.0		112	70-130			
Trichloroethene	20.8	µg/kg wet	20.0		104	70-130			
Trichlorofluoromethane (Freon 11)	23.3	µg/kg wet	20.0		116	70-138			
1,2,3-Trichloropropane	22.4	µg/kg wet	20.0		112	70-130			
1,2,4-Trimethylbenzene	21.7	µg/kg wet	20.0		108	70-130			
1,3,5-Trimethylbenzene	21.9	µg/kg wet	20.0		110	70-130			
Vinyl chloride	25.3	µg/kg wet	20.0		126	70-130			
m,p-Xylene	43.8	µg/kg wet	40.0		110	70-130			
o-Xylene	22.4	µg/kg wet	20.0		112	70-130			
Surrogate: 4-Bromofluorobenzene	49.6	µg/kg wet	50.0		99.2	70-130			
Surrogate: Toluene-d8	50.3	µg/kg wet	50.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	50.6	µg/kg wet	50.0		101	70-130			
Surrogate: Dibromofluoromethane	49.9	µg/kg wet	50.0		99.8	70-130			
LCS Dup (5070859-BSD1)			Prepared & Analyzed: 15-Jul-05						
Acetone	46.4	µg/kg wet	20.0		232	19.4-217	15.1	50	QC-2
Acrylonitrile	24.7	µg/kg wet	20.0		124	70-130	6.67	25	
Benzene	20.1	µg/kg wet	20.0		100	70-130	4.88	25	
Bromobenzene	20.9	µg/kg wet	20.0		104	70-130	3.77	25	
Bromochloromethane	21.1	µg/kg wet	20.0		106	70-130	0.00	25	
Bromodichloromethane	21.9	µg/kg wet	20.0		110	70-130	1.80	25	
Bromoform	19.9	µg/kg wet	20.0		99.5	70-130	2.48	25	
Bromomethane	21.8	µg/kg wet	20.0		109	48.6-171	7.08	50	
2-Butanone (MEK)	18.8	µg/kg wet	20.0		94.0	16.5-153	4.17	50	
n-Butylbenzene	22.2	µg/kg wet	20.0		111	70-130	3.54	25	
sec-Butylbenzene	21.6	µg/kg wet	20.0		108	70-130	1.83	25	
tert-Butylbenzene	21.7	µg/kg wet	20.0		108	70-130	3.64	25	
Carbon disulfide	19.9	µg/kg wet	20.0		99.5	70-130	0.501	25	
Carbon tetrachloride	17.8	µg/kg wet	20.0		89.0	70-130	2.77	25	
Chlorobenzene	20.9	µg/kg wet	20.0		104	70-130	4.69	25	
Chloroethane	27.3	µg/kg wet	20.0		136	68.8-140	5.71	50	
Chloroform	21.5	µg/kg wet	20.0		108	70-130	0.00	25	
Chloromethane	31.6	µg/kg wet	20.0		158	70-130	10.8	25	QC-2
2-Chlorotoluene	21.8	µg/kg wet	20.0		109	70-130	0.913	25	
4-Chlorotoluene	21.8	µg/kg wet	20.0		109	70-130	0.913	25	

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070859 - SW846 5030 Soil (high level)									
LCS Dup (5070859-BSD1)			Prepared & Analyzed: 15-Jul-05						
1,2-Dibromo-3-chloropropane	20.6	µg/kg wet	20.0		103	70-130	8.37	25	
Dibromochloromethane	17.4	µg/kg wet	20.0		87.0	53.9-173	1.14	50	
1,2-Dibromoethane (EDB)	20.6	µg/kg wet	20.0		103	70-130	2.87	25	
Dibromomethane	21.3	µg/kg wet	20.0		106	70-130	3.70	25	
1,2-Dichlorobenzene	22.0	µg/kg wet	20.0		110	70-130	5.31	25	
1,3-Dichlorobenzene	21.1	µg/kg wet	20.0		106	70-130	2.79	25	
1,4-Dichlorobenzene	22.0	µg/kg wet	20.0		110	70-130	5.31	25	
Dichlorodifluoromethane (Freon 12)	23.7	µg/kg wet	20.0		118	59.6-150	12.0	50	
1,1-Dichloroethane	20.8	µg/kg wet	20.0		104	70-130	0.966	25	
1,2-Dichloroethane	20.8	µg/kg wet	20.0		104	70-130	0.957	25	
1,1-Dichloroethene	22.0	µg/kg wet	20.0		110	70-130	0.913	25	
cis-1,2-Dichloroethene	21.6	µg/kg wet	20.0		108	70-130	1.87	25	
trans-1,2-Dichloroethene	20.6	µg/kg wet	20.0		103	70-130	2.96	25	
1,2-Dichloropropane	20.2	µg/kg wet	20.0		101	70-130	3.88	25	
1,3-Dichloropropane	21.3	µg/kg wet	20.0		106	70-130	3.70	25	
2,2-Dichloropropane	22.3	µg/kg wet	20.0		112	70-130	3.51	25	
1,1-Dichloropropene	21.8	µg/kg wet	20.0		109	70-130	0.913	25	
cis-1,3-Dichloropropene	20.9	µg/kg wet	20.0		104	70-130	2.84	25	
trans-1,3-Dichloropropene	21.1	µg/kg wet	20.0		106	70-130	1.87	25	
Ethylbenzene	21.5	µg/kg wet	20.0		108	70-130	1.83	25	
Hexachlorobutadiene	22.3	µg/kg wet	20.0		112	67.9-157	2.71	50	
2-Hexanone (MBK)	19.5	µg/kg wet	20.0		97.5	70-130	19.9	25	
Isopropylbenzene	21.2	µg/kg wet	20.0		106	70-130	0.00	25	
4-Isopropyltoluene	22.8	µg/kg wet	20.0		114	70-130	5.13	25	
Methyl tert-butyl ether	21.7	µg/kg wet	20.0		108	70-130	1.83	25	
4-Methyl-2-pentanone (MIBK)	19.0	µg/kg wet	20.0		95.0	43.9-154	8.08	50	
Methylene chloride	17.8	µg/kg wet	20.0		89.0	70-130	2.22	25	
Naphthalene	23.9	µg/kg wet	20.0		120	70-130	1.65	25	
n-Propylbenzene	21.3	µg/kg wet	20.0		106	70-130	1.87	25	
Styrene	21.0	µg/kg wet	20.0		105	70-130	0.00	25	
1,1,1,2-Tetrachloroethane	22.2	µg/kg wet	20.0		111	70-130	0.897	25	
1,1,2,2-Tetrachloroethane	23.0	µg/kg wet	20.0		115	70-130	4.26	25	
Tetrachloroethene	19.9	µg/kg wet	20.0		99.5	70-130	4.42	25	
Toluene	20.7	µg/kg wet	20.0		104	70-130	4.69	25	
1,2,3-Trichlorobenzene	22.7	µg/kg wet	20.0		114	70-130	0.00	25	
1,2,4-Trichlorobenzene	21.8	µg/kg wet	20.0		109	70-130	2.71	25	
1,1,1-Trichloroethane	18.3	µg/kg wet	20.0		91.5	70-130	3.23	25	
1,1,2-Trichloroethane	21.8	µg/kg wet	20.0		109	70-130	2.71	25	
Trichloroethene	20.0	µg/kg wet	20.0		100	70-130	3.92	25	
Trichlorofluoromethane (Freon 11)	23.3	µg/kg wet	20.0		116	70-138	0.00	50	
1,2,3-Trichloropropane	21.2	µg/kg wet	20.0		106	70-130	5.50	25	
1,2,4-Trimethylbenzene	21.2	µg/kg wet	20.0		106	70-130	1.87	25	
1,3,5-Trimethylbenzene	21.2	µg/kg wet	20.0		106	70-130	3.70	25	
Vinyl chloride	22.6	µg/kg wet	20.0		113	70-130	10.9	25	
m,p-Xylene	43.4	µg/kg wet	40.0		108	70-130	1.83	25	
o-Xylene	21.8	µg/kg wet	20.0		109	70-130	2.71	25	
Surrogate: 4-Bromofluorobenzene	51.2	µg/kg wet	50.0		102	70-130			
Surrogate: Toluene-d8	50.3	µg/kg wet	50.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	52.5	µg/kg wet	50.0		105	70-130			
Surrogate: Dibromofluoromethane	52.2	µg/kg wet	50.0		104	70-130			
Matrix Spike (5070859-MS1)			Source: SA30588-01		Prepared & Analyzed: 15-Jul-05				
Benzene	22.8	µg/kg dry	20.0	1.09	109	70-130			
Chlorobenzene	23.2	µg/kg dry	20.0	BRL	116	70-130			
1,1-Dichloroethene	27.4	µg/kg dry	20.0	BRL	137	70-130			QM-07

