CORNERSTONE EARTH GROUP

Type of Services	**Soil Quality Evaluation**
Location	**3655 North First Street, and 77, 85 and 99 West Tasman Drive San Jose, California**
Client	**David J. Powers & Associates, Inc.**
Client Address	**1871 The Alameda, Suite 200 San Jose, California 95126**
Project Number	**118-37-3**
Date	**January 22, 2013**

Prepared by

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SECTION 1: INTRODUCTION

This report presents the results of the Soil Quality Evaluation performed at 3655 North First Street, and 77, 85 and 99 W. Tasman Drive in San Jose, California (Site) as shown on Figures 1 and 2. This work was performed for David J. Powers & Associates (Powers) in accordance with our December 17, 2012 Agreement (Agreement). Cornerstone Earth Group, Inc. (Cornerstone) understands that Powers is assisting Samsung Semiconductor, Inc. (Samsung) through the California Environmental Quality Act (CEQA) process for the expansion of their current facility in North San Jose. The proposed development includes the demolition of the existing on-Site buildings and the construction of a 10-story building (1,131,491 square feet) with structured parking (1,560 cars).

The Site consists of two parcels (APN 097-53-026 and 027). Cornerstone recently performed a Phase I Environmental Site Assessment (Phase I ESA, 2012) and Geotechnical Feasibility Study (2012); a Phase I ESA and Phase II Site Investigation were performed by others during the 1990s for Samsung.

1.1 BACKGROUND

Based on the information obtained during the Phase I ESA (Cornerstone 2012), the Site was historically used for agricultural purposes (row crops) since at least the 1930s. The Site was developed in approximately 1984 with the existing commercial buildings. The on-Site buildings at 3655 North First Street and 77 West Tasman Drive were expanded and combined in 1995. These buildings appear to have been occupied by Samsung since 1988.

The 85 West Tasman Drive building was occupied between approximately 1985 and 1996 by Silicon General (*a.k.a.*, Symmetricom and Telecom Solutions). Based on an internet search, Silicon General was a supplier of linear integrated circuits and changed its name to Symmetricom in 1993; Telecom Solutions was a division of Symmetricom. Samsung has occupied the building since approximately 1996.

Between 1985 and 2006, the 99 West Tasman Drive building appears to have been a multi-tenant building. Reported past occupants included Unicorn Microelectronics, Mitsubishi Kasei America (*a.k.a.*, Mitsubishi Chemical), Peer Research, Plasmon Data Systems, Deerfield Realty, Kause Corporation, Trinet Networking and Training, Omni Professional Ltd., and Wichorus, Inc. The building appears to have been occupied by Samsung since 2007.

In 1988, Wahler was retained by Samsung to evaluate soil, soil vapor and ground water quality on a portion of the Site (3655 North First Street and 77 West Tasman Drive). Thirty-six soil samples were collected from depths of approximately 1 to 2 feet. The 36 samples were composited into six 6-point composite samples (A through F) and analyzed for organochlorine pesticides by EPA Method 8080 and for volatile organic compounds (VOCs) by EPA Method 8010. Three organochlorine pesticides were detected in the composite samples: DDD, DDE and DDT[1]. The reported concentrations were less than their respective (and current) environmental screening levels[2]. Total DDT (*i.e.*, the sum of DDD, DDE and DDT) was detected at up to 0.513 milligrams per kilogram (mg/kg or parts per million [ppm]), which is less than it's TTLC[3]. The greatest concentrations (0.279 to 0.573 mg/kg) were detected in composite samples B through F.

Subsequently, the discrete soil samples within these composites were analyzed for organochlorine pesticides. The greatest concentration of total DDT (0.946 mg/kg) was detected in sample C-5. Additionally, 1,1,1-trichloroethane (TCA) was detected at 15 micrograms per kilogram (µg/kg or parts per billion [ppb]) in composite soil sample C (please note that current standards of practice do not allow compositing soil samples for VOC analysis); however, TCA was not subsequently detected in the six discrete soil samples analyzed from composite C. The residential environmental screening level for TCA is 7,800 micrograms per kilogram µg/kg. The detected pesticide concentrations did not exceed their respective CHHSLs. However, the maximum detected total DDT concentration (0.946 mg/kg) was near the TTLC for total DDT (1.0 mg/kg). The prior soil sampling did not include laboratory analyses for metals, such as lead, arsenic and mercury, which were common constituents in some pesticides.

1.2 PURPOSE

The purpose of this evaluation is to provide soil quality data for use by third parties in evaluating soil for potential off-Site disposal.

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[1] DDT (dichlorodiphenyltrichloroethane) is an organochlrine pesticide once widely used to control insects in agriculture and insects that carry diseases such as malaria. DDT is a white, crystalline solid with no odor or taste. Its use in the U.S. was banned in 1972 mainly because of damage to wildlife. Commercial DDT is a mixture of several closely–related compounds including dichlorodiphenyldichloroethylene (DDE) and dichlorodiphenyldichloroethane (DDD). The term "total DDT" is often used to refer to the sum of all DDT related compounds (DDT, DDE, and DDD) in a sample.

[2] California Human Health Screening Levels – CHHSLs

The CHHSLs are used to screen sites for potential human health concerns where releases of hazardous chemicals to soils have occurred. Under most circumstances, the presence of a chemical in soil at concentrations below the corresponding CHHSLs can be assumed not to pose a significant health risk. Please note that the San Francisco Bay Regional Water Quality Control Board (Water Board, 2008) has also developed Environmental Screening Levels (ESLs). The ESLs are a compilation of screening levels for not only risk to human health but a number of other environmental concerns. Per Cal/EPA guidance (January 2005), "The ESLs are intended for use only at sites overseen by that agency". If a CHHSL doesn't exist for a detected compound, Cal/EPA recommends using the Regional Screening Levels (RSLs) developed by the EPA (Region 9, 2012). In the event, there are no CHHSLs or RSLs available, such as for petroleum hydrocarbons, Cal/EPA allows the data to be compared to ESLs.

[3] Total Threshold Limit Concentration – TTLC

The TTLC is the concentration at which a solid waste is considered a hazardous waste, for waste disposal classification purposes, per Title 26 of the California Code of Regulations.

1.3 SCOPE OF WORK

As presented in our Agreement, the scope of work performed included the following:

- Drilling and logging of nine exploratory borings;
- Collection of soil samples from the exploratory borings for laboratory analyses; and
- Preparation of this report.

The limitations for this investigation are presented in Section 4.

SECTION 2: SOIL QUALITY EVALUATION

2.1 SUBSURFACE INVESTIGATION

Subsurface investigation activities were performed on December 21, 2012. Our field engineer directed a subsurface exploration, logged in general accordance with the Unified Soil Classification System (ASTM D-2487), and sampled from 9 exploratory borings (SB-1 to SB-9) to a maximum depth of approximately 15-feet using truck-mounted hollow-stem auger (SB-1, SB-3 through SB-9) and limited-access Minuteman auger (SB-2) drilling equipment. Exploratory boring locations are shown on Figure 2.

Soil was sampled from the hollow stem auger borings in approximately 5 foot intervals to the total depth of the borings of approximately 15 feet. Organic vapors were measured in the field using an organic vapor meter (OVM) by placing the tip of the OVM against a freshly split surface immediately after sample collection. Organic vapors were not detected or were detected at concentrations less than 1 part per million by volume (ppm_v) on soil samples collected.

Soil sampling protocol and boring logs are presented in Appendix A.

2.1.1 Subsurface Materials and Ground Water

Subsurface materials observed in the exploratory borings generally consisted of sandy clays to clays within in the upper approximately 15 feet. Approximately 9 inches to 4½ of fill material were encountered in 6 of 9 boring locations (Table 1). Fill materials generally consisted of sandy clays with varying amounts of gravel. Brick fragments were observed in fill materials encountered in boring SB-3. Ground water was not observed in exploratory borings drilled during this evaluation.

Table 1. Approximate Thickness of Fill

Fill Profile	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8	SB-9
Surface Section	2 inches AC	½ foot landscape	3-inches AC over 8-inches Aggregate Base	2-inches AC	3-inches AC	3-inches AC	3 inches AC over 6 inches of Base	3 inches of AC over 6 inches Base	3 inches AC over 6 inches Base
Fill	10 inches Sandy Clay	2 feet	3 ½ feet Sandy Clay with Gravel to Clay	10 inches Sandy Clay with Gravel	9 inches Sandy Clay with Gravel	9 inches Sandy Clay	---	---	---
Approximate Fill Thickness	1 foot	2½ feet	4 ½ feet	1 foot	1 foot	1 foot	9 inches	9 inches	9 inches

AC Asphaltic Concrete

2.2 SOIL SAMPLE COLLECTION AND LABORATORY ANALYSES

To evaluate the quality of near-surface fill and underlying native soil, soil samples were collected from borings SB-1 through SB-9 in accordance with the sampling plans presented below (Tables 2 and 3).

Table 2. Sampling Plan for Basement Area (Borings SB-1, 2 and 3 to approximately 15 feet)

Approximate Depth	CAM 17 Metals	Arsenic, Lead and Mercury	OCPs[1] and PCBs	OCPs	TPHd and TPHmo	Full List VOCs and TPHg	Semi-VOCs	PAHs
Just Beneath Pavement Section[2]	✓		✓		✓	✓	✓	
2 ½ to 3 ½ feet		✓		✓				✓
5 feet	✓		✓		✓	✓	✓	
15 feet						✓		

1. Organochlorine Pesticides.
2. Soil beneath pavement and the underlying baserock layer.

Table 3. Sampling Plan for General Spoils (Borings SB-4, 5, 6, 7, 8 and 9 to approximately 3 feet)

Approximate Depth	CAM 17 Metals	Arsenic, Lead and Mercury	OCPs and PCBs	OCPs	TPHd and TPHmo	Full List VOCs and TPHg	Semi-VOCs	PAHs
Just Beneath Pavement Section[1]	✓		✓		✓	✓	✓	
2 ½ to 3 ½ feet		✓		✓				✓

✓ Soil samples were collected from three of six random borings locations for selected test method

1. Soil beneath pavement and the underlying baserock layer.

Soil samples were collected in new and pre-cleaned stainless steel liners and were taped, capped, and labeled with a unique identification number. Core-N-1 capsules (in triplicate) were used to sample approximately 5 grams of undisturbed soil per capsule for VOC analyses.

Laboratory analytical results are summarized in Tables A, B, C and D in the Tables section of this report. Chain of custody documentation and laboratory analytical reports are presented in Appendix B.

2.3 DISCUSSION OF RESULTS

The reported analytical data were compared to the following screening levels: CHHSLs, RSLs, and ESLs and ambient/background concentrations[4]. In addition, analytical results were compared to hazardous waste criteria (TTLC).

2.3.1 Soil Quality

2.3.1.1 VOCs, PAHs, and sVOCs

VOCs (including TPHg) were not detected at or above laboratory reporting limits in the soil samples analyzed. Several sVOCs and PAHs were reported but at low frequencies of detection and low concentrations (below their respective CHHSLs, RSLs, or ESLs): benz(a)anthracene, benzo(g,h,i)perylene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene.

2.3.1.2 Metals

Metal concentrations detected appear to be generally consistent with published background/ambient conditions. Concentrations detected also were less than the respective TTLC hazardous waste limits. The fill material generally contained greater concentrations of chromium and nickel than native soils and likely represents a different source material (imported fill). Metal data is briefly summarized below in concentrations of milligram per kilogram (mg/kg, or parts per million [ppm]). To statistically evaluate detected concentrations in native soil, a 95% Upper Confidence Limit (UCL[5]) was calculated for selected metals using US EPA ProUCL 4.1 software.

Arsenic was detected in 18 of 18 native soil samples at concentrations of 6.2 mg/kg to 24 mg/kg (SB-9 at 1 to 1½ feet). The 95% UCL for arsenic (approximate depths of 1 to 5 feet) was calculated at 14.18 mg/kg. Arsenic was detected in 3 of 3 fill samples at concentrations of 4.6 to 9.4 mg/kg. The anticipated maximum background concentration for arsenic in Northern Santa Clara County is 20 mg/kg (Scott, 1991).

Chromium was detected in 10 of 10 native soil samples; no sample exceeded the residential RSL (280 mg/kg). The 95% UCL for chromium in native soil (approximate depths of 1 to 5 feet) was calculated at 101.7 mg/kg, which is less than the residential RSL (a residential CHHSL is not available for total chromium). Chromium was detected in 2 of 2 fill samples analyzed (320 mg/kg in SB-3 at 1 to 1½ feet and 210 mg/kg in SB-2 at 1 to 1½ feet).

[4] CHHSLs, RSLs and ESLs are defined in Section 1.1. Naturally occurring background concentrations of metals, such as arsenic - amongst others, in soil may exceed their respective CHHSLs. Cal/EPA generally does not require cleanup of soil to below background concentrations. This issue is frequently encountered with arsenic. Thus, for the metals detected, these data also were compared to regional background levels (Scott, 1991).

[5] EPA recommends using the average concentration to represent "a reasonable estimate of the concentration likely to be contacted over time" (EPA 1989). The guidance previously issued by EPA in 1992, Supplemental Guidance to RAGS: Calculating the Concentration Term (EPA 1992), states that, "because of the uncertainty associated with estimating the true average concentration at a site, the 95 percent upper confidence limit (UCL) of the arithmetic mean should be used for this variable."

Nickel did not exceed the residential CHHSL (1,600 mg/kg) in 10 of 10 native soil samples analyzed. The 95% UCL for nickel in native soil (approximate depths of 1 to 5 feet) was calculated at 153.7 mg/kg. Nickel was detected in 2 of 2 fill samples analyzed (470 mg/kg in SB-3 at 1 to 1½ feet and 280 mg/kg at 1 to 1½ feet).

Lead did not exceed its residential CHHSL (80 mg/Kg) in the 18 native soil samples analyzed (approximate depths of 1 to 5 feet). The 95% UCL for lead in native soil was calculated at 36.48 mg/kg. Lead also did not exceed the residential CHHSL in 3 of 3 fill samples analyzed.

2.3.1.3 Organochlorine Pesticides

4,4'-DDT was detected in 10 of 15 native soil samples (collected at approximate depths of 1 to 3½ feet) at concentrations up to 0.7 mg/kg (SB-7 at 2½ to 3 feet). 4,4'-DDT was detected in 1 of 3 fill samples at 0.027 mg/kg (SB-2 at 1 to 1½ feet). The residential CHHSL for 4,4'-DDT is 1.6 mg/kg. The 4,4'-DDT detected in the Site's topsoil does not appear to pose a significant risk to human health for the planned commercial Site use.

4,4'-DDD was detected in 11 of 15 native soil samples (collected at approximate depths of 1 to 3½ feet) at concentrations up to 0.36 mg/kg (SB-8 at 1 to 1½ feet). 4,4'-DDD was detected in 2 of 3 fill samples at 0.13 and 0.029 mg/Kg. The residential CHHSLs for 4,4'-DDD are 2.3 mg/kg. The 4,4'-DDD detected in the Site's topsoil does not appear to pose a significant risk to human health for the planned commercial Site use.

4,4'-DDE was detected in 14 of 15 native soil samples (collected at approximate depths of 1 to 3½ feet) at concentrations ranging from 0.0045 mg/kg to 2.5 mg/kg (SB-4 at 1 to 1½ feet). The residential CHHSL for 4,4'-DDE is 1.6 mg/kg. 4,4'-DDE was detected in native soil at concentrations exceeding the residential CHHSL in 3 of 15 samples; however, no sample exceeded the commercial CHHSL of 6.3 mg/Kg. Concentrations of 4,4'-DDE likely decrease to less than its residential CHHSL at approximate depths of 3 to 4 feet. The 95% UCL for 4,4'-DDE (15 native soil samples collected from approximate depths of 1 to 3½ feet) was calculated at 1.612 mg/kg. 4,4'-DDE was detected in 3 of 3 fill samples at lower concentrations (0.012 to 0.45 mg/kg). The 4,4'-DDE detected in the Site's topsoil does not appear to pose a significant risk to human health for the planned commercial Site use.

Total DDT (the sum of DDT, DDD and DDE) in 6 of 15 native soil samples (collected at approximate depths of 1 to 3½ feet) exceeded the TTLC (California's hazardous waste criteria - 1.0 mg/kg). The 95% UCL for total DDT reported in the 15 native soil samples was calculated at 1.988 mg/kg; the native topsoil may be classifiable as a California hazardous waste. Its mean concentration was calculated at 0.911 mg/Kg. Total DDT was detected at concentrations of less than 1.0 mg/kg in the three fill samples analyzed.

Dieldrin was detected in 3 of 15 native soil samples at concentrations ranging from 0.0054 mg/kg to 0.043 mg/kg (SB-9 at 1 to 1½ feet); 1 of 15 native soil samples contained dieldrin above its residential CHHSL (0.035 mg/kg) but below its commercial CHHSL of 0.13 mg/Kg. The 95% UCL for dieldrin (15 native soil samples collected from an approximate depth of 1 to 3½ feet) was calculated at 0.013 mg/kg, which is less than its residential CHHSL. Dieldrin was detected in 1 of 3 fill samples (SB-3 at 2½ to 3 feet at 0.005 mg/kg) at a concentration less than

its residential CHHSL. The dieldrin detected in the Site's topsoil does not appear to pose a significant risk to human health for the planned commercial Site use.

Alpha-chlordane was detected in 2 of 15 native soil samples at concentrations up to 0.014 mg/kg [SB-4 (1-1 ½)]. The residential CHHSL for alpha-chlordane is 0.43 mg/kg. Alpha-chlordane was not detected in the three fill samples analyzed. The chlordane detected in the Site's topsoil does not appear to pose a significant risk to human health for the planned commercial Site use.

2.3.1.4 Diesel and Oil Ranged Petroleum Hydrocarbons

Total petroleum hydrocarbons as diesel (TPHd) was detected in 6 of 10 native soil samples at concentrations ranging from 1.1 mg/kg to 10 mg/kg. Laboratory analysis of two fill samples contained TPHd at 9.9 mg/kg (SB-2 at 1 to 1½ feet) and 40 mg/kg (SB-3 at 1 to 1½ feet). No CHHSLs or RSLs are established for this compound. The residential ESL for TPHd is 83 mg/kg.

Total petroleum hydrocarbons as oil (TPHo) was not detected in the native soil samples. It was detected in 1 of 2 fill samples at a concentration of 82 mg/kg (SB-3 at 1 to 1½ feet). No CHHSLs or RSLs are established for this compound. The residential ESL for TPHo is 370 mg/kg.

SECTION 3: CONCLUSIONS

3.1 SOIL QUALITY

Laboratory analyses of soil samples collected during this investigation did not detect VOCs (including TPHg) and PCBs. TPHo, TPHd, sVOCs and PAHs were reported at low frequencies of detection and low concentrations (below residential screening levels) and do not appear to be a significant concern.

Metal concentrations generally appeared to represent background/ambient concentrations. None of the samples analyzed exceeded the hazardous waste limits (TTLCs) for metals. The fill material generally contained greater concentrations of chromium and nickel than native soils and likely represents a different source material (imported fill). Chromium, lead and nickel were detected at concentrations exceeding ten times their soluble hazardous waste limits (STLCs). If this soil is planned for landfill disposal, these facilities may require analyses for soluble metals prior to accepting the soil.

Organochlorine pesticides were detected in the Site's topsoil. The detected pesticides do not appear to pose a significant risk to human health for the planned commercial Site use.

Total DDT was detected at concentrations exceeding its TTLC of 1.0 mg/kg (California's hazardous waste criteria) in soil collected from the upper approximately 3 feet of native soil; the fill samples contained lower concentrations of Total DDT. The Site's native soil (to a depth of approximately 3 to 4 feet) may be classifiable as a California hazardous waste if disposed. If Site grades will be lowered or development activities will generate excess topsoil requiring

disposal, common and potentially applicable measures may include: 1) excavation and off-Site disposal of the impacted soil at a permitted facility; 2) the use of engineering and administrative controls, such as consolidation of the soil on-Site; and 3) a combination of the above.

SECTION 4: LIMITATIONS

Cornerstone performed this investigation to support David J. Powers and Associates, Inc. in evaluation of soil quality at the Site. David J. Powers and Associates, Inc. understand that the extent of soil quality data obtained is based on the reasonable limits of time and budgetary constraints. In addition, the chemical information presented in this report can change over time and is only valid at the time of this investigation and for the locations sampled.

This report, an instrument of professional service, was prepared for the sole use of David J. Powers and Associates, Inc. and may not be reproduced or distributed without written authorization from Cornerstone.

Cornerstone makes no warranty, expressed or implied, except that our services have been performed in accordance with the environmental principles generally accepted at this time and location.

SECTION 5: REFERENCES

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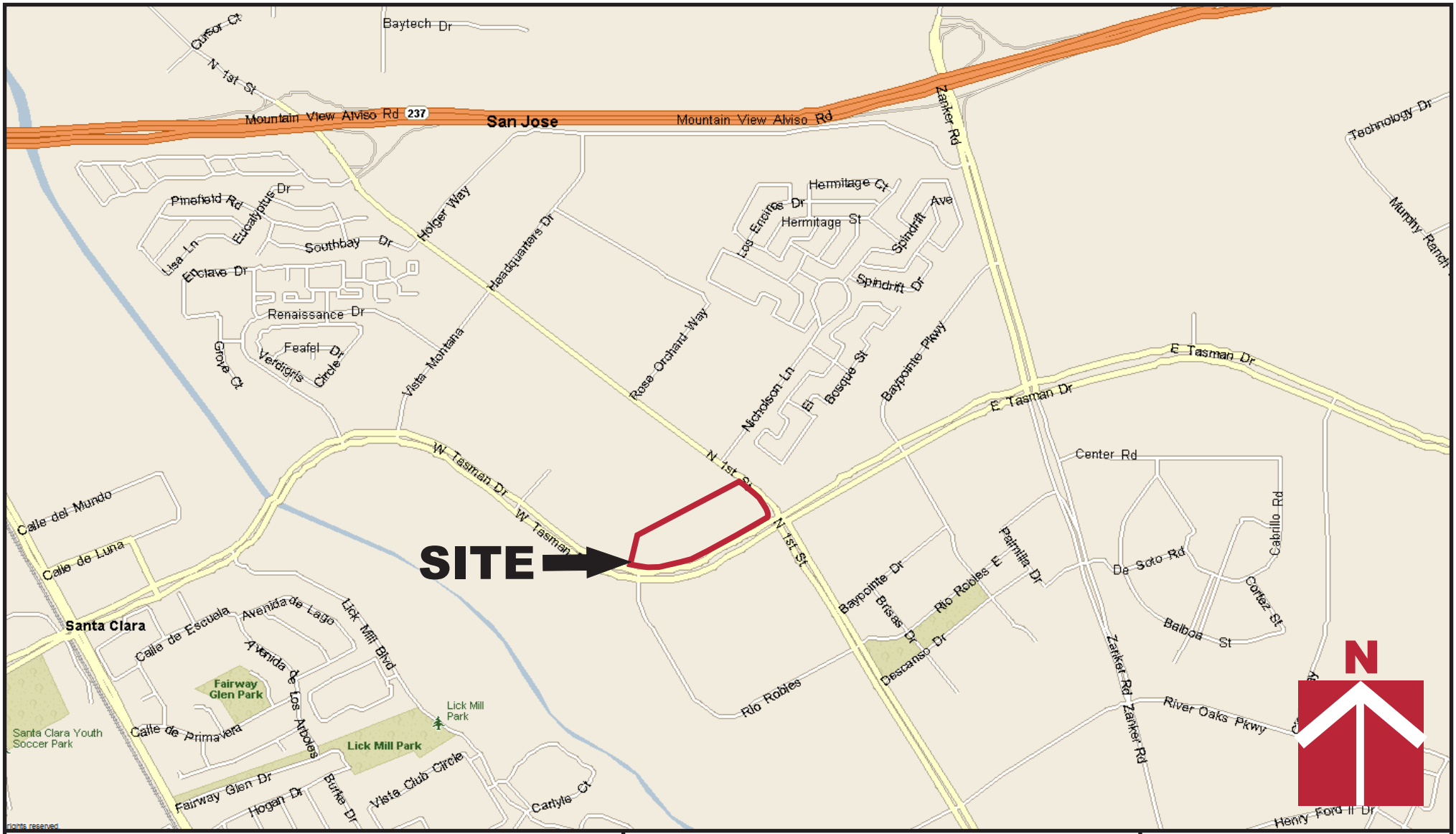

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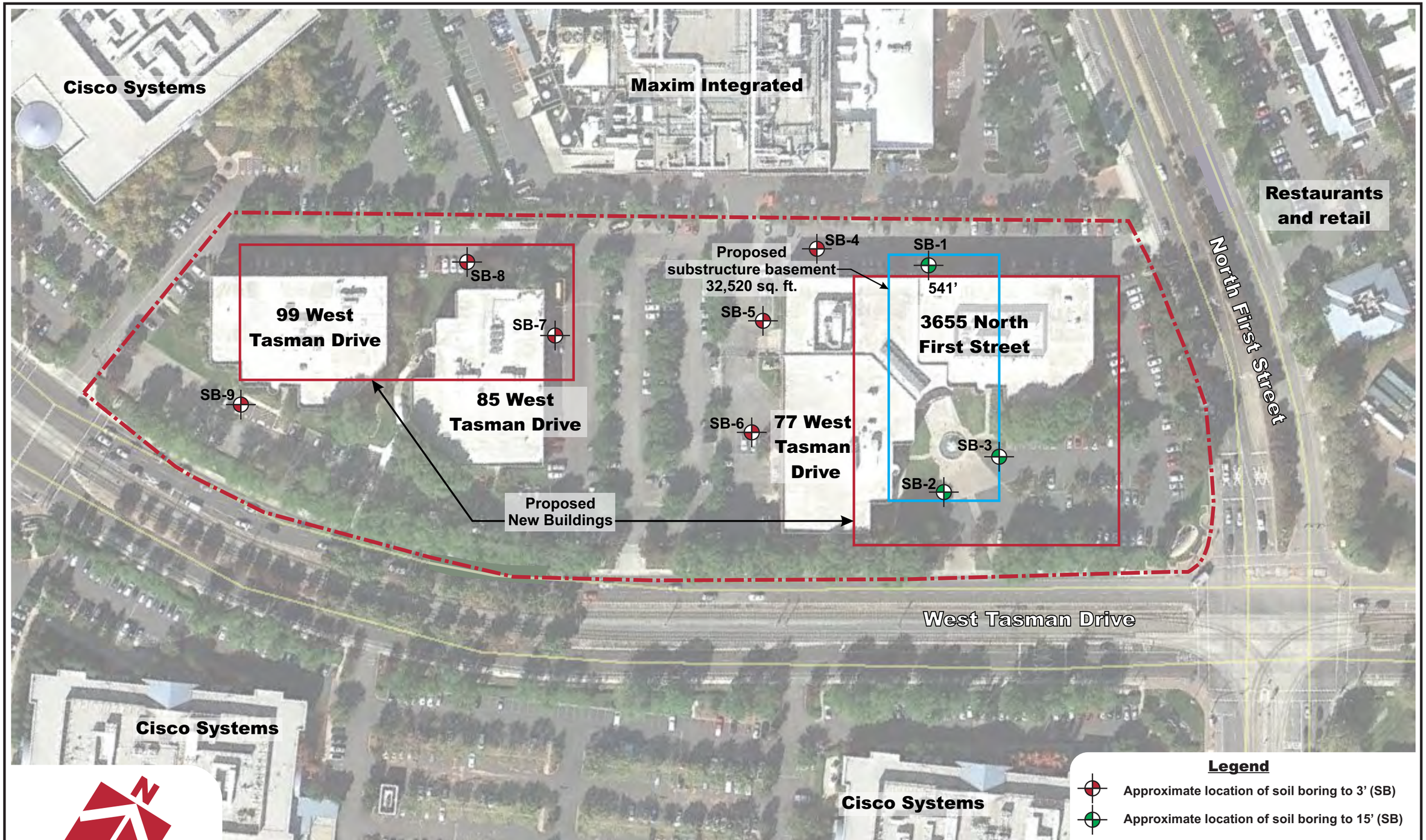
Vicinity Map

Samsung Semiconductor Corporate Headquarters
3655 North First Street
San Jose, CA

Project Number	118-37-3
Figure Number	Figure 1
Date	January 2013
Drawn By	RRN



Base by Google Earth, dated 10/31/2011

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Site Plan showing Soil Borings

Samsung Semiconductor Corporate Headquarters
3655 North First Street
San Jose, CA

Project Number	118-37-3
Figure Number	Figure 2A
Date	January 2013
Drawn By	RRN

California Human Health Screening Level (CHHSL)

Residential CHHSL

4,4'-DDD	2.3
4,4'-DDE	1.6
4,4'-DDT	1.6
Total DDT	1.0 [1]

[1] Valve is Title 22 California Hazardous Waste Total Threshold Limit Concentration (TTLC), California Code of Regulations

< Not detected at or above laboratory reporting limit

BOLD Concentration exceeds Residential CHHSL or TTLC

SB-7
Date: 12/21/2012

Depth (ft)	4,4'-DDD	4,4'-DDE	4,4'-DDT	DDT Total
1 to 1½	0.024	0.24	0.11	0.374
2½ to 3	0.13	**1.7**	0.7	**2.53**

SB-8
Date: 12/21/2012

Depth (ft)	4,4'-DDD	4,4'-DDE	4,4'-DDT	DDT Total
1 to 1½	0.33	1.3	0.11	**1.74**
3 to 3½	0.2	0.79	0.14	**1.13**

SB-5
Date: 12/21/2012

Depth (ft)	4,4'-DDD	4,4'-DDE	4,4'-DDT	DDT Total
1½ to 2	0.034	0.22	0.027	0.281
2½ to 3	0.014	0.12	0.015	0.149

SB-4
Date: 12/21/2012

Depth (ft)	4,4'-DDD	4,4'-DDE	4,4'-DDT	DDT Total
1 to 1½	0.061	**2.5**	<0.04	**2.561**
2½ to 3	<0.002	0.0022	<0.002	0.0022

SB-1
Date: 12/21/2012

Depth (ft)	4,4'-DDD	4,4'-DDE	4,4'-DDT	DDT Total
1 to 1½	0.042	0.58	0.1	0.722
3 to 3½	<0.002	0.013	0.004	0.017
4½ to 5	<0.002	<0.002	<0.002	<0.002

SB-9
Date: 12/21/2012

Depth (ft)	4,4'-DDD	4,4'-DDE	4,4'-DDT	DDT Total
1 to 1½	0.36	**1.6**	0.049	**2.009**
2½ to 3	<0.002	0.0045	<0.002	0.0045

SB-6
Date: 12/21/2012

Depth (ft)	4,4'-DDD	4,4'-DDE	4,4'-DDT	DDT Total
1 to 1½	<0.002	<0.002	<0.002	<0.002
2½ to 3	0.013	0.31	0.1	0.423

SB-3
Date: 12/21/2012

Depth (ft)	4,4'-DDD	4,4'-DDE	4,4'-DDT	DDT Total
1 to 1½	<0.002	0.012	<0.002	0.012
2½ to 3	0.029	0.15	<0.002	0.179
4½ to 5	0.018	0.19	0.0055	0.2135

SB-2
Date: 12/21/2012

Depth (ft)	4,4'-DDD	4,4'-DDE	4,4'-DDT	DDT Total
1 to 1½	0.13	0.45	0.027	0.607
2½ to 3	0.32	1.4	<0.098	**1.72**
4½ to 5	<0.002	0.008	<0.002	0.008

Cisco Systems
Maxim Integrated
99 West Tasman Drive
85 West Tasman Drive
77 West Tasman Drive
3655 North First Street
Proposed substructure basement 32,520 sq. ft.
Proposed New Buildings
541'
Restaurants and retail
North First Street
West Tasman Drive
Cisco Systems
Cisco Systems
SB-1
SB-2
SB-3
SB-4
SB-5
SB-6
SB-7
SB-8
SB-9

Legend

Approximate location of soil boring to 3' (SB)

Approximate location of soil boring to 15' (SB)

N

0 100 200

APPROXIMATE SCALE (FEET)

Base by Google Earth, dated 10/31/2011

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Organochlorine Pesticide Concentrations in Soil

Samsung Semiconductor Corporate Headquarters
3655 North First Street
San Jose, CA

Project Number: 118-37-3

Figure Number: Figure 3

Date: January 2013

Drawn By: RRN

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ANALYTICAL DATA SUMMARY TABLES

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Table A. Analytical Results of Selected Soil Samples - Metals

(Concentrations in mg/kg)

Sample Location	Sample ID	Date	Depth (feet)	Arsenic	Barium	Beryllium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Vanadium	Zinc
SB-1	SB-1 (1-1 1/2)	12/21/2012	1-1½	14	230	0.55	74	16	74	23	2.8	120	47	87
	SB-1 (3-3 1/2)	12/21/2012	3-3½	8.2	---	---	---	---	---	11	0.072	---	---	---
	SB-1 (4 1/2-5)	12/21/2012	4½-5	7.9	250	0.69	67	17	42	11	0.048	96	49	77
SB-2	SB-2 (1-1 1/2)	12/21/2012	1-1½	9.4	200	0.48	210	18	42	17	1.3	280	48	67
	SB-2 (2 1/2-3)	12/21/2012	2½-3	12	---	---	---	---	---	28	3.5	---	---	---
	SB-2 (4 1/2-5)	12/21/2012	4½-5	8.4	320	0.63	69	15	41	11	0.092	97	64	67
SB-3	SB-3 (1-1 1/2)	12/21/2012	1-1½	4.6	300	<0.38	**320**	33	51	6	0.05	470	46	49
	SB-3 (2 1/2-3)	12/21/2012	2½-3	7.1	---	---	---	---	---	19	4.1	---	---	---
	SB-3 (4 1/2-5)	12/21/2012	4½-5	9.6	340	0.73	77	17	47	12	0.25	100	58	79
SB-4	SB-4 (1- 1 1/2)	12/21/2012	1- 1½	18	270	0.6	100	19	57	68	4.4	150	57	99
	SB-4 (2 1/2-3)	12/21/2012	2½-3	6.2	---	---	---	---	---	11	0.039	---	---	---
SB-5	SB-5 (1 1/2-2)	12/21/2012	1½-2	8.8	210	<0.38	110	20	48	20	0.56	160	57	72
	SB-5 (2 1/2-3)	12/21/2012	2½-3	15	---	---	---	---	---	21	0.1	---	---	---
SB-6	SB-6 (1-1 1/2)	12/21/2012	1-1½	6.9	350	0.79	76	16	44	11	0.058	96	59	74
	SB-6 (2 1/2-3)	12/21/2012	2½-3	8.7	---	---	---	---	---	13	1.4	---	---	---
SB-7	SB-7 (1-1 1/2)	12/21/2012	1-1½	16	170	0.47	140	20	49	69	0.046	220	52	79
	SB-7 (2 1/2-3)	12/21/2012	2½-3	18	---	---	---	---	---	32	7.3	---	---	---
SB-8	SB-8 (1-1 1/2)	12/21/2012	1-1½	18	260	0.62	92	17	77	34	4.9	140	57	91
	SB-8 (3-3 1/2)	12/21/2012	3-3½	11	---	---	---	---	---	17	2.9	---	---	---
SB-9	SB-9 (1-1 1/2)	12/21/2012	1-1½	**24**	180	0.39	80	16	60	77	7.3	130	46	81
	SB-9 (2 1/2-3)	12/21/2012	2½-3	7.1	---	---	---	---	---	10	0.048	---	---	---
Residential CHHSL[1]				0.07	5,200	150	280 [3]	660	3,000	150	18	1,600	530	23,000
Background Range (Scott)[2]				0.2 to 5.5	NE	NE	NE	NE	23.8 to 47.5	6.8 to 16.1	NE	46.4 to 101	NE	47.7 to 82.8
Maximum Background Detection (Scott)[2]				20	NE	NE	NE	NE	67	54	NE	145	NE	120

1 California Human Health Screening Level (CHHSL), CalEPA - September 2010

2 "Background Metal Concentrations in Soil in Northern Santa Clara County, California", Christina M. Scott, December 1991

3 Value is Regional Screening Level (RSL) for Total Chromium, USEPA Region 9 – April 2012

< Not detected at or above laboratory reporting limit

NE Not Established

--- Not Analyzed

BOLD Concentration exceeds CHHSL, RSL, ESL or reported background/ambient level

CORNERSTONE EARTH GROUP

Table B. Analytical Results of Selected Soil Samples - OCPs and PCBs

(Concentrations in mg/kg)

Sample Location	Sample ID	Date	Depth (feet)	4,4´-DDD	4,4´-DDE	4,4´-DDT	DDT Total	alpha-Chlordane	Dieldrin	PCBs
SB-1	SB-1 (1-1 1/2)	12/21/2012	1-1½	0.042	0.58	0.1	0.722	0.0047	0.0054	ND
	SB-1 (3-3 1/2)	12/21/2012	3-3½	<0.002	0.013	0.004	0.017	<0.002	<0.002	ND
	SB-1 (4 1/2-5)	12/21/2012	4½-5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	ND
SB-2	SB-2 (1-1 1/2)	12/21/2012	1-1½	0.13	0.45	0.027	0.607	<0.0099	<0.0099	ND
	SB-2 (2 1/2-3)	12/21/2012	2½-3	0.32	1.4	<0.098	**1.72**	<0.098	<0.098	ND
	SB-2 (4 1/2-5)	12/21/2012	4½-5	<0.002	0.008	<0.002	0.008	<0.002	<0.002	ND
SB-3	SB-3 (1-1 1/2)	12/21/2012	1-1½	<0.002	0.012	<0.002	0.012	<0.002	<0.002	ND
	SB-3 (2 1/2-3)	12/21/2012	2½-3	0.029	0.15	<0.002	0.179	<0.002	0.005	ND
	SB-3 (4 1/2-5)	12/21/2012	4½-5	0.018	0.19	0.0055	0.2135	<0.002	<0.002	ND
SB-4	SB-4 (1- 1 1/2)	12/21/2012	1- 1½	0.061	**2.5**	<0.04	**2.561**	0.014	0.015	ND
	SB-4 (2 1/2-3)	12/21/2012	2½-3	<0.002	0.0022	<0.002	0.0022	<0.002	<0.002	ND
SB-5	SB-5 (1 1/2-2)	12/21/2012	1½-2	0.034	0.22	0.027	0.281	<0.002	<0.002	ND
	SB-5 (2 1/2-3)	12/21/2012	2½-3	0.014	0.12	0.015	0.149	<0.002	<0.002	ND
SB-6	SB-6 (1-1 1/2)	12/21/2012	1-1½	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	ND
	SB-6 (2 1/2-3)	12/21/2012	2½-3	0.013	0.31	0.1	0.423	<0.0019	<0.0019	ND
SB-7	SB-7 (1-1 1/2)	12/21/2012	1-1½	0.024	0.24	0.11	0.374	<0.002	<0.002	ND
	SB-7 (2 1/2-3)	12/21/2012	2½-3	0.13	**1.7**	0.7	**2.53**	<0.02	<0.02	ND
SB-8	SB-8 (1-1 1/2)	12/21/2012	1-1½	0.33	1.3	0.11	**1.74**	<0.02	<0.02	ND
	SB-8 (3-3 1/2)	12/21/2012	3-3½	0.2	0.79	0.14	**1.13**	<0.02	<0.02	ND
SB-9	SB-9 (1-1 1/2)	12/21/2012	1-1½	0.36	**1.6**	0.049	**2.009**	<0.02	**0.043**	ND
	SB-9 (2 1/2-3)	12/21/2012	2½-3	<0.002	0.0045	<0.002	0.0045	<0.002	<0.002	ND
Residential CHHSL[1]				2.3	1.6	1.6	1.0 [2]	0.43 [3]	0.035	Variable
Residential CHHSL[1]				9.0	6.3	6.3	1.0 [2]	1.7 [3]	0.13	Variable

