



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Trace Analysis, Inc.

Certificate of Analysis Number:
07010329

Report To: Trace Analysis, Inc. Nell Green 6701 Aberdeen Avenue Suite 9 Lubbock TX 79424- ph: (806) 794-1296 fax:	Project Name: Trace Analysis Site: 6701 Aberdeen Ave. Site Address: 6701 Aberdeen Avenue, Ste. 9 Lubbock TX 79424 PO Number: State: Texas State Cert. No.: T104704205-06-TX Date Reported: 1/12/2007
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This Report Contains A Total Of 7 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

1/15/2007

Date



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Case Narrative for:
Trace Analysis, Inc.

Certificate of Analysis Number:
07010329

<p>Report To:</p> <p>Trace Analysis, Inc. Nell Green 6701 Aberdeen Avenue Suite 9 Lubbock TX 79424- ph: (806) 794-1296 fax:</p>	<p>Project Name: Trace Analysis</p> <p>Site: 6701 Aberdeen Ave.</p> <p>Site Address: 6701 Aberdeen Avenue, Ste. 9 Lubbock TX 79424</p> <p>PO Number:</p> <p>State: Texas</p> <p>State Cert. No.: T104704205-06-TX</p> <p>Date Reported: 1/12/2007</p>
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Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg/kg-dry " or " ug/kg-dry ").

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

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1/15/2007

Erica Cardenas
 Project Manager

Test results meet all requirements of NELAC, unless specified in the narrative.

Date



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Certificate of Analysis Number:

07010329

Report To: Trace Analysis, Inc.
 Nell Green
 6701 Aberdeen Avenue
 Suite 9
 Lubbock
 TX
 79424-
 ph: (806) 794-1296 fax: (806) 794-1298

Project Name: Trace Analysis
Site: 6701 Aberdeen Ave.
Site Address: 6701 Aberdeen Avenue, Ste. 9
 Lubbock TX 79424
PO Number:
State: Texas
State Cert. No.: T104704205-06-TX
Date Reported: 1/12/2007

Fax To:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
113085	07010329-01	Water	1/3/2007	1/9/2007 9:30:00 AM		<input type="checkbox"/>

1/15/2007

Date

Erica Cardenas
 Project Manager

Joel Grice
 Laboratory Director

Ted Yen
 Quality Assurance Officer



HOUSTON LABORATORY
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Client Sample ID: 113085

Collected: 01/03/2007 0:00

SPL Sample ID: 07010329-01

Site: 6701 Aberdeen Ave.

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE HYDROCARBONS - GLYCOL				MCL	SW8015B	Units: mg/L	
Ethylene Glycol	ND		20	1	01/10/07 14:53	MNR	3623495
Surr: Isobutanol	102		% 50-150	1	01/10/07 14:53	MNR	3623495

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
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Trace Analysis, Inc.
Trace Analysis

Analysis: Semivolatile Hydrocarbons - Glycol
Method: SW8015B

WorkOrder: 07010329
Lab Batch ID: R189261

Method Blank Samples in Analytical Batch:
RunID: HP_T_070110A-3623491 Units: mg/L Lab Sample ID Client Sample ID
Analysis Date: 01/10/2007 13:19 Analyst: MNR 07010329-01A 113085

Table with 3 columns: Analyte, Result, Rep Limit. Rows: Ethylene Glycol (ND, 10), Surr: Isobutanol (65.4, 50-150)

Laboratory Control Sample (LCS)

RunID: HP_T_070110A-3623490 Units: mg/L
Analysis Date: 01/10/2007 12:56 Analyst: MNR

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Row: Ethylene Glycol (400, 347, 86.7, 61, 135)

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

Sample Spiked: 07010329-01
RunID: HP_T_070110A-3623496 Units: mg/L
Analysis Date: 01/10/2007 15:16 Analyst: MNR

Table with 12 columns: Analyte, Sample Result, MS Spike Added, MS Result, MS % Recovery, MSD Spike Added, MSD Result, MSD % Recovery, RPD, RPD Limit, Low Limit, High Limit. Row: Ethylene Glycol (ND, 200, 186, 93.0, 200, 193, 96.7, 3.90, 20, 25, 151)