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* Reportable Detection Limit BRL = Below Reporting Limit

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070859 - SW846 5030 Soil (high level)									
Matrix Spike (5070859-MS1)		Source: SA30588-01		Prepared & Analyzed: 15-Jul-05					
Toluene	23.1	µg/kg dry	20.0	1.08	110	70-130			
Trichloroethene	21.6	µg/kg dry	20.0	BRL	108	70-130			
Surrogate: 4-Bromofluorobenzene	50.9	µg/kg dry	50.0		102	70-130			
Surrogate: Toluene-d8	49.6	µg/kg dry	50.0		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	55.2	µg/kg dry	50.0		110	70-130			
Surrogate: Dibromofluoromethane	50.9	µg/kg dry	50.0		102	70-130			
Matrix Spike Dup (5070859-MSD1)		Source: SA30588-01		Prepared & Analyzed: 15-Jul-05					
Benzene	22.2	µg/kg dry	20.0	1.09	106	70-130	2.79	30	
Chlorobenzene	22.7	µg/kg dry	20.0	BRL	114	70-130	1.74	30	
1,1-Dichloroethene	26.9	µg/kg dry	20.0	BRL	134	70-130	2.21	30	QM-07
Toluene	22.6	µg/kg dry	20.0	1.08	108	70-130	1.83	30	
Trichloroethene	20.6	µg/kg dry	20.0	BRL	103	70-130	4.74	30	
Surrogate: 4-Bromofluorobenzene	51.2	µg/kg dry	50.0		102	70-130			
Surrogate: Toluene-d8	49.4	µg/kg dry	50.0		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	55.1	µg/kg dry	50.0		110	70-130			
Surrogate: Dibromofluoromethane	50.2	µg/kg dry	50.0		100	70-130			

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070576 - SW846 3550B									
Blank (5070576-BLK1)			Prepared: 12-Jul-05 Analyzed: 13-Jul-05						
PCB 1016	BRL	28.6 µg/kg wet							
PCB 1221	BRL	28.6 µg/kg wet							
PCB 1232	BRL	28.6 µg/kg wet							
PCB 1242	BRL	28.6 µg/kg wet							
PCB 1248	BRL	28.6 µg/kg wet							
PCB 1254	BRL	28.6 µg/kg wet							
PCB 1260	BRL	28.6 µg/kg wet							
PCB 1262	BRL	28.6 µg/kg wet							
PCB 1268	BRL	28.6 µg/kg wet							
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	18.6	µg/kg wet	28.6		65.0	30-150			
Surrogate: Decachlorobiphenyl (Sr)	30.0	µg/kg wet	28.6		105	30-150			
LCS (5070576-BS1)			Prepared: 12-Jul-05 Analyzed: 13-Jul-05						
PCB 1016	306	28.6 µg/kg wet	357		85.7	40-140			
PCB 1260	340	28.6 µg/kg wet	357		95.2	40-140			
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	20.0	µg/kg wet	28.6		69.9	30-150			
Surrogate: Decachlorobiphenyl (Sr)	35.7	µg/kg wet	28.6		125	30-150			
Duplicate (5070576-DUP1)			Source: SA30631-01		Prepared: 12-Jul-05 Analyzed: 13-Jul-05				
PCB 1016	BRL	37.4 µg/kg dry		BRL				40	
PCB 1221	BRL	37.4 µg/kg dry		BRL				40	
PCB 1232	BRL	37.4 µg/kg dry		BRL				40	
PCB 1242	BRL	37.4 µg/kg dry		BRL				40	
PCB 1248	BRL	37.4 µg/kg dry		BRL				40	
PCB 1254	BRL	37.4 µg/kg dry		BRL				40	
PCB 1260	BRL	37.4 µg/kg dry		BRL				40	
PCB 1262	BRL	37.4 µg/kg dry		BRL				40	
PCB 1268	BRL	37.4 µg/kg dry		BRL				40	
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	33.6	µg/kg dry	37.3		90.1	30-150			
Surrogate: Decachlorobiphenyl (Sr)	43.0	µg/kg dry	37.3		115	30-150			
Matrix Spike (5070576-MS1)			Source: SA30631-01		Prepared: 12-Jul-05 Analyzed: 13-Jul-05				
PCB 1016	404	36.9 µg/kg dry	461	BRL	87.6	40-140			
PCB 1260	517	36.9 µg/kg dry	461	BRL	112	40-140			
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	27.7	µg/kg dry	36.9		75.1	30-150			
Surrogate: Decachlorobiphenyl (Sr)	55.3	µg/kg dry	36.9		150	30-150			
Matrix Spike Dup (5070576-MSD1)			Source: SA30631-01		Prepared: 12-Jul-05 Analyzed: 13-Jul-05				
PCB 1016	425	35.7 µg/kg dry	446	BRL	95.3	40-140	8.42	50	
PCB 1260	537	35.7 µg/kg dry	446	BRL	120	40-140	6.90	50	
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	28.6	µg/kg dry	35.7		80.1	30-150			
Surrogate: Decachlorobiphenyl (Sr)	26.8	µg/kg dry	35.7		75.1	30-150			

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070919 - SW846 3545A									
Blank (5070919-BLK1)			Prepared & Analyzed: 18-Jul-05						
Acenaphthene	BRL	165 µg/kg wet							
Acenaphthylene	BRL	165 µg/kg wet							
Aniline	BRL	165 µg/kg wet							
Anthracene	BRL	165 µg/kg wet							
Atrazine	BRL	165 µg/kg wet							
Azobenzene/Diphenyldiazine	BRL	165 µg/kg wet							
Benzidine	BRL	165 µg/kg wet							
Benzo (a) anthracene	BRL	165 µg/kg wet							
Benzo (a) pyrene	BRL	165 µg/kg wet							
Benzo (b) fluoranthene	BRL	165 µg/kg wet							
Benzo (g,h,i) perylene	BRL	165 µg/kg wet							
Benzo (k) fluoranthene	BRL	165 µg/kg wet							
Benzoic acid	BRL	165 µg/kg wet							
Benzyl alcohol	BRL	165 µg/kg wet							
Bis(2-chloroethoxy)methane	BRL	165 µg/kg wet							
Bis(2-chloroethyl)ether	BRL	165 µg/kg wet							
Bis(2-chloroisopropyl)ether	BRL	165 µg/kg wet							
Bis(2-ethylhexyl)phthalate	BRL	165 µg/kg wet							
4-Bromophenyl phenyl ether	BRL	165 µg/kg wet							
Butyl benzyl phthalate	BRL	165 µg/kg wet							
Carbazole	BRL	165 µg/kg wet							
4-Chloro-3-methylphenol	BRL	165 µg/kg wet							
4-Chloroaniline	BRL	165 µg/kg wet							
2-Chloronaphthalene	BRL	165 µg/kg wet							
2-Chlorophenol	BRL	165 µg/kg wet							
4-Chlorophenyl phenyl ether	BRL	165 µg/kg wet							
Chrysene	BRL	165 µg/kg wet							
Dibenzo (a,h) anthracene	BRL	165 µg/kg wet							
Dibenzofuran	BRL	165 µg/kg wet							
1,2-Dichlorobenzene	BRL	165 µg/kg wet							
1,3-Dichlorobenzene	BRL	165 µg/kg wet							
1,4-Dichlorobenzene	BRL	165 µg/kg wet							
3,3'-Dichlorobenzidine	BRL	165 µg/kg wet							
2,4-Dichlorophenol	BRL	165 µg/kg wet							
Diethyl phthalate	BRL	165 µg/kg wet							
Dimethyl phthalate	BRL	165 µg/kg wet							
2,4-Dimethylphenol	BRL	165 µg/kg wet							
Di-n-butyl phthalate	BRL	165 µg/kg wet							
4,6-Dinitro-2-methylphenol	BRL	165 µg/kg wet							
2,4-Dinitrophenol	BRL	165 µg/kg wet							
2,4-Dinitrotoluene	BRL	165 µg/kg wet							
2,6-Dinitrotoluene	BRL	165 µg/kg wet							
Di-n-octyl phthalate	BRL	165 µg/kg wet							
Fluoranthene	BRL	165 µg/kg wet							
Fluorene	BRL	165 µg/kg wet							
Hexachlorobenzene	BRL	165 µg/kg wet							
Hexachlorobutadiene	BRL	165 µg/kg wet							
Hexachlorocyclopentadiene	BRL	165 µg/kg wet							
Hexachloroethane	BRL	165 µg/kg wet							
Indeno (1,2,3-cd) pyrene	BRL	165 µg/kg wet							
1-Methylnaphthalene	BRL	165 µg/kg wet							
Isophorone	BRL	165 µg/kg wet							
2-Methylnaphthalene	BRL	165 µg/kg wet							
2-Methylphenol	BRL	165 µg/kg wet							