1 California Human Health Screening Level (CHHSL), CalEPA - September 2010

2 Value is Title 22 California Hazardous Waste Total Threshold Limit Concentration (TTLC), California Code of Regulations

3 Value is Residential CHHSL for Technical Chlordane

< Not detected at or above laboratory reporting limit

ND Not detected at or above reporting limit

BOLD Concentration exceeds Residential CHHSL or TTLC

CORNERSTONE EARTH GROUP

Table C. Analytical Results of Selected Soil Samples - TPH, VOCs, SVOCs
(Concentrations in mg/kg)

Sample Location	Sample ID	Date	Depth (feet)	TPHd	TPHo	TPHg	Benz(a)anthracene	Benzo(g,h,i)perylene	Benzo[a]pyrene	Benzo[b]fluoranthene	Chrysene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
SB-1	SB-1 (1-1 1/2)	12/21/2012	1-1½	6.5	<50	<0.19	<0.33	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066
	SB-1 (3-3 1/2)	12/21/2012	3-3½	---	---	---	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	SB-1 (4 1/2-5)	12/21/2012	4½-5	1.1	<50	<0.21	<0.33	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066
SB-2	SB-2 (1-1 1/2)	12/21/2012	1-1½	9.9	<49	<0.2	<0.33	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067
	SB-2 (2 1/2-3)	12/21/2012	2½-3	---	---	---	0.009	0.0092	0.012	0.017	0.019	0.016	0.0077	0.0077	0.018	0.013
	SB-2 (4 1/2-5)	12/21/2012	4½-5	<0.99	<50	<0.21	<0.33	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066
SB-3	SB-3 (1-1 1/2)	12/21/2012	1-1½	40	82	<0.19	<0.33	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067
	SB-3 (2 1/2-3)	12/21/2012	2½-3	---	---	---	<0.049	<0.049	<0.049	<0.049	0.084	<0.049	<0.049	<0.049	<0.049	<0.049
	SB-3 (4 1/2-5)	12/21/2012	4½-5	<0.99	<49	<0.2	<0.33	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067
SB-4	SB-4 (1- 1 1/2)	12/21/2012	1- 1½	<0.99	<50	<0.22	<0.32	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066
	SB-4 (2 1/2-3)	12/21/2012	2½-3	---	---	---	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB-5	SB-5 (1 1/2-2)	12/21/2012	1½-2	10	<50	<0.21	<0.65	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
	SB-5 (2 1/2-3)	12/21/2012	2½-3	---	---	---	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0068	<0.0049
SB-6	SB-6 (1-1 1/2)	12/21/2012	1-1½	<1.0	<50	<0.22	---	---	---	---	---	---	---	<0.0086	---	---
SB-7	SB-7 (1-1 1/2)	12/21/2012	1-1½	1.1	<50	<0.21	---	---	---	---	---	---	---	<0.0085	---	---
SB-8	SB-8 (1-1 1/2)	12/21/2012	1-1½	1.6	<50	<0.25	---	---	---	---	---	---	---	<0.01	---	---
SB-9	SB-9 (1-1 1/2)	12/21/2012	1-1½	1.9	<50	<0.24	<0.33	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067
	SB-9 (2 1/2-3)	12/21/2012	2½-3	---	---	---	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0074	<0.005
Residential CHHSL[1]				NE	NE	NE	NE	NE	0.038	NE	NE	NE	NE	NE	NE	NE
Residential RSL[2]				NE	NE	NE	0.15	NE	0.015	0.15	15	2,300	0.15	3.9	NE	1,700
Residential ESL[3]				83	370	83	0.38	27	0.038	0.38	23	40	0.062	1.3	11	85

1 California Human Health Screening Level (CHHSL), CalEPA - January 2005
2 Regional Screening Level (RSL), USEPA Region 9 – April 2012
3 Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region – May 2008
< Not detected at or above laboratory reporting limit
NE Not Established
--- Not Analyzed

Table D. OVM Readings of Selected Soil Samples - VOCs

Sample Location	Sample ID	Date	Depth (feet)	VOCs	OVM Readings ppmv
SB-1	SB-1 (1-1 1/2)	12/21/2012	1-1½	ND	<1
	SB-1 (3-3 1/2)	12/21/2012	3-3½	---	<1
	SB-1 (4 1/2-5)	12/21/2012	4½-5	ND	<1
	SB-1 (9 1/2-10)	12/21/2012	9½-10	---	<1
	SB-1 (14 1/2-15)	12/21/2012	14½-15	ND	<1
SB-2	SB-2 (1-1 1/2)	12/21/2012	1-1½	ND	<1
	SB-2 (2 1/2-3)	12/21/2012	2½-3	---	<1
	SB-2 (4 1/2-5)	12/21/2012	4½-5	ND	<1
	SB-2 (9 1/2-10)	12/21/2012	9½-10	---	<1
	SB-2 (14 1/2-15)	12/21/2012	14½-15	ND	<1
SB-3	SB-3 (1-1 1/2)	12/21/2012	1-1½	ND	<1
	SB-3 (2 1/2-3)	12/21/2012	2½-3	---	<1
	SB-3 (4 1/2-5)	12/21/2012	4½-5	ND	<1
	SB-3 (9 1/2-10)	12/21/2012	9½-10	---	<1
	SB-3 (14 1/2-15)	12/21/2012	14½-15	ND	<1
SB-4	SB-4 (1- 1 1/2)	12/21/2012	1- 1½	ND	<1
	SB-4 (2 1/2-3)	12/21/2012	2½-3	---	<1
SB-5	SB-5 (1 1/2-2)	12/21/2012	1½-2	ND	<1
	SB-5 (2 1/2-3)	12/21/2012	2½-3	---	<1
SB-6	SB-6 (1-1 1/2)	12/21/2012	1-1½	ND	<1
	SB-6 (2 1/2-3)	12/21/2012	2½-3	---	<1
SB-7	SB-7 (1-1 1/2)	12/21/2012	1-1½	ND	<1
	SB-7 (2 1/2-3)	12/21/2012	2½-3	---	<1
SB-8	SB-8 (1-1 1/2)	12/21/2012	1-1½	ND	<1
	SB-8 (3-3 1/2)	12/21/2012	3-3½	---	<1
SB-9	SB-9 (1-1 1/2)	12/21/2012	1-1½	ND	<1
	SB-9 (2 1/2-3)	12/21/2012	2½-3	---	<1
Residential CHHSL[1]				Various	NE

1 California Human Health Screening Level (CHHSL), CalEPA - September 2010

< Not detected at or above laboratory reporting limit

--- Not Analyzed

CORNERSTONE EARTH GROUP

APPENDIX A – SOIL SAMPLING PROTOCOL AND EXPLORATORY BORING LOGS

Subsurface Investigation.
Subsurface investigation activities were performed on December 21, 2012. Our field engineer directed a subsurface exploration, logged in general accordance with the Unified Soil Classification System (ASTM D-2487), and sampled from 9 exploratory borings (SB-1 to SB-9) to a maximum depth of approximately 15-feet using truck-mounted hollow-stem auger (SB-1, SB-3 through SB-9) and limited-access Minuteman auger (SB-2) drilling equipment. Exploratory boring locations are shown on Figure 2.

Soil was sampled from the hollow stem auger borings in approximately 5 foot intervals to the total depth of the borings of approximately 15 feet. Organic vapors were measured in the field using an organic vapor meter (OVM) by placing the tip of the OVM against a freshly split surface immediately after sample collection. Organic vapors were not detected or were detected at concentrations less than 1 part per million by volume (ppm_v) on soil samples collected.

Soil Sampling.
Soil samples were collected in new and pre-cleaned stainless steel liners and were taped, capped, and labeled with a unique identification number. Core-N-1 capsules (in triplicate) were used to sample approximately 5 grams of undisturbed soil per capsule for VOC analyses.

Ends of soil samples for laboratory analyses were covered in a Teflon film, fitted with plastic end caps, taped, and labeled with a unique sample identification number. The samples were placed in an ice-chilled cooler and transported to a state-certified laboratory with chain of custody documentation.

Equipment Decontamination. All sampling equipment was cleaned in a solution of laboratory grade detergent and steam cleaned prior to use at each sample point.

BORING NUMBER SB-1

CORNERSTONE EARTH GROUP

PROJECT NAME Samsung Semiconductor Corporate Headquarters
PROJECT NUMBER 118-37-3
PROJECT LOCATION San Jose, CA

DATE STARTED 12/21/12 **DATE COMPLETED** 12/21/12
GROUND ELEVATION _____ **BORING DEPTH** 15 ft.
DRILLING CONTRACTOR Exploration Geoservices, Inc.
LATITUDE _____ **LONGITUDE** _____
DRILLING METHOD Mobile B-53, 8 inch Hollow-Stem Auger
GROUND WATER LEVELS:
LOGGED BY NDH
▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____
▼ **AT END OF DRILLING** Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Notes
	0.0		2 inches Asphalt Concrete							
			Sandy Clay w/gravel (CL) [Fill]							
			Clay w/Sand (CL) stiff, moist, brown, fine to medium sand	38		x	75	<1	None	
	2.5		**Clay (CL)** stiff, moist, brown	39		x	50	<1	None	
	5.0			19		x	70	<1	None	
	7.5									
			Clay (CL) Stiff, moist, brown to gray mottled, some fine sand	35		x	80	<1	None	
	10.0									
	12.5									
			Clay (CL) stiff, moist, brown	27		x	80	<1	None	
	15.0		Bottom of Boring at 15.0 feet.							

BORING NUMBER SB-2

CORNERSTONE EARTH GROUP

PROJECT NAME Samsung Semiconductor Corporate Headquarters
PROJECT NUMBER 118-37-3
PROJECT LOCATION San Jose, CA

DATE STARTED 12/21/12 **DATE COMPLETED** 12/21/12
GROUND ELEVATION _____ **BORING DEPTH** 15 ft.
DRILLING CONTRACTOR Exploration Geoservices, Inc.
LATITUDE _____ **LONGITUDE** _____
DRILLING METHOD 8" Hollow Stem Auger, Mobile B-53
GROUND WATER LEVELS:
LOGGED BY NDH
▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____
▼ **AT END OF DRILLING** Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Notes
	0.0		6 inches grass/organics with clayey sand							
			Sandy Clay (CL) [Fill] stiff, moist, brown, fine to medium sand, trace fine gravel	20		x	70	<1	None	
				28			80	<1	None	
	2.5		**Clay w/Sand (CL)** stiff, moist, brown, fine sand			x				
				33			80	<1	None	
	5.0					x				
	7.5									
			Clay w/Sand (CL) stiff, moist, brown, fine to coarse sand	36			100	<1	None	
	10.0					x				
	12.5									
				32			100	<1	None	
	15.0		Bottom of Boring at 15.0 feet.			x				

BORING NUMBER SB-3

CORNERSTONE EARTH GROUP

PROJECT NAME Samsung Semiconductor Corporate Headquarters
PROJECT NUMBER 118-37-3
PROJECT LOCATION San Jose, CA

DATE STARTED 12/21/12 **DATE COMPLETED** 12/21/12
GROUND ELEVATION _____ **BORING DEPTH** 15 ft.
DRILLING CONTRACTOR Exploration Geoservices, Inc.
LATITUDE _____ **LONGITUDE** _____
DRILLING METHOD 8" Hollow Stem Auger, Mobile B-53
GROUND WATER LEVELS:
LOGGED BY NDH
▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____
▼ **AT END OF DRILLING** Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Notes
	0.0		3 inches Asphalt Concrete over 8 inches Class II Aggregate Base							
			Sandy Clay w/Gravel (CL) [Fill] stiff, moist, brown, fine to medium sand, fine to medium gravel, some brick	23		x	100	<1	None	
	2.5		**Clay (CL) [Fill]** stiff, moist, brown, spark plug observed in the liner from 4 to 4.5 feet	23		x	80	<1	None	
				31			80	<1	None	
	5.0		**Clay (CL)** stiff, moist, brown			x				
	7.5									
			Clay w/Sand (CL) stiff, moist, brown, fine to coarse sand	42			100	<1	None	
	10.0					x				
	12.5									
				25			40	<1	None	
	15.0		Bottom of Boring at 15.0 feet.			x				

BORING NUMBER SB-4

CORNERSTONE EARTH GROUP

PROJECT NAME Samsung Semiconductor Corporate Headquarters
PROJECT NUMBER 118-37-3
PROJECT LOCATION San Jose, CA

DATE STARTED 12/21/12 **DATE COMPLETED** 12/21/12
GROUND ELEVATION _____ **BORING DEPTH** 3.5 ft.
DRILLING CONTRACTOR Exploration Geoservices, Inc.
LATITUDE _____ **LONGITUDE** _____
DRILLING METHOD 8" Hollow Stem Auger, Mobile B-53
GROUND WATER LEVELS:
LOGGED BY NDH
▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____
▼ **AT END OF DRILLING** Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Notes
	0.0		2 inches asphalt concrete							
			Sandy Clay w/Gravel (CL) [Fill] stiff, moist, brown, fine to coarse sand, fine to medium gravel	40		x	100	<1	None	
	2.5		**Clay (CL)** very stiff, moist, brown, some organics	22		x	100	<1	None	
			Bottom of Boring at 3.5 feet.							
	5.0									
	7.5									
	10.0									
	12.5									
	15.0									

CORNERSTONE GE LOG DEC192007 - CORNERSTONE 0812.GDT - 1/22/13 07:44 - P:\DRAFTING\GINT FILES\118-37-2 SAMSUNG SEMI CORP HQ.GPJ

BORING NUMBER SB-5

CORNERSTONE EARTH GROUP

PROJECT NAME Samsung Semiconductor Corporate Headquarters
PROJECT NUMBER 118-37-3
PROJECT LOCATION San Jose, CA

DATE STARTED 12/21/12 **DATE COMPLETED** 12/21/12
GROUND ELEVATION _____ **BORING DEPTH** 3.5 ft.
DRILLING CONTRACTOR Exploration Geoservices, Inc.
LATITUDE _____ **LONGITUDE** _____
DRILLING METHOD 8" Hollow Stem Auger, Mobile B-53
GROUND WATER LEVELS:
LOGGED BY NDH
AT TIME OF DRILLING Not Encountered
NOTES _____
AT END OF DRILLING Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Notes
	0.0		3 inches Asphalt Concrete							
			Sandy Clay w/Gravel (CL) [Fill] stiff, moist, brown, fine to coarse sand, trace fine gravel							
			Clay w/Sand (CL) stiff, moist, brown to gray mottled, fine to medium sand	18		x	70	<1	None	
	2.5			16		x	75	<1	None	
			Bottom of Boring at 3.5 feet.							
	5.0									
	7.5									
	10.0									
	12.5									
	15.0									

BORING NUMBER SB-6

CORNERSTONE EARTH GROUP

PROJECT NAME Samsung Semiconductor Corporate Headquarters
PROJECT NUMBER 118-37-3
PROJECT LOCATION San Jose, CA

DATE STARTED 12/21/12 **DATE COMPLETED** 12/21/12
GROUND ELEVATION _____ **BORING DEPTH** 3.5 ft.
DRILLING CONTRACTOR Exploration Geoservices, Inc.
LATITUDE _____ **LONGITUDE** _____
DRILLING METHOD 8" Hollow Stem Auger, Mobile B-53
GROUND WATER LEVELS:
LOGGED BY NDH
▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____
▼ **AT END OF DRILLING** Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Notes
	0.0		3 inches Asphalt Concrete							
			Sandy Clay (CL) [Fill] stiff, moist, brown, fine to medium sand							
			Clay (CL) stiff, moist, brown	29		x	60	<1	None	
	2.5			27		x	80	<1	None	
			Bottom of Boring at 3.5 feet.							
	5.0									
	7.5									
	10.0									
	12.5									
	15.0									

BORING NUMBER SB-7

CORNERSTONE EARTH GROUP

PROJECT NAME Samsung Semiconductor Corporate Headquarters
PROJECT NUMBER 118-37-3
PROJECT LOCATION San Jose, CA

DATE STARTED 12/21/12 **DATE COMPLETED** 12/21/12
GROUND ELEVATION _____ **BORING DEPTH** 3 ft.
DRILLING CONTRACTOR Exploration Geoservices, Inc.
LATITUDE _____ **LONGITUDE** _____
DRILLING METHOD 8" Hollow Stem Auger, Mobile B-53
GROUND WATER LEVELS:
LOGGED BY NDH
▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____
▼ **AT END OF DRILLING** Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Notes
	0.0		3 inches Asphalt Concrete over 6 inches Class II Aggregate base							
			Clay w/Sand (CL) stiff, moist, brown, fine sand	8		x	75	<1	None	
	2.5			17			80	<1	None	
			Bottom of Boring at 3.0 feet.							
	5.0									
	7.5									
	10.0									
	12.5									
	15.0									

BORING NUMBER SB-8

CORNERSTONE EARTH GROUP

PROJECT NAME Samsung Semiconductor Corporate Headquarters
PROJECT NUMBER 118-37-3
PROJECT LOCATION San Jose, CA

DATE STARTED 12/21/12 **DATE COMPLETED** 12/21/12
GROUND ELEVATION _____ **BORING DEPTH** 3.5 ft.
DRILLING CONTRACTOR Exploration Geoservices, Inc.
LATITUDE _____ **LONGITUDE** _____
DRILLING METHOD 8" Hollow Stem Auger, Mobile B-53
GROUND WATER LEVELS:
LOGGED BY NDH
AT TIME OF DRILLING Not Encountered
NOTES _____
AT END OF DRILLING Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Notes
	0.0		3 inches Asphalt Concrete over 6 inches Class II Aggregate Base							
			Clay w/Sand (CL) stiff, moist, brown, fine sand	48		x	70	<1	None	
	2.5			21		x	70	<1	None	
			Bottom of Boring at 3.5 feet.							
	5.0									
	7.5									
	10.0									
	12.5									
	15.0									

BORING NUMBER SB-9

CORNERSTONE EARTH GROUP

PROJECT NAME Samsung Semiconductor Corporate Headquarters
PROJECT NUMBER 118-37-3
PROJECT LOCATION San Jose, CA

DATE STARTED 12/21/12 **DATE COMPLETED** 12/21/12
GROUND ELEVATION _____ **BORING DEPTH** 3.5 ft.
DRILLING CONTRACTOR Exploration Geoservices, Inc.
LATITUDE _____ **LONGITUDE** _____
DRILLING METHOD 8" Hollow Stem Auger, Mobile B-53
GROUND WATER LEVELS:
LOGGED BY NDH
▽ **AT TIME OF DRILLING** Not Encountered
NOTES _____
▼ **AT END OF DRILLING** Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Notes
	0.0		3 inches Asphalt Concrete over 6 inches Class II Aggregate Base							
			Clay (CL) stiff, moist, brown to gray mottled	30		x	70	<1	None	
	2.5			23		x	80	<1	None	
			Bottom of Boring at 3.5 feet.							
	5.0									
	7.5									
	10.0									
	12.5									
	15.0									

CORNERSTONE EARTH GROUP

APPENDIX B – LABORATORY ANALYTICAL REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-46854-1
Client Project/Site: Samsun Semiconductor

For:
Cornerstone Earth Group
1259 Oakmead Parkway
Sunnyvale, California 94085

Attn: Mr. Ron Helm

Authorized for release by:
1/3/2013 4:05:40 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-46854-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-46854-1

Comments
No additional comments.

Receipt
The samples were received on 12/21/2012 6:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5º C.

Except:

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): The container labels list SB-4 (1-1 1/2). The COC lists SB-4 (11/2-2).

GC/MS VOA
Method(s) 8260B: Internal standard response for the following sample 46854-25 exceeded the lower control limit and confirmed by reanalysis. As such, the sample results may be biased high.

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch #127638 recovered above the upper control limit for 2,2-Dichloropropane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 720-127638/3).

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 8270C: The following sample(s) was diluted due to the abundance of non-target analytes: SB-5 (1 1/2-2) (720-46854-8). Elevated reporting limits (RLs) are provided.

Method(s) 8270C: The following sample(s) was diluted due to the abundance of non-target analytes: 6 (720-46785-1). Elevated reporting limits (RLs) are provided.

Method(s) 8270C: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch #127616 were outside control limits. This is attributed to: non-homogeneity of the sample matrix; abundance of target analytes at concentrations significantly higher than the spike concentration; matrix interferences; etc.>>

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8015B: Capric acid surrogate recovery for the following sample(s) was outside control limits: 06-UST240-IDW1 (720-46834-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

ethod(s) 8081A: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: SB-4 (1- 1 1/2) (720-46854-1).

Method(s) 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 127795 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8081A: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: SB-7 (2 1/2-3) (720-46854-17), SB-8 (1-1 1/2) (720-46854-14), SB-8 (3-3 1/2) (720-46854-15), SB-9 (1-1 1/2) (720-46854-12).

Method(s) 8081A: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: SB-2 (2 1/2-3) (720-46854-24).

Method(s) 8082: Surrogate recovery for the following sample(s) was outside the upper control limit: (STD1260 720-127816/5). This

Job ID: 720-46854-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8082: The matrix spike / matrix spike duplicate (MS/MSD) precision for analysis batch 127932 was outside control limits. Non-homogeneity of the sample matrix is suspected. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision met acceptance criteria.

Method(s) 8082: The continuing calibration verification (CCV) associated with batch 127932 recovered above the upper control limit for all analytes and surrogates. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 46854-5,8-20,23,24,25 and 46902-1.

Method(s) 8082: Surrogate recovery for the following sample(s) was outside the upper control limit: SB-1 (4 1/2-5) (720-46854-5), SB-2 (1-1 1/2) (720-46854-23), SB-2 (2 1/2-3) (720-46854-24), SB-2 (4 1/2-5) (720-46854-25), SB-3 (1-1 1/2) (720-46854-18), SB-3 (2 1/2-3) (720-46854-19), SB-3 (4 1/2-5) (720-46854-20), SB-5 (1 1/2-2) (720-46854-8), SB-5 (2 1/2-3) (720-46854-9), SB-6 (1-1 1/2) (720-46854-10), SB-6 (2 1/2-3) (720-46854-11), SB-7 (1-1 1/2) (720-46854-16), SB-7 (2 1/2-3) (720-46854-17), SB-8 (1-1 1/2) (720-46854-14), SB-8 (3-3 1/2) (720-46854-15), SB-9 (1-1 1/2) (720-46854-12), SB-9 (2 1/2-3) (720-46854-13). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8082: Surrogate recovery is high.

Method(s) 8082: Surrogate recovery for the following sample(s) was outside the upper control limit: SB-3 (2 1/2-3) (720-46854-19). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

Metals

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 127757 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 127825 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-4 (1- 1 1/2) — Lab Sample ID: 720-46854-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	15		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	2500		40		ug/Kg	20		8081A	Total/NA
4,4'-DDD	61		2.0		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	14		2.0		ug/Kg	1		8081A	Total/NA
Arsenic	18		3.7		mg/Kg	4		6010B	Total/NA
Barium	270		1.9		mg/Kg	4		6010B	Total/NA
Beryllium	0.60		0.37		mg/Kg	4		6010B	Total/NA
Chromium	100		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	19		0.75		mg/Kg	4		6010B	Total/NA
Copper	57		5.6		mg/Kg	4		6010B	Total/NA
Lead	68		1.9		mg/Kg	4		6010B	Total/NA
Nickel	150		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	57		1.9		mg/Kg	4		6010B	Total/NA
Zinc	99		5.6		mg/Kg	4		6010B	Total/NA
Mercury	4.4		0.10		mg/Kg	10		7471A	Total/NA

Client Sample ID: SB-4 (2 1/2-3) — Lab Sample ID: 720-46854-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	2.2		2.0		ug/Kg	1		8081A	Total/NA
Lead	11		1.9		mg/Kg	4		6010B	Total/NA
Arsenic	6.2		3.9		mg/Kg	4		6010B	Total/NA
Mercury	0.039		0.010		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-1 (1-1 1/2) — Lab Sample ID: 720-46854-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	6.5		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Dieldrin	5.4		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDT	100		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	580		9.8		ug/Kg	5		8081A	Total/NA
4,4'-DDD	42		2.0		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	4.7		2.0		ug/Kg	1		8081A	Total/NA
Arsenic	14		3.8		mg/Kg	4		6010B	Total/NA
Barium	230		1.9		mg/Kg	4		6010B	Total/NA
Beryllium	0.55		0.38		mg/Kg	4		6010B	Total/NA
Chromium	74		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	16		0.77		mg/Kg	4		6010B	Total/NA
Copper	74		5.8		mg/Kg	4		6010B	Total/NA
Lead	23		1.9		mg/Kg	4		6010B	Total/NA
Nickel	120		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	47		1.9		mg/Kg	4		6010B	Total/NA
Zinc	87		5.8		mg/Kg	4		6010B	Total/NA
Mercury	2.8		0.097		mg/Kg	10		7471A	Total/NA

Client Sample ID: SB-1 (3-3 1/2) — Lab Sample ID: 720-46854-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	4.0	p	2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	13		2.0		ug/Kg	1		8081A	Total/NA
Lead	11		2.0		mg/Kg	4		6010B	Total/NA

Client Sample ID: SB-1 (3-3 1/2) (Continued) — Lab Sample ID: 720-46854-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.2		3.9		mg/Kg	4		6010B	Total/NA
Mercury	0.072		0.0090		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-1 (4 1/2-5) — Lab Sample ID: 720-46854-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.1		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Arsenic	7.9		3.8		mg/Kg	4		6010B	Total/NA
Barium	250		1.9		mg/Kg	4		6010B	Total/NA
Beryllium	0.69		0.38		mg/Kg	4		6010B	Total/NA
Chromium	67		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	17		0.76		mg/Kg	4		6010B	Total/NA
Copper	42		5.7		mg/Kg	4		6010B	Total/NA
Lead	11		1.9		mg/Kg	4		6010B	Total/NA
Nickel	96		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	49		1.9		mg/Kg	4		6010B	Total/NA
Zinc	77		5.7		mg/Kg	4		6010B	Total/NA
Mercury	0.048		0.0088		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-5 (1 1/2-2) — Lab Sample ID: 720-46854-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	10		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
4,4'-DDT	27		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	220		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDD	34		2.0		ug/Kg	1		8081A	Total/NA
Arsenic	8.8		3.8		mg/Kg	4		6010B	Total/NA
Barium	210		1.9		mg/Kg	4		6010B	Total/NA
Chromium	110		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	20		0.75		mg/Kg	4		6010B	Total/NA
Copper	48		5.7		mg/Kg	4		6010B	Total/NA
Lead	20		1.9		mg/Kg	4		6010B	Total/NA
Nickel	160		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	57		1.9		mg/Kg	4		6010B	Total/NA
Zinc	72		5.7		mg/Kg	4		6010B	Total/NA
Mercury	0.56		0.0097		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-5 (2 1/2-3) — Lab Sample ID: 720-46854-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	6.8		4.9		ug/Kg	1		8270C SIM	Total/NA
4,4'-DDT	15		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	120		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDD	14		2.0		ug/Kg	1		8081A	Total/NA
Lead	21		1.9		mg/Kg	4		6010B	Total/NA
Arsenic	15		3.8		mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.0095		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-6 (1-1 1/2) — Lab Sample ID: 720-46854-10

Client Sample ID: SB-6 (1-1 1/2) (Continued) — Lab Sample ID: 720-46854-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.9		3.8		mg/Kg	4		6010B	Total/NA
Barium	350		1.9		mg/Kg	4		6010B	Total/NA
Beryllium	0.79		0.38		mg/Kg	4		6010B	Total/NA
Chromium	76		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	16		0.77		mg/Kg	4		6010B	Total/NA
Copper	44		5.8		mg/Kg	4		6010B	Total/NA
Lead	11		1.9		mg/Kg	4		6010B	Total/NA
Nickel	96		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	59		1.9		mg/Kg	4		6010B	Total/NA
Zinc	74		5.8		mg/Kg	4		6010B	Total/NA
Mercury	0.058		0.0092		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-6 (2 1/2-3) — Lab Sample ID: 720-46854-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	100		1.9		ug/Kg	1		8081A	Total/NA
4,4'-DDE	310		1.9		ug/Kg	1		8081A	Total/NA
4,4'-DDD	13		1.9		ug/Kg	1		8081A	Total/NA
Lead	13		1.9		mg/Kg	4		6010B	Total/NA
Arsenic	8.7		3.8		mg/Kg	4		6010B	Total/NA
Mercury	1.4		0.0088		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-9 (1-1 1/2) — Lab Sample ID: 720-46854-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.9		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Dieldrin	43		20		ug/Kg	10		8081A	Total/NA
4,4'-DDT	49		20		ug/Kg	10		8081A	Total/NA
4,4'-DDE	1600		20		ug/Kg	10		8081A	Total/NA
4,4'-DDD	360		20		ug/Kg	10		8081A	Total/NA
Arsenic	24		3.9		mg/Kg	4		6010B	Total/NA
Barium	180		1.9		mg/Kg	4		6010B	Total/NA
Beryllium	0.39		0.39		mg/Kg	4		6010B	Total/NA
Chromium	80		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	16		0.78		mg/Kg	4		6010B	Total/NA
Copper	60		5.8		mg/Kg	4		6010B	Total/NA
Lead	77		1.9		mg/Kg	4		6010B	Total/NA
Nickel	130		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	46		1.9		mg/Kg	4		6010B	Total/NA
Zinc	81		5.8		mg/Kg	4		6010B	Total/NA
Mercury	7.3		0.098		mg/Kg	10		7471A	Total/NA

Client Sample ID: SB-9 (2 1/2-3) — Lab Sample ID: 720-46854-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	7.4		5.0		ug/Kg	1		8270C SIM	Total/NA
4,4'-DDE	4.5		2.0		ug/Kg	1		8081A	Total/NA
Lead	10		2.0		mg/Kg	4		6010B	Total/NA
Arsenic	7.1		4.0		mg/Kg	4		6010B	Total/NA
Mercury	0.048		0.0091		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-8 (1-1 1/2) — Lab Sample ID: 720-46854-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.6		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
4,4'-DDT	110		20		ug/Kg	10		8081A	Total/NA
4,4'-DDE	1300		20		ug/Kg	10		8081A	Total/NA
4,4'-DDD	330		20		ug/Kg	10		8081A	Total/NA
Arsenic	18		3.9		mg/Kg	4		6010B	Total/NA
Barium	260		1.9		mg/Kg	4		6010B	Total/NA
Beryllium	0.62		0.39		mg/Kg	4		6010B	Total/NA
Chromium	92		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	17		0.78		mg/Kg	4		6010B	Total/NA
Copper	77		5.8		mg/Kg	4		6010B	Total/NA
Lead	34		1.9		mg/Kg	4		6010B	Total/NA
Nickel	140		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	57		1.9		mg/Kg	4		6010B	Total/NA
Zinc	91		5.8		mg/Kg	4		6010B	Total/NA
Mercury	4.9		0.088		mg/Kg	10		7471A	Total/NA

Client Sample ID: SB-8 (3-3 1/2) — Lab Sample ID: 720-46854-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	140		20		ug/Kg	10		8081A	Total/NA
4,4'-DDE	790		20		ug/Kg	10		8081A	Total/NA
4,4'-DDD	200		20		ug/Kg	10		8081A	Total/NA
Lead	17		2.0		mg/Kg	4		6010B	Total/NA
Arsenic	11		3.9		mg/Kg	4		6010B	Total/NA
Mercury	2.9		0.098		mg/Kg	10		7471A	Total/NA

Client Sample ID: SB-7 (1-1 1/2) — Lab Sample ID: 720-46854-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.1		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
4,4'-DDT	110		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	240		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDD	24		2.0		ug/Kg	1		8081A	Total/NA
Arsenic	16		3.8		mg/Kg	4		6010B	Total/NA
Barium	170		1.9		mg/Kg	4		6010B	Total/NA
Beryllium	0.47		0.38		mg/Kg	4		6010B	Total/NA
Chromium	140		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	20		0.75		mg/Kg	4		6010B	Total/NA
Copper	49		5.7		mg/Kg	4		6010B	Total/NA
Lead	69		1.9		mg/Kg	4		6010B	Total/NA
Nickel	220		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	52		1.9		mg/Kg	4		6010B	Total/NA
Zinc	79		5.7		mg/Kg	4		6010B	Total/NA
Mercury	0.046		0.0087		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-7 (2 1/2-3) — Lab Sample ID: 720-46854-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	700		20		ug/Kg	10		8081A	Total/NA
4,4'-DDE	1700		20		ug/Kg	10		8081A	Total/NA

Client Sample ID: SB-7 (2 1/2-3) (Continued) — Lab Sample ID: 720-46854-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDD	130		20		ug/Kg	10		8081A	Total/NA
Lead	32		1.9		mg/Kg	4		6010B	Total/NA
Arsenic	18		3.8		mg/Kg	4		6010B	Total/NA
Mercury	7.3		0.097		mg/Kg	10		7471A	Total/NA

Client Sample ID: SB-3 (1-1 1/2) — Lab Sample ID: 720-46854-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	40		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	82		50		mg/Kg	1		8015B	Silica Gel Cleanup
4,4'-DDE	12		2.0		ug/Kg	1		8081A	Total/NA
Arsenic	4.6		3.8		mg/Kg	4		6010B	Total/NA
Barium	300		1.9		mg/Kg	4		6010B	Total/NA
Chromium	320		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	33		0.77		mg/Kg	4		6010B	Total/NA
Copper	51		5.8		mg/Kg	4		6010B	Total/NA
Lead	6.0		1.9		mg/Kg	4		6010B	Total/NA
Nickel	470		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	46		1.9		mg/Kg	4		6010B	Total/NA
Zinc	49		5.8		mg/Kg	4		6010B	Total/NA
Mercury	0.050		0.0090		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-3 (2 1/2-3) — Lab Sample ID: 720-46854-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	84		49		ug/Kg	10		8270C SIM	Total/NA
Dieldrin	5.0		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	150		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDD	29		2.0		ug/Kg	1		8081A	Total/NA
Lead	19		1.9		mg/Kg	4		6010B	Total/NA
Arsenic	7.1		3.7		mg/Kg	4		6010B	Total/NA
Mercury	4.1		0.091		mg/Kg	10		7471A	Total/NA

Client Sample ID: SB-3 (4 1/2-5) — Lab Sample ID: 720-46854-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	5.5		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	190		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDD	18		2.0		ug/Kg	1		8081A	Total/NA
Arsenic	9.6		3.9		mg/Kg	4		6010B	Total/NA
Barium	340		2.0		mg/Kg	4		6010B	Total/NA
Beryllium	0.73		0.39		mg/Kg	4		6010B	Total/NA
Chromium	77		2.0		mg/Kg	4		6010B	Total/NA
Cobalt	17		0.78		mg/Kg	4		6010B	Total/NA
Copper	47		5.9		mg/Kg	4		6010B	Total/NA
Lead	12		2.0		mg/Kg	4		6010B	Total/NA
Nickel	100		2.0		mg/Kg	4		6010B	Total/NA
Vanadium	58		2.0		mg/Kg	4		6010B	Total/NA
Zinc	79		5.9		mg/Kg	4		6010B	Total/NA
Mercury	0.25		0.0091		mg/Kg	1		7471A	Total/NA

Detection Summary

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-2 (1-1 1/2) — Lab Sample ID: 720-46854-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	9.9		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
4,4'-DDT	27		9.9		ug/Kg	5		8081A	Total/NA
4,4'-DDE	450		9.9		ug/Kg	5		8081A	Total/NA
4,4'-DDD	130		9.9		ug/Kg	5		8081A	Total/NA
Arsenic	9.4		4.0		mg/Kg	4		6010B	Total/NA
Barium	200		2.0		mg/Kg	4		6010B	Total/NA
Beryllium	0.48		0.40		mg/Kg	4		6010B	Total/NA
Chromium	210		2.0		mg/Kg	4		6010B	Total/NA
Cobalt	18		0.80		mg/Kg	4		6010B	Total/NA
Copper	42		6.0		mg/Kg	4		6010B	Total/NA
Lead	17		2.0		mg/Kg	4		6010B	Total/NA
Nickel	280		2.0		mg/Kg	4		6010B	Total/NA
Vanadium	48		2.0		mg/Kg	4		6010B	Total/NA
Zinc	67		6.0		mg/Kg	4		6010B	Total/NA
Mercury	1.3		0.0095		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-2 (2 1/2-3) — Lab Sample ID: 720-46854-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	9.0		4.9		ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	12		4.9		ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	17		4.9		ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	9.2		4.9		ug/Kg	1		8270C SIM	Total/NA
Chrysene	19		4.9		ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	16		4.9		ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	7.7		4.9		ug/Kg	1		8270C SIM	Total/NA
Naphthalene	7.7		4.9		ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	18		4.9		ug/Kg	1		8270C SIM	Total/NA
Pyrene	13		4.9		ug/Kg	1		8270C SIM	Total/NA
4,4'-DDE	1400		98		ug/Kg	50		8081A	Total/NA
4,4'-DDD	320		98		ug/Kg	50		8081A	Total/NA
Lead	28		2.0		mg/Kg	4		6010B	Total/NA
Arsenic	12		4.0		mg/Kg	4		6010B	Total/NA
Mercury	3.5		0.090		mg/Kg	10		7471A	Total/NA

Client Sample ID: SB-2 (4 1/2-5) — Lab Sample ID: 720-46854-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	8.0		2.0		ug/Kg	1		8081A	Total/NA
Arsenic	8.4		3.9		mg/Kg	4		6010B	Total/NA
Barium	320		2.0		mg/Kg	4		6010B	Total/NA
Beryllium	0.63		0.39		mg/Kg	4		6010B	Total/NA
Chromium	69		2.0		mg/Kg	4		6010B	Total/NA
Cobalt	15		0.78		mg/Kg	4		6010B	Total/NA
Copper	41		5.9		mg/Kg	4		6010B	Total/NA
Lead	11		2.0		mg/Kg	4		6010B	Total/NA
Nickel	97		2.0		mg/Kg	4		6010B	Total/NA
Vanadium	64		2.0		mg/Kg	4		6010B	Total/NA
Zinc	67		5.9		mg/Kg	4		6010B	Total/NA
Mercury	0.092		0.0086		mg/Kg	1		7471A	Total/NA

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-4 (1- 1 1/2)
Date Collected: 12/21/12 07:55
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-1
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Acetone	ND		45		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Benzene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Dichlorobromomethane	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Bromobenzene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Chlorobromomethane	ND		18		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Bromoform	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Bromomethane	ND		9.0		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
2-Butanone (MEK)	ND		45		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
n-Butylbenzene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
sec-Butylbenzene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
tert-Butylbenzene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Carbon disulfide	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Carbon tetrachloride	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Chlorobenzene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Chloroethane	ND		9.0		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Chloroform	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Chloromethane	ND		9.0		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
2-Chlorotoluene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
4-Chlorotoluene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Chlorodibromomethane	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
1,2-Dichlorobenzene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
1,3-Dichlorobenzene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
1,4-Dichlorobenzene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
1,3-Dichloropropane	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
1,1-Dichloropropene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
1,2-Dibromo-3-Chloropropane	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Ethylene Dibromide	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Dibromomethane	ND		9.0		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Dichlorodifluoromethane	ND		9.0		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
1,1-Dichloroethane	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
1,2-Dichloroethane	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
1,1-Dichloroethene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
cis-1,2-Dichloroethene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
trans-1,2-Dichloroethene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
1,2-Dichloropropane	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
cis-1,3-Dichloropropene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
trans-1,3-Dichloropropene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Ethylbenzene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Hexachlorobutadiene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
2-Hexanone	ND		45		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Isopropylbenzene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
4-Isopropyltoluene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Methylene Chloride	ND		9.0		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
4-Methyl-2-pentanone (MIBK)	ND		45		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Naphthalene	ND		9.0		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
N-Propylbenzene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Styrene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
1,1,1,2-Tetrachloroethane	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1