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
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Sample Receipt Checklist

Workorder:	07010329	Received By:	NB
Date and Time Received:	1/9/2007 9:30:00 AM	Carrier name:	UPS
Temperature:	2.0°C	Chilled by:	Water Ice

1. Shipping container/cooler in good condition? Yes No Not Present
2. Custody seals intact on shipping container/cooler? Yes No Not Present
3. Custody seals intact on sample bottles? Yes No Not Present
4. Chain of custody present? Yes No
5. Chain of custody signed when relinquished and received? Yes No
6. Chain of custody agrees with sample labels?
 1. Client only sent one vial not two as written on chain. Yes No
7. Samples in proper container/bottle? Yes No
8. Sample containers intact? Yes No
9. Sufficient sample volume for indicated test? Yes No
10. All samples received within holding time? Yes No
11. Container/Temp Blank temperature in compliance? Yes No
12. Water - VOA vials have zero headspace? Yes No VOA Vials Not Present
13. Water - Preservation checked upon receipt (except VOA*)? Yes No Not Applicable

*VOA Preservation Checked After Sample Analysis

SPL Representative:	Estrada, Shantal G.	Contact Date & Time:	
Client Name Contacted:			
Non Conformance Issues:			
Client Instructions:	Sufficient sample to continue with analysis.		

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 Email: lab@inanalysis.com

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ANALYSIS REPORT
 (Circle or Specify Method No.)