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070919 - SW846 3545A									
Blank (5070919-BLK1)			Prepared & Analyzed: 18-Jul-05						
3,4-Methylphenol	BRL	165 µg/kg wet							
Naphthalene	BRL	165 µg/kg wet							
2-Nitroaniline	BRL	165 µg/kg wet							
3-Nitroaniline	BRL	165 µg/kg wet							
4-Nitroaniline	BRL	660 µg/kg wet							
Nitrobenzene	BRL	165 µg/kg wet							
2-Nitrophenol	BRL	165 µg/kg wet							
4-Nitrophenol	BRL	660 µg/kg wet							
N-Nitrosodimethylamine	BRL	165 µg/kg wet							
N-Nitrosodi-n-propylamine	BRL	165 µg/kg wet							
N-Nitrosodiphenylamine	BRL	165 µg/kg wet							
Pentachlorophenol	BRL	660 µg/kg wet							
Phenanthrene	BRL	165 µg/kg wet							
Phenol	BRL	165 µg/kg wet							
Pyrene	BRL	165 µg/kg wet							
Pyridine	BRL	165 µg/kg wet							
1,2,4-Trichlorobenzene	BRL	165 µg/kg wet							
2,4,5-Trichlorophenol	BRL	165 µg/kg wet							
2,4,6-Trichlorophenol	BRL	165 µg/kg wet							
Surrogate: 2-Fluorobiphenyl	1340	µg/kg wet	3330		40.2	30-130			
Surrogate: 2-Fluorophenol	1580	µg/kg wet	3330		47.4	15-110			
Surrogate: Nitrobenzene-d5	1490	µg/kg wet	3330		44.7	30-130			
Surrogate: Phenol-d5	1460	µg/kg wet	3330		43.8	15-110			
Surrogate: Terphenyl-d14	1830	µg/kg wet	3330		55.0	30-130			
Surrogate: 2,4,6-Tribromophenol	832	µg/kg wet	3330		25.0	15-110			
LCS (5070919-BS1)			Prepared & Analyzed: 18-Jul-05						
Acenaphthene	2190	165 µg/kg wet	3330		65.8	40-130			
Acenaphthylene	2330	165 µg/kg wet	3330		70.0	40-130			
Aniline	2130	165 µg/kg wet	3330		64.0	40-130			
Anthracene	2410	165 µg/kg wet	3330		72.4	40-130			
Atrazine	2460	165 µg/kg wet	3330		73.9	40-130			
Azobenzene/Diphenyldiazine	2210	165 µg/kg wet	3330		66.4	40-130			
Benzidine	1490	165 µg/kg wet	3330		44.7	40-130			
Benzo (a) anthracene	2460	165 µg/kg wet	3330		73.9	40-130			
Benzo (a) pyrene	2120	165 µg/kg wet	3330		63.7	40-130			
Benzo (b) fluoranthene	1990	165 µg/kg wet	3330		59.8	40-130			
Benzo (g,h,i) perylene	2490	165 µg/kg wet	3330		74.8	40-130			
Benzo (k) fluoranthene	2030	165 µg/kg wet	3330		61.0	40-130			
Benzoic acid	192	165 µg/kg wet	3330		5.77	40-130			QC-2
Benzyl alcohol	3030	165 µg/kg wet	3330		91.0	40-130			
Bis(2-chloroethoxy)methane	1980	165 µg/kg wet	3330		59.5	40-130			
Bis(2-chloroethyl)ether	2230	165 µg/kg wet	3330		67.0	40-130			
Bis(2-chloroisopropyl)ether	2070	165 µg/kg wet	3330		62.2	40-130			
Bis(2-ethylhexyl)phthalate	2290	165 µg/kg wet	3330		68.8	40-130			
4-Bromophenyl phenyl ether	2370	165 µg/kg wet	3330		71.2	40-130			
Butyl benzyl phthalate	2290	165 µg/kg wet	3330		68.8	40-130			
Carbazole	2420	165 µg/kg wet	3330		72.7	40-130			
4-Chloro-3-methylphenol	2270	165 µg/kg wet	3330		68.2	40-130			
4-Chloroaniline	2050	165 µg/kg wet	3330		61.6	40-130			
2-Chloronaphthalene	2160	165 µg/kg wet	3330		64.9	40-130			
2-Chlorophenol	2160	165 µg/kg wet	3330		64.9	40-130			
4-Chlorophenyl phenyl ether	2460	165 µg/kg wet	3330		73.9	40-130			
Chrysene	2350	165 µg/kg wet	3330		70.6	40-130			
Dibenzo (a,h) anthracene	2230	165 µg/kg wet	3330		67.0	40-130			

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* Reportable Detection Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070919 - SW846 3545A									
LCS (5070919-BS1)			Prepared & Analyzed: 18-Jul-05						
Dibenzofuran	2250	165 µg/kg wet	3330		67.6	40-130			
1,2-Dichlorobenzene	2060	165 µg/kg wet	3330		61.9	40-130			
1,3-Dichlorobenzene	2120	165 µg/kg wet	3330		63.7	40-130			
1,4-Dichlorobenzene	2120	165 µg/kg wet	3330		63.7	40-130			
3,3'-Dichlorobenzidine	2740	165 µg/kg wet	3330		82.3	40-130			
2,4-Dichlorophenol	2030	165 µg/kg wet	3330		61.0	40-130			
Diethyl phthalate	2390	165 µg/kg wet	3330		71.8	40-130			
Dimethyl phthalate	2310	165 µg/kg wet	3330		69.4	40-130			
2,4-Dimethylphenol	2320	165 µg/kg wet	3330		69.7	40-130			
Di-n-butyl phthalate	2370	165 µg/kg wet	3330		71.2	40-130			
4,6-Dinitro-2-methylphenol	1440	165 µg/kg wet	3330		43.2	40-130			
2,4-Dinitrophenol	822	165 µg/kg wet	3330		24.7	40-130			QC-2
2,4-Dinitrotoluene	2400	165 µg/kg wet	3330		72.1	40-130			
2,6-Dinitrotoluene	2390	165 µg/kg wet	3330		71.8	40-130			
Di-n-octyl phthalate	1700	165 µg/kg wet	3330		51.1	40-130			
Fluoranthene	2510	165 µg/kg wet	3330		75.4	40-130			
Fluorene	2440	165 µg/kg wet	3330		73.3	40-130			
Hexachlorobenzene	2650	165 µg/kg wet	3330		79.6	40-130			
Hexachlorobutadiene	2090	165 µg/kg wet	3330		62.8	40-130			
Hexachlorocyclopentadiene	1850	165 µg/kg wet	3330		55.6	40-130			
Hexachloroethane	2060	165 µg/kg wet	3330		61.9	40-130			
Indeno (1,2,3-cd) pyrene	2610	165 µg/kg wet	3330		78.4	40-130			
Isophorone	2170	165 µg/kg wet	3330		65.2	40-130			
1-Methylnaphthalene	1930	165 µg/kg wet	3330		58.0	40-140			
2-Methylnaphthalene	2190	165 µg/kg wet	3330		65.8	40-130			
2-Methylphenol	2310	165 µg/kg wet	3330		69.4	40-130			
3,4-Methylphenol	2470	165 µg/kg wet	3330		74.2	40-130			
Naphthalene	2250	165 µg/kg wet	3330		67.6	40-130			
2-Nitroaniline	2290	165 µg/kg wet	3330		68.8	40-130			
3-Nitroaniline	2300	165 µg/kg wet	3330		69.1	40-130			
4-Nitroaniline	2480	660 µg/kg wet	3330		74.5	40-130			
Nitrobenzene	2090	165 µg/kg wet	3330		62.8	40-130			
2-Nitrophenol	2130	165 µg/kg wet	3330		64.0	40-130			
4-Nitrophenol	2360	660 µg/kg wet	3330		70.9	40-130			
N-Nitrosodimethylamine	1880	165 µg/kg wet	3330		56.5	40-130			
N-Nitrosodi-n-propylamine	2340	165 µg/kg wet	3330		70.3	40-130			
N-Nitrosodiphenylamine	2380	165 µg/kg wet	3330		71.5	40-130			
Pentachlorophenol	2100	660 µg/kg wet	3330		63.1	40-130			
Phenanthrene	2250	165 µg/kg wet	3330		67.6	40-130			
Phenol	2300	165 µg/kg wet	3330		69.1	40-130			
Pyrene	2230	165 µg/kg wet	3330		67.0	40-130			
Pyridine	1830	165 µg/kg wet	3330		55.0	40-130			
1,2,4-Trichlorobenzene	2060	165 µg/kg wet	3330		61.9	40-130			
2,4,5-Trichlorophenol	2160	165 µg/kg wet	3330		64.9	40-130			
2,4,6-Trichlorophenol	2570	165 µg/kg wet	3330		77.2	40-130			
Surrogate: 2-Fluorobiphenyl	2000	µg/kg wet	3330		60.1	30-130			
Surrogate: 2-Fluorophenol	1640	µg/kg wet	3330		49.2	15-110			
Surrogate: Nitrobenzene-d5	1870	µg/kg wet	3330		56.2	30-130			
Surrogate: Phenol-d5	1760	µg/kg wet	3330		52.9	15-110			
Surrogate: Terphenyl-d14	2110	µg/kg wet	3330		63.4	30-130			
Surrogate: 2,4,6-Tribromophenol	1940	µg/kg wet	3330		58.3	15-110			
Duplicate (5070919-DUP1)			Source: SA30965-01		Prepared & Analyzed: 18-Jul-05				
Acenaphthene	BRL	2140 µg/kg dry		BRL				50	
Acenaphthylene	BRL	2140 µg/kg dry		BRL				50	