Client Sample ID: SB-4 (1- 1 1/2)
Date Collected: 12/21/12 07:55
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-1
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Tetrachloroethene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Toluene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
1,2,3-Trichlorobenzene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
1,2,4-Trichlorobenzene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
1,1,1-Trichloroethane	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
1,1,2-Trichloroethane	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Trichloroethene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Trichlorofluoromethane	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
1,2,3-Trichloropropane	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
1,2,4-Trimethylbenzene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
1,3,5-Trimethylbenzene	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Vinyl acetate	ND		45		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Vinyl chloride	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Xylenes, Total	ND		9.0		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
2,2-Dichloropropane	ND		4.5		ug/Kg		12/22/12 14:33	12/22/12 14:59	1
Gasoline Range Organics (GRO) -C5-C12	ND		220		ug/Kg		12/22/12 14:33	12/22/12 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*86*		*45 - 131*	*12/22/12 14:33*	*12/22/12 14:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*	*12/22/12 14:33*	*12/22/12 14:59*	*1*
Toluene-d8 (Surr)	*97*		*58 - 140*	*12/22/12 14:33*	*12/22/12 14:59*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Bis(2-chloroethyl)ether	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
2-Chlorophenol	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
1,3-Dichlorobenzene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
1,4-Dichlorobenzene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Benzyl alcohol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
1,2-Dichlorobenzene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
2-Methylphenol	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Methylphenol, 3 & 4	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
N-Nitrosodi-n-propylamine	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Hexachloroethane	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Nitrobenzene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Isophorone	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
2-Nitrophenol	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
2,4-Dimethylphenol	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
2,4-Dichlorophenol	ND		0.32		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
1,2,4-Trichlorobenzene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Naphthalene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
4-Chloroaniline	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Hexachlorobutadiene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
2-Methylnaphthalene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-4 (1- 1 1/2)
Date Collected: 12/21/12 07:55
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-1
Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
2,4,6-Trichlorophenol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
2,4,5-Trichlorophenol	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
2-Chloronaphthalene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
2-Nitroaniline	ND		0.32		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Dimethyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Acenaphthylene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
3-Nitroaniline	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Acenaphthene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
2,4-Dinitrophenol	ND		0.65		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
4-Nitrophenol	ND		0.32		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Dibenzofuran	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
2,4-Dinitrotoluene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
2,6-Dinitrotoluene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Diethyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Fluorene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
4-Nitroaniline	ND		0.32		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
2-Methyl-4,6-dinitrophenol	ND		0.32		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
N-Nitrosodiphenylamine	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Hexachlorobenzene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Pentachlorophenol	ND		0.32		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Phenanthrene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Anthracene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Di-n-butyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Fluoranthene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Pyrene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
3,3'-Dichlorobenzidine	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Benzo[a]anthracene	ND		0.32		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Bis(2-ethylhexyl) phthalate	ND		0.32		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Chrysene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Benzo[b]fluoranthene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Benzo[a]pyrene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Benzo[k]fluoranthene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Indeno[1,2,3-cd]pyrene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Benzo[g,h,i]perylene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Benzoic acid	ND		0.32		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Azobenzene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1
Dibenz(a,h)anthracene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*66*		*21 - 98*	*12/22/12 10:49*	*12/26/12 19:09*	*1*
2-Fluorobiphenyl	*73*		*30 - 112*	*12/22/12 10:49*	*12/26/12 19:09*	*1*
Terphenyl-d14	*72*		*32 - 117*	*12/22/12 10:49*	*12/26/12 19:09*	*1*
2-Fluorophenol	*61*		*28 - 98*	*12/22/12 10:49*	*12/26/12 19:09*	*1*
Phenol-d5	*66*		*23 - 101*	*12/22/12 10:49*	*12/26/12 19:09*	*1*
2,4,6-Tribromophenol	*75*		*37 - 114*	*12/22/12 10:49*	*12/26/12 19:09*	*1*

Client Sample ID: SB-4 (1- 1 1/2)
Date Collected: 12/21/12 07:55
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		12/26/12 14:19	12/26/12 20:31	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/26/12 14:19	12/26/12 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*12/26/12 14:19*	*12/26/12 20:31*	*1*
p-Terphenyl	*100*		*38 - 148*	*12/26/12 14:19*	*12/26/12 20:31*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:28	1
Dieldrin	**15**		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:28	1
Endrin aldehyde	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:28	1
Endrin	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:28	1
Endrin ketone	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:28	1
Heptachlor	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:28	1
Heptachlor epoxide	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:28	1
4,4'-DDT	ND		40		ug/Kg		12/24/12 13:44	12/28/12 05:02	20
4,4'-DDE	**2500**		40		ug/Kg		12/24/12 13:44	12/28/12 05:02	20
4,4'-DDD	**61**		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:28	1
Endosulfan I	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:28	1
Endosulfan II	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:28	1
alpha-BHC	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:28	1
beta-BHC	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:28	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:28	1
delta-BHC	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:28	1
Endosulfan sulfate	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:28	1
Methoxychlor	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:28	1
Toxaphene	ND		40		ug/Kg		12/24/12 13:44	12/26/12 20:28	1
Chlordane (technical)	ND		40		ug/Kg		12/24/12 13:44	12/26/12 20:28	1
alpha-Chlordane	**14**		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:28	1
gamma-Chlordane	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*57 - 122*	*12/24/12 13:44*	*12/26/12 20:28*	*1*
Tetrachloro-m-xylene	*0*	*X D*	*57 - 122*	*12/24/12 13:44*	*12/28/12 05:02*	*20*
DCB Decachlorobiphenyl	*120*		*21 - 136*	*12/24/12 13:44*	*12/26/12 20:28*	*1*
DCB Decachlorobiphenyl	*0*	*X D*	*21 - 136*	*12/24/12 13:44*	*12/28/12 05:02*	*20*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		12/24/12 13:33	12/28/12 06:32	1
PCB-1221	ND		50		ug/Kg		12/24/12 13:33	12/28/12 06:32	1
PCB-1232	ND		50		ug/Kg		12/24/12 13:33	12/28/12 06:32	1
PCB-1242	ND		50		ug/Kg		12/24/12 13:33	12/28/12 06:32	1
PCB-1248	ND		50		ug/Kg		12/24/12 13:33	12/28/12 06:32	1
PCB-1254	ND		50		ug/Kg		12/24/12 13:33	12/28/12 06:32	1
PCB-1260	ND		50		ug/Kg		12/24/12 13:33	12/28/12 06:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*32 - 112*	*12/24/12 13:33*	*12/28/12 06:32*	*1*
DCB Decachlorobiphenyl	*85*		*2 - 122*	*12/24/12 13:33*	*12/28/12 06:32*	*1*

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-4 (1- 1 1/2)
Date Collected: 12/21/12 07:55
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-1
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		12/26/12 18:45	12/27/12 15:37	4
Arsenic	**18**		3.7		mg/Kg		12/26/12 18:45	12/27/12 15:37	4
Barium	**270**		1.9		mg/Kg		12/26/12 18:45	12/27/12 15:37	4
Beryllium	**0.60**		0.37		mg/Kg		12/26/12 18:45	12/27/12 15:37	4
Cadmium	ND		0.47		mg/Kg		12/26/12 18:45	12/27/12 15:37	4
Chromium	**100**		1.9		mg/Kg		12/26/12 18:45	12/27/12 15:37	4
Cobalt	**19**		0.75		mg/Kg		12/26/12 18:45	12/27/12 15:37	4
Copper	**57**		5.6		mg/Kg		12/26/12 18:45	12/27/12 15:37	4
Lead	**68**		1.9		mg/Kg		12/26/12 18:45	12/27/12 15:37	4
Molybdenum	ND		1.9		mg/Kg		12/26/12 18:45	12/27/12 15:37	4
Nickel	**150**		1.9		mg/Kg		12/26/12 18:45	12/27/12 15:37	4
Selenium	ND		3.7		mg/Kg		12/26/12 18:45	12/27/12 15:37	4
Silver	ND		0.93		mg/Kg		12/26/12 18:45	12/27/12 15:37	4
Thallium	ND		1.9		mg/Kg		12/26/12 18:45	12/27/12 15:37	4
Vanadium	**57**		1.9		mg/Kg		12/26/12 18:45	12/27/12 15:37	4
Zinc	**99**		5.6		mg/Kg		12/26/12 18:45	12/27/12 15:37	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**4.4**		0.10		mg/Kg		12/24/12 18:08	12/27/12 16:06	10

Client Sample ID: SB-4 (2 1/2-3)
Date Collected: 12/21/12 08:00
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-2
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:05	1
Acenaphthylene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:05	1
Anthracene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:05	1
Benzo[a]anthracene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:05	1
Benzo[a]pyrene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:05	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:05	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:05	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:05	1
Chrysene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:05	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:05	1
Fluoranthene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:05	1
Fluorene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:05	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:05	1
Naphthalene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:05	1
Phenanthrene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:05	1
Pyrene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*33 - 120*	*12/27/12 11:19*	*12/27/12 21:05*	*1*
Terphenyl-d14	*65*		*35 - 146*	*12/27/12 11:19*	*12/27/12 21:05*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:44	1
Dieldrin	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:44	1
Endrin aldehyde	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:44	1
Endrin	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:44	1
Endrin ketone	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:44	1
Heptachlor	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:44	1
Heptachlor epoxide	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:44	1
4,4'-DDT	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:44	1
4,4'-DDE	**2.2**		2.0		ug/Kg		12/24/12 13:44	12/28/12 05:19	1
4,4'-DDD	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:44	1
Endosulfan I	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:44	1
Endosulfan II	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:44	1
alpha-BHC	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:44	1
beta-BHC	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:44	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:44	1
delta-BHC	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:44	1
Endosulfan sulfate	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:44	1
Methoxychlor	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:44	1
Toxaphene	ND		40		ug/Kg		12/24/12 13:44	12/26/12 20:44	1
Chlordane (technical)	ND		40		ug/Kg		12/24/12 13:44	12/26/12 20:44	1
alpha-Chlordane	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:44	1
gamma-Chlordane	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*57 - 122*	*12/24/12 13:44*	*12/26/12 20:44*	*1*
Tetrachloro-m-xylene	*76*		*57 - 122*	*12/24/12 13:44*	*12/28/12 05:19*	*1*
DCB Decachlorobiphenyl	*102*		*21 - 136*	*12/24/12 13:44*	*12/26/12 20:44*	*1*

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-4 (2 1/2-3)
Date Collected: 12/21/12 08:00
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-2
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*82*		*21 - 136*	*12/24/12 13:44*	*12/28/12 05:19*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		12/24/12 13:33	12/28/12 06:51	1
PCB-1221	ND		50		ug/Kg		12/24/12 13:33	12/28/12 06:51	1
PCB-1232	ND		50		ug/Kg		12/24/12 13:33	12/28/12 06:51	1
PCB-1242	ND		50		ug/Kg		12/24/12 13:33	12/28/12 06:51	1
PCB-1248	ND		50		ug/Kg		12/24/12 13:33	12/28/12 06:51	1
PCB-1254	ND		50		ug/Kg		12/24/12 13:33	12/28/12 06:51	1
PCB-1260	ND		50		ug/Kg		12/24/12 13:33	12/28/12 06:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*76*		*32 - 112*	*12/24/12 13:33*	*12/28/12 06:51*	*1*
DCB Decachlorobiphenyl	*78*		*2 - 122*	*12/24/12 13:33*	*12/28/12 06:51*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**11**		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:28	4
Arsenic	**6.2**		3.9		mg/Kg		12/26/12 21:36	12/27/12 19:28	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.039**		0.010		mg/Kg		12/24/12 18:08	12/27/12 14:46	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-1 (1-1 1/2)
Date Collected: 12/21/12 08:25
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-3
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Acetone	ND		39		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Benzene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Dichlorobromomethane	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Bromobenzene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Chlorobromomethane	ND		16		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Bromoform	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Bromomethane	ND		7.8		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
2-Butanone (MEK)	ND		39		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
n-Butylbenzene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
sec-Butylbenzene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
tert-Butylbenzene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Carbon disulfide	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Carbon tetrachloride	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Chlorobenzene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Chloroethane	ND		7.8		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Chloroform	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Chloromethane	ND		7.8		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
2-Chlorotoluene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
4-Chlorotoluene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Chlorodibromomethane	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
1,2-Dichlorobenzene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
1,3-Dichlorobenzene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
1,4-Dichlorobenzene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
1,3-Dichloropropane	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
1,1-Dichloropropene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
1,2-Dibromo-3-Chloropropane	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Ethylene Dibromide	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Dibromomethane	ND		7.8		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Dichlorodifluoromethane	ND		7.8		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
1,1-Dichloroethane	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
1,2-Dichloroethane	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
1,1-Dichloroethene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
cis-1,2-Dichloroethene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
trans-1,2-Dichloroethene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
1,2-Dichloropropane	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
cis-1,3-Dichloropropene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
trans-1,3-Dichloropropene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Ethylbenzene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Hexachlorobutadiene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
2-Hexanone	ND		39		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Isopropylbenzene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
4-Isopropyltoluene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Methylene Chloride	ND		7.8		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
4-Methyl-2-pentanone (MIBK)	ND		39		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Naphthalene	ND		7.8		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
N-Propylbenzene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Styrene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
1,1,1,2-Tetrachloroethane	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-1 (1-1 1/2)
Date Collected: 12/21/12 08:25
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-3
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Tetrachloroethene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Toluene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
1,2,3-Trichlorobenzene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
1,2,4-Trichlorobenzene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
1,1,1-Trichloroethane	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
1,1,2-Trichloroethane	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Trichloroethene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Trichlorofluoromethane	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
1,2,3-Trichloropropane	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
1,2,4-Trimethylbenzene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
1,3,5-Trimethylbenzene	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Vinyl acetate	ND		39		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Vinyl chloride	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Xylenes, Total	ND		7.8		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
2,2-Dichloropropane	ND		3.9		ug/Kg		12/22/12 14:33	12/22/12 15:29	1
Gasoline Range Organics (GRO) -C5-C12	ND		190		ug/Kg		12/22/12 14:33	12/22/12 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*85*		*45 - 131*	*12/22/12 14:33*	*12/22/12 15:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*	*12/22/12 14:33*	*12/22/12 15:29*	*1*
Toluene-d8 (Surr)	*97*		*58 - 140*	*12/22/12 14:33*	*12/22/12 15:29*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Bis(2-chloroethyl)ether	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
2-Chlorophenol	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
1,3-Dichlorobenzene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
1,4-Dichlorobenzene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Benzyl alcohol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
1,2-Dichlorobenzene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
2-Methylphenol	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Methylphenol, 3 & 4	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
N-Nitrosodi-n-propylamine	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Hexachloroethane	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Nitrobenzene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Isophorone	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
2-Nitrophenol	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
2,4-Dimethylphenol	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
1,2,4-Trichlorobenzene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Naphthalene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
4-Chloroaniline	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Hexachlorobutadiene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
2-Methylnaphthalene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-1 (1-1 1/2)
Date Collected: 12/21/12 08:25
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-3
Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
2,4,6-Trichlorophenol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
2,4,5-Trichlorophenol	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
2-Chloronaphthalene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
2-Nitroaniline	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Dimethyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Acenaphthylene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
3-Nitroaniline	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Acenaphthene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
2,4-Dinitrophenol	ND		0.65		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
4-Nitrophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Dibenzofuran	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
2,4-Dinitrotoluene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
2,6-Dinitrotoluene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Diethyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Fluorene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
4-Nitroaniline	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
2-Methyl-4,6-dinitrophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
N-Nitrosodiphenylamine	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Hexachlorobenzene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Pentachlorophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Phenanthrene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Anthracene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Di-n-butyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Fluoranthene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Pyrene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
3,3'-Dichlorobenzidine	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Benzo[a]anthracene	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Chrysene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Benzo[b]fluoranthene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Benzo[a]pyrene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Benzo[k]fluoranthene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Indeno[1,2,3-cd]pyrene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Benzo[g,h,i]perylene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Benzoic acid	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Azobenzene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1
Dibenz(a,h)anthracene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*68*		*21 - 98*	*12/22/12 10:49*	*12/26/12 18:45*	*1*
2-Fluorobiphenyl	*74*		*30 - 112*	*12/22/12 10:49*	*12/26/12 18:45*	*1*
Terphenyl-d14	*69*		*32 - 117*	*12/22/12 10:49*	*12/26/12 18:45*	*1*
2-Fluorophenol	*63*		*28 - 98*	*12/22/12 10:49*	*12/26/12 18:45*	*1*
Phenol-d5	*68*		*23 - 101*	*12/22/12 10:49*	*12/26/12 18:45*	*1*
2,4,6-Tribromophenol	*72*		*37 - 114*	*12/22/12 10:49*	*12/26/12 18:45*	*1*

Client Sample ID: SB-1 (1-1 1/2)

Date Collected: 12/21/12 08:25
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-3

Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**6.5**		0.99		mg/Kg		12/26/12 14:19	12/26/12 22:08	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/26/12 14:19	12/26/12 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.05*		*0 - 1*	*12/26/12 14:19*	*12/26/12 22:08*	*1*
p-Terphenyl	*94*		*38 - 148*	*12/26/12 14:19*	*12/26/12 22:08*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:17	1
Dieldrin	**5.4**		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:17	1
Endrin aldehyde	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:17	1
Endrin	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:17	1
Endrin ketone	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:17	1
Heptachlor	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:17	1
Heptachlor epoxide	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:17	1
4,4'-DDT	**100**		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:17	1
4,4'-DDE	**580**		9.8		ug/Kg		12/24/12 13:44	12/28/12 05:36	5
4,4'-DDD	**42**		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:17	1
Endosulfan I	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:17	1
Endosulfan II	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:17	1
alpha-BHC	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:17	1
beta-BHC	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:17	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:17	1
delta-BHC	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:17	1
Endosulfan sulfate	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:17	1
Methoxychlor	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:17	1
Toxaphene	ND		39		ug/Kg		12/24/12 13:44	12/26/12 21:17	1
Chlordane (technical)	ND		39		ug/Kg		12/24/12 13:44	12/26/12 21:17	1
alpha-Chlordane	**4.7**		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:17	1
gamma-Chlordane	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*57 - 122*	*12/24/12 13:44*	*12/26/12 21:17*	*1*
Tetrachloro-m-xylene	*111*		*57 - 122*	*12/24/12 13:44*	*12/28/12 05:36*	*5*
DCB Decachlorobiphenyl	*118*		*21 - 136*	*12/24/12 13:44*	*12/26/12 21:17*	*1*
DCB Decachlorobiphenyl	*100*		*21 - 136*	*12/24/12 13:44*	*12/28/12 05:36*	*5*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		12/24/12 13:33	12/28/12 07:09	1
PCB-1221	ND		49		ug/Kg		12/24/12 13:33	12/28/12 07:09	1
PCB-1232	ND		49		ug/Kg		12/24/12 13:33	12/28/12 07:09	1
PCB-1242	ND		49		ug/Kg		12/24/12 13:33	12/28/12 07:09	1
PCB-1248	ND		49		ug/Kg		12/24/12 13:33	12/28/12 07:09	1
PCB-1254	ND		49		ug/Kg		12/24/12 13:33	12/28/12 07:09	1
PCB-1260	ND		49		ug/Kg		12/24/12 13:33	12/28/12 07:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*32 - 112*	*12/24/12 13:33*	*12/28/12 07:09*	*1*
DCB Decachlorobiphenyl	*89*		*2 - 122*	*12/24/12 13:33*	*12/28/12 07:09*	*1*

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-1 (1-1 1/2)
Date Collected: 12/21/12 08:25
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-3
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:36	4
Arsenic	**14**		3.8		mg/Kg		12/26/12 21:36	12/27/12 19:36	4
Barium	**230**		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:36	4
Beryllium	**0.55**		0.38		mg/Kg		12/26/12 21:36	12/27/12 19:36	4
Cadmium	ND		0.48		mg/Kg		12/26/12 21:36	12/27/12 19:36	4
Chromium	**74**		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:36	4
Cobalt	**16**		0.77		mg/Kg		12/26/12 21:36	12/27/12 19:36	4
Copper	**74**		5.8		mg/Kg		12/26/12 21:36	12/27/12 19:36	4
Lead	**23**		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:36	4
Molybdenum	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:36	4
Nickel	**120**		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:36	4
Selenium	ND		3.8		mg/Kg		12/26/12 21:36	12/27/12 19:36	4
Silver	ND		0.96		mg/Kg		12/26/12 21:36	12/27/12 19:36	4
Thallium	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:36	4
Vanadium	**47**		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:36	4
Zinc	**87**		5.8		mg/Kg		12/26/12 21:36	12/27/12 19:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.8**		0.097		mg/Kg		12/24/12 18:08	12/27/12 16:09	10

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-1 (3-3 1/2)

Date Collected: 12/21/12 08:30
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-4

Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:29	1
Acenaphthylene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:29	1
Anthracene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:29	1
Benzo[a]anthracene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:29	1
Benzo[a]pyrene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:29	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:29	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:29	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:29	1
Chrysene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:29	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:29	1
Fluoranthene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:29	1
Fluorene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:29	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:29	1
Naphthalene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:29	1
Phenanthrene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:29	1
Pyrene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*33 - 120*	*12/27/12 11:19*	*12/27/12 21:29*	*1*
Terphenyl-d14	*68*		*35 - 146*	*12/27/12 11:19*	*12/27/12 21:29*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:01	1
Dieldrin	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:01	1
Endrin aldehyde	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:01	1
Endrin	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:01	1
Endrin ketone	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:01	1
Heptachlor	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:01	1
Heptachlor epoxide	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:01	1
4,4'-DDT	**4.0**	**p**	2.0		ug/Kg		12/24/12 13:44	12/26/12 21:01	1
4,4'-DDE	**13**		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:01	1
4,4'-DDD	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:01	1
Endosulfan I	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:01	1
Endosulfan II	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:01	1
alpha-BHC	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:01	1
beta-BHC	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:01	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:01	1
delta-BHC	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:01	1
Endosulfan sulfate	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:01	1
Methoxychlor	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:01	1
Toxaphene	ND		40		ug/Kg		12/24/12 13:44	12/26/12 21:01	1
Chlordane (technical)	ND		40		ug/Kg		12/24/12 13:44	12/26/12 21:01	1
alpha-Chlordane	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:01	1
gamma-Chlordane	ND		2.0		ug/Kg		12/24/12 13:44	12/26/12 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*57 - 122*	*12/24/12 13:44*	*12/26/12 21:01*	*1*
DCB Decachlorobiphenyl	*97*	*p*	*21 - 136*	*12/24/12 13:44*	*12/26/12 21:01*	*1*

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-1 (3-3 1/2)
Date Collected: 12/21/12 08:30
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-4
Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		12/24/12 13:33	12/28/12 07:27	1
PCB-1221	ND		50		ug/Kg		12/24/12 13:33	12/28/12 07:27	1
PCB-1232	ND		50		ug/Kg		12/24/12 13:33	12/28/12 07:27	1
PCB-1242	ND		50		ug/Kg		12/24/12 13:33	12/28/12 07:27	1
PCB-1248	ND		50		ug/Kg		12/24/12 13:33	12/28/12 07:27	1
PCB-1254	ND		50		ug/Kg		12/24/12 13:33	12/28/12 07:27	1
PCB-1260	ND		50		ug/Kg		12/24/12 13:33	12/28/12 07:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*32 - 112*	*12/24/12 13:33*	*12/28/12 07:27*	*1*
DCB Decachlorobiphenyl	*93*		*2 - 122*	*12/24/12 13:33*	*12/28/12 07:27*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**11**		2.0		mg/Kg		12/26/12 21:36	12/27/12 19:41	4
Arsenic	**8.2**		3.9		mg/Kg		12/26/12 21:36	12/27/12 19:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.072**		0.0090		mg/Kg		12/24/12 18:08	12/27/12 14:58	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-1 (4 1/2-5)
Date Collected: 12/21/12 08:35
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-5
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Acetone	ND		43		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Benzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Dichlorobromomethane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Bromobenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Chlorobromomethane	ND		17		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Bromoform	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Bromomethane	ND		8.5		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
2-Butanone (MEK)	ND		43		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
n-Butylbenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
sec-Butylbenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
tert-Butylbenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Carbon disulfide	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Carbon tetrachloride	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Chlorobenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Chloroethane	ND		8.5		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Chloroform	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Chloromethane	ND		8.5		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
2-Chlorotoluene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
4-Chlorotoluene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Chlorodibromomethane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
1,2-Dichlorobenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
1,3-Dichlorobenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
1,4-Dichlorobenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
1,3-Dichloropropane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
1,1-Dichloropropene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
1,2-Dibromo-3-Chloropropane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Ethylene Dibromide	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Dibromomethane	ND		8.5		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Dichlorodifluoromethane	ND		8.5		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
1,1-Dichloroethane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
1,2-Dichloroethane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
1,1-Dichloroethene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
cis-1,2-Dichloroethene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
trans-1,2-Dichloroethene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
1,2-Dichloropropane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
cis-1,3-Dichloropropene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
trans-1,3-Dichloropropene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Ethylbenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Hexachlorobutadiene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
2-Hexanone	ND		43		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Isopropylbenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
4-Isopropyltoluene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Methylene Chloride	ND		8.5		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
4-Methyl-2-pentanone (MIBK)	ND		43		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Naphthalene	ND		8.5		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
N-Propylbenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Styrene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
1,1,1,2-Tetrachloroethane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-1 (4 1/2-5)
Date Collected: 12/21/12 08:35
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-5
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Tetrachloroethene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Toluene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
1,2,3-Trichlorobenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
1,2,4-Trichlorobenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
1,1,1-Trichloroethane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
1,1,2-Trichloroethane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Trichloroethene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Trichlorofluoromethane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
1,2,3-Trichloropropane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
1,2,4-Trimethylbenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
1,3,5-Trimethylbenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Vinyl acetate	ND		43		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Vinyl chloride	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Xylenes, Total	ND		8.5		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
2,2-Dichloropropane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 15:58	1
Gasoline Range Organics (GRO) -C5-C12	ND		210		ug/Kg		12/22/12 14:33	12/22/12 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*78*		*45 - 131*	*12/22/12 14:33*	*12/22/12 15:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*	*12/22/12 14:33*	*12/22/12 15:58*	*1*
Toluene-d8 (Surr)	*92*		*58 - 140*	*12/22/12 14:33*	*12/22/12 15:58*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Bis(2-chloroethyl)ether	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
2-Chlorophenol	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
1,3-Dichlorobenzene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
1,4-Dichlorobenzene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Benzyl alcohol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
1,2-Dichlorobenzene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
2-Methylphenol	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Methylphenol, 3 & 4	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
N-Nitrosodi-n-propylamine	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Hexachloroethane	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Nitrobenzene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Isophorone	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
2-Nitrophenol	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
2,4-Dimethylphenol	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
1,2,4-Trichlorobenzene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Naphthalene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
4-Chloroaniline	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Hexachlorobutadiene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
2-Methylnaphthalene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-1 (4 1/2-5)
Date Collected: 12/21/12 08:35
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-5
Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
2,4,6-Trichlorophenol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
2,4,5-Trichlorophenol	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
2-Chloronaphthalene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
2-Nitroaniline	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Dimethyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Acenaphthylene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
3-Nitroaniline	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Acenaphthene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
2,4-Dinitrophenol	ND		0.65		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
4-Nitrophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Dibenzofuran	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
2,4-Dinitrotoluene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
2,6-Dinitrotoluene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Diethyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Fluorene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
4-Nitroaniline	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
2-Methyl-4,6-dinitrophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
N-Nitrosodiphenylamine	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Hexachlorobenzene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Pentachlorophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Phenanthrene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Anthracene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Di-n-butyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Fluoranthene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Pyrene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
3,3'-Dichlorobenzidine	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Benzo[a]anthracene	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Chrysene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Benzo[b]fluoranthene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Benzo[a]pyrene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Benzo[k]fluoranthene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Indeno[1,2,3-cd]pyrene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Benzo[g,h,i]perylene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Benzoic acid	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Azobenzene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1
Dibenz(a,h)anthracene	ND		0.066		mg/Kg		12/22/12 10:49	12/26/12 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*66*		*21 - 98*	*12/22/12 10:49*	*12/26/12 18:21*	*1*
2-Fluorobiphenyl	*70*		*30 - 112*	*12/22/12 10:49*	*12/26/12 18:21*	*1*
Terphenyl-d14	*71*		*32 - 117*	*12/22/12 10:49*	*12/26/12 18:21*	*1*
2-Fluorophenol	*60*		*28 - 98*	*12/22/12 10:49*	*12/26/12 18:21*	*1*
Phenol-d5	*64*		*23 - 101*	*12/22/12 10:49*	*12/26/12 18:21*	*1*
2,4,6-Tribromophenol	*73*		*37 - 114*	*12/22/12 10:49*	*12/26/12 18:21*	*1*

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-1 (4 1/2-5)
Date Collected: 12/21/12 08:35
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-5
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.1		1.0		mg/Kg		12/26/12 14:19	12/26/12 20:55	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/26/12 14:19	12/26/12 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.04*		*0 - 1*	*12/26/12 14:19*	*12/26/12 20:55*	*1*
p-Terphenyl	*93*		*38 - 148*	*12/26/12 14:19*	*12/26/12 20:55*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 23:48	1
Dieldrin	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 23:48	1
Endrin aldehyde	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 23:48	1
Endrin	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 23:48	1
Endrin ketone	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 23:48	1
Heptachlor	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 23:48	1
Heptachlor epoxide	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 23:48	1
4,4'-DDT	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 23:48	1
4,4'-DDE	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 23:48	1
4,4'-DDD	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 23:48	1
Endosulfan I	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 23:48	1
Endosulfan II	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 23:48	1
alpha-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 23:48	1
beta-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 23:48	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 23:48	1
delta-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 23:48	1
Endosulfan sulfate	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 23:48	1
Methoxychlor	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 23:48	1
Toxaphene	ND		39		ug/Kg		12/27/12 14:17	12/27/12 23:48	1
Chlordane (technical)	ND		39		ug/Kg		12/27/12 14:17	12/27/12 23:48	1
alpha-Chlordane	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 23:48	1
gamma-Chlordane	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*57 - 122*	*12/27/12 14:17*	*12/27/12 23:48*	*1*
DCB Decachlorobiphenyl	*103*		*21 - 136*	*12/27/12 14:17*	*12/27/12 23:48*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		12/27/12 14:25	12/30/12 17:42	1
PCB-1221	ND		49		ug/Kg		12/27/12 14:25	12/30/12 17:42	1
PCB-1232	ND		49		ug/Kg		12/27/12 14:25	12/30/12 17:42	1
PCB-1242	ND		49		ug/Kg		12/27/12 14:25	12/30/12 17:42	1
PCB-1248	ND		49		ug/Kg		12/27/12 14:25	12/30/12 17:42	1
PCB-1254	ND		49		ug/Kg		12/27/12 14:25	12/30/12 17:42	1
PCB-1260	ND		49		ug/Kg		12/27/12 14:25	12/30/12 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*117*	*X*	*32 - 112*	*12/27/12 14:25*	*12/30/12 17:42*	*1*
DCB Decachlorobiphenyl	*119*		*2 - 122*	*12/27/12 14:25*	*12/30/12 17:42*	*1*

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-1 (4 1/2-5)
Date Collected: 12/21/12 08:35
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-5
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:45	4
Arsenic	**7.9**		3.8		mg/Kg		12/26/12 21:36	12/27/12 19:45	4
Barium	**250**		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:45	4
Beryllium	**0.69**		0.38		mg/Kg		12/26/12 21:36	12/27/12 19:45	4
Cadmium	ND		0.48		mg/Kg		12/26/12 21:36	12/27/12 19:45	4
Chromium	**67**		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:45	4
Cobalt	**17**		0.76		mg/Kg		12/26/12 21:36	12/27/12 19:45	4
Copper	**42**		5.7		mg/Kg		12/26/12 21:36	12/27/12 19:45	4
Lead	**11**		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:45	4
Molybdenum	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:45	4
Nickel	**96**		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:45	4
Selenium	ND		3.8		mg/Kg		12/26/12 21:36	12/27/12 19:45	4
Silver	ND		0.95		mg/Kg		12/26/12 21:36	12/27/12 19:45	4
Thallium	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:45	4
Vanadium	**49**		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:45	4
Zinc	**77**		5.7		mg/Kg		12/26/12 21:36	12/27/12 19:45	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.048**		0.0088		mg/Kg		12/24/12 18:08	12/27/12 15:01	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-5 (1 1/2-2)
Date Collected: 12/21/12 09:35
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-8
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Acetone	ND		41		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Benzene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Dichlorobromomethane	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Bromobenzene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Chlorobromomethane	ND		17		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Bromoform	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Bromomethane	ND		8.3		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
2-Butanone (MEK)	ND		41		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
n-Butylbenzene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
sec-Butylbenzene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
tert-Butylbenzene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Carbon disulfide	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Carbon tetrachloride	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Chlorobenzene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Chloroethane	ND		8.3		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Chloroform	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Chloromethane	ND		8.3		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
2-Chlorotoluene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
4-Chlorotoluene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Chlorodibromomethane	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
1,2-Dichlorobenzene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
1,3-Dichlorobenzene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
1,4-Dichlorobenzene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
1,3-Dichloropropane	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
1,1-Dichloropropene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
1,2-Dibromo-3-Chloropropane	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Ethylene Dibromide	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Dibromomethane	ND		8.3		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Dichlorodifluoromethane	ND		8.3		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
1,1-Dichloroethane	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
1,2-Dichloroethane	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
1,1-Dichloroethene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
cis-1,2-Dichloroethene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
trans-1,2-Dichloroethene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
1,2-Dichloropropane	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
cis-1,3-Dichloropropene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
trans-1,3-Dichloropropene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Ethylbenzene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Hexachlorobutadiene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
2-Hexanone	ND		41		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Isopropylbenzene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
4-Isopropyltoluene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Methylene Chloride	ND		8.3		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
4-Methyl-2-pentanone (MIBK)	ND		41		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Naphthalene	ND		8.3		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
N-Propylbenzene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Styrene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
1,1,1,2-Tetrachloroethane	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1

Client Sample ID: SB-5 (1 1/2-2)
Date Collected: 12/21/12 09:35
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-8
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Tetrachloroethene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Toluene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
1,2,3-Trichlorobenzene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
1,2,4-Trichlorobenzene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
1,1,1-Trichloroethane	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
1,1,2-Trichloroethane	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Trichloroethene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Trichlorofluoromethane	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
1,2,3-Trichloropropane	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
1,2,4-Trimethylbenzene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
1,3,5-Trimethylbenzene	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Vinyl acetate	ND		41		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Vinyl chloride	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Xylenes, Total	ND		8.3		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
2,2-Dichloropropane	ND		4.1		ug/Kg		12/22/12 14:33	12/22/12 16:27	1
Gasoline Range Organics (GRO) -C5-C12	ND		210		ug/Kg		12/22/12 14:33	12/22/12 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*75*		*45 - 131*	*12/22/12 14:33*	*12/22/12 16:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*60 - 140*	*12/22/12 14:33*	*12/22/12 16:27*	*1*
Toluene-d8 (Surr)	*95*		*58 - 140*	*12/22/12 14:33*	*12/22/12 16:27*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Bis(2-chloroethyl)ether	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
2-Chlorophenol	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
1,3-Dichlorobenzene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
1,4-Dichlorobenzene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Benzyl alcohol	ND		0.34		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
1,2-Dichlorobenzene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
2-Methylphenol	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Methylphenol, 3 & 4	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
N-Nitrosodi-n-propylamine	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Hexachloroethane	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Nitrobenzene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Isophorone	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
2-Nitrophenol	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
2,4-Dimethylphenol	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Bis(2-chloroethoxy)methane	ND		0.34		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
2,4-Dichlorophenol	ND		0.65		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
1,2,4-Trichlorobenzene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Naphthalene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
4-Chloroaniline	ND		0.34		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Hexachlorobutadiene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
4-Chloro-3-methylphenol	ND		0.34		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
2-Methylnaphthalene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-5 (1 1/2-2)
Date Collected: 12/21/12 09:35
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-8
Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.34		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
2,4,6-Trichlorophenol	ND		0.34		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
2,4,5-Trichlorophenol	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
2-Chloronaphthalene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
2-Nitroaniline	ND		0.65		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Dimethyl phthalate	ND		0.34		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Acenaphthylene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
3-Nitroaniline	ND		0.34		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Acenaphthene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
2,4-Dinitrophenol	ND		1.3		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
4-Nitrophenol	ND		0.65		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Dibenzofuran	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
2,4-Dinitrotoluene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
2,6-Dinitrotoluene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Diethyl phthalate	ND		0.34		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
4-Chlorophenyl phenyl ether	ND		0.34		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Fluorene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
4-Nitroaniline	ND		0.65		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
2-Methyl-4,6-dinitrophenol	ND		0.65		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
N-Nitrosodiphenylamine	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
4-Bromophenyl phenyl ether	ND		0.34		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Hexachlorobenzene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Pentachlorophenol	ND		0.65		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Phenanthrene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Anthracene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Di-n-butyl phthalate	ND		0.34		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Fluoranthene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Pyrene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Butyl benzyl phthalate	ND		0.34		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
3,3'-Dichlorobenzidine	ND		0.34		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Benzo[a]anthracene	ND		0.65		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Bis(2-ethylhexyl) phthalate	ND		0.65		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Chrysene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Di-n-octyl phthalate	ND		0.34		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Benzo[b]fluoranthene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Benzo[a]pyrene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Benzo[k]fluoranthene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Indeno[1,2,3-cd]pyrene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Benzo[g,h,i]perylene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Benzoic acid	ND		0.65		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Azobenzene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2
Dibenz(a,h)anthracene	ND		0.13		mg/Kg		12/22/12 10:49	12/26/12 22:20	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*78*		*21 - 98*	*12/22/12 10:49*	*12/26/12 22:20*	*2*
2-Fluorobiphenyl	*90*		*30 - 112*	*12/22/12 10:49*	*12/26/12 22:20*	*2*
Terphenyl-d14	*92*		*32 - 117*	*12/22/12 10:49*	*12/26/12 22:20*	*2*
2-Fluorophenol	*75*		*28 - 98*	*12/22/12 10:49*	*12/26/12 22:20*	*2*
Phenol-d5	*78*		*23 - 101*	*12/22/12 10:49*	*12/26/12 22:20*	*2*
2,4,6-Tribromophenol	*92*		*37 - 114*	*12/22/12 10:49*	*12/26/12 22:20*	*2*

Client Sample ID: SB-5 (1 1/2-2)
Date Collected: 12/21/12 09:35
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-8
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**10**		0.99		mg/Kg		12/26/12 14:19	12/26/12 22:32	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/26/12 14:19	12/26/12 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.04*		*0 - 1*	*12/26/12 14:19*	*12/26/12 22:32*	*1*
p-Terphenyl	*86*		*38 - 148*	*12/26/12 14:19*	*12/26/12 22:32*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:05	1
Dieldrin	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:05	1
Endrin aldehyde	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:05	1
Endrin	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:05	1
Endrin ketone	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:05	1
Heptachlor	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:05	1
Heptachlor epoxide	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:05	1
4,4'-DDT	**27**		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:05	1
4,4'-DDE	**220**		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:05	1
4,4'-DDD	**34**		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:05	1
Endosulfan I	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:05	1
Endosulfan II	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:05	1
alpha-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:05	1
beta-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:05	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:05	1
delta-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:05	1
Endosulfan sulfate	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:05	1
Methoxychlor	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:05	1
Toxaphene	ND		40		ug/Kg		12/27/12 14:17	12/28/12 00:05	1
Chlordane (technical)	ND		40		ug/Kg		12/27/12 14:17	12/28/12 00:05	1
alpha-Chlordane	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:05	1
gamma-Chlordane	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*57 - 122*	*12/27/12 14:17*	*12/28/12 00:05*	*1*
DCB Decachlorobiphenyl	*101*		*21 - 136*	*12/27/12 14:17*	*12/28/12 00:05*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		12/27/12 14:25	12/30/12 18:00	1
PCB-1221	ND		50		ug/Kg		12/27/12 14:25	12/30/12 18:00	1
PCB-1232	ND		50		ug/Kg		12/27/12 14:25	12/30/12 18:00	1
PCB-1242	ND		50		ug/Kg		12/27/12 14:25	12/30/12 18:00	1
PCB-1248	ND		50		ug/Kg		12/27/12 14:25	12/30/12 18:00	1
PCB-1254	ND		50		ug/Kg		12/27/12 14:25	12/30/12 18:00	1
PCB-1260	ND		50		ug/Kg		12/27/12 14:25	12/30/12 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*134*	*X*	*32 - 112*	*12/27/12 14:25*	*12/30/12 18:00*	*1*
DCB Decachlorobiphenyl	*147*	*X*	*2 - 122*	*12/27/12 14:25*	*12/30/12 18:00*	*1*