Method No.	Method Name	Method Description
900 100 01	FLUORIDE	Mercuric Nitrate Method
900 100 02	AMMONIUM	Nesslerization Method
900 100 03	NITRATE	Cadmium Reduction Method
900 100 04	NITRITE	Diazotization Method
900 100 05	PHOSPHATE	Molybdenum Blue Method
900 100 06	SILICATE	Molybdenum Blue Method
900 100 07	IRON	Phenanthroline Method
900 100 08	COPPER	Bismuthate Oxidation Method
900 100 09	ZINC	Dithionite-Sulfuric Acid Method
900 100 10	LEAD	Dithionite-Sulfuric Acid Method
900 100 11	CADMIUM	Dithionite-Sulfuric Acid Method
900 100 12	CHROMIUM	Diphenylpicrylhydrazyl Method
900 100 13	MANGANESE	Bismuthate Oxidation Method
900 100 14	COBALT	Dimethylglyoxime Method
900 100 15	NICKEL	Dimethylglyoxime Method
900 100 16	ALUMINUM	8-Hydroxyquinoline Method
900 100 17	BARIUM	Spectrophotometric Method
900 100 18	STRONTIUM	Spectrophotometric Method
900 100 19	CALCIUM	Spectrophotometric Method
900 100 20	MAGNESIUM	Spectrophotometric Method
900 100 21	SODIUM	Flame Photometry Method
900 100 22	POTASSIUM	Flame Photometry Method
900 100 23	AMMONIUM	Nesslerization Method
900 100 24	NITRATE	Cadmium Reduction Method
900 100 25	NITRITE	Diazotization Method
900 100 26	PHOSPHATE	Molybdenum Blue Method
900 100 27	SILICATE	Molybdenum Blue Method
900 100 28	IRON	Phenanthroline Method
900 100 29	COPPER	Bismuthate Oxidation Method
900 100 30	ZINC	Dithionite-Sulfuric Acid Method
900 100 31	LEAD	Dithionite-Sulfuric Acid Method
900 100 32	CADMIUM	Dithionite-Sulfuric Acid Method
900 100 33	CHROMIUM	Diphenylpicrylhydrazyl Method
900 100 34	MANGANESE	Bismuthate Oxidation Method
900 100 35	COBALT	Dimethylglyoxime Method
900 100 36	NICKEL	Dimethylglyoxime Method
900 100 37	ALUMINUM	8-Hydroxyquinoline Method
900 100 38	BARIUM	Spectrophotometric Method
900 100 39	STRONTIUM	Spectrophotometric Method
900 100 40	CALCIUM	Spectrophotometric Method
900 100 41	MAGNESIUM	Spectrophotometric Method
900 100 42	SODIUM	Flame Photometry Method
900 100 43	POTASSIUM	Flame Photometry Method
900 100 44	AMMONIUM	Nesslerization Method
900 100 45	NITRATE	Cadmium Reduction Method
900 100 46	NITRITE	Diazotization Method
900 100 47	PHOSPHATE	Molybdenum Blue Method
900 100 48	SILICATE	Molybdenum Blue Method
900 100 49	IRON	Phenanthroline Method
900 100 50	COPPER	Bismuthate Oxidation Method
900 100 51	ZINC	Dithionite-Sulfuric Acid Method
900 100 52	LEAD	Dithionite-Sulfuric Acid Method
900 100 53	CADMIUM	Dithionite-Sulfuric Acid Method
900 100 54	CHROMIUM	Diphenylpicrylhydrazyl Method
900 100 55	MANGANESE	Bismuthate Oxidation Method
900 100 56	COBALT	Dimethylglyoxime Method
900 100 57	NICKEL	Dimethylglyoxime Method
900 100 58	ALUMINUM	8-Hydroxyquinoline Method
900 100 59	BARIUM	Spectrophotometric Method
900 100 60	STRONTIUM	Spectrophotometric Method
900 100 61	CALCIUM	Spectrophotometric Method
900 100 62	MAGNESIUM	Spectrophotometric Method
900 100 63	SODIUM	Flame Photometry Method
900 100 64	POTASSIUM	Flame Photometry Method
900 100 65	AMMONIUM	Nesslerization Method
900 100 66	NITRATE	Cadmium Reduction Method
900 100 67	NITRITE	Diazotization Method
900 100 68	PHOSPHATE	Molybdenum Blue Method
900 100 69	SILICATE	Molybdenum Blue Method
900 100 70	IRON	Phenanthroline Method
900 100 71	COPPER	Bismuthate Oxidation Method
900 100 72	ZINC	Dithionite-Sulfuric Acid Method
900 100 73	LEAD	Dithionite-Sulfuric Acid Method
900 100 74	CADMIUM	Dithionite-Sulfuric Acid Method
900 100 75	CHROMIUM	Diphenylpicrylhydrazyl Method
900 100 76	MANGANESE	Bismuthate Oxidation Method
900 100 77	COBALT	Dimethylglyoxime Method
900 100 78	NICKEL	Dimethylglyoxime Method
900 100 79	ALUMINUM	8-Hydroxyquinoline Method
900 100 80	BARIUM	Spectrophotometric Method
900 100 81	STRONTIUM	Spectrophotometric Method
900 100 82	CALCIUM	Spectrophotometric Method
900 100 83	MAGNESIUM	Spectrophotometric Method
900 100 84	SODIUM	Flame Photometry Method
900 100 85	POTASSIUM	Flame Photometry Method
900 100 86	AMMONIUM	Nesslerization Method
900 100 87	NITRATE	Cadmium Reduction Method
900 100 88	NITRITE	Diazotization Method
900 100 89	PHOSPHATE	Molybdenum Blue Method
900 100 90	SILICATE	Molybdenum Blue Method
900 100 91	IRON	Phenanthroline Method
900 100 92	COPPER	Bismuthate Oxidation Method
900 100 93	ZINC	Dithionite-Sulfuric Acid Method
900 100 94	LEAD	Dithionite-Sulfuric Acid Method
900 100 95	CADMIUM	Dithionite-Sulfuric Acid Method
900 100 96	CHROMIUM	Diphenylpicrylhydrazyl Method
900 100 97	MANGANESE	Bismuthate Oxidation Method
900 100 98	COBALT	Dimethylglyoxime Method
900 100 99	NICKEL	Dimethylglyoxime Method
900 100 100	ALUMINUM	8-Hydroxyquinoline Method

Client Name: Shell Corp

Project: Field Cone

Sample ID: 113085

Matrix: Water

Preservative: None

Substrate: DATE

Analysis Date: 11-5-87

Received by: [Signature] Date: 11-5-87

Received by: [Signature] Date: 11-5-87

Comments: [Handwritten notes]

Remarks: [Handwritten notes]

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