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070919 - SW846 3545A									
Duplicate (5070919-DUP1)	Source: SA30965-01		Prepared & Analyzed: 18-Jul-05						
Aniline	BRL	2140 µg/kg dry		BRL				50	
Anthracene	BRL	2140 µg/kg dry		BRL				50	
Atrazine	BRL	2140 µg/kg dry		BRL				50	
Azobenzene/Diphenyldiazine	BRL	2140 µg/kg dry		BRL				50	
Benzidine	BRL	2140 µg/kg dry		BRL				50	
Benzo (a) anthracene	BRL	2140 µg/kg dry		383			2.91	50	
Benzo (a) pyrene	BRL	2140 µg/kg dry		220			14.7	50	
Benzo (b) fluoranthene	BRL	2140 µg/kg dry		BRL				50	
Benzo (g,h,i) perylene	BRL	2140 µg/kg dry		162				50	
Benzo (k) fluoranthene	BRL	2140 µg/kg dry		178			26.8	50	
Benzoic acid	BRL	2140 µg/kg dry		BRL				50	
Benzyl alcohol	BRL	2140 µg/kg dry		BRL				50	
Bis(2-chloroethoxy)methane	BRL	2140 µg/kg dry		BRL				50	
Bis(2-chloroethyl)ether	BRL	2140 µg/kg dry		BRL				50	
Bis(2-chloroisopropyl)ether	BRL	2140 µg/kg dry		BRL				50	
Bis(2-ethylhexyl)phthalate	BRL	2140 µg/kg dry		BRL				50	
4-Bromophenyl phenyl ether	BRL	2140 µg/kg dry		BRL				50	
Butyl benzyl phthalate	BRL	2140 µg/kg dry		BRL				50	
Carbazole	BRL	2140 µg/kg dry		BRL				50	
4-Chloro-3-methylphenol	BRL	2140 µg/kg dry		BRL				50	
4-Chloroaniline	BRL	2140 µg/kg dry		BRL				50	
2-Chloronaphthalene	BRL	2140 µg/kg dry		BRL				50	
2-Chlorophenol	BRL	2140 µg/kg dry		BRL				50	
4-Chlorophenyl phenyl ether	BRL	2140 µg/kg dry		BRL				50	
Chrysene	BRL	2140 µg/kg dry		433			0.231	50	
Dibenzo (a,h) anthracene	BRL	2140 µg/kg dry		BRL				50	
Dibenzofuran	BRL	2140 µg/kg dry		BRL				50	
1,2-Dichlorobenzene	BRL	2140 µg/kg dry		BRL				50	
1,3-Dichlorobenzene	BRL	2140 µg/kg dry		BRL				50	
1,4-Dichlorobenzene	BRL	2140 µg/kg dry		BRL				50	
3,3'-Dichlorobenzidine	BRL	2140 µg/kg dry		BRL				50	
2,4-Dichlorophenol	BRL	2140 µg/kg dry		BRL				50	
Diethyl phthalate	BRL	2140 µg/kg dry		BRL				50	
Dimethyl phthalate	BRL	2140 µg/kg dry		BRL				50	
2,4-Dimethylphenol	BRL	2140 µg/kg dry		BRL				50	
Di-n-butyl phthalate	BRL	2140 µg/kg dry		BRL				50	
4,6-Dinitro-2-methylphenol	BRL	2140 µg/kg dry		BRL				50	
2,4-Dinitrophenol	BRL	2140 µg/kg dry		BRL				50	
2,4-Dinitrotoluene	BRL	2140 µg/kg dry		BRL				50	
2,6-Dinitrotoluene	BRL	2140 µg/kg dry		BRL				50	
Di-n-octyl phthalate	BRL	2140 µg/kg dry		BRL				50	
Fluoranthene	BRL	2140 µg/kg dry		649			10.6	50	
Fluorene	BRL	2140 µg/kg dry		BRL				50	
Hexachlorobenzene	BRL	2140 µg/kg dry		BRL				50	
Hexachlorobutadiene	BRL	2140 µg/kg dry		BRL				50	
Hexachlorocyclopentadiene	BRL	2140 µg/kg dry		BRL				50	
Hexachloroethane	BRL	2140 µg/kg dry		BRL				50	
Indeno (1,2,3-cd) pyrene	BRL	2140 µg/kg dry		247			17.1	50	
1-Methylnaphthalene	BRL	2140 µg/kg dry		BRL				50	
Isophorone	BRL	2140 µg/kg dry		BRL				50	
2-Methylnaphthalene	BRL	2140 µg/kg dry		BRL				50	
2-Methylphenol	BRL	2140 µg/kg dry		BRL				50	
3,4-Methylphenol	BRL	2140 µg/kg dry		BRL				50	
Naphthalene	BRL	2140 µg/kg dry		BRL				50	

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* Reportable Detection Limit BRL = Below Reporting Limit