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-5 (1 1/2-2)
Date Collected: 12/21/12 09:35
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-8
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:50	4
Arsenic	**8.8**		3.8		mg/Kg		12/26/12 21:36	12/27/12 19:50	4
Barium	**210**		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:50	4
Beryllium	ND		0.38		mg/Kg		12/26/12 21:36	12/27/12 19:50	4
Cadmium	ND		0.47		mg/Kg		12/26/12 21:36	12/27/12 19:50	4
Chromium	**110**		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:50	4
Cobalt	**20**		0.75		mg/Kg		12/26/12 21:36	12/27/12 19:50	4
Copper	**48**		5.7		mg/Kg		12/26/12 21:36	12/27/12 19:50	4
Lead	**20**		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:50	4
Molybdenum	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:50	4
Nickel	**160**		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:50	4
Selenium	ND		3.8		mg/Kg		12/26/12 21:36	12/27/12 19:50	4
Silver	ND		0.94		mg/Kg		12/26/12 21:36	12/27/12 19:50	4
Thallium	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:50	4
Vanadium	**57**		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:50	4
Zinc	**72**		5.7		mg/Kg		12/26/12 21:36	12/27/12 19:50	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.56**		0.0097		mg/Kg		12/24/12 18:08	12/27/12 15:03	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-5 (2 1/2-3)

Date Collected: 12/21/12 09:45
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-9
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4.9		ug/Kg		12/27/12 11:19	12/27/12 21:52	1
Acenaphthylene	ND		4.9		ug/Kg		12/27/12 11:19	12/27/12 21:52	1
Anthracene	ND		4.9		ug/Kg		12/27/12 11:19	12/27/12 21:52	1
Benzo[a]anthracene	ND		4.9		ug/Kg		12/27/12 11:19	12/27/12 21:52	1
Benzo[a]pyrene	ND		4.9		ug/Kg		12/27/12 11:19	12/27/12 21:52	1
Benzo[b]fluoranthene	ND		4.9		ug/Kg		12/27/12 11:19	12/27/12 21:52	1
Benzo[g,h,i]perylene	ND		4.9		ug/Kg		12/27/12 11:19	12/27/12 21:52	1
Benzo[k]fluoranthene	ND		4.9		ug/Kg		12/27/12 11:19	12/27/12 21:52	1
Chrysene	ND		4.9		ug/Kg		12/27/12 11:19	12/27/12 21:52	1
Dibenz(a,h)anthracene	ND		4.9		ug/Kg		12/27/12 11:19	12/27/12 21:52	1
Fluoranthene	ND		4.9		ug/Kg		12/27/12 11:19	12/27/12 21:52	1
Fluorene	ND		4.9		ug/Kg		12/27/12 11:19	12/27/12 21:52	1
Indeno[1,2,3-cd]pyrene	ND		4.9		ug/Kg		12/27/12 11:19	12/27/12 21:52	1
Naphthalene	ND		4.9		ug/Kg		12/27/12 11:19	12/27/12 21:52	1
Phenanthrene	**6.8**		4.9		ug/Kg		12/27/12 11:19	12/27/12 21:52	1
Pyrene	ND		4.9		ug/Kg		12/27/12 11:19	12/27/12 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*33 - 120*	*12/27/12 11:19*	*12/27/12 21:52*	*1*
Terphenyl-d14	*74*		*35 - 146*	*12/27/12 11:19*	*12/27/12 21:52*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:21	1
Dieldrin	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:21	1
Endrin aldehyde	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:21	1
Endrin	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:21	1
Endrin ketone	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:21	1
Heptachlor	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:21	1
Heptachlor epoxide	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:21	1
4,4'-DDT	**15**		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:21	1
4,4'-DDE	**120**		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:21	1
4,4'-DDD	**14**		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:21	1
Endosulfan I	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:21	1
Endosulfan II	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:21	1
alpha-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:21	1
beta-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:21	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:21	1
delta-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:21	1
Endosulfan sulfate	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:21	1
Methoxychlor	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:21	1
Toxaphene	ND		40		ug/Kg		12/27/12 14:17	12/28/12 00:21	1
Chlordane (technical)	ND		40		ug/Kg		12/27/12 14:17	12/28/12 00:21	1
alpha-Chlordane	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:21	1
gamma-Chlordane	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*57 - 122*	*12/27/12 14:17*	*12/28/12 00:21*	*1*
DCB Decachlorobiphenyl	*115*		*21 - 136*	*12/27/12 14:17*	*12/28/12 00:21*	*1*

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-5 (2 1/2-3)
Date Collected: 12/21/12 09:45
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-9
Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		12/27/12 14:25	12/30/12 18:18	1
PCB-1221	ND		50		ug/Kg		12/27/12 14:25	12/30/12 18:18	1
PCB-1232	ND		50		ug/Kg		12/27/12 14:25	12/30/12 18:18	1
PCB-1242	ND		50		ug/Kg		12/27/12 14:25	12/30/12 18:18	1
PCB-1248	ND		50		ug/Kg		12/27/12 14:25	12/30/12 18:18	1
PCB-1254	ND		50		ug/Kg		12/27/12 14:25	12/30/12 18:18	1
PCB-1260	ND		50		ug/Kg		12/27/12 14:25	12/30/12 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*139*	*X*	*32 - 112*	*12/27/12 14:25*	*12/30/12 18:18*	*1*
DCB Decachlorobiphenyl	*150*	*X*	*2 - 122*	*12/27/12 14:25*	*12/30/12 18:18*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**21**		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:54	4
Arsenic	**15**		3.8		mg/Kg		12/26/12 21:36	12/27/12 19:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.10**		0.0095		mg/Kg		12/24/12 18:08	12/27/12 15:06	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-6 (1-1 1/2)
Date Collected: 12/21/12 10:15
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-10
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Acetone	ND		43		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Benzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Dichlorobromomethane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Bromobenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Chlorobromomethane	ND		17		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Bromoform	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Bromomethane	ND		8.6		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
2-Butanone (MEK)	ND		43		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
n-Butylbenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
sec-Butylbenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
tert-Butylbenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Carbon disulfide	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Carbon tetrachloride	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Chlorobenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Chloroethane	ND		8.6		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Chloroform	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Chloromethane	ND		8.6		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
2-Chlorotoluene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
4-Chlorotoluene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Chlorodibromomethane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
1,2-Dichlorobenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
1,3-Dichlorobenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
1,4-Dichlorobenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
1,3-Dichloropropane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
1,1-Dichloropropene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
1,2-Dibromo-3-Chloropropane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Ethylene Dibromide	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Dibromomethane	ND		8.6		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Dichlorodifluoromethane	ND		8.6		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
1,1-Dichloroethane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
1,2-Dichloroethane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
1,1-Dichloroethene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
cis-1,2-Dichloroethene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
trans-1,2-Dichloroethene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
1,2-Dichloropropane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
cis-1,3-Dichloropropene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
trans-1,3-Dichloropropene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Ethylbenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Hexachlorobutadiene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
2-Hexanone	ND		43		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Isopropylbenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
4-Isopropyltoluene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Methylene Chloride	ND		8.6		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
4-Methyl-2-pentanone (MIBK)	ND		43		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Naphthalene	ND		8.6		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
N-Propylbenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Styrene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
1,1,1,2-Tetrachloroethane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1

Client Sample ID: SB-6 (1-1 1/2)
Date Collected: 12/21/12 10:15
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-10
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Tetrachloroethene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Toluene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
1,2,3-Trichlorobenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
1,2,4-Trichlorobenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
1,1,1-Trichloroethane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
1,1,2-Trichloroethane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Trichloroethene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Trichlorofluoromethane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
1,2,3-Trichloropropane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
1,2,4-Trimethylbenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
1,3,5-Trimethylbenzene	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Vinyl acetate	ND		43		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Vinyl chloride	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Xylenes, Total	ND		8.6		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
2,2-Dichloropropane	ND		4.3		ug/Kg		12/22/12 14:33	12/22/12 16:57	1
Gasoline Range Organics (GRO) -C5-C12	ND		220		ug/Kg		12/22/12 14:33	12/22/12 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*74*		*45 - 131*	*12/22/12 14:33*	*12/22/12 16:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 140*	*12/22/12 14:33*	*12/22/12 16:57*	*1*
Toluene-d8 (Surr)	*93*		*58 - 140*	*12/22/12 14:33*	*12/22/12 16:57*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		12/26/12 14:19	12/26/12 21:20	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/26/12 14:19	12/26/12 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*12/26/12 14:19*	*12/26/12 21:20*	*1*
p-Terphenyl	*79*		*38 - 148*	*12/26/12 14:19*	*12/26/12 21:20*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:38	1
Dieldrin	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:38	1
Endrin aldehyde	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:38	1
Endrin	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:38	1
Endrin ketone	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:38	1
Heptachlor	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:38	1
Heptachlor epoxide	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:38	1
4,4'-DDT	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:38	1
4,4'-DDE	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:38	1
4,4'-DDD	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:38	1
Endosulfan I	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:38	1
Endosulfan II	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:38	1
alpha-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:38	1
beta-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:38	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:38	1

Client Sample ID: SB-6 (1-1 1/2)
Date Collected: 12/21/12 10:15
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-10
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:38	1
Endosulfan sulfate	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:38	1
Methoxychlor	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:38	1
Toxaphene	ND		40		ug/Kg		12/27/12 14:17	12/28/12 00:38	1
Chlordane (technical)	ND		40		ug/Kg		12/27/12 14:17	12/28/12 00:38	1
alpha-Chlordane	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:38	1
gamma-Chlordane	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*57 - 122*	*12/27/12 14:17*	*12/28/12 00:38*	*1*
DCB Decachlorobiphenyl	*91*		*21 - 136*	*12/27/12 14:17*	*12/28/12 00:38*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		12/27/12 14:25	12/30/12 18:36	1
PCB-1221	ND		50		ug/Kg		12/27/12 14:25	12/30/12 18:36	1
PCB-1232	ND		50		ug/Kg		12/27/12 14:25	12/30/12 18:36	1
PCB-1242	ND		50		ug/Kg		12/27/12 14:25	12/30/12 18:36	1
PCB-1248	ND		50		ug/Kg		12/27/12 14:25	12/30/12 18:36	1
PCB-1254	ND		50		ug/Kg		12/27/12 14:25	12/30/12 18:36	1
PCB-1260	ND		50		ug/Kg		12/27/12 14:25	12/30/12 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*134*	*X*	*32 - 112*	*12/27/12 14:25*	*12/30/12 18:36*	*1*
DCB Decachlorobiphenyl	*144*	*X*	*2 - 122*	*12/27/12 14:25*	*12/30/12 18:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:59	4
Arsenic	**6.9**		3.8		mg/Kg		12/26/12 21:36	12/27/12 19:59	4
Barium	**350**		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:59	4
Beryllium	**0.79**		0.38		mg/Kg		12/26/12 21:36	12/27/12 19:59	4
Cadmium	ND		0.48		mg/Kg		12/26/12 21:36	12/27/12 19:59	4
Chromium	**76**		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:59	4
Cobalt	**16**		0.77		mg/Kg		12/26/12 21:36	12/27/12 19:59	4
Copper	**44**		5.8		mg/Kg		12/26/12 21:36	12/27/12 19:59	4
Lead	**11**		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:59	4
Molybdenum	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:59	4
Nickel	**96**		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:59	4
Selenium	ND		3.8		mg/Kg		12/26/12 21:36	12/27/12 19:59	4
Silver	ND		0.96		mg/Kg		12/26/12 21:36	12/27/12 19:59	4
Thallium	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:59	4
Vanadium	**59**		1.9		mg/Kg		12/26/12 21:36	12/27/12 19:59	4
Zinc	**74**		5.8		mg/Kg		12/26/12 21:36	12/27/12 19:59	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.058**		0.0092		mg/Kg		12/24/12 18:08	12/27/12 15:10	1

Client Sample ID: SB-6 (2 1/2-3)
Date Collected: 12/21/12 10:20
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-11
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.9		ug/Kg		12/27/12 14:17	12/28/12 00:54	1
Dieldrin	ND		1.9		ug/Kg		12/27/12 14:17	12/28/12 00:54	1
Endrin aldehyde	ND		1.9		ug/Kg		12/27/12 14:17	12/28/12 00:54	1
Endrin	ND		1.9		ug/Kg		12/27/12 14:17	12/28/12 00:54	1
Endrin ketone	ND		1.9		ug/Kg		12/27/12 14:17	12/28/12 00:54	1
Heptachlor	ND		1.9		ug/Kg		12/27/12 14:17	12/28/12 00:54	1
Heptachlor epoxide	ND		1.9		ug/Kg		12/27/12 14:17	12/28/12 00:54	1
4,4'-DDT	**100**		1.9		ug/Kg		12/27/12 14:17	12/28/12 00:54	1
4,4'-DDE	**310**		1.9		ug/Kg		12/27/12 14:17	12/28/12 00:54	1
4,4'-DDD	**13**		1.9		ug/Kg		12/27/12 14:17	12/28/12 00:54	1
Endosulfan I	ND		1.9		ug/Kg		12/27/12 14:17	12/28/12 00:54	1
Endosulfan II	ND		1.9		ug/Kg		12/27/12 14:17	12/28/12 00:54	1
alpha-BHC	ND		1.9		ug/Kg		12/27/12 14:17	12/28/12 00:54	1
beta-BHC	ND		1.9		ug/Kg		12/27/12 14:17	12/28/12 00:54	1
gamma-BHC (Lindane)	ND		1.9		ug/Kg		12/27/12 14:17	12/28/12 00:54	1
delta-BHC	ND		1.9		ug/Kg		12/27/12 14:17	12/28/12 00:54	1
Endosulfan sulfate	ND		1.9		ug/Kg		12/27/12 14:17	12/28/12 00:54	1
Methoxychlor	ND		1.9		ug/Kg		12/27/12 14:17	12/28/12 00:54	1
Toxaphene	ND		39		ug/Kg		12/27/12 14:17	12/28/12 00:54	1
Chlordane (technical)	ND		39		ug/Kg		12/27/12 14:17	12/28/12 00:54	1
alpha-Chlordane	ND		1.9		ug/Kg		12/27/12 14:17	12/28/12 00:54	1
gamma-Chlordane	ND		1.9		ug/Kg		12/27/12 14:17	12/28/12 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*57 - 122*	*12/27/12 14:17*	*12/28/12 00:54*	*1*
DCB Decachlorobiphenyl	*104*		*21 - 136*	*12/27/12 14:17*	*12/28/12 00:54*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		12/27/12 14:25	12/30/12 18:54	1
PCB-1221	ND		49		ug/Kg		12/27/12 14:25	12/30/12 18:54	1
PCB-1232	ND		49		ug/Kg		12/27/12 14:25	12/30/12 18:54	1
PCB-1242	ND		49		ug/Kg		12/27/12 14:25	12/30/12 18:54	1
PCB-1248	ND		49		ug/Kg		12/27/12 14:25	12/30/12 18:54	1
PCB-1254	ND		49		ug/Kg		12/27/12 14:25	12/30/12 18:54	1
PCB-1260	ND		49		ug/Kg		12/27/12 14:25	12/30/12 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*140*	*X*	*32 - 112*	*12/27/12 14:25*	*12/30/12 18:54*	*1*
DCB Decachlorobiphenyl	*151*	*X*	*2 - 122*	*12/27/12 14:25*	*12/30/12 18:54*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**13**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:03	4
Arsenic	**8.7**		3.8		mg/Kg		12/26/12 21:36	12/27/12 20:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.4**		0.0088		mg/Kg		12/24/12 18:08	12/27/12 15:12	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-9 (1-1 1/2)
Date Collected: 12/21/12 10:45
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-12
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Acetone	ND		48		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Benzene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Dichlorobromomethane	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Bromobenzene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Chlorobromomethane	ND		19		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Bromoform	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Bromomethane	ND		9.5		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
2-Butanone (MEK)	ND		48		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
n-Butylbenzene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
sec-Butylbenzene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
tert-Butylbenzene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Carbon disulfide	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Carbon tetrachloride	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Chlorobenzene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Chloroethane	ND		9.5		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Chloroform	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Chloromethane	ND		9.5		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
2-Chlorotoluene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
4-Chlorotoluene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Chlorodibromomethane	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
1,3-Dichloropropane	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
1,1-Dichloropropene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Ethylene Dibromide	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Dibromomethane	ND		9.5		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Dichlorodifluoromethane	ND		9.5		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
1,1-Dichloroethane	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
1,2-Dichloroethane	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
1,1-Dichloroethene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
1,2-Dichloropropane	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Ethylbenzene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Hexachlorobutadiene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
2-Hexanone	ND		48		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Isopropylbenzene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
4-Isopropyltoluene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Methylene Chloride	ND		9.5		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Naphthalene	ND		9.5		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
N-Propylbenzene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Styrene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1

Client Sample ID: SB-9 (1-1 1/2)
Date Collected: 12/21/12 10:45
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-12
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Tetrachloroethene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Toluene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Trichloroethene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Trichlorofluoromethane	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Vinyl acetate	ND		48		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Vinyl chloride	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Xylenes, Total	ND		9.5		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
2,2-Dichloropropane	ND		4.8		ug/Kg		12/22/12 14:33	12/22/12 17:26	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		12/22/12 14:33	12/22/12 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*72*		*45 - 131*	*12/22/12 14:33*	*12/22/12 17:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 140*	*12/22/12 14:33*	*12/22/12 17:26*	*1*
Toluene-d8 (Surr)	*92*		*58 - 140*	*12/22/12 14:33*	*12/22/12 17:26*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Bis(2-chloroethyl)ether	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
2-Chlorophenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
1,3-Dichlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
1,4-Dichlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Benzyl alcohol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
1,2-Dichlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
2-Methylphenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Methylphenol, 3 & 4	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
N-Nitrosodi-n-propylamine	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Hexachloroethane	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Nitrobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Isophorone	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
2-Nitrophenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
2,4-Dimethylphenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
1,2,4-Trichlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Naphthalene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
4-Chloroaniline	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Hexachlorobutadiene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
2-Methylnaphthalene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-9 (1-1 1/2)
Date Collected: 12/21/12 10:45
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-12
Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
2,4,6-Trichlorophenol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
2,4,5-Trichlorophenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
2-Chloronaphthalene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
2-Nitroaniline	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Dimethyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Acenaphthylene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
3-Nitroaniline	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Acenaphthene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
2,4-Dinitrophenol	ND		0.66		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
4-Nitrophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Dibenzofuran	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
2,4-Dinitrotoluene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
2,6-Dinitrotoluene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Diethyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Fluorene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
4-Nitroaniline	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
2-Methyl-4,6-dinitrophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
N-Nitrosodiphenylamine	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Hexachlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Pentachlorophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Phenanthrene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Anthracene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Di-n-butyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Fluoranthene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Pyrene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
3,3'-Dichlorobenzidine	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Benzo[a]anthracene	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Chrysene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Benzo[b]fluoranthene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Benzo[a]pyrene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Benzo[k]fluoranthene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Indeno[1,2,3-cd]pyrene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Benzo[g,h,i]perylene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Benzoic acid	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Azobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1
Dibenz(a,h)anthracene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*66*		*21 - 98*	*12/22/12 10:49*	*12/26/12 21:32*	*1*
2-Fluorobiphenyl	*80*		*30 - 112*	*12/22/12 10:49*	*12/26/12 21:32*	*1*
Terphenyl-d14	*83*		*32 - 117*	*12/22/12 10:49*	*12/26/12 21:32*	*1*
2-Fluorophenol	*67*		*28 - 98*	*12/22/12 10:49*	*12/26/12 21:32*	*1*
Phenol-d5	*73*		*23 - 101*	*12/22/12 10:49*	*12/26/12 21:32*	*1*
2,4,6-Tribromophenol	*89*		*37 - 114*	*12/22/12 10:49*	*12/26/12 21:32*	*1*

Client Sample ID: SB-9 (1-1 1/2)
Date Collected: 12/21/12 10:45
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-12
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.9**		1.0		mg/Kg		12/26/12 14:19	12/26/12 21:44	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/26/12 14:19	12/26/12 21:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*12/26/12 14:19*	*12/26/12 21:44*	*1*
p-Terphenyl	*101*		*38 - 148*	*12/26/12 14:19*	*12/26/12 21:44*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		20		ug/Kg		12/27/12 14:17	12/28/12 22:31	10
Dieldrin	**43**		20		ug/Kg		12/27/12 14:17	12/28/12 22:31	10
Endrin aldehyde	ND		20		ug/Kg		12/27/12 14:17	12/28/12 22:31	10
Endrin	ND		20		ug/Kg		12/27/12 14:17	12/28/12 22:31	10
Endrin ketone	ND		20		ug/Kg		12/27/12 14:17	12/28/12 22:31	10
Heptachlor	ND		20		ug/Kg		12/27/12 14:17	12/28/12 22:31	10
Heptachlor epoxide	ND		20		ug/Kg		12/27/12 14:17	12/28/12 22:31	10
4,4'-DDT	**49**		20		ug/Kg		12/27/12 14:17	12/28/12 22:31	10
4,4'-DDE	**1600**		20		ug/Kg		12/27/12 14:17	12/28/12 22:31	10
4,4'-DDD	**360**		20		ug/Kg		12/27/12 14:17	12/28/12 22:31	10
Endosulfan I	ND		20		ug/Kg		12/27/12 14:17	12/28/12 22:31	10
Endosulfan II	ND		20		ug/Kg		12/27/12 14:17	12/28/12 22:31	10
alpha-BHC	ND		20		ug/Kg		12/27/12 14:17	12/28/12 22:31	10
beta-BHC	ND		20		ug/Kg		12/27/12 14:17	12/28/12 22:31	10
gamma-BHC (Lindane)	ND		20		ug/Kg		12/27/12 14:17	12/28/12 22:31	10
delta-BHC	ND		20		ug/Kg		12/27/12 14:17	12/28/12 22:31	10
Endosulfan sulfate	ND		20		ug/Kg		12/27/12 14:17	12/28/12 22:31	10
Methoxychlor	ND		20		ug/Kg		12/27/12 14:17	12/28/12 22:31	10
Toxaphene	ND		390		ug/Kg		12/27/12 14:17	12/28/12 22:31	10
Chlordane (technical)	ND		390		ug/Kg		12/27/12 14:17	12/28/12 22:31	10
alpha-Chlordane	ND		20		ug/Kg		12/27/12 14:17	12/28/12 22:31	10
gamma-Chlordane	ND		20		ug/Kg		12/27/12 14:17	12/28/12 22:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X D*	*57 - 122*	*12/27/12 14:17*	*12/28/12 22:31*	*10*
DCB Decachlorobiphenyl	*0*	*X D*	*21 - 136*	*12/27/12 14:17*	*12/28/12 22:31*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		12/27/12 14:25	12/30/12 19:13	1
PCB-1221	ND		49		ug/Kg		12/27/12 14:25	12/30/12 19:13	1
PCB-1232	ND		49		ug/Kg		12/27/12 14:25	12/30/12 19:13	1
PCB-1242	ND		49		ug/Kg		12/27/12 14:25	12/30/12 19:13	1
PCB-1248	ND		49		ug/Kg		12/27/12 14:25	12/30/12 19:13	1
PCB-1254	ND		49		ug/Kg		12/27/12 14:25	12/30/12 19:13	1
PCB-1260	ND		49		ug/Kg		12/27/12 14:25	12/30/12 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*143*	*X*	*32 - 112*	*12/27/12 14:25*	*12/30/12 19:13*	*1*
DCB Decachlorobiphenyl	*146*	*X*	*2 - 122*	*12/27/12 14:25*	*12/30/12 19:13*	*1*

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-9 (1-1 1/2)
Date Collected: 12/21/12 10:45
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-12
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:16	4
Arsenic	**24**		3.9		mg/Kg		12/26/12 21:36	12/27/12 20:16	4
Barium	**180**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:16	4
Beryllium	**0.39**		0.39		mg/Kg		12/26/12 21:36	12/27/12 20:16	4
Cadmium	ND		0.49		mg/Kg		12/26/12 21:36	12/27/12 20:16	4
Chromium	**80**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:16	4
Cobalt	**16**		0.78		mg/Kg		12/26/12 21:36	12/27/12 20:16	4
Copper	**60**		5.8		mg/Kg		12/26/12 21:36	12/27/12 20:16	4
Lead	**77**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:16	4
Molybdenum	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:16	4
Nickel	**130**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:16	4
Selenium	ND		3.9		mg/Kg		12/26/12 21:36	12/27/12 20:16	4
Silver	ND		0.97		mg/Kg		12/26/12 21:36	12/27/12 20:16	4
Thallium	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:16	4
Vanadium	**46**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:16	4
Zinc	**81**		5.8		mg/Kg		12/26/12 21:36	12/27/12 20:16	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**7.3**		0.098		mg/Kg		12/24/12 18:08	12/27/12 16:11	10

Client Sample ID: SB-9 (2 1/2-3)

Date Collected: 12/21/12 10:55
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-13

Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 22:15	1
Acenaphthylene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 22:15	1
Anthracene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 22:15	1
Benzo[a]anthracene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 22:15	1
Benzo[a]pyrene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 22:15	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 22:15	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 22:15	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 22:15	1
Chrysene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 22:15	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 22:15	1
Fluoranthene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 22:15	1
Fluorene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 22:15	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 22:15	1
Naphthalene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 22:15	1
Phenanthrene	**7.4**		5.0		ug/Kg		12/27/12 11:19	12/27/12 22:15	1
Pyrene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*54*		*33 - 120*	*12/27/12 11:19*	*12/27/12 22:15*	*1*
Terphenyl-d14	*61*		*35 - 146*	*12/27/12 11:19*	*12/27/12 22:15*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 22:47	1
Dieldrin	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 22:47	1
Endrin aldehyde	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 22:47	1
Endrin	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 22:47	1
Endrin ketone	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 22:47	1
Heptachlor	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 22:47	1
Heptachlor epoxide	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 22:47	1
4,4'-DDT	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 22:47	1
4,4'-DDE	**4.5**		2.0		ug/Kg		12/27/12 14:17	12/28/12 22:47	1
4,4'-DDD	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 22:47	1
Endosulfan I	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 22:47	1
Endosulfan II	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 22:47	1
alpha-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 22:47	1
beta-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 22:47	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 22:47	1
delta-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 22:47	1
Endosulfan sulfate	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 22:47	1
Methoxychlor	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 22:47	1
Toxaphene	ND		39		ug/Kg		12/27/12 14:17	12/28/12 22:47	1
Chlordane (technical)	ND		39		ug/Kg		12/27/12 14:17	12/28/12 22:47	1
alpha-Chlordane	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 22:47	1
gamma-Chlordane	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*57 - 122*	*12/27/12 14:17*	*12/28/12 22:47*	*1*
DCB Decachlorobiphenyl	*121*		*21 - 136*	*12/27/12 14:17*	*12/28/12 22:47*	*1*

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-9 (2 1/2-3)
Date Collected: 12/21/12 10:55
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-13
Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		12/27/12 14:25	12/30/12 19:31	1
PCB-1221	ND		49		ug/Kg		12/27/12 14:25	12/30/12 19:31	1
PCB-1232	ND		49		ug/Kg		12/27/12 14:25	12/30/12 19:31	1
PCB-1242	ND		49		ug/Kg		12/27/12 14:25	12/30/12 19:31	1
PCB-1248	ND		49		ug/Kg		12/27/12 14:25	12/30/12 19:31	1
PCB-1254	ND		49		ug/Kg		12/27/12 14:25	12/30/12 19:31	1
PCB-1260	ND		49		ug/Kg		12/27/12 14:25	12/30/12 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*131*	*X*	*32 - 112*	*12/27/12 14:25*	*12/30/12 19:31*	*1*
DCB Decachlorobiphenyl	*143*	*X*	*2 - 122*	*12/27/12 14:25*	*12/30/12 19:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**10**		2.0		mg/Kg		12/26/12 21:36	12/27/12 20:21	4
Arsenic	**7.1**		4.0		mg/Kg		12/26/12 21:36	12/27/12 20:21	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.048**		0.0091		mg/Kg		12/24/12 18:08	12/27/12 15:18	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-8 (1-1 1/2)
Date Collected: 12/21/12 11:10
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-14
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Acetone	ND		51		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Benzene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Dichlorobromomethane	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Bromobenzene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Chlorobromomethane	ND		20		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Bromoform	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Bromomethane	ND		10		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
2-Butanone (MEK)	ND		51		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
n-Butylbenzene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
sec-Butylbenzene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
tert-Butylbenzene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Carbon disulfide	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Carbon tetrachloride	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Chlorobenzene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Chloroethane	ND		10		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Chloroform	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Chloromethane	ND		10		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
2-Chlorotoluene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
4-Chlorotoluene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Chlorodibromomethane	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
1,2-Dichlorobenzene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
1,3-Dichlorobenzene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
1,4-Dichlorobenzene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
1,3-Dichloropropane	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
1,1-Dichloropropene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
1,2-Dibromo-3-Chloropropane	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Ethylene Dibromide	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Dibromomethane	ND		10		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Dichlorodifluoromethane	ND		10		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
1,1-Dichloroethane	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
1,2-Dichloroethane	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
1,1-Dichloroethene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
cis-1,2-Dichloroethene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
trans-1,2-Dichloroethene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
1,2-Dichloropropane	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
cis-1,3-Dichloropropene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
trans-1,3-Dichloropropene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Ethylbenzene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Hexachlorobutadiene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
2-Hexanone	ND		51		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Isopropylbenzene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
4-Isopropyltoluene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Methylene Chloride	ND		10		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
4-Methyl-2-pentanone (MIBK)	ND		51		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Naphthalene	ND		10		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
N-Propylbenzene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Styrene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
1,1,1,2-Tetrachloroethane	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1

Client Sample ID: SB-8 (1-1 1/2)
Date Collected: 12/21/12 11:10
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-14
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Tetrachloroethene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Toluene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
1,2,3-Trichlorobenzene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
1,2,4-Trichlorobenzene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
1,1,1-Trichloroethane	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
1,1,2-Trichloroethane	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Trichloroethene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Trichlorofluoromethane	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
1,2,3-Trichloropropane	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
1,2,4-Trimethylbenzene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
1,3,5-Trimethylbenzene	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Vinyl acetate	ND		51		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Vinyl chloride	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Xylenes, Total	ND		10		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
2,2-Dichloropropane	ND		5.1		ug/Kg		12/22/12 12:00	12/24/12 11:47	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		12/22/12 12:00	12/24/12 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*81*		*45 - 131*	*12/22/12 12:00*	*12/24/12 11:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*60 - 140*	*12/22/12 12:00*	*12/24/12 11:47*	*1*
Toluene-d8 (Surr)	*96*		*58 - 140*	*12/22/12 12:00*	*12/24/12 11:47*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.6**		0.99		mg/Kg		12/26/12 14:19	12/27/12 19:31	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/26/12 14:19	12/27/12 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.003*		*0 - 1*	*12/26/12 14:19*	*12/27/12 19:31*	*1*
p-Terphenyl	*108*		*38 - 148*	*12/26/12 14:19*	*12/27/12 19:31*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:04	10
Dieldrin	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:04	10
Endrin aldehyde	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:04	10
Endrin	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:04	10
Endrin ketone	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:04	10
Heptachlor	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:04	10
Heptachlor epoxide	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:04	10
4,4'-DDT	**110**		20		ug/Kg		12/27/12 14:17	12/28/12 23:04	10
4,4'-DDE	**1300**		20		ug/Kg		12/27/12 14:17	12/28/12 23:04	10
4,4'-DDD	**330**		20		ug/Kg		12/27/12 14:17	12/28/12 23:04	10
Endosulfan I	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:04	10
Endosulfan II	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:04	10
alpha-BHC	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:04	10
beta-BHC	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:04	10
gamma-BHC (Lindane)	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:04	10

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-8 (1-1 1/2)
Date Collected: 12/21/12 11:10
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-14
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:04	10
Endosulfan sulfate	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:04	10
Methoxychlor	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:04	10
Toxaphene	ND		400		ug/Kg		12/27/12 14:17	12/28/12 23:04	10
Chlordane (technical)	ND		400		ug/Kg		12/27/12 14:17	12/28/12 23:04	10
alpha-Chlordane	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:04	10
gamma-Chlordane	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X D*	*57 - 122*	*12/27/12 14:17*	*12/28/12 23:04*	*10*
DCB Decachlorobiphenyl	*0*	*X D*	*21 - 136*	*12/27/12 14:17*	*12/28/12 23:04*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		12/27/12 14:25	12/30/12 19:49	1
PCB-1221	ND		50		ug/Kg		12/27/12 14:25	12/30/12 19:49	1
PCB-1232	ND		50		ug/Kg		12/27/12 14:25	12/30/12 19:49	1
PCB-1242	ND		50		ug/Kg		12/27/12 14:25	12/30/12 19:49	1
PCB-1248	ND		50		ug/Kg		12/27/12 14:25	12/30/12 19:49	1
PCB-1254	ND		50		ug/Kg		12/27/12 14:25	12/30/12 19:49	1
PCB-1260	ND		50		ug/Kg		12/27/12 14:25	12/30/12 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*117*	*X*	*32 - 112*	*12/27/12 14:25*	*12/30/12 19:49*	*1*
DCB Decachlorobiphenyl	*116*		*2 - 122*	*12/27/12 14:25*	*12/30/12 19:49*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:25	4
Arsenic	**18**		3.9		mg/Kg		12/26/12 21:36	12/27/12 20:25	4
Barium	**260**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:25	4
Beryllium	**0.62**		0.39		mg/Kg		12/26/12 21:36	12/27/12 20:25	4
Cadmium	ND		0.49		mg/Kg		12/26/12 21:36	12/27/12 20:25	4
Chromium	**92**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:25	4
Cobalt	**17**		0.78		mg/Kg		12/26/12 21:36	12/27/12 20:25	4
Copper	**77**		5.8		mg/Kg		12/26/12 21:36	12/27/12 20:25	4
Lead	**34**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:25	4
Molybdenum	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:25	4
Nickel	**140**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:25	4
Selenium	ND		3.9		mg/Kg		12/26/12 21:36	12/27/12 20:25	4
Silver	ND		0.97		mg/Kg		12/26/12 21:36	12/27/12 20:25	4
Thallium	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:25	4
Vanadium	**57**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:25	4
Zinc	**91**		5.8		mg/Kg		12/26/12 21:36	12/27/12 20:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**4.9**		0.088		mg/Kg		12/24/12 18:08	12/27/12 16:13	10

Client Sample ID: SB-8 (3-3 1/2)
Date Collected: 12/21/12 11:20
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-15
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:21	10
Dieldrin	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:21	10
Endrin aldehyde	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:21	10
Endrin	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:21	10
Endrin ketone	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:21	10
Heptachlor	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:21	10
Heptachlor epoxide	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:21	10
4,4'-DDT	**140**		20		ug/Kg		12/27/12 14:17	12/28/12 23:21	10
4,4'-DDE	**790**		20		ug/Kg		12/27/12 14:17	12/28/12 23:21	10
4,4'-DDD	**200**		20		ug/Kg		12/27/12 14:17	12/28/12 23:21	10
Endosulfan I	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:21	10
Endosulfan II	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:21	10
alpha-BHC	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:21	10
beta-BHC	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:21	10
gamma-BHC (Lindane)	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:21	10
delta-BHC	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:21	10
Endosulfan sulfate	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:21	10
Methoxychlor	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:21	10
Toxaphene	ND		400		ug/Kg		12/27/12 14:17	12/28/12 23:21	10
Chlordane (technical)	ND		400		ug/Kg		12/27/12 14:17	12/28/12 23:21	10
alpha-Chlordane	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:21	10
gamma-Chlordane	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X D*	*57 - 122*	*12/27/12 14:17*	*12/28/12 23:21*	*10*
DCB Decachlorobiphenyl	*0*	*X D*	*21 - 136*	*12/27/12 14:17*	*12/28/12 23:21*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		12/27/12 14:25	12/30/12 20:07	1
PCB-1221	ND		50		ug/Kg		12/27/12 14:25	12/30/12 20:07	1
PCB-1232	ND		50		ug/Kg		12/27/12 14:25	12/30/12 20:07	1
PCB-1242	ND		50		ug/Kg		12/27/12 14:25	12/30/12 20:07	1
PCB-1248	ND		50		ug/Kg		12/27/12 14:25	12/30/12 20:07	1
PCB-1254	ND		50		ug/Kg		12/27/12 14:25	12/30/12 20:07	1
PCB-1260	ND		50		ug/Kg		12/27/12 14:25	12/30/12 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*125*	*X*	*32 - 112*	*12/27/12 14:25*	*12/30/12 20:07*	*1*
DCB Decachlorobiphenyl	*127*	*X*	*2 - 122*	*12/27/12 14:25*	*12/30/12 20:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**17**		2.0		mg/Kg		12/26/12 21:36	12/27/12 20:30	4
Arsenic	**11**		3.9		mg/Kg		12/26/12 21:36	12/27/12 20:30	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**2.9**		0.098		mg/Kg		12/24/12 18:08	12/27/12 16:16	10

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-7 (1-1 1/2)
Date Collected: 12/21/12 11:35
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-16
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Acetone	ND		42		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Benzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Dichlorobromomethane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Bromobenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Chlorobromomethane	ND		17		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Bromoform	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Bromomethane	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
2-Butanone (MEK)	ND		42		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
n-Butylbenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
sec-Butylbenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
tert-Butylbenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Carbon disulfide	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Carbon tetrachloride	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Chlorobenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Chloroethane	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Chloroform	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Chloromethane	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
2-Chlorotoluene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
4-Chlorotoluene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Chlorodibromomethane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
1,2-Dichlorobenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
1,3-Dichlorobenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
1,4-Dichlorobenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
1,3-Dichloropropane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
1,1-Dichloropropene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
1,2-Dibromo-3-Chloropropane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Ethylene Dibromide	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Dibromomethane	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Dichlorodifluoromethane	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
1,1-Dichloroethane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
1,2-Dichloroethane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
1,1-Dichloroethene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
cis-1,2-Dichloroethene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
trans-1,2-Dichloroethene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
1,2-Dichloropropane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
cis-1,3-Dichloropropene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
trans-1,3-Dichloropropene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Ethylbenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Hexachlorobutadiene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
2-Hexanone	ND		42		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Isopropylbenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
4-Isopropyltoluene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Methylene Chloride	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
4-Methyl-2-pentanone (MIBK)	ND		42		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Naphthalene	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
N-Propylbenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Styrene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
1,1,1,2-Tetrachloroethane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1

Client Sample ID: SB-7 (1-1 1/2)
Date Collected: 12/21/12 11:35
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-16
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Tetrachloroethene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Toluene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
1,2,3-Trichlorobenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
1,2,4-Trichlorobenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
1,1,1-Trichloroethane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
1,1,2-Trichloroethane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Trichloroethene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Trichlorofluoromethane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
1,2,3-Trichloropropane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
1,2,4-Trimethylbenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
1,3,5-Trimethylbenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Vinyl acetate	ND		42		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Vinyl chloride	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Xylenes, Total	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
2,2-Dichloropropane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 12:16	1
Gasoline Range Organics (GRO) -C5-C12	ND		210		ug/Kg		12/22/12 12:00	12/24/12 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*77*		*45 - 131*	*12/22/12 12:00*	*12/24/12 12:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 140*	*12/22/12 12:00*	*12/24/12 12:16*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*	*12/22/12 12:00*	*12/24/12 12:16*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.1**		1.0		mg/Kg		12/26/12 14:19	12/27/12 20:00	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/26/12 14:19	12/27/12 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*12/26/12 14:19*	*12/27/12 20:00*	*1*
p-Terphenyl	*93*		*38 - 148*	*12/26/12 14:19*	*12/27/12 20:00*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 23:38	1
Dieldrin	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 23:38	1
Endrin aldehyde	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 23:38	1
Endrin	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 23:38	1
Endrin ketone	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 23:38	1
Heptachlor	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 23:38	1
Heptachlor epoxide	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 23:38	1
4,4'-DDT	**110**		2.0		ug/Kg		12/27/12 14:17	12/28/12 23:38	1
4,4'-DDE	**240**		2.0		ug/Kg		12/27/12 14:17	12/28/12 23:38	1
4,4'-DDD	**24**		2.0		ug/Kg		12/27/12 14:17	12/28/12 23:38	1
Endosulfan I	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 23:38	1
Endosulfan II	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 23:38	1
alpha-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 23:38	1
beta-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 23:38	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 23:38	1