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070919 - SW846 3545A									
Duplicate (5070919-DUP1)	Source: SA30965-01		Prepared & Analyzed: 18-Jul-05						
2-Nitroaniline	BRL	2140 µg/kg dry		BRL				50	
3-Nitroaniline	BRL	2140 µg/kg dry		BRL				50	
4-Nitroaniline	BRL	8560 µg/kg dry		BRL				50	
Nitrobenzene	BRL	2140 µg/kg dry		BRL				50	
2-Nitrophenol	BRL	2140 µg/kg dry		BRL				50	
4-Nitrophenol	BRL	8560 µg/kg dry		BRL				50	
N-Nitrosodimethylamine	BRL	2140 µg/kg dry		BRL				50	
N-Nitrosodi-n-propylamine	BRL	2140 µg/kg dry		BRL				50	
N-Nitrosodiphenylamine	BRL	2140 µg/kg dry		BRL				50	
Pentachlorophenol	BRL	8560 µg/kg dry		BRL				50	
Phenanthrene	BRL	2140 µg/kg dry		348			0.573	50	
Phenol	BRL	2140 µg/kg dry		BRL				50	
Pyrene	BRL	2140 µg/kg dry		502			7.22	50	
Pyridine	BRL	2140 µg/kg dry		BRL				50	
1,2,4-Trichlorobenzene	BRL	2140 µg/kg dry		BRL				50	
2,4,5-Trichlorophenol	BRL	2140 µg/kg dry		BRL				50	
2,4,6-Trichlorophenol	BRL	2140 µg/kg dry		BRL				50	
Surrogate: 2-Fluorobiphenyl	2610	µg/kg dry	4320		60.4	30-130			
Surrogate: 2-Fluorophenol	2500	µg/kg dry	4320		57.9	15-110			
Surrogate: Nitrobenzene-d5	2260	µg/kg dry	4320		52.3	30-130			
Surrogate: Phenol-d5	2140	µg/kg dry	4320		49.5	15-110			
Surrogate: Terphenyl-dl4	1790	µg/kg dry	4320		41.4	30-130			
Surrogate: 2,4,6-Tribromophenol	2410	µg/kg dry	4320		55.8	15-110			
Matrix Spike (5070919-MS1)	Source: SA30965-01		Prepared & Analyzed: 18-Jul-05						
Acenaphthene	4550	2140 µg/kg dry	8650	BRL	52.6	40-140			
4-Chloro-3-methylphenol	4970	2140 µg/kg dry	8650	BRL	57.5	30-130			
2-Chlorophenol	5470	2140 µg/kg dry	8650	BRL	63.2	30-130			
1,4-Dichlorobenzene	5340	2140 µg/kg dry	8650	BRL	61.7	40-140			
2,4-Dinitrotoluene	5540	2140 µg/kg dry	8650	BRL	64.0	40-140			
4-Nitrophenol	6710	8570 µg/kg dry	8650	BRL	77.6	30-130			
N-Nitrosodi-n-propylamine	6690	2140 µg/kg dry	8650	BRL	77.3	40-140			
Pentachlorophenol	7980	8570 µg/kg dry	8650	BRL	92.3	30-130			
Phenol	5140	2140 µg/kg dry	8650	BRL	59.4	30-130			
Pyrene	3020	2140 µg/kg dry	8650	502	29.1	40-140			QM-01
1,2,4-Trichlorobenzene	4150	2140 µg/kg dry	8650	BRL	48.0	40-140			
Surrogate: 2-Fluorobiphenyl	3980	µg/kg dry	8650		46.0	30-130			
Surrogate: 2-Fluorophenol	4370	µg/kg dry	8650		50.5	15-110			
Surrogate: Nitrobenzene-d5	3890	µg/kg dry	8650		45.0	30-130			
Surrogate: Phenol-d5	4310	µg/kg dry	8650		49.8	15-110			
Surrogate: Terphenyl-dl4	2340	µg/kg dry	8650		27.1	30-130			S-01
Surrogate: 2,4,6-Tribromophenol	3730	µg/kg dry	8650		43.1	15-110			
Matrix Spike Dup (5070919-MSD1)	Source: SA30965-01		Prepared & Analyzed: 18-Jul-05						
Acenaphthene	5000	2150 µg/kg dry	8680	BRL	57.6	40-140	9.07	30	
4-Chloro-3-methylphenol	5960	2150 µg/kg dry	8680	BRL	68.7	30-130	17.7	30	
2-Chlorophenol	6060	2150 µg/kg dry	8680	BRL	69.8	30-130	9.92	30	
1,4-Dichlorobenzene	5680	2150 µg/kg dry	8680	BRL	65.4	40-140	5.82	30	
2,4-Dinitrotoluene	5460	2150 µg/kg dry	8680	BRL	62.9	40-140	1.73	30	
4-Nitrophenol	4800	8590 µg/kg dry	8680	BRL	55.3	30-130	33.6	30	QM-01
N-Nitrosodi-n-propylamine	6960	2150 µg/kg dry	8680	BRL	80.2	40-140	3.68	30	
Pentachlorophenol	8670	8590 µg/kg dry	8680	BRL	99.9	30-130	7.91	30	
Phenol	5980	2150 µg/kg dry	8680	BRL	68.9	30-130	14.8	30	
Pyrene	3460	2150 µg/kg dry	8680	502	34.1	40-140	15.8	30	QM-01
1,2,4-Trichlorobenzene	4720	2150 µg/kg dry	8680	BRL	54.4	40-140	12.5	30	

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 42 of 54

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070919 - SW846 3545A									
Matrix Spike Dup (5070919-MSD1)		Source: SA30965-01		Prepared & Analyzed: 18-Jul-05					
Surrogate: 2-Fluorobiphenyl	4530	µg/kg dry	8680		52.2	30-130			
Surrogate: 2-Fluorophenol	4690	µg/kg dry	8680		54.0	15-110			
Surrogate: Nitrobenzene-d5	4690	µg/kg dry	8680		54.0	30-130			
Surrogate: Phenol-d5	4830	µg/kg dry	8680		55.6	15-110			
Surrogate: Terphenyl-d14	2670	µg/kg dry	8680		30.8	30-130			
Surrogate: 2,4,6-Tribromophenol	4890	µg/kg dry	8680		56.3	15-110			

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070797 - EPA200/SW7000 Series									
Blank (5070797-BLK1)		Prepared: 18-Jul-05 Analyzed: 19-Jul-05							
Mercury	BRL	0.179 mg/kg wet							
LCS (5070797-BS1)		Prepared: 18-Jul-05 Analyzed: 19-Jul-05							
Mercury	0.955	0.179 mg/kg wet	0.893		107	80-120			
Duplicate (5070797-DUP1)		Source: SA30573-26		Prepared: 18-Jul-05 Analyzed: 19-Jul-05					
Mercury	BRL	0.202 mg/kg dry		0.142			23.6	35	
Matrix Spike (5070797-MS1)		Source: SA30573-26		Prepared: 18-Jul-05 Analyzed: 19-Jul-05					
Mercury	0.581	0.181 mg/kg dry	0.421	0.142	104	75-125			
Matrix Spike Dup (5070797-MSD1)		Source: SA30573-26		Prepared: 18-Jul-05 Analyzed: 19-Jul-05					
Mercury	0.625	0.193 mg/kg dry	0.449	0.142	108	75-125	7.30	35	
Reference (5070797-SRM1)		Prepared: 18-Jul-05 Analyzed: 19-Jul-05							
Mercury	1.15	0.179 mg/kg wet	1.26		91.3	85-115			

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 43 of 54

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070766 - EPA 200 Series									
Blank (5070766-BLK1)			Prepared: 14-Jul-05 Analyzed: 15-Jul-05						
Zinc	1.45	1.00 mg/kg wet							QB-01
Nickel	BRL	1.00 mg/kg wet							
Chromium	BRL	1.00 mg/kg wet							
Copper	BRL	1.00 mg/kg wet							
LCS (5070766-BS1)			Prepared: 14-Jul-05 Analyzed: 15-Jul-05						
Nickel	95.5	1.00 mg/kg wet	100		95.5	85-115			
Zinc	102	1.00 mg/kg wet	100		102	85-115			
Copper	103	1.00 mg/kg wet	100		103	85-115			
Chromium	102	1.00 mg/kg wet	100		102	85-115			
Duplicate (5070766-DUP1)			Source: SA30653-07		Prepared: 14-Jul-05 Analyzed: 15-Jul-05				
Zinc	13.5	0.542 mg/kg dry		14.0			3.64	35	
Nickel	4.67	0.542 mg/kg dry		5.79			21.4	35	
Chromium	7.49	0.542 mg/kg dry		14.2			61.9	35	QR-05
Copper	5.70	0.542 mg/kg dry		5.36			6.15	35	
Duplicate (5070766-DUP2)			Source: SA30787-01		Prepared: 14-Jul-05 Analyzed: 15-Jul-05				
Zinc	690	0.581 mg/kg dry		682			1.17	35	
Nickel	39.2	0.581 mg/kg dry		40.8			4.00	35	
Chromium	14.0	0.581 mg/kg dry		14.7			4.88	35	
Copper	115	0.581 mg/kg dry		125			8.33	35	
Matrix Spike (5070766-MS1)			Source: SA30653-01		Prepared: 14-Jul-05 Analyzed: 15-Jul-05				
Nickel	52.4	0.502 mg/kg dry	50.2	4.50	95.4	70-130			
Zinc	65.2	0.502 mg/kg dry	50.2	16.3	97.4	70-130			
Chromium	54.9	0.502 mg/kg dry	50.2	5.12	99.2	70-130			
Copper	59.0	0.502 mg/kg dry	50.2	9.50	98.6	70-130			
Matrix Spike (5070766-MS2)			Source: SA30779-01		Prepared: 14-Jul-05 Analyzed: 15-Jul-05				
Nickel	69.0	0.605 mg/kg dry	60.5	18.3	83.8	70-130			
Zinc	189	0.605 mg/kg dry	60.5	130	97.5	70-130			
Copper	127	0.605 mg/kg dry	60.5	66.6	99.8	70-130			
Chromium	76.0	0.605 mg/kg dry	60.5	19.1	94.0	70-130			
Matrix Spike Dup (5070766-MSD1)			Source: SA30653-01		Prepared: 14-Jul-05 Analyzed: 15-Jul-05				
Zinc	67.5	0.511 mg/kg dry	51.1	16.3	100	70-130	3.47	35	
Nickel	53.0	0.511 mg/kg dry	51.1	4.50	94.9	70-130	1.14	35	
Copper	59.0	0.511 mg/kg dry	51.1	9.50	96.9	70-130	0.00	35	
Chromium	56.7	0.511 mg/kg dry	51.1	5.12	101	70-130	3.23	35	
Matrix Spike Dup (5070766-MSD2)			Source: SA30779-01		Prepared: 14-Jul-05 Analyzed: 15-Jul-05				
Zinc	207	0.611 mg/kg dry	61.1	130	126	70-130	9.09	35	
Nickel	75.8	0.611 mg/kg dry	61.1	18.3	94.1	70-130	9.39	35	
Copper	136	0.611 mg/kg dry	61.1	66.6	114	70-130	6.84	35	
Chromium	81.0	0.611 mg/kg dry	61.1	19.1	101	70-130	6.37	35	
Reference (5070766-SRM1)			Prepared: 14-Jul-05 Analyzed: 15-Jul-05						
Nickel	52.7	1.00 mg/kg wet	52.8		99.8	85-115			
Zinc	663	1.00 mg/kg wet	662		100	85-115			
Copper	75.3	1.00 mg/kg wet	69.3		109	85-115			
Chromium	62.0	1.00 mg/kg wet	59.0		105	85-115			
Batch 5070796 - EPA 200 Series									
Blank (5070796-BLK1)			Prepared: 18-Jul-05 Analyzed: 21-Jul-05						
Zinc	BRL	3.50 mg/kg wet							
Silver	BRL	2.00 mg/kg wet							
Selenium	BRL	3.00 mg/kg wet							
Nickel	BRL	1.00 mg/kg wet							

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* Reportable Detection Limit BRL = Below Reporting Limit

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070796 - EPA 200 Series									
Blank (5070796-BLK1)			Prepared: 18-Jul-05 Analyzed: 21-Jul-05						
Copper	BRL	1.00 mg/kg wet							
Arsenic	BRL	3.00 mg/kg wet							
Chromium	BRL	1.00 mg/kg wet							
Cadmium	BRL	0.500 mg/kg wet							
Lead	BRL	1.50 mg/kg wet							
Barium	BRL	1.00 mg/kg wet							
LCS (5070796-BS1)			Prepared: 18-Jul-05 Analyzed: 21-Jul-05						
Silver	45.8	2.00 mg/kg wet	50.0		91.6	85-115			
Selenium	96.3	3.00 mg/kg wet	100		96.3	85-115			
Nickel	87.5	1.00 mg/kg wet	100		87.5	85-115			
Zinc	95.0	1.00 mg/kg wet	100		95.0	85-115			
Chromium	90.4	1.00 mg/kg wet	100		90.4	85-115			
Cadmium	91.7	0.500 mg/kg wet	100		91.7	85-115			
Lead	87.0	1.50 mg/kg wet	100		87.0	85-115			
Arsenic	92.8	3.00 mg/kg wet	100		92.8	85-115			
Copper	86.6	1.00 mg/kg wet	100		86.6	85-115			
Barium	90.2	1.00 mg/kg wet	100		90.2	85-115			
Duplicate (5070796-DUP1)			Source: SA30573-17		Prepared: 18-Jul-05 Analyzed: 21-Jul-05				
Selenium	BRL	1.67 mg/kg dry		BRL				35	
Nickel	31.6	0.555 mg/kg dry		29.3			7.55	35	
Zinc	32.9	0.555 mg/kg dry		30.3			8.23	35	
Silver	16.6	1.11 mg/kg dry		15.6			6.21	35	
Lead	5.77	0.833 mg/kg dry		4.09			34.1	35	
Arsenic	BRL	1.67 mg/kg dry		1.62			4.42	35	
Cadmium	0.838	0.278 mg/kg dry		0.580			36.4	35	QR-05
Chromium	19.1	0.555 mg/kg dry		19.1			0.00	35	
Copper	120	0.555 mg/kg dry		113			6.01	35	
Barium	27.1	0.555 mg/kg dry		27.3			0.735	35	
Duplicate (5070796-DUP2)			Source: SA30573-19		Prepared: 18-Jul-05 Analyzed: 21-Jul-05				
Silver	24.0	1.09 mg/kg dry		74.0			102	35	QR-05
Zinc	28.4	0.544 mg/kg dry		34.4			19.1	35	
Nickel	18.6	0.544 mg/kg dry		18.5			0.539	35	
Selenium	BRL	1.63 mg/kg dry		BRL				35	
Cadmium	0.413	0.272 mg/kg dry		0.469			12.7	35	
Copper	58.8	0.544 mg/kg dry		59.8			1.69	35	
Lead	BRL	0.816 mg/kg dry		0.383			22.7	35	
Chromium	20.9	0.544 mg/kg dry		22.9			9.13	35	
Arsenic	BRL	1.63 mg/kg dry		1.19			2.55	35	
Barium	16.6	0.544 mg/kg dry		17.7			6.41	35	
Matrix Spike (5070796-MS1)			Source: SA30573-13		Prepared: 18-Jul-05 Analyzed: 21-Jul-05				
Nickel	47.9	0.561 mg/kg dry	56.1	13.4	61.5	70-130			QM-07
Selenium	40.2	1.68 mg/kg dry	56.1	BRL	71.7	70-130			
Silver	21.7	1.12 mg/kg dry	28.1	1.36	72.4	70-130			
Zinc	58.9	0.561 mg/kg dry	56.1	21.3	67.0	70-130			QM-07
Chromium	54.0	0.561 mg/kg dry	56.1	15.9	67.9	70-130			QM-07
Lead	39.7	0.842 mg/kg dry	56.1	0.393	70.1	70-130			
Cadmium	38.1	0.281 mg/kg dry	56.1	0.304	67.4	70-130			QM-07
Arsenic	44.2	1.68 mg/kg dry	56.1	1.66	75.8	70-130			
Copper	92.5	0.561 mg/kg dry	56.1	61.2	55.8	70-130			QM-07
Barium	70.9	0.561 mg/kg dry	56.1	36.9	60.6	70-130			QM-07
Matrix Spike (5070796-MS2)			Source: SA30588-08		Prepared: 18-Jul-05 Analyzed: 21-Jul-05				
Nickel	59.1	0.593 mg/kg dry	59.3	5.01	91.2	70-130			

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* Reportable Detection Limit BRL = Below Reporting Limit