Client Sample ID: SB-7 (1-1 1/2)
Date Collected: 12/21/12 11:35
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-16
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 23:38	1
Endosulfan sulfate	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 23:38	1
Methoxychlor	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 23:38	1
Toxaphene	ND		40		ug/Kg		12/27/12 14:17	12/28/12 23:38	1
Chlordane (technical)	ND		40		ug/Kg		12/27/12 14:17	12/28/12 23:38	1
alpha-Chlordane	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 23:38	1
gamma-Chlordane	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*102*		*57 - 122*	*12/27/12 14:17*	*12/28/12 23:38*	*1*
DCB Decachlorobiphenyl	*128*		*21 - 136*	*12/27/12 14:17*	*12/28/12 23:38*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		12/27/12 14:25	12/30/12 20:25	1
PCB-1221	ND		50		ug/Kg		12/27/12 14:25	12/30/12 20:25	1
PCB-1232	ND		50		ug/Kg		12/27/12 14:25	12/30/12 20:25	1
PCB-1242	ND		50		ug/Kg		12/27/12 14:25	12/30/12 20:25	1
PCB-1248	ND		50		ug/Kg		12/27/12 14:25	12/30/12 20:25	1
PCB-1254	ND		50		ug/Kg		12/27/12 14:25	12/30/12 20:25	1
PCB-1260	ND		50		ug/Kg		12/27/12 14:25	12/30/12 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*110*		*32 - 112*	*12/27/12 14:25*	*12/30/12 20:25*	*1*
DCB Decachlorobiphenyl	*119*		*2 - 122*	*12/27/12 14:25*	*12/30/12 20:25*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:34	4
Arsenic	**16**		3.8		mg/Kg		12/26/12 21:36	12/27/12 20:34	4
Barium	**170**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:34	4
Beryllium	**0.47**		0.38		mg/Kg		12/26/12 21:36	12/27/12 20:34	4
Cadmium	ND		0.47		mg/Kg		12/26/12 21:36	12/27/12 20:34	4
Chromium	**140**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:34	4
Cobalt	**20**		0.75		mg/Kg		12/26/12 21:36	12/27/12 20:34	4
Copper	**49**		5.7		mg/Kg		12/26/12 21:36	12/27/12 20:34	4
Lead	**69**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:34	4
Molybdenum	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:34	4
Nickel	**220**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:34	4
Selenium	ND		3.8		mg/Kg		12/26/12 21:36	12/27/12 20:34	4
Silver	ND		0.94		mg/Kg		12/26/12 21:36	12/27/12 20:34	4
Thallium	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:34	4
Vanadium	**52**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:34	4
Zinc	**79**		5.7		mg/Kg		12/26/12 21:36	12/27/12 20:34	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.046**		0.0087		mg/Kg		12/24/12 18:08	12/27/12 15:31	1

Client Sample ID: SB-7 (2 1/2-3)
Date Collected: 12/21/12 11:40
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-17
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:54	10
Dieldrin	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:54	10
Endrin aldehyde	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:54	10
Endrin	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:54	10
Endrin ketone	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:54	10
Heptachlor	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:54	10
Heptachlor epoxide	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:54	10
4,4'-DDT	**700**		20		ug/Kg		12/27/12 14:17	12/28/12 23:54	10
4,4'-DDE	**1700**		20		ug/Kg		12/27/12 14:17	12/28/12 23:54	10
4,4'-DDD	**130**		20		ug/Kg		12/27/12 14:17	12/28/12 23:54	10
Endosulfan I	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:54	10
Endosulfan II	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:54	10
alpha-BHC	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:54	10
beta-BHC	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:54	10
gamma-BHC (Lindane)	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:54	10
delta-BHC	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:54	10
Endosulfan sulfate	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:54	10
Methoxychlor	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:54	10
Toxaphene	ND		400		ug/Kg		12/27/12 14:17	12/28/12 23:54	10
Chlordane (technical)	ND		400		ug/Kg		12/27/12 14:17	12/28/12 23:54	10
alpha-Chlordane	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:54	10
gamma-Chlordane	ND		20		ug/Kg		12/27/12 14:17	12/28/12 23:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X D*	*57 - 122*	*12/27/12 14:17*	*12/28/12 23:54*	*10*
DCB Decachlorobiphenyl	*0*	*X D*	*21 - 136*	*12/27/12 14:17*	*12/28/12 23:54*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		12/27/12 14:25	12/30/12 20:43	1
PCB-1221	ND		49		ug/Kg		12/27/12 14:25	12/30/12 20:43	1
PCB-1232	ND		49		ug/Kg		12/27/12 14:25	12/30/12 20:43	1
PCB-1242	ND		49		ug/Kg		12/27/12 14:25	12/30/12 20:43	1
PCB-1248	ND		49		ug/Kg		12/27/12 14:25	12/30/12 20:43	1
PCB-1254	ND		49		ug/Kg		12/27/12 14:25	12/30/12 20:43	1
PCB-1260	ND		49		ug/Kg		12/27/12 14:25	12/30/12 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*125*	*X*	*32 - 112*	*12/27/12 14:25*	*12/30/12 20:43*	*1*
DCB Decachlorobiphenyl	*142*	*X*	*2 - 122*	*12/27/12 14:25*	*12/30/12 20:43*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**32**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:39	4
Arsenic	**18**		3.8		mg/Kg		12/26/12 21:36	12/27/12 20:39	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**7.3**		0.097		mg/Kg		12/24/12 18:08	12/27/12 16:18	10

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-3 (1-1 1/2)
Date Collected: 12/21/12 12:30
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-18
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Acetone	ND		39		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Benzene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Dichlorobromomethane	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Bromobenzene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Chlorobromomethane	ND		15		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Bromoform	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Bromomethane	ND		7.7		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
2-Butanone (MEK)	ND		39		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
n-Butylbenzene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
sec-Butylbenzene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
tert-Butylbenzene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Carbon disulfide	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Carbon tetrachloride	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Chlorobenzene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Chloroethane	ND		7.7		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Chloroform	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Chloromethane	ND		7.7		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
2-Chlorotoluene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
4-Chlorotoluene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Chlorodibromomethane	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
1,2-Dichlorobenzene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
1,3-Dichlorobenzene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
1,4-Dichlorobenzene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
1,3-Dichloropropane	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
1,1-Dichloropropene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
1,2-Dibromo-3-Chloropropane	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Ethylene Dibromide	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Dibromomethane	ND		7.7		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Dichlorodifluoromethane	ND		7.7		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
1,1-Dichloroethane	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
1,2-Dichloroethane	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
1,1-Dichloroethene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
cis-1,2-Dichloroethene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
trans-1,2-Dichloroethene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
1,2-Dichloropropane	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
cis-1,3-Dichloropropene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
trans-1,3-Dichloropropene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Ethylbenzene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Hexachlorobutadiene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
2-Hexanone	ND		39		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Isopropylbenzene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
4-Isopropyltoluene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Methylene Chloride	ND		7.7		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
4-Methyl-2-pentanone (MIBK)	ND		39		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Naphthalene	ND		7.7		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
N-Propylbenzene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Styrene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
1,1,1,2-Tetrachloroethane	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1

Client Sample ID: SB-3 (1-1 1/2)
Date Collected: 12/21/12 12:30
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-18
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Tetrachloroethene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Toluene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
1,2,3-Trichlorobenzene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
1,2,4-Trichlorobenzene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
1,1,1-Trichloroethane	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
1,1,2-Trichloroethane	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Trichloroethene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Trichlorofluoromethane	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
1,2,3-Trichloropropane	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
1,2,4-Trimethylbenzene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
1,3,5-Trimethylbenzene	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Vinyl acetate	ND		39		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Vinyl chloride	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Xylenes, Total	ND		7.7		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
2,2-Dichloropropane	ND		3.9		ug/Kg		12/22/12 12:00	12/24/12 12:46	1
Gasoline Range Organics (GRO) -C5-C12	ND		190		ug/Kg		12/22/12 12:00	12/24/12 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*79*		*45 - 131*	*12/22/12 12:00*	*12/24/12 12:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*122*		*60 - 140*	*12/22/12 12:00*	*12/24/12 12:46*	*1*
Toluene-d8 (Surr)	*89*		*58 - 140*	*12/22/12 12:00*	*12/24/12 12:46*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Bis(2-chloroethyl)ether	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
2-Chlorophenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
1,3-Dichlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
1,4-Dichlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Benzyl alcohol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
1,2-Dichlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
2-Methylphenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Methylphenol, 3 & 4	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
N-Nitrosodi-n-propylamine	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Hexachloroethane	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Nitrobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Isophorone	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
2-Nitrophenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
2,4-Dimethylphenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
1,2,4-Trichlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Naphthalene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
4-Chloroaniline	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Hexachlorobutadiene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
2-Methylnaphthalene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-3 (1-1 1/2)
Date Collected: 12/21/12 12:30
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-18
Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
2,4,6-Trichlorophenol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
2,4,5-Trichlorophenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
2-Chloronaphthalene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
2-Nitroaniline	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Dimethyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Acenaphthylene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
3-Nitroaniline	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Acenaphthene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
2,4-Dinitrophenol	ND		0.66		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
4-Nitrophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Dibenzofuran	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
2,4-Dinitrotoluene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
2,6-Dinitrotoluene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Diethyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Fluorene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
4-Nitroaniline	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
2-Methyl-4,6-dinitrophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
N-Nitrosodiphenylamine	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Hexachlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Pentachlorophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Phenanthrene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Anthracene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Di-n-butyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Fluoranthene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Pyrene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
3,3'-Dichlorobenzidine	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Benzo[a]anthracene	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Chrysene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Benzo[b]fluoranthene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Benzo[a]pyrene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Benzo[k]fluoranthene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Indeno[1,2,3-cd]pyrene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Benzo[g,h,i]perylene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Benzoic acid	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Azobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1
Dibenz(a,h)anthracene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*69*		*21 - 98*	*12/22/12 10:49*	*12/26/12 21:08*	*1*
2-Fluorobiphenyl	*72*		*30 - 112*	*12/22/12 10:49*	*12/26/12 21:08*	*1*
Terphenyl-d14	*72*		*32 - 117*	*12/22/12 10:49*	*12/26/12 21:08*	*1*
2-Fluorophenol	*62*		*28 - 98*	*12/22/12 10:49*	*12/26/12 21:08*	*1*
Phenol-d5	*66*		*23 - 101*	*12/22/12 10:49*	*12/26/12 21:08*	*1*
2,4,6-Tribromophenol	*77*		*37 - 114*	*12/22/12 10:49*	*12/26/12 21:08*	*1*

Client Sample ID: SB-3 (1-1 1/2)
Date Collected: 12/21/12 12:30
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-18
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	40		1.0		mg/Kg		12/27/12 14:54	12/28/12 22:54	1
Motor Oil Range Organics [C24-C36]	82		50		mg/Kg		12/27/12 14:54	12/28/12 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.1*		*0 - 1*	*12/27/12 14:54*	*12/28/12 22:54*	*1*
p-Terphenyl	*92*		*38 - 148*	*12/27/12 14:54*	*12/28/12 22:54*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 00:10	1
Dieldrin	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 00:10	1
Endrin aldehyde	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 00:10	1
Endrin	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 00:10	1
Endrin ketone	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 00:10	1
Heptachlor	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 00:10	1
Heptachlor epoxide	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 00:10	1
4,4'-DDT	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 00:10	1
4,4'-DDE	12		2.0		ug/Kg		12/27/12 14:17	12/29/12 00:10	1
4,4'-DDD	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 00:10	1
Endosulfan I	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 00:10	1
Endosulfan II	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 00:10	1
alpha-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 00:10	1
beta-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 00:10	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 00:10	1
delta-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 00:10	1
Endosulfan sulfate	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 00:10	1
Methoxychlor	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 00:10	1
Toxaphene	ND		39		ug/Kg		12/27/12 14:17	12/29/12 00:10	1
Chlordane (technical)	ND		39		ug/Kg		12/27/12 14:17	12/29/12 00:10	1
alpha-Chlordane	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 00:10	1
gamma-Chlordane	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*57 - 122*	*12/27/12 14:17*	*12/29/12 00:10*	*1*
DCB Decachlorobiphenyl	*131*		*21 - 136*	*12/27/12 14:17*	*12/29/12 00:10*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		12/27/12 14:25	12/30/12 21:01	1
PCB-1221	ND		49		ug/Kg		12/27/12 14:25	12/30/12 21:01	1
PCB-1232	ND		49		ug/Kg		12/27/12 14:25	12/30/12 21:01	1
PCB-1242	ND		49		ug/Kg		12/27/12 14:25	12/30/12 21:01	1
PCB-1248	ND		49		ug/Kg		12/27/12 14:25	12/30/12 21:01	1
PCB-1254	ND		49		ug/Kg		12/27/12 14:25	12/30/12 21:01	1
PCB-1260	ND		49		ug/Kg		12/27/12 14:25	12/30/12 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*147*	*X*	*32 - 112*	*12/27/12 14:25*	*12/30/12 21:01*	*1*
DCB Decachlorobiphenyl	*167*	*X*	*2 - 122*	*12/27/12 14:25*	*12/30/12 21:01*	*1*

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-3 (1-1 1/2)
Date Collected: 12/21/12 12:30
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-18
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:43	4
Arsenic	**4.6**		3.8		mg/Kg		12/26/12 21:36	12/27/12 20:43	4
Barium	**300**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:43	4
Beryllium	ND		0.38		mg/Kg		12/26/12 21:36	12/27/12 20:43	4
Cadmium	ND		0.48		mg/Kg		12/26/12 21:36	12/27/12 20:43	4
Chromium	**320**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:43	4
Cobalt	**33**		0.77		mg/Kg		12/26/12 21:36	12/27/12 20:43	4
Copper	**51**		5.8		mg/Kg		12/26/12 21:36	12/27/12 20:43	4
Lead	**6.0**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:43	4
Molybdenum	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:43	4
Nickel	**470**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:43	4
Selenium	ND		3.8		mg/Kg		12/26/12 21:36	12/27/12 20:43	4
Silver	ND		0.96		mg/Kg		12/26/12 21:36	12/27/12 20:43	4
Thallium	ND		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:43	4
Vanadium	**46**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:43	4
Zinc	**49**		5.8		mg/Kg		12/26/12 21:36	12/27/12 20:43	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.050**		0.0090		mg/Kg		12/24/12 18:08	12/27/12 15:37	1

Client Sample ID: SB-3 (2 1/2-3)
Date Collected: 12/21/12 12:35
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-19
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		49		ug/Kg		12/27/12 11:19	12/28/12 00:43	10
Acenaphthylene	ND		49		ug/Kg		12/27/12 11:19	12/28/12 00:43	10
Anthracene	ND		49		ug/Kg		12/27/12 11:19	12/28/12 00:43	10
Benzo[a]anthracene	ND		49		ug/Kg		12/27/12 11:19	12/28/12 00:43	10
Benzo[a]pyrene	ND		49		ug/Kg		12/27/12 11:19	12/28/12 00:43	10
Benzo[b]fluoranthene	ND		49		ug/Kg		12/27/12 11:19	12/28/12 00:43	10
Benzo[g,h,i]perylene	ND		49		ug/Kg		12/27/12 11:19	12/28/12 00:43	10
Benzo[k]fluoranthene	ND		49		ug/Kg		12/27/12 11:19	12/28/12 00:43	10
Chrysene	**84**		49		ug/Kg		12/27/12 11:19	12/28/12 00:43	10
Dibenz(a,h)anthracene	ND		49		ug/Kg		12/27/12 11:19	12/28/12 00:43	10
Fluoranthene	ND		49		ug/Kg		12/27/12 11:19	12/28/12 00:43	10
Fluorene	ND		49		ug/Kg		12/27/12 11:19	12/28/12 00:43	10
Indeno[1,2,3-cd]pyrene	ND		49		ug/Kg		12/27/12 11:19	12/28/12 00:43	10
Naphthalene	ND		49		ug/Kg		12/27/12 11:19	12/28/12 00:43	10
Phenanthrene	ND		49		ug/Kg		12/27/12 11:19	12/28/12 00:43	10
Pyrene	ND		49		ug/Kg		12/27/12 11:19	12/28/12 00:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*33 - 120*	*12/27/12 11:19*	*12/28/12 00:43*	*10*
Terphenyl-d14	*69*		*35 - 146*	*12/27/12 11:19*	*12/28/12 00:43*	*10*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:05	1
Dieldrin	**5.0**		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:05	1
Endrin aldehyde	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:05	1
Endrin	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:05	1
Endrin ketone	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:05	1
Heptachlor	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:05	1
Heptachlor epoxide	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:05	1
4,4'-DDT	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:05	1
4,4'-DDE	**150**		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:05	1
4,4'-DDD	**29**		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:05	1
Endosulfan I	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:05	1
Endosulfan II	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:05	1
alpha-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:05	1
beta-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:05	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:05	1
delta-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:05	1
Endosulfan sulfate	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:05	1
Methoxychlor	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:05	1
Toxaphene	ND		40		ug/Kg		12/27/12 14:17	12/28/12 03:05	1
Chlordane (technical)	ND		40		ug/Kg		12/27/12 14:17	12/28/12 03:05	1
alpha-Chlordane	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:05	1
gamma-Chlordane	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*111*		*57 - 122*	*12/27/12 14:17*	*12/28/12 03:05*	*1*
DCB Decachlorobiphenyl	*66*		*21 - 136*	*12/27/12 14:17*	*12/28/12 03:05*	*1*

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-3 (2 1/2-3)
Date Collected: 12/21/12 12:35
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-19
Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		12/27/12 14:25	01/01/13 00:53	1
PCB-1221	ND		50		ug/Kg		12/27/12 14:25	01/01/13 00:53	1
PCB-1232	ND		50		ug/Kg		12/27/12 14:25	01/01/13 00:53	1
PCB-1242	ND		50		ug/Kg		12/27/12 14:25	01/01/13 00:53	1
PCB-1248	ND		50		ug/Kg		12/27/12 14:25	01/01/13 00:53	1
PCB-1254	ND		50		ug/Kg		12/27/12 14:25	01/01/13 00:53	1
PCB-1260	ND		50		ug/Kg		12/27/12 14:25	01/01/13 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*133*	*X*	*32 - 112*	*12/27/12 14:25*	*01/01/13 00:53*	*1*
DCB Decachlorobiphenyl	*127*	*X*	*2 - 122*	*12/27/12 14:25*	*01/01/13 00:53*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**19**		1.9		mg/Kg		12/26/12 21:36	12/27/12 20:48	4
Arsenic	**7.1**		3.7		mg/Kg		12/26/12 21:36	12/27/12 20:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**4.1**		0.091		mg/Kg		12/24/12 18:08	12/27/12 16:27	10

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-3 (4 1/2-5)
Date Collected: 12/21/12 12:40
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-20
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Acetone	ND		40		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Benzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Dichlorobromomethane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Bromobenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Chlorobromomethane	ND		16		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Bromoform	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Bromomethane	ND		8.1		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
2-Butanone (MEK)	ND		40		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
n-Butylbenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
sec-Butylbenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
tert-Butylbenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Carbon disulfide	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Carbon tetrachloride	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Chlorobenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Chloroethane	ND		8.1		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Chloroform	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Chloromethane	ND		8.1		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
2-Chlorotoluene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
4-Chlorotoluene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Chlorodibromomethane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
1,2-Dichlorobenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
1,3-Dichlorobenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
1,4-Dichlorobenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
1,3-Dichloropropane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
1,1-Dichloropropene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
1,2-Dibromo-3-Chloropropane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Ethylene Dibromide	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Dibromomethane	ND		8.1		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Dichlorodifluoromethane	ND		8.1		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
1,1-Dichloroethane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
1,2-Dichloroethane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
1,1-Dichloroethene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
cis-1,2-Dichloroethene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
trans-1,2-Dichloroethene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
1,2-Dichloropropane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
cis-1,3-Dichloropropene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
trans-1,3-Dichloropropene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Ethylbenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Hexachlorobutadiene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
2-Hexanone	ND		40		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Isopropylbenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
4-Isopropyltoluene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Methylene Chloride	ND		8.1		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
4-Methyl-2-pentanone (MIBK)	ND		40		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Naphthalene	ND		8.1		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
N-Propylbenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Styrene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
1,1,1,2-Tetrachloroethane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-3 (4 1/2-5)
Date Collected: 12/21/12 12:40
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-20
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Tetrachloroethene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Toluene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
1,2,3-Trichlorobenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
1,2,4-Trichlorobenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
1,1,1-Trichloroethane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
1,1,2-Trichloroethane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Trichloroethene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Trichlorofluoromethane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
1,2,3-Trichloropropane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
1,2,4-Trimethylbenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
1,3,5-Trimethylbenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Vinyl acetate	ND		40		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Vinyl chloride	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Xylenes, Total	ND		8.1		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
2,2-Dichloropropane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:23	1
Gasoline Range Organics (GRO) -C5-C12	ND		200		ug/Kg		12/22/12 14:33	12/22/12 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*73*		*45 - 131*	*12/22/12 14:33*	*12/22/12 19:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*60 - 140*	*12/22/12 14:33*	*12/22/12 19:23*	*1*
Toluene-d8 (Surr)	*90*		*58 - 140*	*12/22/12 14:33*	*12/22/12 19:23*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Bis(2-chloroethyl)ether	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
2-Chlorophenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
1,3-Dichlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
1,4-Dichlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Benzyl alcohol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
1,2-Dichlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
2-Methylphenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Methylphenol, 3 & 4	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
N-Nitrosodi-n-propylamine	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Hexachloroethane	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Nitrobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Isophorone	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
2-Nitrophenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
2,4-Dimethylphenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
1,2,4-Trichlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Naphthalene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
4-Chloroaniline	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Hexachlorobutadiene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
2-Methylnaphthalene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-3 (4 1/2-5)
Date Collected: 12/21/12 12:40
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-20
Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
2,4,6-Trichlorophenol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
2,4,5-Trichlorophenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
2-Chloronaphthalene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
2-Nitroaniline	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Dimethyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Acenaphthylene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
3-Nitroaniline	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Acenaphthene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
2,4-Dinitrophenol	ND		0.66		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
4-Nitrophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Dibenzofuran	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
2,4-Dinitrotoluene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
2,6-Dinitrotoluene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Diethyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Fluorene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
4-Nitroaniline	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
2-Methyl-4,6-dinitrophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
N-Nitrosodiphenylamine	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Hexachlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Pentachlorophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Phenanthrene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Anthracene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Di-n-butyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Fluoranthene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Pyrene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
3,3'-Dichlorobenzidine	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Benzo[a]anthracene	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Chrysene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Benzo[b]fluoranthene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Benzo[a]pyrene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Benzo[k]fluoranthene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Indeno[1,2,3-cd]pyrene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Benzo[g,h,i]perylene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Benzoic acid	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Azobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1
Dibenz(a,h)anthracene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*65*		*21 - 98*	*12/22/12 10:49*	*12/26/12 20:45*	*1*
2-Fluorobiphenyl	*71*		*30 - 112*	*12/22/12 10:49*	*12/26/12 20:45*	*1*
Terphenyl-d14	*70*		*32 - 117*	*12/22/12 10:49*	*12/26/12 20:45*	*1*
2-Fluorophenol	*62*		*28 - 98*	*12/22/12 10:49*	*12/26/12 20:45*	*1*
Phenol-d5	*66*		*23 - 101*	*12/22/12 10:49*	*12/26/12 20:45*	*1*
2,4,6-Tribromophenol	*75*		*37 - 114*	*12/22/12 10:49*	*12/26/12 20:45*	*1*

Client Sample ID: SB-3 (4 1/2-5)
Date Collected: 12/21/12 12:40
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-20
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		12/27/12 14:54	12/29/12 00:06	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		12/27/12 14:54	12/29/12 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.05*		*0 - 1*	*12/27/12 14:54*	*12/29/12 00:06*	*1*
p-Terphenyl	*97*		*38 - 148*	*12/27/12 14:54*	*12/29/12 00:06*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:22	1
Dieldrin	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:22	1
Endrin aldehyde	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:22	1
Endrin	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:22	1
Endrin ketone	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:22	1
Heptachlor	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:22	1
Heptachlor epoxide	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:22	1
4,4'-DDT	**5.5**		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:22	1
4,4'-DDE	**190**		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:22	1
4,4'-DDD	**18**		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:22	1
Endosulfan I	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:22	1
Endosulfan II	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:22	1
alpha-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:22	1
beta-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:22	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:22	1
delta-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:22	1
Endosulfan sulfate	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:22	1
Methoxychlor	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:22	1
Toxaphene	ND		39		ug/Kg		12/27/12 14:17	12/28/12 03:22	1
Chlordane (technical)	ND		39		ug/Kg		12/27/12 14:17	12/28/12 03:22	1
alpha-Chlordane	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:22	1
gamma-Chlordane	ND		2.0		ug/Kg		12/27/12 14:17	12/28/12 03:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*57 - 122*	*12/27/12 14:17*	*12/28/12 03:22*	*1*
DCB Decachlorobiphenyl	*89*		*21 - 136*	*12/27/12 14:17*	*12/28/12 03:22*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		12/27/12 14:25	01/01/13 01:11	1
PCB-1221	ND		49		ug/Kg		12/27/12 14:25	01/01/13 01:11	1
PCB-1232	ND		49		ug/Kg		12/27/12 14:25	01/01/13 01:11	1
PCB-1242	ND		49		ug/Kg		12/27/12 14:25	01/01/13 01:11	1
PCB-1248	ND		49		ug/Kg		12/27/12 14:25	01/01/13 01:11	1
PCB-1254	ND		49		ug/Kg		12/27/12 14:25	01/01/13 01:11	1
PCB-1260	ND		49		ug/Kg		12/27/12 14:25	01/01/13 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*32 - 112*	*12/27/12 14:25*	*01/01/13 01:11*	*1*
DCB Decachlorobiphenyl	*104*		*2 - 122*	*12/27/12 14:25*	*01/01/13 01:11*	*1*

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-3 (4 1/2-5)
Date Collected: 12/21/12 12:40
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-20
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		mg/Kg		12/26/12 21:36	12/27/12 20:52	4
Arsenic	**9.6**		3.9		mg/Kg		12/26/12 21:36	12/27/12 20:52	4
Barium	**340**		2.0		mg/Kg		12/26/12 21:36	12/27/12 20:52	4
Beryllium	**0.73**		0.39		mg/Kg		12/26/12 21:36	12/27/12 20:52	4
Cadmium	ND		0.49		mg/Kg		12/26/12 21:36	12/27/12 20:52	4
Chromium	**77**		2.0		mg/Kg		12/26/12 21:36	12/27/12 20:52	4
Cobalt	**17**		0.78		mg/Kg		12/26/12 21:36	12/27/12 20:52	4
Copper	**47**		5.9		mg/Kg		12/26/12 21:36	12/27/12 20:52	4
Lead	**12**		2.0		mg/Kg		12/26/12 21:36	12/27/12 20:52	4
Molybdenum	ND		2.0		mg/Kg		12/26/12 21:36	12/27/12 20:52	4
Nickel	**100**		2.0		mg/Kg		12/26/12 21:36	12/27/12 20:52	4
Selenium	ND		3.9		mg/Kg		12/26/12 21:36	12/27/12 20:52	4
Silver	ND		0.98		mg/Kg		12/26/12 21:36	12/27/12 20:52	4
Thallium	ND		2.0		mg/Kg		12/26/12 21:36	12/27/12 20:52	4
Vanadium	**58**		2.0		mg/Kg		12/26/12 21:36	12/27/12 20:52	4
Zinc	**79**		5.9		mg/Kg		12/26/12 21:36	12/27/12 20:52	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.25**		0.0091		mg/Kg		12/26/12 09:16	12/26/12 14:15	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-2 (1-1 1/2)
Date Collected: 12/21/12 13:15
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-23
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Acetone	ND		40		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Benzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Dichlorobromomethane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Bromobenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Chlorobromomethane	ND		16		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Bromoform	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Bromomethane	ND		8.1		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
2-Butanone (MEK)	ND		40		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
n-Butylbenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
sec-Butylbenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
tert-Butylbenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Carbon disulfide	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Carbon tetrachloride	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Chlorobenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Chloroethane	ND		8.1		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Chloroform	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Chloromethane	ND		8.1		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
2-Chlorotoluene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
4-Chlorotoluene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Chlorodibromomethane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
1,2-Dichlorobenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
1,3-Dichlorobenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
1,4-Dichlorobenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
1,3-Dichloropropane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
1,1-Dichloropropene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
1,2-Dibromo-3-Chloropropane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Ethylene Dibromide	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Dibromomethane	ND		8.1		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Dichlorodifluoromethane	ND		8.1		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
1,1-Dichloroethane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
1,2-Dichloroethane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
1,1-Dichloroethene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
cis-1,2-Dichloroethene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
trans-1,2-Dichloroethene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
1,2-Dichloropropane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
cis-1,3-Dichloropropene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
trans-1,3-Dichloropropene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Ethylbenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Hexachlorobutadiene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
2-Hexanone	ND		40		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Isopropylbenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
4-Isopropyltoluene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Methylene Chloride	ND		8.1		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
4-Methyl-2-pentanone (MIBK)	ND		40		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Naphthalene	ND		8.1		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
N-Propylbenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Styrene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
1,1,1,2-Tetrachloroethane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1

Client Sample ID: SB-2 (1-1 1/2)
Date Collected: 12/21/12 13:15
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-23
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Tetrachloroethene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Toluene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
1,2,3-Trichlorobenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
1,2,4-Trichlorobenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
1,1,1-Trichloroethane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
1,1,2-Trichloroethane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Trichloroethene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Trichlorofluoromethane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
1,2,3-Trichloropropane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
1,2,4-Trimethylbenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
1,3,5-Trimethylbenzene	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Vinyl acetate	ND		40		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Vinyl chloride	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Xylenes, Total	ND		8.1		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
2,2-Dichloropropane	ND		4.0		ug/Kg		12/22/12 14:33	12/22/12 19:52	1
Gasoline Range Organics (GRO) -C5-C12	ND		200		ug/Kg		12/22/12 14:33	12/22/12 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*65*		*45 - 131*	*12/22/12 14:33*	*12/22/12 19:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*60 - 140*	*12/22/12 14:33*	*12/22/12 19:52*	*1*
Toluene-d8 (Surr)	*89*		*58 - 140*	*12/22/12 14:33*	*12/22/12 19:52*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Bis(2-chloroethyl)ether	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
2-Chlorophenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
1,3-Dichlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
1,4-Dichlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Benzyl alcohol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
1,2-Dichlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
2-Methylphenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Methylphenol, 3 & 4	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
N-Nitrosodi-n-propylamine	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Hexachloroethane	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Nitrobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Isophorone	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
2-Nitrophenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
2,4-Dimethylphenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
1,2,4-Trichlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Naphthalene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
4-Chloroaniline	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Hexachlorobutadiene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
2-Methylnaphthalene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-2 (1-1 1/2)
Date Collected: 12/21/12 13:15
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-23
Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
2,4,6-Trichlorophenol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
2,4,5-Trichlorophenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
2-Chloronaphthalene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
2-Nitroaniline	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Dimethyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Acenaphthylene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
3-Nitroaniline	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Acenaphthene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
2,4-Dinitrophenol	ND		0.66		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
4-Nitrophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Dibenzofuran	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
2,4-Dinitrotoluene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
2,6-Dinitrotoluene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Diethyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Fluorene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
4-Nitroaniline	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
2-Methyl-4,6-dinitrophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
N-Nitrosodiphenylamine	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Hexachlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Pentachlorophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Phenanthrene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Anthracene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Di-n-butyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Fluoranthene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Pyrene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
3,3'-Dichlorobenzidine	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Benzo[a]anthracene	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Chrysene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Benzo[b]fluoranthene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Benzo[a]pyrene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Benzo[k]fluoranthene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Indeno[1,2,3-cd]pyrene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Benzo[g,h,i]perylene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Benzoic acid	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Azobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1
Dibenz(a,h)anthracene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*68*		*21 - 98*	*12/22/12 10:49*	*12/26/12 20:21*	*1*
2-Fluorobiphenyl	*73*		*30 - 112*	*12/22/12 10:49*	*12/26/12 20:21*	*1*
Terphenyl-d14	*72*		*32 - 117*	*12/22/12 10:49*	*12/26/12 20:21*	*1*
2-Fluorophenol	*62*		*28 - 98*	*12/22/12 10:49*	*12/26/12 20:21*	*1*
Phenol-d5	*67*		*23 - 101*	*12/22/12 10:49*	*12/26/12 20:21*	*1*
2,4,6-Tribromophenol	*75*		*37 - 114*	*12/22/12 10:49*	*12/26/12 20:21*	*1*

Client Sample ID: SB-2 (1-1 1/2)
Date Collected: 12/21/12 13:15
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-23
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**9.9**		0.99		mg/Kg		12/27/12 14:54	12/28/12 23:18	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		12/27/12 14:54	12/28/12 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.001*		*0 - 1*	*12/27/12 14:54*	*12/28/12 23:18*	*1*
p-Terphenyl	*106*		*38 - 148*	*12/27/12 14:54*	*12/28/12 23:18*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		9.9		ug/Kg		12/27/12 14:17	12/29/12 00:26	5
Dieldrin	ND		9.9		ug/Kg		12/27/12 14:17	12/29/12 00:26	5
Endrin aldehyde	ND		9.9		ug/Kg		12/27/12 14:17	12/29/12 00:26	5
Endrin	ND		9.9		ug/Kg		12/27/12 14:17	12/29/12 00:26	5
Endrin ketone	ND		9.9		ug/Kg		12/27/12 14:17	12/29/12 00:26	5
Heptachlor	ND		9.9		ug/Kg		12/27/12 14:17	12/29/12 00:26	5
Heptachlor epoxide	ND		9.9		ug/Kg		12/27/12 14:17	12/29/12 00:26	5
4,4'-DDT	**27**		9.9		ug/Kg		12/27/12 14:17	12/29/12 00:26	5
4,4'-DDE	**450**		9.9		ug/Kg		12/27/12 14:17	12/29/12 00:26	5
4,4'-DDD	**130**		9.9		ug/Kg		12/27/12 14:17	12/29/12 00:26	5
Endosulfan I	ND		9.9		ug/Kg		12/27/12 14:17	12/29/12 00:26	5
Endosulfan II	ND		9.9		ug/Kg		12/27/12 14:17	12/29/12 00:26	5
alpha-BHC	ND		9.9		ug/Kg		12/27/12 14:17	12/29/12 00:26	5
beta-BHC	ND		9.9		ug/Kg		12/27/12 14:17	12/29/12 00:26	5
gamma-BHC (Lindane)	ND		9.9		ug/Kg		12/27/12 14:17	12/29/12 00:26	5
delta-BHC	ND		9.9		ug/Kg		12/27/12 14:17	12/29/12 00:26	5
Endosulfan sulfate	ND		9.9		ug/Kg		12/27/12 14:17	12/29/12 00:26	5
Methoxychlor	ND		9.9		ug/Kg		12/27/12 14:17	12/29/12 00:26	5
Toxaphene	ND		200		ug/Kg		12/27/12 14:17	12/29/12 00:26	5
Chlordane (technical)	ND		200		ug/Kg		12/27/12 14:17	12/29/12 00:26	5
alpha-Chlordane	ND		9.9		ug/Kg		12/27/12 14:17	12/29/12 00:26	5
gamma-Chlordane	ND		9.9		ug/Kg		12/27/12 14:17	12/29/12 00:26	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*121*		*57 - 122*	*12/27/12 14:17*	*12/29/12 00:26*	*5*
DCB Decachlorobiphenyl	*121*		*21 - 136*	*12/27/12 14:17*	*12/29/12 00:26*	*5*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		12/27/12 14:25	01/01/13 01:29	1
PCB-1221	ND		50		ug/Kg		12/27/12 14:25	01/01/13 01:29	1
PCB-1232	ND		50		ug/Kg		12/27/12 14:25	01/01/13 01:29	1
PCB-1242	ND		50		ug/Kg		12/27/12 14:25	01/01/13 01:29	1
PCB-1248	ND		50		ug/Kg		12/27/12 14:25	01/01/13 01:29	1
PCB-1254	ND		50		ug/Kg		12/27/12 14:25	01/01/13 01:29	1
PCB-1260	ND		50		ug/Kg		12/27/12 14:25	01/01/13 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*32 - 112*	*12/27/12 14:25*	*01/01/13 01:29*	*1*
DCB Decachlorobiphenyl	*106*		*2 - 122*	*12/27/12 14:25*	*01/01/13 01:29*	*1*

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-2 (1-1 1/2)
Date Collected: 12/21/12 13:15
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-23
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		mg/Kg		12/26/12 21:36	12/27/12 20:57	4
Arsenic	**9.4**		4.0		mg/Kg		12/26/12 21:36	12/27/12 20:57	4
Barium	**200**		2.0		mg/Kg		12/26/12 21:36	12/27/12 20:57	4
Beryllium	**0.48**		0.40		mg/Kg		12/26/12 21:36	12/27/12 20:57	4
Cadmium	ND		0.50		mg/Kg		12/26/12 21:36	12/27/12 20:57	4
Chromium	**210**		2.0		mg/Kg		12/26/12 21:36	12/27/12 20:57	4
Cobalt	**18**		0.80		mg/Kg		12/26/12 21:36	12/27/12 20:57	4
Copper	**42**		6.0		mg/Kg		12/26/12 21:36	12/27/12 20:57	4
Lead	**17**		2.0		mg/Kg		12/26/12 21:36	12/27/12 20:57	4
Molybdenum	ND		2.0		mg/Kg		12/26/12 21:36	12/27/12 20:57	4
Nickel	**280**		2.0		mg/Kg		12/26/12 21:36	12/27/12 20:57	4
Selenium	ND		4.0		mg/Kg		12/26/12 21:36	12/27/12 20:57	4
Silver	ND		1.0		mg/Kg		12/26/12 21:36	12/27/12 20:57	4
Thallium	ND		2.0		mg/Kg		12/26/12 21:36	12/27/12 20:57	4
Vanadium	**48**		2.0		mg/Kg		12/26/12 21:36	12/27/12 20:57	4
Zinc	**67**		6.0		mg/Kg		12/26/12 21:36	12/27/12 20:57	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.3**		0.0095		mg/Kg		12/26/12 09:16	12/26/12 13:54	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-2 (2 1/2-3)

Date Collected: 12/21/12 13:20
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-24

Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4.9		ug/Kg		12/27/12 11:19	12/27/12 22:38	1
Acenaphthylene	ND		4.9		ug/Kg		12/27/12 11:19	12/27/12 22:38	1
Anthracene	ND		4.9		ug/Kg		12/27/12 11:19	12/27/12 22:38	1
Benzo[a]anthracene	**9.0**		4.9		ug/Kg		12/27/12 11:19	12/27/12 22:38	1
Benzo[a]pyrene	**12**		4.9		ug/Kg		12/27/12 11:19	12/27/12 22:38	1
Benzo[b]fluoranthene	**17**		4.9		ug/Kg		12/27/12 11:19	12/27/12 22:38	1
Benzo[g,h,i]perylene	**9.2**		4.9		ug/Kg		12/27/12 11:19	12/27/12 22:38	1
Benzo[k]fluoranthene	ND		4.9		ug/Kg		12/27/12 11:19	12/27/12 22:38	1
Chrysene	**19**		4.9		ug/Kg		12/27/12 11:19	12/27/12 22:38	1
Dibenz(a,h)anthracene	ND		4.9		ug/Kg		12/27/12 11:19	12/27/12 22:38	1
Fluoranthene	**16**		4.9		ug/Kg		12/27/12 11:19	12/27/12 22:38	1
Fluorene	ND		4.9		ug/Kg		12/27/12 11:19	12/27/12 22:38	1
Indeno[1,2,3-cd]pyrene	**7.7**		4.9		ug/Kg		12/27/12 11:19	12/27/12 22:38	1
Naphthalene	**7.7**		4.9		ug/Kg		12/27/12 11:19	12/27/12 22:38	1
Phenanthrene	**18**		4.9		ug/Kg		12/27/12 11:19	12/27/12 22:38	1
Pyrene	**13**		4.9		ug/Kg		12/27/12 11:19	12/27/12 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*33 - 120*	*12/27/12 11:19*	*12/27/12 22:38*	*1*
Terphenyl-d14	*68*		*35 - 146*	*12/27/12 11:19*	*12/27/12 22:38*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		98		ug/Kg		12/27/12 14:17	12/29/12 20:09	50
Dieldrin	ND		98		ug/Kg		12/27/12 14:17	12/29/12 20:09	50
Endrin aldehyde	ND		98		ug/Kg		12/27/12 14:17	12/29/12 20:09	50
Endrin	ND		98		ug/Kg		12/27/12 14:17	12/29/12 20:09	50
Endrin ketone	ND		98		ug/Kg		12/27/12 14:17	12/29/12 20:09	50
Heptachlor	ND		98		ug/Kg		12/27/12 14:17	12/29/12 20:09	50
Heptachlor epoxide	ND		98		ug/Kg		12/27/12 14:17	12/29/12 20:09	50
4,4'-DDT	ND		98		ug/Kg		12/27/12 14:17	12/29/12 20:09	50
4,4'-DDE	**1400**		98		ug/Kg		12/27/12 14:17	12/29/12 20:09	50
4,4'-DDD	**320**		98		ug/Kg		12/27/12 14:17	12/29/12 20:09	50
Endosulfan I	ND		98		ug/Kg		12/27/12 14:17	12/29/12 20:09	50
Endosulfan II	ND		98		ug/Kg		12/27/12 14:17	12/29/12 20:09	50
alpha-BHC	ND		98		ug/Kg		12/27/12 14:17	12/29/12 20:09	50
beta-BHC	ND		98		ug/Kg		12/27/12 14:17	12/29/12 20:09	50
gamma-BHC (Lindane)	ND		98		ug/Kg		12/27/12 14:17	12/29/12 20:09	50
delta-BHC	ND		98		ug/Kg		12/27/12 14:17	12/29/12 20:09	50
Endosulfan sulfate	ND		98		ug/Kg		12/27/12 14:17	12/29/12 20:09	50
Methoxychlor	ND		98		ug/Kg		12/27/12 14:17	12/29/12 20:09	50
Toxaphene	ND		2000		ug/Kg		12/27/12 14:17	12/29/12 20:09	50
Chlordane (technical)	ND		2000		ug/Kg		12/27/12 14:17	12/29/12 20:09	50
alpha-Chlordane	ND		98		ug/Kg		12/27/12 14:17	12/29/12 20:09	50
gamma-Chlordane	ND		98		ug/Kg		12/27/12 14:17	12/29/12 20:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X*	*57 - 122*	*12/27/12 14:17*	*12/29/12 20:09*	*50*
DCB Decachlorobiphenyl	*0*	*X*	*21 - 136*	*12/27/12 14:17*	*12/29/12 20:09*	*50*

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-2 (2 1/2-3)
Date Collected: 12/21/12 13:20
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-24
Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		12/27/12 14:25	01/01/13 01:47	1
PCB-1221	ND		49		ug/Kg		12/27/12 14:25	01/01/13 01:47	1
PCB-1232	ND		49		ug/Kg		12/27/12 14:25	01/01/13 01:47	1
PCB-1242	ND		49		ug/Kg		12/27/12 14:25	01/01/13 01:47	1
PCB-1248	ND		49		ug/Kg		12/27/12 14:25	01/01/13 01:47	1
PCB-1254	ND		49		ug/Kg		12/27/12 14:25	01/01/13 01:47	1
PCB-1260	ND		49		ug/Kg		12/27/12 14:25	01/01/13 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*112*		*32 - 112*	*12/27/12 14:25*	*01/01/13 01:47*	*1*
DCB Decachlorobiphenyl	*109*		*2 - 122*	*12/27/12 14:25*	*01/01/13 01:47*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**28**		2.0		mg/Kg		12/27/12 18:22	12/28/12 09:45	4
Arsenic	**12**		4.0		mg/Kg		12/27/12 18:22	12/28/12 19:45	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**3.5**		0.090		mg/Kg		12/26/12 09:16	12/26/12 14:47	10

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-2 (4 1/2-5)
Date Collected: 12/21/12 13:25
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-25
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Acetone	ND		41		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Benzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Dichlorobromomethane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Bromobenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Chlorobromomethane	ND		17		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Bromoform	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Bromomethane	ND		8.3		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
2-Butanone (MEK)	ND		41		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
n-Butylbenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
sec-Butylbenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
tert-Butylbenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Carbon disulfide	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Carbon tetrachloride	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Chlorobenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Chloroethane	ND		8.3		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Chloroform	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Chloromethane	ND		8.3		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
2-Chlorotoluene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
4-Chlorotoluene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Chlorodibromomethane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
1,2-Dichlorobenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
1,3-Dichlorobenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
1,4-Dichlorobenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
1,3-Dichloropropane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
1,1-Dichloropropene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
1,2-Dibromo-3-Chloropropane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Ethylene Dibromide	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Dibromomethane	ND		8.3		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Dichlorodifluoromethane	ND		8.3		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
1,1-Dichloroethane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
1,2-Dichloroethane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
1,1-Dichloroethene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
cis-1,2-Dichloroethene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
trans-1,2-Dichloroethene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
1,2-Dichloropropane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
cis-1,3-Dichloropropene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
trans-1,3-Dichloropropene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Ethylbenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Hexachlorobutadiene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
2-Hexanone	ND		41		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Isopropylbenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
4-Isopropyltoluene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Methylene Chloride	ND		8.3		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
4-Methyl-2-pentanone (MIBK)	ND		41		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Naphthalene	ND		8.3		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
N-Propylbenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Styrene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
1,1,1,2-Tetrachloroethane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1

Client Sample ID: SB-2 (4 1/2-5)
Date Collected: 12/21/12 13:25
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-25
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Tetrachloroethene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Toluene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
1,2,3-Trichlorobenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
1,2,4-Trichlorobenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
1,1,1-Trichloroethane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
1,1,2-Trichloroethane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Trichloroethene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Trichlorofluoromethane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
1,2,3-Trichloropropane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
1,2,4-Trimethylbenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
1,3,5-Trimethylbenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Vinyl acetate	ND		41		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Vinyl chloride	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Xylenes, Total	ND		8.3		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
2,2-Dichloropropane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:15	1
Gasoline Range Organics (GRO) -C5-C12	ND		210		ug/Kg		12/22/12 12:00	12/24/12 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*66*		*45 - 131*	*12/22/12 12:00*	*12/24/12 13:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*60 - 140*	*12/22/12 12:00*	*12/24/12 13:15*	*1*
Toluene-d8 (Surr)	*90*		*58 - 140*	*12/22/12 12:00*	*12/24/12 13:15*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Bis(2-chloroethyl)ether	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
2-Chlorophenol	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
1,3-Dichlorobenzene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
1,4-Dichlorobenzene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Benzyl alcohol	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
1,2-Dichlorobenzene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
2-Methylphenol	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Methylphenol, 3 & 4	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
N-Nitrosodi-n-propylamine	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Hexachloroethane	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Nitrobenzene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Isophorone	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
2-Nitrophenol	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
2,4-Dimethylphenol	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
1,2,4-Trichlorobenzene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Naphthalene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
4-Chloroaniline	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Hexachlorobutadiene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
2-Methylnaphthalene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-2 (4 1/2-5)
Date Collected: 12/21/12 13:25
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-25
Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
2,4,6-Trichlorophenol	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
2,4,5-Trichlorophenol	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
2-Chloronaphthalene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
2-Nitroaniline	ND		0.33		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Dimethyl phthalate	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Acenaphthylene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
3-Nitroaniline	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Acenaphthene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
2,4-Dinitrophenol	ND		0.65		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
4-Nitrophenol	ND		0.33		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Dibenzofuran	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
2,4-Dinitrotoluene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
2,6-Dinitrotoluene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Diethyl phthalate	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Fluorene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
4-Nitroaniline	ND		0.33		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
2-Methyl-4,6-dinitrophenol	ND		0.33		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
N-Nitrosodiphenylamine	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Hexachlorobenzene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Pentachlorophenol	ND		0.65		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Phenanthrene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Anthracene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Di-n-butyl phthalate	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Fluoranthene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Pyrene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
3,3'-Dichlorobenzidine	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Benzo[a]anthracene	ND		0.33		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Chrysene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Benzo[b]fluoranthene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Benzo[a]pyrene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Benzo[k]fluoranthene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Indeno[1,2,3-cd]pyrene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Benzo[g,h,i]perylene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Benzoic acid	ND		0.33		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Azobenzene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1
Dibenz(a,h)anthracene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*73*		*21 - 98*	*12/27/12 19:01*	*01/03/13 13:29*	*1*
2-Fluorobiphenyl	*78*		*30 - 112*	*12/27/12 19:01*	*01/03/13 13:29*	*1*
Terphenyl-d14	*76*		*32 - 117*	*12/27/12 19:01*	*01/03/13 13:29*	*1*
2-Fluorophenol	*67*		*28 - 98*	*12/27/12 19:01*	*01/03/13 13:29*	*1*
Phenol-d5	*72*		*23 - 101*	*12/27/12 19:01*	*01/03/13 13:29*	*1*
2,4,6-Tribromophenol	*79*		*37 - 114*	*12/27/12 19:01*	*01/03/13 13:29*	*1*

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-2 (4 1/2-5)
Date Collected: 12/21/12 13:25
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-25
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		12/27/12 14:54	12/29/12 00:31	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/27/12 14:54	12/29/12 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.04*		*0 - 1*	*12/27/12 14:54*	*12/29/12 00:31*	*1*
p-Terphenyl	*97*		*38 - 148*	*12/27/12 14:54*	*12/29/12 00:31*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 19:53	1
Dieldrin	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 19:53	1
Endrin aldehyde	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 19:53	1
Endrin	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 19:53	1
Endrin ketone	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 19:53	1
Heptachlor	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 19:53	1
Heptachlor epoxide	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 19:53	1
4,4'-DDT	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 19:53	1
4,4'-DDE	**8.0**		2.0		ug/Kg		12/27/12 14:17	12/29/12 19:53	1
4,4'-DDD	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 19:53	1
Endosulfan I	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 19:53	1
Endosulfan II	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 19:53	1
alpha-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 19:53	1
beta-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 19:53	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 19:53	1
delta-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 19:53	1
Endosulfan sulfate	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 19:53	1
Methoxychlor	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 19:53	1
Toxaphene	ND		40		ug/Kg		12/27/12 14:17	12/29/12 19:53	1
Chlordane (technical)	ND		40		ug/Kg		12/27/12 14:17	12/29/12 19:53	1
alpha-Chlordane	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 19:53	1
gamma-Chlordane	ND		2.0		ug/Kg		12/27/12 14:17	12/29/12 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*57 - 122*	*12/27/12 14:17*	*12/29/12 19:53*	*1*
DCB Decachlorobiphenyl	*120*		*21 - 136*	*12/27/12 14:17*	*12/29/12 19:53*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		12/27/12 14:25	01/01/13 02:05	1
PCB-1221	ND		50		ug/Kg		12/27/12 14:25	01/01/13 02:05	1
PCB-1232	ND		50		ug/Kg		12/27/12 14:25	01/01/13 02:05	1
PCB-1242	ND		50		ug/Kg		12/27/12 14:25	01/01/13 02:05	1
PCB-1248	ND		50		ug/Kg		12/27/12 14:25	01/01/13 02:05	1
PCB-1254	ND		50		ug/Kg		12/27/12 14:25	01/01/13 02:05	1
PCB-1260	ND		50		ug/Kg		12/27/12 14:25	01/01/13 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*32 - 112*	*12/27/12 14:25*	*01/01/13 02:05*	*1*
DCB Decachlorobiphenyl	*122*		*2 - 122*	*12/27/12 14:25*	*01/01/13 02:05*	*1*

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-2 (4 1/2-5)
Date Collected: 12/21/12 13:25
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-25
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		mg/Kg		12/27/12 18:22	12/28/12 19:54	4
Arsenic	**8.4**		3.9		mg/Kg		12/27/12 18:22	12/28/12 19:54	4
Barium	**320**		2.0		mg/Kg		12/27/12 18:22	12/28/12 09:54	4
Beryllium	**0.63**		0.39		mg/Kg		12/27/12 18:22	12/28/12 19:54	4
Cadmium	ND		0.49		mg/Kg		12/27/12 18:22	12/28/12 09:54	4
Chromium	**69**		2.0		mg/Kg		12/27/12 18:22	12/28/12 19:54	4
Cobalt	**15**		0.78		mg/Kg		12/27/12 18:22	12/28/12 19:54	4
Copper	**41**		5.9		mg/Kg		12/27/12 18:22	12/28/12 19:54	4
Lead	**11**		2.0		mg/Kg		12/27/12 18:22	12/28/12 09:54	4
Molybdenum	ND		2.0		mg/Kg		12/27/12 18:22	12/28/12 09:54	4
Nickel	**97**		2.0		mg/Kg		12/27/12 18:22	12/28/12 09:54	4
Selenium	ND		3.9		mg/Kg		12/27/12 18:22	12/28/12 09:54	4
Silver	ND		0.98		mg/Kg		12/27/12 18:22	12/28/12 09:54	4
Thallium	ND		2.0		mg/Kg		12/27/12 18:22	12/28/12 09:54	4
Vanadium	**64**		2.0		mg/Kg		12/27/12 18:22	12/28/12 09:54	4
Zinc	**67**		5.9		mg/Kg		12/27/12 18:22	12/28/12 19:54	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.092**		0.0086		mg/Kg		12/26/12 09:16	12/26/12 13:59	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-127622/1-A
Matrix: Solid
Analysis Batch: 127610

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127622

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Acetone	ND		50		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Benzene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Dichlorobromomethane	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Bromobenzene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Chlorobromomethane	ND		20		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Bromoform	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Bromomethane	ND		10		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
2-Butanone (MEK)	ND		50		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
n-Butylbenzene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
sec-Butylbenzene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
tert-Butylbenzene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Carbon disulfide	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Carbon tetrachloride	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Chlorobenzene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Chloroethane	ND		10		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Chloroform	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Chloromethane	ND		10		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
2-Chlorotoluene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
4-Chlorotoluene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Chlorodibromomethane	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
1,3-Dichloropropane	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
1,1-Dichloropropene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Ethylene Dibromide	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Dibromomethane	ND		10		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Dichlorodifluoromethane	ND		10		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
1,1-Dichloroethane	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
1,2-Dichloroethane	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
1,1-Dichloroethene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
1,2-Dichloropropane	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Ethylbenzene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Hexachlorobutadiene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
2-Hexanone	ND		50		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Isopropylbenzene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
4-Isopropyltoluene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Methylene Chloride	ND		10		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Naphthalene	ND		10		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
N-Propylbenzene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Styrene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-127622/1-A
Matrix: Solid
Analysis Batch: 127610

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127622

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Tetrachloroethene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Toluene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Trichloroethene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Trichlorofluoromethane	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Vinyl acetate	ND		50		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Vinyl chloride	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Xylenes, Total	ND		10		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
2,2-Dichloropropane	ND		5.0		ug/Kg		12/22/12 11:00	12/22/12 12:14	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		12/22/12 11:00	12/22/12 12:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*45 - 131*	*12/22/12 11:00*	*12/22/12 12:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*	*12/22/12 11:00*	*12/22/12 12:14*	*1*
Toluene-d8 (Surr)	*99*		*58 - 140*	*12/22/12 11:00*	*12/22/12 12:14*	*1*

Lab Sample ID: LCS 720-127622/2-A
Matrix: Solid
Analysis Batch: 127610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127622

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	48.9		ug/Kg		98	70 - 144
Acetone	250	275		ug/Kg		110	30 - 162
Benzene	50.0	47.3		ug/Kg		95	70 - 130
Dichlorobromomethane	50.0	48.7		ug/Kg		97	70 - 131
Bromobenzene	50.0	48.2		ug/Kg		96	70 - 130
Chlorobromomethane	50.0	50.9		ug/Kg		102	70 - 130
Bromoform	50.0	47.9		ug/Kg		96	59 - 158
Bromomethane	50.0	46.8		ug/Kg		94	59 - 132
2-Butanone (MEK)	250	224		ug/Kg		89	53 - 124
n-Butylbenzene	50.0	50.6		ug/Kg		101	70 - 142
sec-Butylbenzene	50.0	46.0		ug/Kg		92	70 - 136
tert-Butylbenzene	50.0	48.0		ug/Kg		96	70 - 130
Carbon disulfide	50.0	45.3		ug/Kg		91	60 - 140
Carbon tetrachloride	50.0	50.6		ug/Kg		101	70 - 138
Chlorobenzene	50.0	47.2		ug/Kg		94	70 - 130
Chloroethane	50.0	47.1		ug/Kg		94	65 - 130
Chloroform	50.0	48.0		ug/Kg		96	77 - 127

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-127622/2-A
Matrix: Solid
Analysis Batch: 127610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127622

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	40.7		ug/Kg		81	55 - 140
2-Chlorotoluene	50.0	52.9		ug/Kg		106	70 - 138
4-Chlorotoluene	50.0	51.5		ug/Kg		103	70 - 136
Chlorodibromomethane	50.0	52.8		ug/Kg		106	70 - 146
1,2-Dichlorobenzene	50.0	46.7		ug/Kg		93	70 - 130
1,3-Dichlorobenzene	50.0	48.4		ug/Kg		97	70 - 131
1,4-Dichlorobenzene	50.0	46.9		ug/Kg		94	70 - 130
1,3-Dichloropropane	50.0	49.0		ug/Kg		98	70 - 140
1,1-Dichloropropene	50.0	52.0		ug/Kg		104	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	50.7		ug/Kg		101	60 - 145
Ethylene Dibromide	50.0	52.0		ug/Kg		104	70 - 140
Dibromomethane	50.0	48.8		ug/Kg		98	70 - 139
Dichlorodifluoromethane	50.0	39.1		ug/Kg		78	37 - 158
1,1-Dichloroethane	50.0	47.6		ug/Kg		95	70 - 130
1,2-Dichloroethane	50.0	49.0		ug/Kg		98	70 - 130
1,1-Dichloroethene	50.0	49.1		ug/Kg		98	76 - 122
cis-1,2-Dichloroethene	50.0	51.5		ug/Kg		103	70 - 138
trans-1,2-Dichloroethene	50.0	47.9		ug/Kg		96	67 - 130
1,2-Dichloropropane	50.0	49.1		ug/Kg		98	73 - 127
cis-1,3-Dichloropropene	50.0	51.3		ug/Kg		103	68 - 147
trans-1,3-Dichloropropene	50.0	53.5		ug/Kg		107	70 - 136
Ethylbenzene	50.0	49.0		ug/Kg		98	80 - 137
Hexachlorobutadiene	50.0	50.4		ug/Kg		101	70 - 132
2-Hexanone	250	242		ug/Kg		97	44 - 133
Isopropylbenzene	50.0	50.0		ug/Kg		100	88 - 128
4-Isopropyltoluene	50.0	48.3		ug/Kg		97	70 - 133
Methylene Chloride	50.0	47.3		ug/Kg		95	70 - 134
4-Methyl-2-pentanone (MIBK)	250	250		ug/Kg		100	60 - 160
Naphthalene	50.0	54.7		ug/Kg		109	60 - 147
N-Propylbenzene	50.0	48.4		ug/Kg		97	70 - 130
Styrene	50.0	50.6		ug/Kg		101	70 - 130
1,1,1,2-Tetrachloroethane	50.0	48.0		ug/Kg		96	70 - 130
1,1,2,2-Tetrachloroethane	50.0	44.8		ug/Kg		90	70 - 146
Tetrachloroethene	50.0	52.0		ug/Kg		104	70 - 132
Toluene	50.0	46.6		ug/Kg		93	80 - 128
1,2,3-Trichlorobenzene	50.0	47.7		ug/Kg		95	60 - 140
1,2,4-Trichlorobenzene	50.0	53.6		ug/Kg		107	60 - 140
1,1,1-Trichloroethane	50.0	49.7		ug/Kg		99	70 - 130
1,1,2-Trichloroethane	50.0	49.5		ug/Kg		99	70 - 130
Trichloroethene	50.0	48.7		ug/Kg		97	70 - 133
Trichlorofluoromethane	50.0	51.7		ug/Kg		103	60 - 140
1,2,3-Trichloropropane	50.0	49.5		ug/Kg		99	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.5		ug/Kg		97	60 - 140
1,2,4-Trimethylbenzene	50.0	48.3		ug/Kg		97	70 - 130
1,3,5-Trimethylbenzene	50.0	47.3		ug/Kg		95	70 - 131
Vinyl acetate	50.0	56.8		ug/Kg		114	38 - 176
Vinyl chloride	50.0	42.1		ug/Kg		84	58 - 125

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-127622/2-A
Matrix: Solid
Analysis Batch: 127610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127622

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	100	106		ug/Kg		106	70 - 146
o-Xylene	50.0	49.0		ug/Kg		98	70 - 140
2,2-Dichloropropane	50.0	56.8		ug/Kg		114	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*110*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*108*		*58 - 140*

Lab Sample ID: LCS 720-127622/4-A
Matrix: Solid
Analysis Batch: 127610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127622

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1070		ug/Kg		107	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 140*
Toluene-d8 (Surr)	*113*		*58 - 140*

Lab Sample ID: LCSD 720-127622/3-A
Matrix: Solid
Analysis Batch: 127610

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127622

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	51.3		ug/Kg		103	70 - 144	5	20
Acetone	250	263		ug/Kg		105	30 - 162	5	30
Benzene	50.0	47.1		ug/Kg		94	70 - 130	0	20
Dichlorobromomethane	50.0	49.0		ug/Kg		98	70 - 131	1	20
Bromobenzene	50.0	49.5		ug/Kg		99	70 - 130	3	20
Chlorobromomethane	50.0	51.3		ug/Kg		103	70 - 130	1	20
Bromoform	50.0	50.6		ug/Kg		101	59 - 158	6	20
Bromomethane	50.0	46.2		ug/Kg		92	59 - 132	1	20
2-Butanone (MEK)	250	248		ug/Kg		99	53 - 124	10	20
n-Butylbenzene	50.0	50.6		ug/Kg		101	70 - 142	0	20
sec-Butylbenzene	50.0	46.1		ug/Kg		92	70 - 136	0	20
tert-Butylbenzene	50.0	48.4		ug/Kg		97	70 - 130	1	20
Carbon disulfide	50.0	44.3		ug/Kg		89	60 - 140	2	20
Carbon tetrachloride	50.0	49.7		ug/Kg		99	70 - 138	2	20
Chlorobenzene	50.0	46.3		ug/Kg		93	70 - 130	2	20
Chloroethane	50.0	46.7		ug/Kg		93	65 - 130	1	20
Chloroform	50.0	47.8		ug/Kg		96	77 - 127	0	20
Chloromethane	50.0	41.4		ug/Kg		83	55 - 140	2	20
2-Chlorotoluene	50.0	51.7		ug/Kg		103	70 - 138	2	20
4-Chlorotoluene	50.0	50.6		ug/Kg		101	70 - 136	2	20
Chlorodibromomethane	50.0	56.5		ug/Kg		113	70 - 146	7	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-127622/3-A
Matrix: Solid
Analysis Batch: 127610

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127622

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene			50.0	47.7		ug/Kg		95	70 - 130	2	20
1,3-Dichlorobenzene			50.0	48.4		ug/Kg		97	70 - 131	0	20
1,4-Dichlorobenzene			50.0	46.7		ug/Kg		93	70 - 130	0	20
1,3-Dichloropropane			50.0	50.6		ug/Kg		101	70 - 140	3	20
1,1-Dichloropropene			50.0	52.0		ug/Kg		104	70 - 130	0	20
1,2-Dibromo-3-Chloropropane			50.0	54.3		ug/Kg		109	60 - 145	7	20
Ethylene Dibromide			50.0	54.1		ug/Kg		108	70 - 140	4	20
Dibromomethane			50.0	49.2		ug/Kg		98	70 - 139	1	20
Dichlorodifluoromethane			50.0	38.0		ug/Kg		76	37 - 158	3	20
1,1-Dichloroethane			50.0	47.4		ug/Kg		95	70 - 130	0	20
1,2-Dichloroethane			50.0	49.9		ug/Kg		100	70 - 130	2	20
1,1-Dichloroethene			50.0	46.9		ug/Kg		94	76 - 122	4	20
cis-1,2-Dichloroethene			50.0	51.2		ug/Kg		102	70 - 138	1	20
trans-1,2-Dichloroethene			50.0	47.3		ug/Kg		95	67 - 130	1	20
1,2-Dichloropropane			50.0	49.5		ug/Kg		99	73 - 127	1	20
cis-1,3-Dichloropropene			50.0	52.2		ug/Kg		104	68 - 147	2	20
trans-1,3-Dichloropropene			50.0	55.3		ug/Kg		111	70 - 136	3	20
Ethylbenzene			50.0	47.8		ug/Kg		96	80 - 137	3	20
Hexachlorobutadiene			50.0	49.7		ug/Kg		99	70 - 132	1	20
2-Hexanone			250	273		ug/Kg		109	44 - 133	12	20
Isopropylbenzene			50.0	48.8		ug/Kg		98	88 - 128	2	20
4-Isopropyltoluene			50.0	48.1		ug/Kg		96	70 - 133	0	20
Methylene Chloride			50.0	47.2		ug/Kg		94	70 - 134	0	20
4-Methyl-2-pentanone (MIBK)			250	270		ug/Kg		108	60 - 160	8	20
Naphthalene			50.0	58.5		ug/Kg		117	60 - 147	7	20
N-Propylbenzene			50.0	48.4		ug/Kg		97	70 - 130	0	20
Styrene			50.0	50.4		ug/Kg		101	70 - 130	0	20
1,1,1,2-Tetrachloroethane			50.0	48.5		ug/Kg		97	70 - 130	1	20
1,1,2,2-Tetrachloroethane			50.0	46.9		ug/Kg		94	70 - 146	5	20
Tetrachloroethene			50.0	51.4		ug/Kg		103	70 - 132	1	20
Toluene			50.0	45.4		ug/Kg		91	80 - 128	3	20
1,2,3-Trichlorobenzene			50.0	49.3		ug/Kg		99	60 - 140	3	20
1,2,4-Trichlorobenzene			50.0	54.2		ug/Kg		108	60 - 140	1	20
1,1,1-Trichloroethane			50.0	49.1		ug/Kg		98	70 - 130	1	20
1,1,2-Trichloroethane			50.0	51.1		ug/Kg		102	70 - 130	3	20
Trichloroethene			50.0	48.7		ug/Kg		97	70 - 133	0	20
Trichlorofluoromethane			50.0	46.3		ug/Kg		93	60 - 140	11	20
1,2,3-Trichloropropane			50.0	51.6		ug/Kg		103	70 - 146	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	48.1		ug/Kg		96	60 - 140	1	20
1,2,4-Trimethylbenzene			50.0	48.2		ug/Kg		96	70 - 130	0	20
1,3,5-Trimethylbenzene			50.0	48.0		ug/Kg		96	70 - 131	1	20
Vinyl acetate			50.0	58.8		ug/Kg		118	38 - 176	3	20
Vinyl chloride			50.0	40.5		ug/Kg		81	58 - 125	4	20
m-Xylene & p-Xylene			100	103		ug/Kg		103	70 - 146	3	20
o-Xylene			50.0	47.9		ug/Kg		96	70 - 140	2	20
2,2-Dichloropropane			50.0	55.6		ug/Kg		111	70 - 162	2	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-127622/3-A
Matrix: Solid
Analysis Batch: 127610

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127622

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*107*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*109*		*58 - 140*

Lab Sample ID: LCSD 720-127622/5-A
Matrix: Solid
Analysis Batch: 127610

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127622

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1060		ug/Kg		106	61 - 128	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*101*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*
Toluene-d8 (Surr)	*111*		*58 - 140*

Lab Sample ID: MB 720-127656/1-A
Matrix: Solid
Analysis Batch: 127638

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127656

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Acetone	ND		50		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Benzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Dichlorobromomethane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Bromobenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Chlorobromomethane	ND		20		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Bromoform	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Bromomethane	ND		10		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
2-Butanone (MEK)	ND		50		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
n-Butylbenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
sec-Butylbenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
tert-Butylbenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Carbon disulfide	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Carbon tetrachloride	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Chlorobenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Chloroethane	ND		10		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Chloroform	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Chloromethane	ND		10		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
2-Chlorotoluene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
4-Chlorotoluene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Chlorodibromomethane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,3-Dichloropropane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,1-Dichloropropene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-127656/1-A
Matrix: Solid
Analysis Batch: 127638

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127656

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Ethylene Dibromide	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Dibromomethane	ND		10		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Dichlorodifluoromethane	ND		10		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,1-Dichloroethane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,2-Dichloroethane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,1-Dichloroethene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,2-Dichloropropane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Ethylbenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Hexachlorobutadiene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
2-Hexanone	ND		50		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Isopropylbenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
4-Isopropyltoluene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Methylene Chloride	ND		10		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Naphthalene	ND		10		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
N-Propylbenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Styrene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Tetrachloroethene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Toluene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Trichloroethene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Trichlorofluoromethane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Vinyl acetate	ND		50		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Vinyl chloride	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Xylenes, Total	ND		10		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
2,2-Dichloropropane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		12/24/12 09:00	12/24/12 09:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*45 - 131*	*12/24/12 09:00*	*12/24/12 09:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*	*12/24/12 09:00*	*12/24/12 09:21*	*1*
Toluene-d8 (Surr)	*97*		*58 - 140*	*12/24/12 09:00*	*12/24/12 09:21*	*1*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-127656/2-A
Matrix: Solid
Analysis Batch: 127638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	52.4		ug/Kg		105	70 - 144
Acetone	250	285		ug/Kg		114	30 - 162
Benzene	50.0	51.0		ug/Kg		102	70 - 130
Dichlorobromomethane	50.0	52.1		ug/Kg		104	70 - 131
Bromobenzene	50.0	52.0		ug/Kg		104	70 - 130
Chlorobromomethane	50.0	57.0		ug/Kg		114	70 - 130
Bromoform	50.0	54.4		ug/Kg		109	59 - 158
Bromomethane	50.0	43.7		ug/Kg		87	59 - 132
2-Butanone (MEK)	250	238		ug/Kg		95	53 - 124
n-Butylbenzene	50.0	53.5		ug/Kg		107	70 - 142
sec-Butylbenzene	50.0	48.4		ug/Kg		97	70 - 136
tert-Butylbenzene	50.0	51.2		ug/Kg		102	70 - 130
Carbon disulfide	50.0	48.6		ug/Kg		97	60 - 140
Carbon tetrachloride	50.0	53.0		ug/Kg		106	70 - 138
Chlorobenzene	50.0	50.0		ug/Kg		100	70 - 130
Chloroethane	50.0	44.6		ug/Kg		89	65 - 130
Chloroform	50.0	52.1		ug/Kg		104	77 - 127
Chloromethane	50.0	39.1		ug/Kg		78	55 - 140
2-Chlorotoluene	50.0	56.7		ug/Kg		113	70 - 138
4-Chlorotoluene	50.0	56.0		ug/Kg		112	70 - 136
Chlorodibromomethane	50.0	54.1		ug/Kg		108	70 - 146
1,2-Dichlorobenzene	50.0	49.1		ug/Kg		98	70 - 130
1,3-Dichlorobenzene	50.0	50.8		ug/Kg		102	70 - 131
1,4-Dichlorobenzene	50.0	49.1		ug/Kg		98	70 - 130
1,3-Dichloropropane	50.0	50.5		ug/Kg		101	70 - 140
1,1-Dichloropropene	50.0	55.5		ug/Kg		111	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	53.5		ug/Kg		107	60 - 145
Ethylene Dibromide	50.0	52.3		ug/Kg		105	70 - 140
Dibromomethane	50.0	53.0		ug/Kg		106	70 - 139
Dichlorodifluoromethane	50.0	33.0		ug/Kg		66	37 - 158
1,1-Dichloroethane	50.0	53.6		ug/Kg		107	70 - 130
1,2-Dichloroethane	50.0	54.9		ug/Kg		110	70 - 130
1,1-Dichloroethene	50.0	52.7		ug/Kg		105	76 - 122
cis-1,2-Dichloroethene	50.0	57.6		ug/Kg		115	70 - 138
trans-1,2-Dichloroethene	50.0	52.0		ug/Kg		104	67 - 130
1,2-Dichloropropane	50.0	53.3		ug/Kg		107	73 - 127
cis-1,3-Dichloropropene	50.0	55.2		ug/Kg		110	68 - 147
trans-1,3-Dichloropropene	50.0	56.7		ug/Kg		113	70 - 136
Ethylbenzene	50.0	52.4		ug/Kg		105	80 - 137
Hexachlorobutadiene	50.0	49.4		ug/Kg		99	70 - 132
2-Hexanone	250	245		ug/Kg		98	44 - 133
Isopropylbenzene	50.0	53.3		ug/Kg		107	88 - 128
4-Isopropyltoluene	50.0	50.6		ug/Kg		101	70 - 133
Methylene Chloride	50.0	52.5		ug/Kg		105	70 - 134
4-Methyl-2-pentanone (MIBK)	250	265		ug/Kg		106	60 - 160
Naphthalene	50.0	57.5		ug/Kg		115	60 - 147
N-Propylbenzene	50.0	52.3		ug/Kg		105	70 - 130
Styrene	50.0	54.0		ug/Kg		108	70 - 130

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-127656/2-A
Matrix: Solid
Analysis Batch: 127638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127656

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1,2-Tetrachloroethane			50.0	51.5		ug/Kg		103	70 - 130		
1,1,2,2-Tetrachloroethane			50.0	50.0		ug/Kg		100	70 - 146		
Tetrachloroethene			50.0	49.3		ug/Kg		99	70 - 132		
Toluene			50.0	49.3		ug/Kg		99	80 - 128		
1,2,3-Trichlorobenzene			50.0	49.0		ug/Kg		98	60 - 140		
1,2,4-Trichlorobenzene			50.0	54.0		ug/Kg		108	60 - 140		
1,1,1-Trichloroethane			50.0	53.7		ug/Kg		107	70 - 130		
1,1,2-Trichloroethane			50.0	51.0		ug/Kg		102	70 - 130		
Trichloroethene			50.0	50.8		ug/Kg		102	70 - 133		
Trichlorofluoromethane			50.0	48.7		ug/Kg		97	60 - 140		
1,2,3-Trichloropropane			50.0	54.1		ug/Kg		108	70 - 146		
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	51.8		ug/Kg		104	60 - 140		
1,2,4-Trimethylbenzene			50.0	49.9		ug/Kg		100	70 - 130		
1,3,5-Trimethylbenzene			50.0	51.2		ug/Kg		102	70 - 131		
Vinyl acetate			50.0	62.7		ug/Kg		125	38 - 176		
Vinyl chloride			50.0	39.2		ug/Kg		78	58 - 125		
m-Xylene & p-Xylene			100	113		ug/Kg		113	70 - 146		
o-Xylene			50.0	52.8		ug/Kg		106	70 - 140		
2,2-Dichloropropane			50.0	65.4		ug/Kg		131	70 - 162		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*112*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*
Toluene-d8 (Surr)	*99*		*58 - 140*

Lab Sample ID: LCS 720-127656/4-A
Matrix: Solid
Analysis Batch: 127638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127656

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			1000	1130		ug/Kg		113	61 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*
Toluene-d8 (Surr)	*113*		*58 - 140*

Lab Sample ID: LCSD 720-127656/3-A
Matrix: Solid
Analysis Batch: 127638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127656

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether			50.0	53.8		ug/Kg		108	70 - 144	3	20
Acetone			250	262		ug/Kg		105	30 - 162	9	30
Benzene			50.0	51.3		ug/Kg		103	70 - 130	1	20
Dichlorobromomethane			50.0	52.4		ug/Kg		105	70 - 131	1	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-127656/3-A
Matrix: Solid
Analysis Batch: 127638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127656

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene			50.0	53.2		ug/Kg		106	70 - 130	2	20
Chlorobromomethane			50.0	56.9		ug/Kg		114	70 - 130	0	20
Bromoform			50.0	55.6		ug/Kg		111	59 - 158	2	20
Bromomethane			50.0	44.6		ug/Kg		89	59 - 132	2	20
2-Butanone (MEK)			250	253		ug/Kg		101	53 - 124	6	20
n-Butylbenzene			50.0	53.8		ug/Kg		108	70 - 142	1	20
sec-Butylbenzene			50.0	49.8		ug/Kg		100	70 - 136	3	20
tert-Butylbenzene			50.0	52.2		ug/Kg		104	70 - 130	2	20
Carbon disulfide			50.0	48.5		ug/Kg		97	60 - 140	0	20
Carbon tetrachloride			50.0	53.8		ug/Kg		108	70 - 138	2	20
Chlorobenzene			50.0	50.0		ug/Kg		100	70 - 130	0	20
Chloroethane			50.0	44.8		ug/Kg		90	65 - 130	1	20
Chloroform			50.0	51.6		ug/Kg		103	77 - 127	1	20
Chloromethane			50.0	38.7		ug/Kg		77	55 - 140	1	20
2-Chlorotoluene			50.0	55.8		ug/Kg		112	70 - 138	2	20
4-Chlorotoluene			50.0	55.7		ug/Kg		111	70 - 136	1	20
Chlorodibromomethane			50.0	54.1		ug/Kg		108	70 - 146	0	20
1,2-Dichlorobenzene			50.0	50.4		ug/Kg		101	70 - 130	3	20
1,3-Dichlorobenzene			50.0	52.5		ug/Kg		105	70 - 131	3	20
1,4-Dichlorobenzene			50.0	50.3		ug/Kg		101	70 - 130	2	20
1,3-Dichloropropane			50.0	49.4		ug/Kg		99	70 - 140	2	20
1,1-Dichloropropene			50.0	54.4		ug/Kg		109	70 - 130	2	20
1,2-Dibromo-3-Chloropropane			50.0	57.6		ug/Kg		115	60 - 145	7	20
Ethylene Dibromide			50.0	53.6		ug/Kg		107	70 - 140	2	20
Dibromomethane			50.0	52.0		ug/Kg		104	70 - 139	2	20
Dichlorodifluoromethane			50.0	33.4		ug/Kg		67	37 - 158	1	20
1,1-Dichloroethane			50.0	52.8		ug/Kg		106	70 - 130	1	20
1,2-Dichloroethane			50.0	51.3		ug/Kg		103	70 - 130	7	20
1,1-Dichloroethene			50.0	53.4		ug/Kg		107	76 - 122	1	20
cis-1,2-Dichloroethene			50.0	56.7		ug/Kg		113	70 - 138	2	20
trans-1,2-Dichloroethene			50.0	53.4		ug/Kg		107	67 - 130	3	20
1,2-Dichloropropane			50.0	52.5		ug/Kg		105	73 - 127	1	20
cis-1,3-Dichloropropene			50.0	51.9		ug/Kg		104	68 - 147	6	20
trans-1,3-Dichloropropene			50.0	54.9		ug/Kg		110	70 - 136	3	20
Ethylbenzene			50.0	51.7		ug/Kg		103	80 - 137	1	20
Hexachlorobutadiene			50.0	51.8		ug/Kg		104	70 - 132	5	20
2-Hexanone			250	245		ug/Kg		98	44 - 133	0	20
Isopropylbenzene			50.0	53.3		ug/Kg		107	88 - 128	0	20
4-Isopropyltoluene			50.0	51.6		ug/Kg		103	70 - 133	2	20
Methylene Chloride			50.0	52.7		ug/Kg		105	70 - 134	0	20
4-Methyl-2-pentanone (MIBK)			250	255		ug/Kg		102	60 - 160	4	20
Naphthalene			50.0	58.9		ug/Kg		118	60 - 147	2	20
N-Propylbenzene			50.0	52.5		ug/Kg		105	70 - 130	0	20
Styrene			50.0	54.2		ug/Kg		108	70 - 130	0	20
1,1,1,2-Tetrachloroethane			50.0	53.1		ug/Kg		106	70 - 130	3	20
1,1,2,2-Tetrachloroethane			50.0	51.5		ug/Kg		103	70 - 146	3	20
Tetrachloroethene			50.0	50.6		ug/Kg		101	70 - 132	3	20
Toluene			50.0	48.7		ug/Kg		97	80 - 128	1	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-127656/3-A
Matrix: Solid
Analysis Batch: 127638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127656