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070796 - EPA 200 Series									
Matrix Spike (5070796-MS2)		Source: SA30588-08		Prepared: 18-Jul-05 Analyzed: 21-Jul-05					
Silver	28.4	1.19 mg/kg dry	29.7	BRL	95.6	70-130			
Selenium	57.0	1.78 mg/kg dry	59.3	BRL	96.1	70-130			
Zinc	66.3	0.593 mg/kg dry	59.3	9.04	96.6	70-130			
Lead	60.2	0.890 mg/kg dry	59.3	5.40	92.4	70-130			
Arsenic	58.3	1.78 mg/kg dry	59.3	BRL	98.3	70-130			
Cadmium	57.0	0.297 mg/kg dry	59.3	0.210	95.8	70-130			
Chromium	64.9	0.593 mg/kg dry	59.3	9.43	93.5	70-130			
Copper	62.0	0.593 mg/kg dry	59.3	5.06	96.0	70-130			
Barium	69.6	0.593 mg/kg dry	59.3	13.6	94.4	70-130			
Matrix Spike Dup (5070796-MSD1)		Source: SA30573-13		Prepared: 18-Jul-05 Analyzed: 21-Jul-05					
Selenium	43.9	1.68 mg/kg dry	56.0	BRL	78.4	70-130	8.80	35	
Silver	24.5	1.12 mg/kg dry	28.0	1.36	82.6	70-130	12.1	35	
Zinc	58.8	0.560 mg/kg dry	56.0	21.3	67.0	70-130	0.170	35	QM-07
Nickel	51.3	0.560 mg/kg dry	56.0	13.4	67.7	70-130	6.85	35	QM-07
Chromium	55.9	0.560 mg/kg dry	56.0	15.9	71.4	70-130	3.46	35	
Copper	101	0.560 mg/kg dry	56.0	61.2	71.1	70-130	8.79	35	
Lead	42.5	0.840 mg/kg dry	56.0	0.393	75.2	70-130	6.81	35	
Arsenic	48.9	1.68 mg/kg dry	56.0	1.66	84.4	70-130	10.1	35	
Cadmium	41.1	0.280 mg/kg dry	56.0	0.304	72.8	70-130	7.58	35	
Barium	73.1	0.560 mg/kg dry	56.0	36.9	64.6	70-130	3.06	35	QM-07
Matrix Spike Dup (5070796-MSD2)		Source: SA30588-08		Prepared: 18-Jul-05 Analyzed: 21-Jul-05					
Silver	28.7	1.20 mg/kg dry	30.0	BRL	95.7	70-130	1.05	35	
Nickel	57.7	0.601 mg/kg dry	60.1	5.01	87.7	70-130	2.40	35	
Selenium	59.0	1.80 mg/kg dry	60.1	BRL	98.2	70-130	3.45	35	
Zinc	66.9	0.601 mg/kg dry	60.1	9.04	96.3	70-130	0.901	35	
Chromium	66.1	0.601 mg/kg dry	60.1	9.43	94.3	70-130	1.83	35	
Cadmium	57.7	0.300 mg/kg dry	60.1	0.210	95.7	70-130	1.22	35	
Lead	60.8	0.901 mg/kg dry	60.1	5.40	92.2	70-130	0.992	35	
Arsenic	59.8	1.80 mg/kg dry	60.1	BRL	99.5	70-130	2.54	35	
Copper	63.0	0.601 mg/kg dry	60.1	5.06	96.4	70-130	1.60	35	
Barium	70.1	0.601 mg/kg dry	60.1	13.6	94.0	70-130	0.716	35	
Reference (5070796-SRM1)		Prepared: 18-Jul-05 Analyzed: 21-Jul-05							
Nickel	47.2	1.00 mg/kg wet	50.0		94.4	85-115			
Selenium	111	3.00 mg/kg wet	110		101	85-115			
Zinc	605	1.00 mg/kg wet	627		96.5	85-115			
Silver	25.1	2.00 mg/kg wet	25.4		98.8	85-115			
Cadmium	111	0.500 mg/kg wet	113		98.2	85-115			
Chromium	57.9	1.00 mg/kg wet	55.9		104	85-115			
Lead	121	1.50 mg/kg wet	124		97.6	85-115			
Arsenic	69.9	3.00 mg/kg wet	69.9		100	85-115			
Copper	66.2	1.00 mg/kg wet	65.7		101	85-115			

Toxicity Characteristics - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070458 - General Preparation									
Duplicate (5070458-DUP1)		Source: SA30573-26		Prepared & Analyzed: 08-Jul-05					
pH	7.40	pH Units		7.39			0.135	5	

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

General Chemistry Parameters - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070619 - General Preparation									
Duplicate (5070619-DUP1)	Source: SA30573-20		Prepared & Analyzed: 12-Jul-05						
% Solids	92.3	%		92.5			0.216	20	
Batch 5070621 - General Preparation									
Duplicate (5070621-DUP1)	Source: SA30719-01		Prepared: 12-Jul-05 Analyzed: 13-Jul-05						
% Solids	99.0	%		98.9			0.101	20	
Batch 5070623 - General Preparation									
Duplicate (5070623-DUP1)	Source: SA30655-03		Prepared: 12-Jul-05 Analyzed: 13-Jul-05						
% Solids	90.4	%		74.7			19.0	20	
Batch 5070630 - General Preparation									
Blank (5070630-BLK1)	Prepared: 11-Jul-05 Analyzed: 12-Jul-05								
Cyanide (total)	BRL	1.00 mg/kg wet							
LCS (5070630-BS1)	Prepared: 11-Jul-05 Analyzed: 12-Jul-05								
Cyanide (total)	29.8	1.00 mg/kg wet	30.0		99.3	90-110			
Matrix Spike (5070630-MS1)	Source: SA30573-03		Prepared: 11-Jul-05 Analyzed: 12-Jul-05						
Cyanide (total)	31.1	1.08 mg/kg dry	32.5	BRL	95.7	75-125			
Matrix Spike Dup (5070630-MSD1)	Source: SA30573-03		Prepared: 11-Jul-05 Analyzed: 12-Jul-05						
Cyanide (total)	31.6	1.09 mg/kg dry	32.7	BRL	96.6	75-125	1.59	20	
Reference (5070630-SRM1)	Prepared: 11-Jul-05 Analyzed: 12-Jul-05								
Cyanide (total)	169	4.73 mg/kg wet	122		139	40-160			
Batch 5070819 - General Preparation									
Blank (5070819-BLK1)	Prepared & Analyzed: 14-Jul-05								
Hexavalent Chromium	BRL	10.0 mg/kg wet							
LCS (5070819-BS1)	Prepared & Analyzed: 14-Jul-05								
Hexavalent Chromium	21.8	10.0 mg/kg wet	20.0		109	90-110			
Duplicate (5070819-DUP1)	Source: SA30573-26		Prepared & Analyzed: 14-Jul-05						
Hexavalent Chromium	BRL	11.3 mg/kg dry		0.00				35	
Matrix Spike (5070819-MS1)	Source: SA30573-26		Prepared & Analyzed: 14-Jul-05						
Hexavalent Chromium	24.8	11.3 mg/kg dry	22.7	0.00	109	75-125			
Matrix Spike Dup (5070819-MSD1)	Source: SA30573-26		Prepared & Analyzed: 14-Jul-05						
Hexavalent Chromium	23.9	11.3 mg/kg dry	22.6	0.00	106	75-125	3.70	35	
Reference (5070819-SRM1)	Prepared & Analyzed: 14-Jul-05								
Hexavalent Chromium	111	21.5 mg/kg wet	117		94.9	65.6-134			
Batch 5070847 - General Preparation									
Blank (5070847-BLK1)	Prepared: 13-Jul-05 Analyzed: 14-Jul-05								
Cyanide (total)	BRL	1.00 mg/kg wet							
LCS (5070847-BS1)	Prepared: 13-Jul-05 Analyzed: 14-Jul-05								
Cyanide (total)	30.7	1.00 mg/kg wet	30.0		102	90-110			
Matrix Spike (5070847-MS1)	Source: SA30573-07		Prepared: 13-Jul-05 Analyzed: 14-Jul-05						
Cyanide (total)	35.0	1.11 mg/kg dry	33.3	1.72	99.9	75-125			
Matrix Spike Dup (5070847-MSD1)	Source: SA30573-07		Prepared: 13-Jul-05 Analyzed: 14-Jul-05						
Cyanide (total)	35.7	1.10 mg/kg dry	33.0	1.72	103	75-125	1.98	20	
Reference (5070847-SRM1)	Prepared: 13-Jul-05 Analyzed: 14-Jul-05								
Cyanide (total)	162	4.98 mg/kg wet	122		133	40-160			
Batch 5070848 - General Preparation									
Blank (5070848-BLK1)	Prepared & Analyzed: 14-Jul-05								

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* Reportable Detection Limit BRL = Below Reporting Limit

General Chemistry Parameters - Quality Control

Analyte(s)	Result	*RDL Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 5070848 - General Preparation									
Blank (5070848-BLK1)			Prepared & Analyzed: 14-Jul-05						
Cyanide (total)	BRL	1.00 mg/kg wet							
Blank (5070848-BLK2)			Prepared & Analyzed: 14-Jul-05						
Cyanide (total)	BRL	1.00 mg/kg wet							
LCS (5070848-BS1)			Prepared & Analyzed: 14-Jul-05						
Cyanide (total)	29.0	1.00 mg/kg wet	30.0		96.7	90-110			
LCS (5070848-BS2)			Prepared & Analyzed: 14-Jul-05						
Cyanide (total)	29.7	1.00 mg/kg wet	30.0		99.0	90-110			
Matrix Spike (5070848-MS1)			Source: SA30573-12		Prepared & Analyzed: 14-Jul-05				
Cyanide (total)	32.7	1.05 mg/kg dry	31.6	BRL	103	75-125			
Matrix Spike Dup (5070848-MSD1)			Source: SA30573-12		Prepared & Analyzed: 14-Jul-05				
Cyanide (total)	33.1	1.05 mg/kg dry	31.6	BRL	105	75-125	1.22	20	
Reference (5070848-SRM1)			Prepared & Analyzed: 14-Jul-05						
Cyanide (total)	141	4.67 mg/kg wet	122		116	40-160			

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit BRL = Below Reporting Limit

Notes and Definitions

QB-01	The method blank contains analyte at a concentration above the MRL; however, concentration is less than 10% of the sample result, which is negligible according to method criteria.
QC-1	Analyte out of acceptance range.
QC-2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR-05	RPD out of acceptance range.
S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
vext2	Field extracted
VOC10	The VOC field preserved soil sample is not within the 1:1 weight to volume ratio as recommended by SW846 methods 5030 and 5035 but may be within the 1:1 volume to volume ratio.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown



CHAIN OF CUSTODY RECORD

Page 1 of 4

84 30523

- Special Handling: 10
- ☒ Standard TAT - 7 to 10 business days
 - ☐ Rush TAT - Date Needed: _____
 - All TATs subject to laboratory approval.
 - Min. 24-hour notification needed for rushes.
 - Samples disposed of after 60 days unless otherwise instructed.