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene			50.0	50.2		ug/Kg		100	60 - 140	2	20
1,2,4-Trichlorobenzene			50.0	55.0		ug/Kg		110	60 - 140	2	20
1,1,1-Trichloroethane			50.0	52.0		ug/Kg		104	70 - 130	3	20
1,1,2-Trichloroethane			50.0	49.6		ug/Kg		99	70 - 130	3	20
Trichloroethene			50.0	51.7		ug/Kg		103	70 - 133	2	20
Trichlorofluoromethane			50.0	48.7		ug/Kg		97	60 - 140	0	20
1,2,3-Trichloropropane			50.0	56.2		ug/Kg		112	70 - 146	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	53.7		ug/Kg		107	60 - 140	4	20
1,2,4-Trimethylbenzene			50.0	50.9		ug/Kg		102	70 - 130	2	20
1,3,5-Trimethylbenzene			50.0	51.3		ug/Kg		103	70 - 131	0	20
Vinyl acetate			50.0	62.4		ug/Kg		125	38 - 176	0	20
Vinyl chloride			50.0	39.4		ug/Kg		79	58 - 125	0	20
m-Xylene & p-Xylene			100	111		ug/Kg		111	70 - 146	1	20
o-Xylene			50.0	52.3		ug/Kg		105	70 - 140	1	20
2,2-Dichloropropane			50.0	60.6		ug/Kg		121	70 - 162	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*112*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*
Toluene-d8 (Surr)	*100*		*58 - 140*

Lab Sample ID: LCSD 720-127656/5-A
Matrix: Solid
Analysis Batch: 127638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127656

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1070		ug/Kg		107	61 - 128	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*
Toluene-d8 (Surr)	*112*		*58 - 140*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Lab Sample ID: MB 720-127616/1-A
Matrix: Solid
Analysis Batch: 127706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Bis(2-chloroethyl)ether	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
2-Chlorophenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
1,3-Dichlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
1,4-Dichlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Benzyl alcohol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 15:09	1

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: MB 720-127616/1-A
Matrix: Solid
Analysis Batch: 127706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
2-Methylphenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Methylphenol, 3 & 4	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
N-Nitrosodi-n-propylamine	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Hexachloroethane	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Nitrobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Isophorone	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
2-Nitrophenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
2,4-Dimethylphenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
1,2,4-Trichlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Naphthalene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
4-Chloroaniline	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Hexachlorobutadiene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
2-Methylnaphthalene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
2,4,6-Trichlorophenol	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
2,4,5-Trichlorophenol	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
2-Chloronaphthalene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
2-Nitroaniline	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Dimethyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Acenaphthylene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
3-Nitroaniline	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Acenaphthene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
2,4-Dinitrophenol	ND		0.66		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
4-Nitrophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Dibenzofuran	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
2,4-Dinitrotoluene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
2,6-Dinitrotoluene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Diethyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Fluorene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
4-Nitroaniline	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
2-Methyl-4,6-dinitrophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
N-Nitrosodiphenylamine	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Hexachlorobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Pentachlorophenol	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Phenanthrene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Anthracene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Di-n-butyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Fluoranthene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Pyrene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
3,3'-Dichlorobenzidine	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 15:09	1

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: MB 720-127616/1-A
Matrix: Solid
Analysis Batch: 127706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Chrysene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Benzo[b]fluoranthene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Benzo[a]pyrene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Benzo[k]fluoranthene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Indeno[1,2,3-cd]pyrene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Benzo[g,h,i]perylene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Benzoic acid	ND		0.33		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Azobenzene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1
Dibenz(a,h)anthracene	ND		0.067		mg/Kg		12/22/12 10:49	12/26/12 15:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*73*		*21 - 98*	*12/22/12 10:49*	*12/26/12 15:09*	*1*
2-Fluorobiphenyl	*79*		*30 - 112*	*12/22/12 10:49*	*12/26/12 15:09*	*1*
Terphenyl-d14	*78*		*32 - 117*	*12/22/12 10:49*	*12/26/12 15:09*	*1*
2-Fluorophenol	*68*		*28 - 98*	*12/22/12 10:49*	*12/26/12 15:09*	*1*
Phenol-d5	*73*		*23 - 101*	*12/22/12 10:49*	*12/26/12 15:09*	*1*
2,4,6-Tribromophenol	*80*		*37 - 114*	*12/22/12 10:49*	*12/26/12 15:09*	*1*

Lab Sample ID: LCS 720-127616/2-A
Matrix: Solid
Analysis Batch: 127706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1.66	1.26		mg/Kg		76	48 - 115
Bis(2-chloroethyl)ether	1.66	1.24		mg/Kg		75	45 - 115
2-Chlorophenol	1.66	1.26		mg/Kg		76	48 - 115
1,3-Dichlorobenzene	1.66	1.16		mg/Kg		70	41 - 115
1,4-Dichlorobenzene	1.66	1.11		mg/Kg		67	40 - 115
Benzyl alcohol	1.66	1.33		mg/Kg		80	54 - 115
1,2-Dichlorobenzene	1.66	1.17		mg/Kg		71	44 - 115
2-Methylphenol	1.66	1.29		mg/Kg		78	54 - 115
Methylphenol, 3 & 4	3.31	2.10		mg/Kg		63	42 - 115
N-Nitrosodi-n-propylamine	1.66	1.25		mg/Kg		75	46 - 115
Hexachloroethane	1.66	1.17		mg/Kg		71	44 - 115
Nitrobenzene	1.66	1.27		mg/Kg		76	48 - 115
Isophorone	1.66	1.33		mg/Kg		80	54 - 115
2-Nitrophenol	1.66	1.31		mg/Kg		79	48 - 115
2,4-Dimethylphenol	1.66	1.23		mg/Kg		74	52 - 115
Bis(2-chloroethoxy)methane	1.66	1.17		mg/Kg		71	46 - 115
2,4-Dichlorophenol	1.66	1.32		mg/Kg		80	49 - 100
1,2,4-Trichlorobenzene	1.66	1.24		mg/Kg		75	47 - 115
Naphthalene	1.66	1.18		mg/Kg		71	44 - 115
4-Chloroaniline	1.66	1.12		mg/Kg		68	30 - 115
Hexachlorobutadiene	1.66	1.13		mg/Kg		68	44 - 115

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCS 720-127616/2-A
Matrix: Solid
Analysis Batch: 127706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloro-3-methylphenol	1.66	1.31		mg/Kg		79	58 - 115
2-Methylnaphthalene	1.66	1.26		mg/Kg		76	49 - 115
Hexachlorocyclopentadiene	1.66	1.37		mg/Kg		83	42 - 132
2,4,6-Trichlorophenol	1.66	1.40		mg/Kg		85	45 - 115
2,4,5-Trichlorophenol	1.66	1.27		mg/Kg		77	48 - 115
2-Chloronaphthalene	1.66	1.28		mg/Kg		77	52 - 115
2-Nitroaniline	1.66	1.35		mg/Kg		82	54 - 115
Dimethyl phthalate	1.66	1.25		mg/Kg		76	64 - 119
Acenaphthylene	1.66	1.25		mg/Kg		75	61 - 129
3-Nitroaniline	1.66	1.17		mg/Kg		71	50 - 115
Acenaphthene	1.66	1.25		mg/Kg		75	50 - 115
2,4-Dinitrophenol	1.66	1.26		mg/Kg		76	15 - 115
4-Nitrophenol	1.66	1.40		mg/Kg		85	54 - 125
Dibenzofuran	1.66	1.28		mg/Kg		77	55 - 115
2,4-Dinitrotoluene	1.66	1.36		mg/Kg		82	57 - 115
2,6-Dinitrotoluene	1.66	1.40		mg/Kg		85	54 - 119
Diethyl phthalate	1.66	1.27		mg/Kg		77	49 - 117
4-Chlorophenyl phenyl ether	1.66	1.31		mg/Kg		79	57 - 115
Fluorene	1.66	1.25		mg/Kg		76	54 - 115
4-Nitroaniline	1.66	1.24		mg/Kg		75	59 - 115
2-Methyl-4,6-dinitrophenol	1.66	1.35		mg/Kg		82	39 - 115
N-Nitrosodiphenylamine	1.66	1.31		mg/Kg		79	56 - 115
4-Bromophenyl phenyl ether	1.66	1.28		mg/Kg		77	53 - 115
Hexachlorobenzene	1.66	1.33		mg/Kg		80	55 - 115
Pentachlorophenol	1.66	1.17		mg/Kg		71	35 - 115
Phenanthrene	1.66	1.22		mg/Kg		74	54 - 115
Anthracene	1.66	1.25		mg/Kg		75	55 - 115
Di-n-butyl phthalate	1.66	1.22		mg/Kg		73	55 - 115
Fluoranthene	1.66	1.26		mg/Kg		76	54 - 115
Pyrene	1.66	1.26		mg/Kg		76	48 - 115
Butyl benzyl phthalate	1.66	1.28		mg/Kg		77	53 - 115
3,3'-Dichlorobenzidine	1.66	1.23		mg/Kg		74	42 - 115
Benzo[a]anthracene	1.66	1.30		mg/Kg		78	55 - 115
Bis(2-ethylhexyl) phthalate	1.66	1.24		mg/Kg		75	53 - 115
Chrysene	1.66	1.25		mg/Kg		75	58 - 115
Di-n-octyl phthalate	1.66	1.31		mg/Kg		79	53 - 115
Benzo[b]fluoranthene	1.66	1.24		mg/Kg		75	56 - 115
Benzo[a]pyrene	1.66	1.28		mg/Kg		77	55 - 115
Benzo[k]fluoranthene	1.66	1.35		mg/Kg		81	57 - 115
Indeno[1,2,3-cd]pyrene	1.66	1.31		mg/Kg		79	56 - 115
Benzo[g,h,i]perylene	1.66	1.27		mg/Kg		77	56 - 115
Benzoic acid	1.66	1.29		mg/Kg		78	10 - 115
Azobenzene	1.66	1.19		mg/Kg		72	52 - 115
Dibenz(a,h)anthracene	1.66	1.29		mg/Kg		78	58 - 115

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCS 720-127616/2-A
Matrix: Solid
Analysis Batch: 127706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127616

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	*77*		*21 - 98*
2-Fluorobiphenyl	*79*		*30 - 112*
Terphenyl-d14	*81*		*32 - 117*
2-Fluorophenol	*75*		*28 - 98*
Phenol-d5	*80*		*23 - 101*
2,4,6-Tribromophenol	*84*		*37 - 114*

Lab Sample ID: LCSD 720-127616/3-A
Matrix: Solid
Analysis Batch: 127706

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127616

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol			1.64	1.29		mg/Kg		79	48 - 115	3	35
Bis(2-chloroethyl)ether			1.64	1.26		mg/Kg		77	45 - 115	2	35
2-Chlorophenol			1.64	1.27		mg/Kg		78	48 - 115	1	35
1,3-Dichlorobenzene			1.64	1.20		mg/Kg		73	41 - 115	3	35
1,4-Dichlorobenzene			1.64	1.15		mg/Kg		70	40 - 115	4	35
Benzyl alcohol			1.64	1.35		mg/Kg		82	54 - 115	1	35
1,2-Dichlorobenzene			1.64	1.22		mg/Kg		74	44 - 115	4	35
2-Methylphenol			1.64	1.31		mg/Kg		80	54 - 115	2	35
Methylphenol, 3 & 4			3.28	2.14		mg/Kg		65	42 - 115	2	35
N-Nitrosodi-n-propylamine			1.64	1.27		mg/Kg		78	46 - 115	2	35
Hexachloroethane			1.64	1.22		mg/Kg		74	44 - 115	4	35
Nitrobenzene			1.64	1.26		mg/Kg		77	48 - 115	0	35
Isophorone			1.64	1.33		mg/Kg		81	54 - 115	0	35
2-Nitrophenol			1.64	1.32		mg/Kg		81	48 - 115	1	35
2,4-Dimethylphenol			1.64	1.21		mg/Kg		74	52 - 115	1	35
Bis(2-chloroethoxy)methane			1.64	1.16		mg/Kg		71	46 - 115	1	35
2,4-Dichlorophenol			1.64	1.33		mg/Kg		81	49 - 100	1	35
1,2,4-Trichlorobenzene			1.64	1.25		mg/Kg		76	47 - 115	1	35
Naphthalene			1.64	1.18		mg/Kg		72	44 - 115	0	35
4-Chloroaniline			1.64	1.12		mg/Kg		69	30 - 115	0	35
Hexachlorobutadiene			1.64	1.15		mg/Kg		70	44 - 115	1	35
4-Chloro-3-methylphenol			1.64	1.36		mg/Kg		83	58 - 115	4	35
2-Methylnaphthalene			1.64	1.26		mg/Kg		77	49 - 115	0	35
Hexachlorocyclopentadiene			1.64	1.34		mg/Kg		82	42 - 132	2	35
2,4,6-Trichlorophenol			1.64	1.34		mg/Kg		82	45 - 115	4	35
2,4,5-Trichlorophenol			1.64	1.32		mg/Kg		80	48 - 115	3	35
2-Chloronaphthalene			1.64	1.25		mg/Kg		76	52 - 115	2	35
2-Nitroaniline			1.64	1.33		mg/Kg		81	54 - 115	1	35
Dimethyl phthalate			1.64	1.23		mg/Kg		75	64 - 119	2	35
Acenaphthylene			1.64	1.24		mg/Kg		75	61 - 129	1	35
3-Nitroaniline			1.64	1.16		mg/Kg		71	50 - 115	1	35
Acenaphthene			1.64	1.23		mg/Kg		75	50 - 115	1	35
2,4-Dinitrophenol			1.64	1.25		mg/Kg		76	15 - 115	1	35
4-Nitrophenol			1.64	1.38		mg/Kg		84	54 - 125	2	35
Dibenzofuran			1.64	1.27		mg/Kg		77	55 - 115	1	35

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCSD 720-127616/3-A
Matrix: Solid
Analysis Batch: 127706

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127616

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dinitrotoluene			1.64	1.38		mg/Kg		84	57 - 115	2	35
2,6-Dinitrotoluene			1.64	1.38		mg/Kg		84	54 - 119	2	35
Diethyl phthalate			1.64	1.27		mg/Kg		77	49 - 117	0	35
4-Chlorophenyl phenyl ether			1.64	1.27		mg/Kg		78	57 - 115	3	35
Fluorene			1.64	1.22		mg/Kg		75	54 - 115	3	35
4-Nitroaniline			1.64	1.20		mg/Kg		73	59 - 115	3	35
2-Methyl-4,6-dinitrophenol			1.64	1.37		mg/Kg		84	39 - 115	1	35
N-Nitrosodiphenylamine			1.64	1.28		mg/Kg		78	56 - 115	2	35
4-Bromophenyl phenyl ether			1.64	1.29		mg/Kg		79	53 - 115	1	35
Hexachlorobenzene			1.64	1.36		mg/Kg		83	55 - 115	2	35
Pentachlorophenol			1.64	1.14		mg/Kg		70	35 - 115	2	35
Phenanthrene			1.64	1.23		mg/Kg		75	54 - 115	1	35
Anthracene			1.64	1.27		mg/Kg		78	55 - 115	2	35
Di-n-butyl phthalate			1.64	1.22		mg/Kg		74	55 - 115	0	35
Fluoranthene			1.64	1.23		mg/Kg		75	54 - 115	2	35
Pyrene			1.64	1.26		mg/Kg		77	48 - 115	0	35
Butyl benzyl phthalate			1.64	1.27		mg/Kg		78	53 - 115	0	35
3,3'-Dichlorobenzidine			1.64	1.25		mg/Kg		76	42 - 115	1	35
Benzo[a]anthracene			1.64	1.29		mg/Kg		79	55 - 115	1	35
Bis(2-ethylhexyl) phthalate			1.64	1.23		mg/Kg		75	53 - 115	1	35
Chrysene			1.64	1.27		mg/Kg		77	58 - 115	1	35
Di-n-octyl phthalate			1.64	1.31		mg/Kg		80	53 - 115	0	35
Benzo[b]fluoranthene			1.64	1.27		mg/Kg		77	56 - 115	3	35
Benzo[a]pyrene			1.64	1.28		mg/Kg		78	55 - 115	0	35
Benzo[k]fluoranthene			1.64	1.31		mg/Kg		80	57 - 115	3	35
Indeno[1,2,3-cd]pyrene			1.64	1.33		mg/Kg		81	56 - 115	2	35
Benzo[g,h,i]perylene			1.64	1.31		mg/Kg		80	56 - 115	3	35
Benzoic acid			1.64	1.26		mg/Kg		77	10 - 115	2	35
Azobenzene			1.64	1.20		mg/Kg		73	52 - 115	1	35
Dibenz(a,h)anthracene			1.64	1.31		mg/Kg		80	58 - 115	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*79*		*21 - 98*
2-Fluorobiphenyl	*77*		*30 - 112*
Terphenyl-d14	*83*		*32 - 117*
2-Fluorophenol	*79*		*28 - 98*
Phenol-d5	*82*		*23 - 101*
2,4,6-Tribromophenol	*88*		*37 - 114*

Lab Sample ID: MB 720-127826/1-A
Matrix: Solid
Analysis Batch: 128070

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127826

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Bis(2-chloroethyl)ether	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
2-Chlorophenol	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: MB 720-127826/1-A
Matrix: Solid
Analysis Batch: 128070

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127826

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
1,4-Dichlorobenzene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Benzyl alcohol	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
1,2-Dichlorobenzene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
2-Methylphenol	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Methylphenol, 3 & 4	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
N-Nitrosodi-n-propylamine	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Hexachloroethane	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Nitrobenzene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Isophorone	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
2-Nitrophenol	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
2,4-Dimethylphenol	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
1,2,4-Trichlorobenzene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Naphthalene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
4-Chloroaniline	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Hexachlorobutadiene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
2-Methylnaphthalene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
2,4,6-Trichlorophenol	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
2,4,5-Trichlorophenol	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
2-Chloronaphthalene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
2-Nitroaniline	ND		0.33		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Dimethyl phthalate	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Acenaphthylene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
3-Nitroaniline	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Acenaphthene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
2,4-Dinitrophenol	ND		0.65		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
4-Nitrophenol	ND		0.33		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Dibenzofuran	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
2,4-Dinitrotoluene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
2,6-Dinitrotoluene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Diethyl phthalate	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Fluorene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
4-Nitroaniline	ND		0.33		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
2-Methyl-4,6-dinitrophenol	ND		0.33		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
N-Nitrosodiphenylamine	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Hexachlorobenzene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Pentachlorophenol	ND		0.65		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Phenanthrene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Anthracene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Di-n-butyl phthalate	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Fluoranthene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: MB 720-127826/1-A
Matrix: Solid
Analysis Batch: 128070

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127826

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
3,3'-Dichlorobenzidine	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Benzo[a]anthracene	ND		0.33		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Chrysene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Benzo[b]fluoranthene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Benzo[a]pyrene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Benzo[k]fluoranthene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Indeno[1,2,3-cd]pyrene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Benzo[g,h,i]perylene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Benzoic acid	ND		0.33		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Azobenzene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1
Dibenz(a,h)anthracene	ND		0.066		mg/Kg		12/27/12 19:01	01/03/13 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*74*		*21 - 98*	*12/27/12 19:01*	*01/03/13 13:06*	*1*
2-Fluorobiphenyl	*80*		*30 - 112*	*12/27/12 19:01*	*01/03/13 13:06*	*1*
Terphenyl-d14	*78*		*32 - 117*	*12/27/12 19:01*	*01/03/13 13:06*	*1*
2-Fluorophenol	*71*		*28 - 98*	*12/27/12 19:01*	*01/03/13 13:06*	*1*
Phenol-d5	*74*		*23 - 101*	*12/27/12 19:01*	*01/03/13 13:06*	*1*
2,4,6-Tribromophenol	*78*		*37 - 114*	*12/27/12 19:01*	*01/03/13 13:06*	*1*

Lab Sample ID: LCS 720-127826/2-A
Matrix: Solid
Analysis Batch: 128070

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127826

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1.65	1.11		mg/Kg		67	48 - 115
Bis(2-chloroethyl)ether	1.65	0.986		mg/Kg		60	45 - 115
2-Chlorophenol	1.65	1.13		mg/Kg		69	48 - 115
1,3-Dichlorobenzene	1.65	1.06		mg/Kg		64	41 - 115
1,4-Dichlorobenzene	1.65	1.01		mg/Kg		61	40 - 115
Benzyl alcohol	1.65	1.14		mg/Kg		69	54 - 115
1,2-Dichlorobenzene	1.65	1.11		mg/Kg		67	44 - 115
2-Methylphenol	1.65	1.19		mg/Kg		72	54 - 115
Methylphenol, 3 & 4	3.30	1.96		mg/Kg		60	42 - 115
N-Nitrosodi-n-propylamine	1.65	1.16		mg/Kg		70	46 - 115
Hexachloroethane	1.65	1.07		mg/Kg		65	44 - 115
Nitrobenzene	1.65	1.14		mg/Kg		69	48 - 115
Isophorone	1.65	1.23		mg/Kg		75	54 - 115
2-Nitrophenol	1.65	1.19		mg/Kg		72	48 - 115
2,4-Dimethylphenol	1.65	1.14		mg/Kg		69	52 - 115
Bis(2-chloroethoxy)methane	1.65	1.18		mg/Kg		71	46 - 115
2,4-Dichlorophenol	1.65	1.22		mg/Kg		74	49 - 100
1,2,4-Trichlorobenzene	1.65	1.15		mg/Kg		70	47 - 115

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCS 720-127826/2-A
Matrix: Solid
Analysis Batch: 128070

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127826

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1.65	1.16		mg/Kg		71	44 - 115
4-Chloroaniline	1.65	1.19		mg/Kg		72	30 - 115
Hexachlorobutadiene	1.65	1.14		mg/Kg		69	44 - 115
4-Chloro-3-methylphenol	1.65	1.23		mg/Kg		75	58 - 115
2-Methylnaphthalene	1.65	1.19		mg/Kg		72	49 - 115
Hexachlorocyclopentadiene	1.65	1.33		mg/Kg		81	42 - 132
2,4,6-Trichlorophenol	1.65	1.26		mg/Kg		76	45 - 115
2,4,5-Trichlorophenol	1.65	1.16		mg/Kg		70	48 - 115
2-Chloronaphthalene	1.65	1.19		mg/Kg		72	52 - 115
2-Nitroaniline	1.65	1.27		mg/Kg		77	54 - 115
Dimethyl phthalate	1.65	1.18		mg/Kg		71	64 - 119
Acenaphthylene	1.65	1.32		mg/Kg		80	61 - 129
3-Nitroaniline	1.65	1.15		mg/Kg		70	50 - 115
Acenaphthene	1.65	1.22		mg/Kg		74	50 - 115
2,4-Dinitrophenol	1.65	1.23		mg/Kg		75	15 - 115
4-Nitrophenol	1.65	1.39		mg/Kg		84	54 - 125
Dibenzofuran	1.65	1.20		mg/Kg		73	55 - 115
2,4-Dinitrotoluene	1.65	1.31		mg/Kg		79	57 - 115
2,6-Dinitrotoluene	1.65	1.29		mg/Kg		78	54 - 119
Diethyl phthalate	1.65	1.22		mg/Kg		74	49 - 117
4-Chlorophenyl phenyl ether	1.65	1.24		mg/Kg		75	57 - 115
Fluorene	1.65	1.22		mg/Kg		74	54 - 115
4-Nitroaniline	1.65	1.24		mg/Kg		75	59 - 115
2-Methyl-4,6-dinitrophenol	1.65	1.26		mg/Kg		77	39 - 115
N-Nitrosodiphenylamine	1.65	1.25		mg/Kg		76	56 - 115
4-Bromophenyl phenyl ether	1.65	1.24		mg/Kg		75	53 - 115
Hexachlorobenzene	1.65	1.25		mg/Kg		76	55 - 115
Pentachlorophenol	1.65	1.24		mg/Kg		75	35 - 115
Phenanthrene	1.65	1.19		mg/Kg		72	54 - 115
Anthracene	1.65	1.22		mg/Kg		74	55 - 115
Di-n-butyl phthalate	1.65	1.21		mg/Kg		74	55 - 115
Fluoranthene	1.65	1.29		mg/Kg		78	54 - 115
Pyrene	1.65	1.16		mg/Kg		70	48 - 115
Butyl benzyl phthalate	1.65	1.25		mg/Kg		76	53 - 115
3,3'-Dichlorobenzidine	1.65	1.20		mg/Kg		73	42 - 115
Benzo[a]anthracene	1.65	1.21		mg/Kg		73	55 - 115
Bis(2-ethylhexyl) phthalate	1.65	1.24		mg/Kg		75	53 - 115
Chrysene	1.65	1.25		mg/Kg		76	58 - 115
Di-n-octyl phthalate	1.65	1.23		mg/Kg		75	53 - 115
Benzo[b]fluoranthene	1.65	1.02		mg/Kg		62	56 - 115
Benzo[a]pyrene	1.65	1.09		mg/Kg		66	55 - 115
Benzo[k]fluoranthene	1.65	1.28		mg/Kg		77	57 - 115
Indeno[1,2,3-cd]pyrene	1.65	1.20		mg/Kg		73	56 - 115
Benzo[g,h,i]perylene	1.65	1.20		mg/Kg		73	56 - 115
Benzoic acid	1.65	1.21		mg/Kg		73	10 - 115
Azobenzene	1.65	1.17		mg/Kg		71	52 - 115
Dibenz(a,h)anthracene	1.65	1.23		mg/Kg		75	58 - 115

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCS 720-127826/2-A
Matrix: Solid
Analysis Batch: 128070

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127826

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	*71*		*21 - 98*
2-Fluorobiphenyl	*72*		*30 - 112*
Terphenyl-d14	*72*		*32 - 117*
2-Fluorophenol	*70*		*28 - 98*
Phenol-d5	*72*		*23 - 101*
2,4,6-Tribromophenol	*79*		*37 - 114*

Lab Sample ID: LCSD 720-127826/3-A
Matrix: Solid
Analysis Batch: 128070

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127826

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol			1.65	1.21		mg/Kg		73	48 - 115	8	35
Bis(2-chloroethyl)ether			1.65	1.09		mg/Kg		66	45 - 115	10	35
2-Chlorophenol			1.65	1.25		mg/Kg		76	48 - 115	10	35
1,3-Dichlorobenzene			1.65	1.17		mg/Kg		71	41 - 115	10	35
1,4-Dichlorobenzene			1.65	1.12		mg/Kg		68	40 - 115	10	35
Benzyl alcohol			1.65	1.25		mg/Kg		76	54 - 115	9	35
1,2-Dichlorobenzene			1.65	1.21		mg/Kg		74	44 - 115	9	35
2-Methylphenol			1.65	1.28		mg/Kg		78	54 - 115	8	35
Methylphenol, 3 & 4			3.29	2.14		mg/Kg		65	42 - 115	9	35
N-Nitrosodi-n-propylamine			1.65	1.25		mg/Kg		76	46 - 115	7	35
Hexachloroethane			1.65	1.17		mg/Kg		71	44 - 115	9	35
Nitrobenzene			1.65	1.23		mg/Kg		75	48 - 115	8	35
Isophorone			1.65	1.33		mg/Kg		81	54 - 115	7	35
2-Nitrophenol			1.65	1.30		mg/Kg		79	48 - 115	9	35
2,4-Dimethylphenol			1.65	1.18		mg/Kg		72	52 - 115	3	35
Bis(2-chloroethoxy)methane			1.65	1.28		mg/Kg		77	46 - 115	8	35
2,4-Dichlorophenol			1.65	1.32		mg/Kg		80	49 - 100	7	35
1,2,4-Trichlorobenzene			1.65	1.23		mg/Kg		75	47 - 115	7	35
Naphthalene			1.65	1.24		mg/Kg		76	44 - 115	7	35
4-Chloroaniline			1.65	1.28		mg/Kg		78	30 - 115	7	35
Hexachlorobutadiene			1.65	1.24		mg/Kg		75	44 - 115	8	35
4-Chloro-3-methylphenol			1.65	1.34		mg/Kg		81	58 - 115	8	35
2-Methylnaphthalene			1.65	1.27		mg/Kg		77	49 - 115	6	35
Hexachlorocyclopentadiene			1.65	1.43		mg/Kg		87	42 - 132	8	35
2,4,6-Trichlorophenol			1.65	1.30		mg/Kg		79	45 - 115	3	35
2,4,5-Trichlorophenol			1.65	1.27		mg/Kg		77	48 - 115	9	35
2-Chloronaphthalene			1.65	1.28		mg/Kg		78	52 - 115	7	35
2-Nitroaniline			1.65	1.34		mg/Kg		81	54 - 115	6	35
Dimethyl phthalate			1.65	1.27		mg/Kg		77	64 - 119	8	35
Acenaphthylene			1.65	1.38		mg/Kg		84	61 - 129	5	35
3-Nitroaniline			1.65	1.25		mg/Kg		76	50 - 115	8	35
Acenaphthene			1.65	1.28		mg/Kg		78	50 - 115	5	35
2,4-Dinitrophenol			1.65	1.32		mg/Kg		80	15 - 115	7	35
4-Nitrophenol			1.65	1.39		mg/Kg		84	54 - 125	0	35
Dibenzofuran			1.65	1.27		mg/Kg		77	55 - 115	6	35

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCSD 720-127826/3-A
Matrix: Solid
Analysis Batch: 128070

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127826

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dinitrotoluene	1.65	1.38		mg/Kg		84	57 - 115	5	35
2,6-Dinitrotoluene	1.65	1.36		mg/Kg		83	54 - 119	6	35
Diethyl phthalate	1.65	1.30		mg/Kg		79	49 - 117	6	35
4-Chlorophenyl phenyl ether	1.65	1.34		mg/Kg		81	57 - 115	7	35
Fluorene	1.65	1.29		mg/Kg		78	54 - 115	6	35
4-Nitroaniline	1.65	1.35		mg/Kg		82	59 - 115	8	35
2-Methyl-4,6-dinitrophenol	1.65	1.41		mg/Kg		86	39 - 115	11	35
N-Nitrosodiphenylamine	1.65	1.38		mg/Kg		84	56 - 115	10	35
4-Bromophenyl phenyl ether	1.65	1.36		mg/Kg		82	53 - 115	9	35
Hexachlorobenzene	1.65	1.38		mg/Kg		84	55 - 115	10	35
Pentachlorophenol	1.65	1.34		mg/Kg		81	35 - 115	8	35
Phenanthrene	1.65	1.29		mg/Kg		79	54 - 115	8	35
Anthracene	1.65	1.35		mg/Kg		82	55 - 115	10	35
Di-n-butyl phthalate	1.65	1.35		mg/Kg		82	55 - 115	11	35
Fluoranthene	1.65	1.40		mg/Kg		85	54 - 115	8	35
Pyrene	1.65	1.30		mg/Kg		79	48 - 115	12	35
Butyl benzyl phthalate	1.65	1.37		mg/Kg		83	53 - 115	9	35
3,3'-Dichlorobenzidine	1.65	1.30		mg/Kg		79	42 - 115	8	35
Benzo[a]anthracene	1.65	1.32		mg/Kg		80	55 - 115	9	35
Bis(2-ethylhexyl) phthalate	1.65	1.39		mg/Kg		84	53 - 115	12	35
Chrysene	1.65	1.41		mg/Kg		86	58 - 115	12	35
Di-n-octyl phthalate	1.65	1.34		mg/Kg		81	53 - 115	8	35
Benzo[b]fluoranthene	1.65	1.14		mg/Kg		69	56 - 115	11	35
Benzo[a]pyrene	1.65	1.21		mg/Kg		73	55 - 115	10	35
Benzo[k]fluoranthene	1.65	1.43		mg/Kg		87	57 - 115	11	35
Indeno[1,2,3-cd]pyrene	1.65	1.32		mg/Kg		80	56 - 115	9	35
Benzo[g,h,i]perylene	1.65	1.32		mg/Kg		80	56 - 115	10	35
Benzoic acid	1.65	1.29		mg/Kg		78	10 - 115	7	35
Azobenzene	1.65	1.28		mg/Kg		77	52 - 115	9	35
Dibenz(a,h)anthracene	1.65	1.35		mg/Kg		82	58 - 115	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*76*		*21 - 98*
2-Fluorobiphenyl	*76*		*30 - 112*
Terphenyl-d14	*80*		*32 - 117*
2-Fluorophenol	*78*		*28 - 98*
Phenol-d5	*80*		*23 - 101*
2,4,6-Tribromophenol	*86*		*37 - 114*

Lab Sample ID: 720-46854-25 MS
Matrix: Solid
Analysis Batch: 128070

Client Sample ID: SB-2 (4 1/2-5)
Prep Type: Total/NA
Prep Batch: 127826

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	ND		1.66	0.979		mg/Kg		59	23 - 115
Bis(2-chloroethyl)ether	ND		1.66	0.870		mg/Kg		53	27 - 115
2-Chlorophenol	ND		1.66	1.01		mg/Kg		61	16 - 115

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: 720-46854-25 MS
Matrix: Solid
Analysis Batch: 128070

Client Sample ID: SB-2 (4 1/2-5)
Prep Type: Total/NA
Prep Batch: 127826

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	ND		1.66	0.919		mg/Kg		56	22 - 115
1,4-Dichlorobenzene	ND		1.66	0.870		mg/Kg		53	21 - 115
Benzyl alcohol	ND		1.66	1.04		mg/Kg		63	28 - 115
1,2-Dichlorobenzene	ND		1.66	0.956		mg/Kg		58	25 - 115
2-Methylphenol	ND		1.66	1.05		mg/Kg		63	32 - 115
Methylphenol, 3 & 4	ND		3.31	1.78		mg/Kg		54	28 - 115
N-Nitrosodi-n-propylamine	ND		1.66	1.01		mg/Kg		61	27 - 115
Hexachloroethane	ND		1.66	0.889		mg/Kg		54	19 - 115
Nitrobenzene	ND		1.66	1.03		mg/Kg		63	30 - 115
Isophorone	ND		1.66	1.14		mg/Kg		69	36 - 115
2-Nitrophenol	ND		1.66	1.07		mg/Kg		65	11 - 116
2,4-Dimethylphenol	ND		1.66	0.973		mg/Kg		59	36 - 115
Bis(2-chloroethoxy)methane	ND		1.66	1.08		mg/Kg		65	28 - 115
2,4-Dichlorophenol	ND		1.66	1.15		mg/Kg		70	17 - 115
1,2,4-Trichlorobenzene	ND		1.66	1.02		mg/Kg		62	29 - 115
Naphthalene	ND		1.66	1.05		mg/Kg		63	22 - 115
4-Chloroaniline	ND		1.66	0.947		mg/Kg		57	7 - 115
Hexachlorobutadiene	ND		1.66	1.03		mg/Kg		62	26 - 115
4-Chloro-3-methylphenol	ND		1.66	1.25		mg/Kg		75	42 - 115
2-Methylnaphthalene	ND		1.66	1.10		mg/Kg		67	28 - 115
Hexachlorocyclopentadiene	ND		1.66	0.646		mg/Kg		39	15 - 115
2,4,6-Trichlorophenol	ND		1.66	1.20		mg/Kg		72	25 - 115
2,4,5-Trichlorophenol	ND		1.66	1.20		mg/Kg		72	38 - 115
2-Chloronaphthalene	ND		1.66	1.13		mg/Kg		68	38 - 115
2-Nitroaniline	ND		1.66	1.26		mg/Kg		76	43 - 115
Dimethyl phthalate	ND		1.66	1.20		mg/Kg		72	55 - 116
Acenaphthylene	ND		1.66	1.26		mg/Kg		76	49 - 120
3-Nitroaniline	ND		1.66	1.06		mg/Kg		64	39 - 115
Acenaphthene	ND		1.66	1.17		mg/Kg		70	42 - 115
2,4-Dinitrophenol	ND		1.66	1.11		mg/Kg		67	13 - 122
4-Nitrophenol	ND		1.66	1.49		mg/Kg		90	25 - 147
Dibenzofuran	ND		1.66	1.16		mg/Kg		70	43 - 115
2,4-Dinitrotoluene	ND		1.66	1.33		mg/Kg		80	47 - 115
2,6-Dinitrotoluene	ND		1.66	1.28		mg/Kg		77	55 - 115
Diethyl phthalate	ND		1.66	1.23		mg/Kg		74	48 - 115
4-Chlorophenyl phenyl ether	ND		1.66	1.22		mg/Kg		74	44 - 115
Fluorene	ND		1.66	1.20		mg/Kg		72	41 - 115
4-Nitroaniline	ND		1.66	1.09		mg/Kg		66	47 - 120
2-Methyl-4,6-dinitrophenol	ND		1.66	1.19		mg/Kg		72	19 - 132
N-Nitrosodiphenylamine	ND		1.66	1.29		mg/Kg		78	43 - 115
4-Bromophenyl phenyl ether	ND		1.66	1.26		mg/Kg		76	45 - 115
Hexachlorobenzene	ND		1.66	1.26		mg/Kg		76	48 - 115
Pentachlorophenol	ND		1.66	1.37		mg/Kg		83	7 - 132
Phenanthrene	ND		1.66	1.19		mg/Kg		70	38 - 115
Anthracene	ND		1.66	1.24		mg/Kg		75	47 - 115
Di-n-butyl phthalate	ND		1.66	1.23		mg/Kg		74	46 - 115
Fluoranthene	ND		1.66	1.19		mg/Kg		71	40 - 115

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: 720-46854-25 MS
Matrix: Solid
Analysis Batch: 128070

Client Sample ID: SB-2 (4 1/2-5)
Prep Type: Total/NA
Prep Batch: 127826

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyrene	ND		1.66	1.24		mg/Kg		74	35 - 115
Butyl benzyl phthalate	ND		1.66	1.27		mg/Kg		77	40 - 115
3,3'-Dichlorobenzidine	ND		1.66	0.817		mg/Kg		49	17 - 115
Benzo[a]anthracene	ND		1.66	1.27		mg/Kg		77	42 - 115
Bis(2-ethylhexyl) phthalate	ND		1.66	1.33		mg/Kg		81	42 - 115
Chrysene	ND		1.66	1.32		mg/Kg		80	37 - 115
Di-n-octyl phthalate	ND		1.66	1.28		mg/Kg		78	46 - 115
Benzo[b]fluoranthene	ND		1.66	1.18		mg/Kg		70	43 - 115
Benzo[a]pyrene	ND		1.66	1.10		mg/Kg		66	48 - 115
Benzo[k]fluoranthene	ND		1.66	1.12		mg/Kg		68	39 - 115
Indeno[1,2,3-cd]pyrene	ND		1.66	1.26		mg/Kg		76	50 - 115
Benzo[g,h,i]perylene	ND		1.66	1.29		mg/Kg		78	43 - 115
Benzoic acid	ND		1.66	1.11		mg/Kg		67	0 - 115
Azobenzene	ND		1.66	1.17		mg/Kg		71	48 - 115
Dibenz(a,h)anthracene	ND		1.66	1.27		mg/Kg		77	49 - 115