Report To: ERM
5788 Widewaters Parkway
Dewitt, NY 13214

Invoice To: _____

Project No.: 0032572

Site Name: General Super Plating

Location: Dewitt State: NY

Project Mgr.: Ed Hinchey

P.O. No.: 0032572 RQN: Special Rates

Sampler(s): Mike Nigro and Rob Sents

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
 7=CH₃OH 8=NaHSO₄ 9=None 10=_____

Containers:

Analyses:

QA Reporting Notes:
 (check if needed)

DW=Drinking Water GW=Groundwater WW=Wastewater
 O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
 X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Total Chromium	Total Copper	Total Nickel	Total Zinc	Total Cyanide	QA Reporting Notes: (check if needed)
GSP-SSS-B-12(0-6")		7/5/05	1000	G	SO	9	1				X	X	X	X	X	30523-01
GSP-SSS-B-12(12-18")			1000													-02
GSP-SSS-B-4(0-6")			1155													-03
GSP-SSS-B-4(12-18")			1155													-04
GSP-SSS-B-9(0-6")			1425													-05
GSP-SSS-B-9(12-18")			1425													-06
GSP-SSS-B-1(0-6")		7/6/05	0940													-07
GSP-SSS-B-1(12-18")			0940													-08
GSP-SSS-B-5(0-6")			1105													-09
GSP-SSS-B-5(12-18")			1105													-10

☐ Fax results when available to (315) 445-2543

☐ E-mail to ed.hinchey@erm.com

EDD Format _____

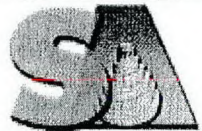
Condition upon receipt: ☒ Ice ☐ Ambient ☐ °C 2

Relinquished by: Michael J. Nigro
Ed & B

Received by: AK Witekis

Date: 7/7/05 Time: 1710

Date: 7/8/05 Time: 830



SPECTRUM ANALYTICAL, INC.
Featuring
HARBOR TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 84

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____
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 - Min. 24-hour notification needed for rushes.
 - Samples disposed of after 60 days unless otherwise instructed.

Report To: ERM
5788 Widewaters Parkway
Dewitt, NY 13214

Invoice To: _____
SAME

Project No.: 0032572
 Site Name: General Super Plating
 Location: Dewitt State: NY
 Sampler(s): MW and RS

Project Mgr.: Ed Hinchey

P.O. No.: 0032572 RQN: Special Rates

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
 7=CH₃OH 8=NaHSO₄ 9=None 10=

DW=Drinking Water GW=Groundwater WW=Wastewater
 O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
 X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Total Chromium	Total Copper	Total Nickel	Total Zinc	Total Cyanide	QA Reporting Notes: (check if needed)
GSP-SSS-B-6(0-6")	7/6/05	1150	G	SO	9						X	X	X	X	X	30573-11
GSP-SSS-B-6(12-18")		1150														-12
GSP-SSS-B-2(0-6")		1235														-13
GSP-SSS-B-2(12-18")		1235														-14
GSP-SSS-B-7(0-6")		1500														-15
GSP-SSS-B-7(12-18")		1500														-16
GSP-SSS-B-3(0-6")		1545														-17
GSP-SSS-B-3(12-18")	7/7/05	0935	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	-18
GSP-SSS-B-8(0-6")	7/7/05	0935	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	-19
GSP-SSS-B-8(12-18")		0935	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓ -20

☐ Fax results when available to (315) 445-2543
☐ E-mail to ed.hinchey@erm.com
 EDD Format _____

Condition upon receipt: ☒ Fed ☐ Ambient ☐ °C 2

Relinquished by:
Michael Nijer
Today

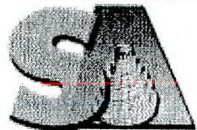
Received by:

Kurt Kusin

Date:

7/7/05 1710
 7/8/05 830

Time:



SPECTRUM ANALYTICAL, INC.
Featuring
MANUAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 3 of 4

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
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- Samples disposed of after 60 days unless otherwise instructed.

Report To: ERM
5788 Widewaters Parkway
Dewitt, NY 13214

Invoice To: _____

Project No.: 0032572

Site Name: General Super Plating

Location: Dewitt State: NY

Project Mgr.: Ed Hinchey

P.O. No.: 0032572 RQN: Special Rates

Sampler(s): MN and RS

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=None 10=_____

Containers:

Analyses:

QA Reporting Notes: (check if needed)

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Total Chromium	Total Copper	Total Nickel	Total Zinc	Total Cyanide
GSP-SSS-B-10(0-6")	7/7/05	1030	G	SO	9						X	X	X	X	X
GSP-SSS-B-10(12-18")		1050													
GSP-SSS-B-11(0-6")		1115													
GSP-SSS-B-11(12-18")		1115													

State specific reporting standards
If applicable, please list below.

- ☐ Provide MCP CAM Report
- Were all field QC requirements met as per MADEP CAM Section 2.B?
- ☐ Yes ☐ No
- (Response required for CEM report)

☐ Fax results when available to (315) 445-2543

☐ E-mail to Ed.Hinchey@erm.com

EDD Format _____

Condition upon receipt: ☒ Filled ☐ Ambient ☐ °C 2

Relinquished by:

Received by:

Date:

Time:

Michael J. Nigro
Ed Hinchey

Kevin K...

7/7/05 1710

7/8/05 830



CHAIN OF CUSTODY RECORD

Page 4 of 4

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: ERM
5788 Widewaters Parkway
Dewitt, NY 13214

Invoice To: _____

Project No.: 0032572

Site Name: General Super Plating

Location: Dewitt State: NY

Project Mgr.: Ed Hinchey

P.O. No.: 0032572 RQN: Special Rates

Sampler(s): MN and RS

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=None 10=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Containers:

Analyses:

QA Reporting Notes: (check if needed)

State specific reporting standards
If applicable, please list below.

- ☐ Provide MCP CAM Report
- Were all field QC requirements met as per MADEP CAM Section 2.0?
- ☐ Yes ☐ No
- (Response required for CAM report)

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	SVOC's 8270	VOC's 8260	Total Mercury	PCRA 8 Metals	pH	Total Cyanide	Hex Chlorobiphenyl	PCBS 8082
30573-25 GSP-SSS-B-4(0-6")		7/7/05	1215	G	SO	7/8	2				X	X						
30573-26 GSP-SSS-B-4(0-6")		7/7/05	1255	G	SO	9	1				X		X	X	X	X	X	X

use for Dry wt
See phmology

☐ Fax results when available to (315) 445-2554
☐ E-mail to ed.hinchey@erm.com
EDD Format _____

Relinquished by:

Received by:

Date:

Time:

Michael J. Nigro
Fedex

Kueller

7/7/05 1710
7/8/05 830

Condition upon receipt: ☒ Iced ☐ Ambient ☐ °C 2

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. All applicable NELAC requirements have been met.

Please note that this report contains 54 pages of analytical data including Chain of Custody document(s).

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Connecticut # PH-0777

Florida # E87600/E87936

Maine # MA138

New Hampshire # 2538/2972

New York # 11393/11840

Rhode Island # 98

USDA # S-51435

Vermont # VT-11393



Authorized by:

Hanibal C. Tayeh, Ph.D.

President/Laboratory Director

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