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5	*63*		*21 - 98*
2-Fluorobiphenyl	*66*		*30 - 112*
Terphenyl-d14	*76*		*32 - 117*
2-Fluorophenol	*62*		*28 - 98*
Phenol-d5	*65*		*23 - 101*
2,4,6-Tribromophenol	*80*		*37 - 114*

Lab Sample ID: 720-46854-25 MSD
Matrix: Solid
Analysis Batch: 128070

Client Sample ID: SB-2 (4 1/2-5)
Prep Type: Total/NA
Prep Batch: 127826

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	ND		1.65	1.04		mg/Kg		63	23 - 115	6	35
Bis(2-chloroethyl)ether	ND		1.65	0.922		mg/Kg		56	27 - 115	6	35
2-Chlorophenol	ND		1.65	1.10		mg/Kg		67	16 - 115	9	35
1,3-Dichlorobenzene	ND		1.65	1.03		mg/Kg		62	22 - 115	11	35
1,4-Dichlorobenzene	ND		1.65	0.971		mg/Kg		59	21 - 115	11	35
Benzyl alcohol	ND		1.65	1.15		mg/Kg		70	28 - 115	10	35
1,2-Dichlorobenzene	ND		1.65	1.07		mg/Kg		65	25 - 115	11	35
2-Methylphenol	ND		1.65	1.09		mg/Kg		66	32 - 115	4	35
Methylphenol, 3 & 4	ND		3.31	1.83		mg/Kg		55	28 - 115	2	35
N-Nitrosodi-n-propylamine	ND		1.65	1.10		mg/Kg		66	27 - 115	8	35
Hexachloroethane	ND		1.65	0.971		mg/Kg		59	19 - 115	9	35
Nitrobenzene	ND		1.65	1.13		mg/Kg		68	30 - 115	8	35
Isophorone	ND		1.65	1.20		mg/Kg		73	36 - 115	6	35
2-Nitrophenol	ND		1.65	1.18		mg/Kg		72	11 - 116	10	35
2,4-Dimethylphenol	ND		1.65	1.04		mg/Kg		63	36 - 115	7	35
Bis(2-chloroethoxy)methane	ND		1.65	1.15		mg/Kg		70	28 - 115	7	35
2,4-Dichlorophenol	ND		1.65	1.20		mg/Kg		73	17 - 115	4	35
1,2,4-Trichlorobenzene	ND		1.65	1.14		mg/Kg		69	29 - 115	10	35

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: 720-46854-25 MSD
Matrix: Solid
Analysis Batch: 128070

Client Sample ID: SB-2 (4 1/2-5)
Prep Type: Total/NA
Prep Batch: 127826

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		1.65	1.12		mg/Kg		68	22 - 115	7	35
4-Chloroaniline	ND		1.65	0.996		mg/Kg		60	7 - 115	5	35
Hexachlorobutadiene	ND		1.65	1.15		mg/Kg		70	26 - 115	11	35
4-Chloro-3-methylphenol	ND		1.65	1.26		mg/Kg		76	42 - 115	1	35
2-Methylnaphthalene	ND		1.65	1.19		mg/Kg		72	28 - 115	7	35
Hexachlorocyclopentadiene	ND		1.65	0.515		mg/Kg		31	15 - 115	23	35
2,4,6-Trichlorophenol	ND		1.65	1.23		mg/Kg		74	25 - 115	3	35
2,4,5-Trichlorophenol	ND		1.65	1.17		mg/Kg		71	38 - 115	2	35
2-Chloronaphthalene	ND		1.65	1.16		mg/Kg		70	38 - 115	2	35
2-Nitroaniline	ND		1.65	1.25		mg/Kg		76	43 - 115	1	35
Dimethyl phthalate	ND		1.65	1.18		mg/Kg		71	55 - 116	2	35
Acenaphthylene	ND		1.65	1.25		mg/Kg		76	49 - 120	1	35
3-Nitroaniline	ND		1.65	1.01		mg/Kg		61	39 - 115	4	35
Acenaphthene	ND		1.65	1.18		mg/Kg		72	42 - 115	1	35
2,4-Dinitrophenol	ND		1.65	1.04		mg/Kg		63	13 - 122	6	35
4-Nitrophenol	ND		1.65	1.42		mg/Kg		86	25 - 147	5	35
Dibenzofuran	ND		1.65	1.16		mg/Kg		70	43 - 115	0	35
2,4-Dinitrotoluene	ND		1.65	1.30		mg/Kg		79	47 - 115	2	35
2,6-Dinitrotoluene	ND		1.65	1.27		mg/Kg		77	55 - 115	1	35
Diethyl phthalate	ND		1.65	1.19		mg/Kg		72	48 - 115	3	35
4-Chlorophenyl phenyl ether	ND		1.65	1.19		mg/Kg		72	44 - 115	2	35
Fluorene	ND		1.65	1.18		mg/Kg		72	41 - 115	1	35
4-Nitroaniline	ND		1.65	1.02		mg/Kg		62	47 - 120	7	35
2-Methyl-4,6-dinitrophenol	ND		1.65	1.10		mg/Kg		67	19 - 132	7	35
N-Nitrosodiphenylamine	ND		1.65	1.25		mg/Kg		76	43 - 115	3	35
4-Bromophenyl phenyl ether	ND		1.65	1.24		mg/Kg		75	45 - 115	1	35
Hexachlorobenzene	ND		1.65	1.28		mg/Kg		78	48 - 115	2	35
Pentachlorophenol	ND		1.65	1.31		mg/Kg		79	7 - 132	4	35
Phenanthrene	ND		1.65	1.15		mg/Kg		68	38 - 115	3	35
Anthracene	ND		1.65	1.19		mg/Kg		72	47 - 115	4	35
Di-n-butyl phthalate	ND		1.65	1.19		mg/Kg		72	46 - 115	3	35
Fluoranthene	ND		1.65	1.24		mg/Kg		74	40 - 115	4	35
Pyrene	ND		1.65	1.21		mg/Kg		73	35 - 115	2	35
Butyl benzyl phthalate	ND		1.65	1.26		mg/Kg		76	40 - 115	1	35
3,3'-Dichlorobenzidine	ND		1.65	0.759		mg/Kg		46	17 - 115	7	35
Benzo[a]anthracene	ND		1.65	1.24		mg/Kg		75	42 - 115	2	35
Bis(2-ethylhexyl) phthalate	ND		1.65	1.28		mg/Kg		78	42 - 115	4	35
Chrysene	ND		1.65	1.28		mg/Kg		78	37 - 115	3	35
Di-n-octyl phthalate	ND		1.65	1.26		mg/Kg		76	46 - 115	2	35
Benzo[b]fluoranthene	ND		1.65	1.06		mg/Kg		63	43 - 115	10	35
Benzo[a]pyrene	ND		1.65	1.08		mg/Kg		65	48 - 115	2	35
Benzo[k]fluoranthene	ND		1.65	1.25		mg/Kg		75	39 - 115	11	35
Indeno[1,2,3-cd]pyrene	ND		1.65	1.23		mg/Kg		74	50 - 115	2	35
Benzo[g,h,i]perylene	ND		1.65	1.25		mg/Kg		76	43 - 115	3	35
Benzoic acid	ND		1.65	1.09		mg/Kg		66	0 - 115	2	35
Azobenzene	ND		1.65	1.15		mg/Kg		70	48 - 115	2	35
Dibenz(a,h)anthracene	ND		1.65	1.24		mg/Kg		75	49 - 115	2	35

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: 720-46854-25 MSD
Matrix: Solid
Analysis Batch: 128070

Client Sample ID: SB-2 (4 1/2-5)
Prep Type: Total/NA
Prep Batch: 127826

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5	*70*		*21 - 98*
2-Fluorobiphenyl	*69*		*30 - 112*
Terphenyl-d14	*77*		*32 - 117*
2-Fluorophenol	*68*		*28 - 98*
Phenol-d5	*70*		*23 - 101*
2,4,6-Tribromophenol	*81*		*37 - 114*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-127783/1-A
Matrix: Solid
Analysis Batch: 127821

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127783

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 19:09	1
Acenaphthylene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 19:09	1
Anthracene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 19:09	1
Benzo[a]anthracene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 19:09	1
Benzo[a]pyrene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 19:09	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 19:09	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 19:09	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 19:09	1
Chrysene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 19:09	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 19:09	1
Fluoranthene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 19:09	1
Fluorene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 19:09	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 19:09	1
Naphthalene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 19:09	1
Phenanthrene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 19:09	1
Pyrene	ND		5.0		ug/Kg		12/27/12 11:19	12/27/12 19:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*81*		*33 - 120*	*12/27/12 11:19*	*12/27/12 19:09*	*1*
Terphenyl-d14	*80*		*35 - 146*	*12/27/12 11:19*	*12/27/12 19:09*	*1*

Lab Sample ID: LCS 720-127783/2-A
Matrix: Solid
Analysis Batch: 127821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	332	251		ug/Kg		76	49 - 120
Acenaphthylene	332	271		ug/Kg		81	52 - 120
Anthracene	332	311		ug/Kg		94	52 - 120
Benzo[a]anthracene	332	320		ug/Kg		96	52 - 120
Benzo[a]pyrene	332	303		ug/Kg		91	54 - 120
Benzo[b]fluoranthene	332	268		ug/Kg		81	51 - 120

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCS 720-127783/2-A
Matrix: Solid
Analysis Batch: 127821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127783

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzo[g,h,i]perylene			332	264		ug/Kg		80	48 - 120		
Benzo[k]fluoranthene			332	302		ug/Kg		91	56 - 120		
Chrysene			332	365		ug/Kg		110	40 - 120		
Dibenz(a,h)anthracene			332	340		ug/Kg		102	50 - 120		
Fluoranthene			332	291		ug/Kg		88	57 - 120		
Fluorene			332	273		ug/Kg		82	52 - 120		
Indeno[1,2,3-cd]pyrene			332	310		ug/Kg		93	48 - 120		
Naphthalene			332	232		ug/Kg		70	46 - 120		
Phenanthrene			332	265		ug/Kg		80	48 - 120		
Pyrene			332	227		ug/Kg		68	53 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*33 - 120*
Terphenyl-d14	*84*		*35 - 146*

Lab Sample ID: LCSD 720-127783/3-A
Matrix: Solid
Analysis Batch: 127821

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127783

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			331	261		ug/Kg		79	49 - 120	4	20
Acenaphthylene			331	277		ug/Kg		83	52 - 120	2	20
Anthracene			331	312		ug/Kg		94	52 - 120	0	20
Benzo[a]anthracene			331	327		ug/Kg		99	52 - 120	2	20
Benzo[a]pyrene			331	308		ug/Kg		93	54 - 120	2	20
Benzo[b]fluoranthene			331	270		ug/Kg		81	51 - 120	1	20
Benzo[g,h,i]perylene			331	272		ug/Kg		82	48 - 120	3	20
Benzo[k]fluoranthene			331	308		ug/Kg		93	56 - 120	2	20
Chrysene			331	377		ug/Kg		114	40 - 120	3	20
Dibenz(a,h)anthracene			331	349		ug/Kg		105	50 - 120	3	20
Fluoranthene			331	295		ug/Kg		89	57 - 120	1	20
Fluorene			331	281		ug/Kg		85	52 - 120	3	20
Indeno[1,2,3-cd]pyrene			331	319		ug/Kg		96	48 - 120	3	20
Naphthalene			331	238		ug/Kg		72	46 - 120	3	20
Phenanthrene			331	268		ug/Kg		81	48 - 120	1	20
Pyrene			331	233		ug/Kg		70	53 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*81*		*33 - 120*
Terphenyl-d14	*86*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-127728/1-A
Matrix: Solid
Analysis Batch: 127769

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 127728

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		12/26/12 14:19	12/27/12 11:35	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		12/26/12 14:19	12/27/12 11:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.01*		*0 - 1*	*12/26/12 14:19*	*12/27/12 11:35*	*1*
p-Terphenyl	*98*		*38 - 148*	*12/26/12 14:19*	*12/27/12 11:35*	*1*

Lab Sample ID: LCS 720-127728/2-A
Matrix: Solid
Analysis Batch: 127693

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 127728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	82.4	75.8		mg/Kg		92	36 - 112

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*100*		*38 - 148*

Lab Sample ID: LCSD 720-127728/3-A
Matrix: Solid
Analysis Batch: 127693

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 127728

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	83.2	71.8		mg/Kg		86	36 - 112	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*97*		*38 - 148*

Lab Sample ID: MB 720-127807/1-A
Matrix: Solid
Analysis Batch: 127845

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 127807

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		12/27/12 14:54	12/28/12 20:52	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		12/27/12 14:54	12/28/12 20:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.06*		*0 - 1*	*12/27/12 14:54*	*12/28/12 20:52*	*1*
p-Terphenyl	*106*		*38 - 148*	*12/27/12 14:54*	*12/28/12 20:52*	*1*

Lab Sample ID: LCS 720-127807/2-A
Matrix: Solid
Analysis Batch: 127845

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 127807

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	82.6	80.8		mg/Kg		98	36 - 112

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-127807/2-A
Matrix: Solid
Analysis Batch: 127845

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 127807

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	*105*		*38 - 148*

Lab Sample ID: LCSD 720-127807/3-A
Matrix: Solid
Analysis Batch: 127845

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 127807

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			83.1	78.2		mg/Kg		94	36 - 112	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	*104*		*38 - 148*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-127673/1-A
Matrix: Solid
Analysis Batch: 127727

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127673

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.9		ug/Kg		12/24/12 13:44	12/26/12 18:50	1
Dieldrin	ND		1.9		ug/Kg		12/24/12 13:44	12/26/12 18:50	1
Endrin aldehyde	ND		1.9		ug/Kg		12/24/12 13:44	12/26/12 18:50	1
Endrin	ND		1.9		ug/Kg		12/24/12 13:44	12/26/12 18:50	1
Endrin ketone	ND		1.9		ug/Kg		12/24/12 13:44	12/26/12 18:50	1
Heptachlor	ND		1.9		ug/Kg		12/24/12 13:44	12/26/12 18:50	1
Heptachlor epoxide	ND		1.9		ug/Kg		12/24/12 13:44	12/26/12 18:50	1
4,4'-DDT	ND		1.9		ug/Kg		12/24/12 13:44	12/26/12 18:50	1
4,4'-DDE	ND		1.9		ug/Kg		12/24/12 13:44	12/26/12 18:50	1
4,4'-DDD	ND		1.9		ug/Kg		12/24/12 13:44	12/26/12 18:50	1
Endosulfan I	ND		1.9		ug/Kg		12/24/12 13:44	12/26/12 18:50	1
Endosulfan II	ND		1.9		ug/Kg		12/24/12 13:44	12/26/12 18:50	1
alpha-BHC	ND		1.9		ug/Kg		12/24/12 13:44	12/26/12 18:50	1
beta-BHC	ND		1.9		ug/Kg		12/24/12 13:44	12/26/12 18:50	1
gamma-BHC (Lindane)	ND		1.9		ug/Kg		12/24/12 13:44	12/26/12 18:50	1
delta-BHC	ND		1.9		ug/Kg		12/24/12 13:44	12/26/12 18:50	1
Endosulfan sulfate	ND		1.9		ug/Kg		12/24/12 13:44	12/26/12 18:50	1
Methoxychlor	ND		1.9		ug/Kg		12/24/12 13:44	12/26/12 18:50	1
Toxaphene	ND		39		ug/Kg		12/24/12 13:44	12/26/12 18:50	1
Chlordane (technical)	ND		39		ug/Kg		12/24/12 13:44	12/26/12 18:50	1
alpha-Chlordane	ND		1.9		ug/Kg		12/24/12 13:44	12/26/12 18:50	1
gamma-Chlordane	ND		1.9		ug/Kg		12/24/12 13:44	12/26/12 18:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*89*		*57 - 122*	*12/24/12 13:44*	*12/26/12 18:50*	*1*
DCB Decachlorobiphenyl	*128*		*21 - 136*	*12/24/12 13:44*	*12/26/12 18:50*	*1*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-127673/2-A
Matrix: Solid
Analysis Batch: 127727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127673

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aldrin			16.7	14.5		ug/Kg		87	65 - 120		
Dieldrin			16.7	18.4		ug/Kg		111	72 - 120		
Endrin aldehyde			16.7	16.9		ug/Kg		101	57 - 120		
Endrin			16.7	18.5		ug/Kg		111	68 - 120		
Endrin ketone			16.7	18.1		ug/Kg		109	67 - 120		
Heptachlor			16.7	14.9		ug/Kg		90	69 - 120		
Heptachlor epoxide			16.7	18.3		ug/Kg		110	68 - 120		
4,4'-DDT			16.7	17.4		ug/Kg		104	51 - 120		
4,4'-DDE			16.7	16.1		ug/Kg		96	70 - 120		
4,4'-DDD			16.7	17.9		ug/Kg		107	69 - 120		
Endosulfan I			16.7	18.4		ug/Kg		111	62 - 120		
Endosulfan II			16.7	19.4		ug/Kg		116	65 - 120		
alpha-BHC			16.7	14.2		ug/Kg		85	70 - 120		
beta-BHC			16.7	17.1		ug/Kg		103	81 - 120		
gamma-BHC (Lindane)			16.7	14.7		ug/Kg		88	72 - 120		
delta-BHC			16.7	14.1		ug/Kg		85	74 - 120		
Endosulfan sulfate			16.7	19.5		ug/Kg		117	67 - 120		
Methoxychlor			16.7	20.1		ug/Kg		121	61 - 142		
alpha-Chlordane			16.7	15.7		ug/Kg		94	70 - 120		
gamma-Chlordane			16.7	15.5		ug/Kg		93	68 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*89*		*57 - 122*
DCB Decachlorobiphenyl	*132*		*21 - 136*

Lab Sample ID: LCSD 720-127673/3-A
Matrix: Solid
Analysis Batch: 127727

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127673

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			16.2	14.0		ug/Kg		86	65 - 120	3	20
Dieldrin			16.2	19.3		ug/Kg		119	72 - 120	5	20
Endrin aldehyde			16.2	19.0		ug/Kg		117	57 - 120	12	20
Endrin			16.2	20.1	*	ug/Kg		124	68 - 120	8	20
Endrin ketone			16.2	18.1		ug/Kg		112	67 - 120	0	20
Heptachlor			16.2	14.7		ug/Kg		91	69 - 120	1	20
Heptachlor epoxide			16.2	18.2		ug/Kg		112	68 - 120	1	20
4,4'-DDT			16.2	18.4		ug/Kg		114	51 - 120	6	20
4,4'-DDE			16.2	16.9		ug/Kg		104	70 - 120	5	20
4,4'-DDD			16.2	18.9		ug/Kg		117	69 - 120	6	20
Endosulfan I			16.2	18.9		ug/Kg		116	62 - 120	2	20
Endosulfan II			16.2	21.0	*	ug/Kg		130	65 - 120	8	35
alpha-BHC			16.2	13.9		ug/Kg		85	70 - 120	2	20
beta-BHC			16.2	17.1		ug/Kg		106	81 - 120	0	20
gamma-BHC (Lindane)			16.2	14.4		ug/Kg		89	72 - 120	2	20
delta-BHC			16.2	14.2		ug/Kg		87	74 - 120	1	20
Endosulfan sulfate			16.2	21.8	*	ug/Kg		135	67 - 120	11	20
Methoxychlor			16.2	21.6		ug/Kg		133	61 - 142	7	20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 720-127673/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127727 — **Prep Batch: 127673**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-Chlordane			16.2	15.7		ug/Kg		97	70 - 120	0	20
gamma-Chlordane			16.2	15.7		ug/Kg		97	68 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*57 - 122*
DCB Decachlorobiphenyl	*133*		*21 - 136*

Lab Sample ID: MB 720-127795/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127819 — **Prep Batch: 127795**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 22:23	1
Dieldrin	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 22:23	1
Endrin aldehyde	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 22:23	1
Endrin	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 22:23	1
Endrin ketone	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 22:23	1
Heptachlor	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 22:23	1
Heptachlor epoxide	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 22:23	1
4,4'-DDT	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 22:23	1
4,4'-DDE	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 22:23	1
4,4'-DDD	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 22:23	1
Endosulfan I	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 22:23	1
Endosulfan II	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 22:23	1
alpha-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 22:23	1
beta-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 22:23	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 22:23	1
delta-BHC	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 22:23	1
Endosulfan sulfate	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 22:23	1
Methoxychlor	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 22:23	1
Toxaphene	ND		40		ug/Kg		12/27/12 14:17	12/27/12 22:23	1
Chlordane (technical)	ND		40		ug/Kg		12/27/12 14:17	12/27/12 22:23	1
alpha-Chlordane	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 22:23	1
gamma-Chlordane	ND		2.0		ug/Kg		12/27/12 14:17	12/27/12 22:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*57 - 122*	*12/27/12 14:17*	*12/27/12 22:23*	*1*
DCB Decachlorobiphenyl	*110*		*21 - 136*	*12/27/12 14:17*	*12/27/12 22:23*	*1*

Lab Sample ID: LCS 720-127795/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127819 — **Prep Batch: 127795**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin			16.2	13.9		ug/Kg		86	65 - 120
Dieldrin			16.2	14.9		ug/Kg		92	72 - 120
Endrin aldehyde			16.2	15.0		ug/Kg		92	57 - 120
Endrin			16.2	14.9		ug/Kg		92	68 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-127795/2-A
Matrix: Solid
Analysis Batch: 127819

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127795

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Endrin ketone			16.2	15.3		ug/Kg		94	67 - 120		
Heptachlor			16.2	13.7		ug/Kg		84	69 - 120		
Heptachlor epoxide			16.2	14.7		ug/Kg		91	68 - 120		
4,4'-DDT			16.2	15.9		ug/Kg		98	51 - 120		
4,4'-DDE			16.2	15.3		ug/Kg		94	70 - 120		
4,4'-DDD			16.2	15.5		ug/Kg		95	69 - 120		
Endosulfan I			16.2	14.8		ug/Kg		91	62 - 120		
Endosulfan II			16.2	15.5		ug/Kg		96	65 - 120		
alpha-BHC			16.2	13.4		ug/Kg		83	70 - 120		
beta-BHC			16.2	15.1		ug/Kg		93	81 - 120		
gamma-BHC (Lindane)			16.2	14.0		ug/Kg		86	72 - 120		
delta-BHC			16.2	13.5		ug/Kg		83	74 - 120		
Endosulfan sulfate			16.2	15.6		ug/Kg		96	67 - 120		
Methoxychlor			16.2	17.2		ug/Kg		106	61 - 142		
alpha-Chlordane			16.2	14.8		ug/Kg		91	70 - 120		
gamma-Chlordane			16.2	14.6		ug/Kg		90	68 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*89*		*57 - 122*
DCB Decachlorobiphenyl	*103*		*21 - 136*

Lab Sample ID: LCSD 720-127795/3-A
Matrix: Solid
Analysis Batch: 127819

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127795

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			16.2	13.7		ug/Kg		85	65 - 120	1	20
Dieldrin			16.2	14.8		ug/Kg		91	72 - 120	1	20
Endrin aldehyde			16.2	14.7		ug/Kg		91	57 - 120	1	20
Endrin			16.2	14.8		ug/Kg		91	68 - 120	0	20
Endrin ketone			16.2	15.1		ug/Kg		93	67 - 120	1	20
Heptachlor			16.2	13.4		ug/Kg		83	69 - 120	2	20
Heptachlor epoxide			16.2	14.6		ug/Kg		90	68 - 120	1	20
4,4'-DDT			16.2	15.9		ug/Kg		98	51 - 120	0	20
4,4'-DDE			16.2	15.1		ug/Kg		93	70 - 120	1	20
4,4'-DDD			16.2	15.6		ug/Kg		96	69 - 120	1	20
Endosulfan I			16.2	14.3		ug/Kg		88	62 - 120	3	20
Endosulfan II			16.2	15.4		ug/Kg		95	65 - 120	1	35
alpha-BHC			16.2	13.3		ug/Kg		82	70 - 120	1	20
beta-BHC			16.2	15.0		ug/Kg		92	81 - 120	0	20
gamma-BHC (Lindane)			16.2	13.8		ug/Kg		85	72 - 120	1	20
delta-BHC			16.2	13.6		ug/Kg		84	74 - 120	1	20
Endosulfan sulfate			16.2	15.6		ug/Kg		96	67 - 120	0	20
Methoxychlor			16.2	17.0		ug/Kg		105	61 - 142	1	20
alpha-Chlordane			16.2	14.6		ug/Kg		90	70 - 120	1	20
gamma-Chlordane			16.2	14.6		ug/Kg		90	68 - 120	1	20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 720-127795/3-A
Matrix: Solid
Analysis Batch: 127819

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127795

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	85		57 - 122
DCB Decachlorobiphenyl	105		21 - 136

Lab Sample ID: 720-46854-5 MS
Matrix: Solid
Analysis Batch: 127819

Client Sample ID: SB-1 (4 1/2-5)
Prep Type: Total/NA
Prep Batch: 127795

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	ND		16.2	14.3		ug/Kg		88	53 - 120
Dieldrin	ND		16.2	16.1		ug/Kg		100	46 - 130
Endrin aldehyde	ND		16.2	15.9		ug/Kg		98	40 - 120
Endrin	ND		16.2	16.3		ug/Kg		101	32 - 143
Endrin ketone	ND		16.2	18.1		ug/Kg		112	40 - 120
Heptachlor	ND		16.2	13.9		ug/Kg		85	52 - 120
Heptachlor epoxide	ND		16.2	15.7		ug/Kg		97	40 - 120
4,4'-DDT	ND		16.2	18.4		ug/Kg		113	17 - 144
4,4'-DDE	ND		16.2	17.6		ug/Kg		99	40 - 120
4,4'-DDD	ND		16.2	20.1	F	ug/Kg		124	40 - 120
Endosulfan I	ND		16.2	15.7		ug/Kg		97	40 - 120
Endosulfan II	ND		16.2	17.3		ug/Kg		107	40 - 120
alpha-BHC	ND		16.2	13.8		ug/Kg		85	40 - 120
beta-BHC	ND		16.2	19.4		ug/Kg		119	40 - 120
gamma-BHC (Lindane)	ND		16.2	19.6	F	ug/Kg		121	58 - 120
delta-BHC	ND		16.2	14.7		ug/Kg		91	40 - 120
Endosulfan sulfate	ND		16.2	17.8		ug/Kg		110	40 - 120
Methoxychlor	ND		16.2	22.4	F	ug/Kg		138	40 - 120
alpha-Chlordane	ND		16.2	15.7		ug/Kg		97	40 - 120
gamma-Chlordane	ND		16.2	15.8		ug/Kg		98	40 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	98		57 - 122
DCB Decachlorobiphenyl	126		21 - 136

Lab Sample ID: 720-46854-5 MSD
Matrix: Solid
Analysis Batch: 127819

Client Sample ID: SB-1 (4 1/2-5)
Prep Type: Total/NA
Prep Batch: 127795

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	ND		16.7	14.7		ug/Kg		88	53 - 120	3	20
Dieldrin	ND		16.7	17.3		ug/Kg		104	46 - 130	7	20
Endrin aldehyde	ND		16.7	15.8		ug/Kg		95	40 - 120	1	20
Endrin	ND		16.7	18.7		ug/Kg		112	32 - 143	14	20
Endrin ketone	ND		16.7	18.9		ug/Kg		113	40 - 120	4	20
Heptachlor	ND		16.7	14.1		ug/Kg		84	52 - 120	1	20
Heptachlor epoxide	ND		16.7	15.9		ug/Kg		96	40 - 120	2	20
4,4'-DDT	ND		16.7	19.1		ug/Kg		114	17 - 144	4	20
4,4'-DDE	ND		16.7	18.9		ug/Kg		105	40 - 120	7	20
4,4'-DDD	ND		16.7	21.4	F	ug/Kg		128	40 - 120	6	20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-46854-5 MSD
Matrix: Solid
Analysis Batch: 127819

Client Sample ID: SB-1 (4 1/2-5)
Prep Type: Total/NA
Prep Batch: 127795

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endosulfan I	ND		16.7	16.0		ug/Kg		96	40 - 120	2	20
Endosulfan II	ND		16.7	17.9		ug/Kg		108	40 - 120	3	30
alpha-BHC	ND		16.7	14.1		ug/Kg		84	40 - 120	2	20
beta-BHC	ND		16.7	18.3		ug/Kg		110	40 - 120	6	20
gamma-BHC (Lindane)	ND		16.7	15.8	F	ug/Kg		95	58 - 120	21	20
delta-BHC	ND		16.7	15.2		ug/Kg		91	40 - 120	3	20
Endosulfan sulfate	ND		16.7	18.4		ug/Kg		110	40 - 120	3	20
Methoxychlor	ND		16.7	23.2	F	ug/Kg		139	40 - 120	3	20
alpha-Chlordane	ND		16.7	16.0		ug/Kg		96	40 - 120	2	20
gamma-Chlordane	ND		16.7	16.2		ug/Kg		97	40 - 120	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*92*		*57 - 122*
DCB Decachlorobiphenyl	*122*		*21 - 136*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 720-127671/1-A
Matrix: Solid
Analysis Batch: 127816

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127671

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		48		ug/Kg		12/24/12 13:33	12/27/12 22:43	1
PCB-1221	ND		48		ug/Kg		12/24/12 13:33	12/27/12 22:43	1
PCB-1232	ND		48		ug/Kg		12/24/12 13:33	12/27/12 22:43	1
PCB-1242	ND		48		ug/Kg		12/24/12 13:33	12/27/12 22:43	1
PCB-1248	ND		48		ug/Kg		12/24/12 13:33	12/27/12 22:43	1
PCB-1254	ND		48		ug/Kg		12/24/12 13:33	12/27/12 22:43	1
PCB-1260	ND		48		ug/Kg		12/24/12 13:33	12/27/12 22:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*32 - 112*	*12/24/12 13:33*	*12/27/12 22:43*	*1*
DCB Decachlorobiphenyl	*92*		*2 - 122*	*12/24/12 13:33*	*12/27/12 22:43*	*1*

Lab Sample ID: LCS 720-127671/2-A
Matrix: Solid
Analysis Batch: 127816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127671

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			132	115		ug/Kg		87	65 - 120		
PCB-1260			132	110		ug/Kg		83	65 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*93*		*32 - 112*
DCB Decachlorobiphenyl	*89*		*2 - 122*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 720-127671/3-A
Matrix: Solid
Analysis Batch: 127816

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127671

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			133	125		ug/Kg		94	65 - 120	9	20
PCB-1260			133	127		ug/Kg		96	65 - 120	15	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*99*		*32 - 112*
DCB Decachlorobiphenyl	*103*		*2 - 122*

Lab Sample ID: MB 720-127800/1-A
Matrix: Solid
Analysis Batch: 127854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		12/27/12 14:25	12/28/12 14:32	1
PCB-1221	ND		50		ug/Kg		12/27/12 14:25	12/28/12 14:32	1
PCB-1232	ND		50		ug/Kg		12/27/12 14:25	12/28/12 14:32	1
PCB-1242	ND		50		ug/Kg		12/27/12 14:25	12/28/12 14:32	1
PCB-1248	ND		50		ug/Kg		12/27/12 14:25	12/28/12 14:32	1
PCB-1254	ND		50		ug/Kg		12/27/12 14:25	12/28/12 14:32	1
PCB-1260	ND		50		ug/Kg		12/27/12 14:25	12/28/12 14:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*32 - 112*	*12/27/12 14:25*	*12/28/12 14:32*	*1*
DCB Decachlorobiphenyl	*103*		*2 - 122*	*12/27/12 14:25*	*12/28/12 14:32*	*1*

Lab Sample ID: MB 720-127800/1-A
Matrix: Solid
Analysis Batch: 127932

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		12/27/12 14:25	12/30/12 16:12	1
PCB-1221	ND		50		ug/Kg		12/27/12 14:25	12/30/12 16:12	1
PCB-1232	ND		50		ug/Kg		12/27/12 14:25	12/30/12 16:12	1
PCB-1242	ND		50		ug/Kg		12/27/12 14:25	12/30/12 16:12	1
PCB-1248	ND		50		ug/Kg		12/27/12 14:25	12/30/12 16:12	1
PCB-1254	ND		50		ug/Kg		12/27/12 14:25	12/30/12 16:12	1
PCB-1260	ND		50		ug/Kg		12/27/12 14:25	12/30/12 16:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*102*		*32 - 112*	*12/27/12 14:25*	*12/30/12 16:12*	*1*
DCB Decachlorobiphenyl	*108*		*2 - 122*	*12/27/12 14:25*	*12/30/12 16:12*	*1*

Lab Sample ID: LCS 720-127800/2-A
Matrix: Solid
Analysis Batch: 127854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127800

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016			133	113		ug/Kg		85	65 - 120

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 720-127800/2-A
Matrix: Solid
Analysis Batch: 127854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127800

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1260			133	111		ug/Kg		83	65 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*92*		*32 - 112*
DCB Decachlorobiphenyl	*103*		*2 - 122*

Lab Sample ID: LCS 720-127800/2-A
Matrix: Solid
Analysis Batch: 127932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127800

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			133	142		ug/Kg		107	65 - 120		
PCB-1260			133	140		ug/Kg		106	65 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*109*		*32 - 112*
DCB Decachlorobiphenyl	*118*		*2 - 122*

Lab Sample ID: LCSD 720-127800/3-A
Matrix: Solid
Analysis Batch: 127854

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127800

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			132	113		ug/Kg		86	65 - 120	0	20
PCB-1260			132	110		ug/Kg		84	65 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*93*		*32 - 112*
DCB Decachlorobiphenyl	*100*		*2 - 122*

Lab Sample ID: LCSD 720-127800/3-A
Matrix: Solid
Analysis Batch: 127932

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127800

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			132	127		ug/Kg		96	65 - 120	11	20
PCB-1260			132	131		ug/Kg		99	65 - 120	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*99*		*32 - 112*
DCB Decachlorobiphenyl	*110*		*2 - 122*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 720-46854-5 MS
Matrix: Solid
Analysis Batch: 127932

Client Sample ID: SB-1 (4 1/2-5)
Prep Type: Total/NA
Prep Batch: 127800

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		133	135		ug/Kg		101	69 - 120
PCB-1260	ND		133	135		ug/Kg		101	73 - 114

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*105*		*32 - 112*
DCB Decachlorobiphenyl	*104*		*2 - 122*

Lab Sample ID: 720-46854-5 MSD
Matrix: Solid
Analysis Batch: 127932

Client Sample ID: SB-1 (4 1/2-5)
Prep Type: Total/NA
Prep Batch: 127800

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		133	168	F	ug/Kg		126	69 - 120	22	20
PCB-1260	ND		133	151		ug/Kg		114	73 - 114	12	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*113*	*X*	*32 - 112*
DCB Decachlorobiphenyl	*114*		*2 - 122*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-127751/1-A
Matrix: Solid
Analysis Batch: 127810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127751

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		12/26/12 18:45	12/27/12 13:34	1
Arsenic	ND		1.0		mg/Kg		12/26/12 18:45	12/27/12 13:34	1
Barium	ND		0.50		mg/Kg		12/26/12 18:45	12/27/12 13:34	1
Beryllium	ND		0.10		mg/Kg		12/26/12 18:45	12/27/12 13:34	1
Cadmium	ND		0.13		mg/Kg		12/26/12 18:45	12/27/12 13:34	1
Chromium	ND		0.50		mg/Kg		12/26/12 18:45	12/27/12 13:34	1
Cobalt	ND		0.20		mg/Kg		12/26/12 18:45	12/27/12 13:34	1
Copper	ND		1.5		mg/Kg		12/26/12 18:45	12/27/12 13:34	1
Lead	ND		0.50		mg/Kg		12/26/12 18:45	12/27/12 13:34	1
Molybdenum	ND		0.50		mg/Kg		12/26/12 18:45	12/27/12 13:34	1
Nickel	ND		0.50		mg/Kg		12/26/12 18:45	12/27/12 13:34	1
Selenium	ND		1.0		mg/Kg		12/26/12 18:45	12/27/12 13:34	1
Silver	ND		0.25		mg/Kg		12/26/12 18:45	12/27/12 13:34	1
Thallium	ND		0.50		mg/Kg		12/26/12 18:45	12/27/12 13:34	1
Vanadium	ND		0.50		mg/Kg		12/26/12 18:45	12/27/12 13:34	1
Zinc	ND		1.5		mg/Kg		12/26/12 18:45	12/27/12 13:34	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-127751/2-A
Matrix: Solid
Analysis Batch: 127810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127751

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	45.6		mg/Kg		91	80 - 120
Arsenic	50.0	47.0		mg/Kg		94	80 - 120
Barium	50.0	49.1		mg/Kg		98	80 - 120
Beryllium	50.0	49.1		mg/Kg		98	80 - 120
Cadmium	50.0	47.2		mg/Kg		94	80 - 120
Chromium	50.0	48.5		mg/Kg		97	80 - 120
Cobalt	50.0	48.9		mg/Kg		98	80 - 120
Copper	50.0	48.3		mg/Kg		97	80 - 120
Lead	50.0	48.3		mg/Kg		97	80 - 120
Molybdenum	50.0	49.0		mg/Kg		98	80 - 120
Nickel	50.0	48.4		mg/Kg		97	80 - 120
Selenium	50.0	46.1		mg/Kg		92	80 - 120
Silver	25.0	23.9		mg/Kg		95	80 - 120
Thallium	50.0	48.8		mg/Kg		98	80 - 120
Vanadium	50.0	48.3		mg/Kg		97	80 - 120
Zinc	50.0	48.1		mg/Kg		96	80 - 120

Lab Sample ID: LCSD 720-127751/3-A
Matrix: Solid
Analysis Batch: 127810

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127751

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	46.5		mg/Kg		93	80 - 120	2	20
Arsenic	50.0	47.7		mg/Kg		95	80 - 120	2	20
Barium	50.0	50.2		mg/Kg		100	80 - 120	2	20
Beryllium	50.0	50.0		mg/Kg		100	80 - 120	2	20
Cadmium	50.0	47.6		mg/Kg		95	80 - 120	1	20
Chromium	50.0	49.4		mg/Kg		99	80 - 120	2	20
Cobalt	50.0	49.6		mg/Kg		99	80 - 120	1	20
Copper	50.0	49.1		mg/Kg		98	80 - 120	2	20
Lead	50.0	49.1		mg/Kg		98	80 - 120	1	20
Molybdenum	50.0	49.6		mg/Kg		99	80 - 120	1	20
Nickel	50.0	49.0		mg/Kg		98	80 - 120	1	20
Selenium	50.0	46.8		mg/Kg		94	80 - 120	1	20
Silver	25.0	24.5		mg/Kg		98	80 - 120	2	20
Thallium	50.0	49.6		mg/Kg		99	80 - 120	2	20
Vanadium	50.0	49.1		mg/Kg		98	80 - 120	2	20
Zinc	50.0	48.9		mg/Kg		98	80 - 120	2	20

Lab Sample ID: LCSSRM 720-127751/25-A
Matrix: Solid
Analysis Batch: 127810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127751

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	76.3	38.9		mg/Kg		51	11 - 101
Arsenic	84.1	80.6		mg/Kg		96	69 - 119
Barium	517	489		mg/Kg		95	61 - 117
Beryllium	153	145		mg/Kg		95	56 - 102

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 720-127751/25-A
Matrix: Solid
Analysis Batch: 127810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127751

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	42.0	40.5		mg/Kg		96	67 - 118
Chromium	269	264		mg/Kg		98	67 - 121
Cobalt	323	316		mg/Kg		98	64 - 133
Copper	263	253		mg/Kg		96	68 - 126
Lead	280	267		mg/Kg		95	62 - 113
Molybdenum	215	212		mg/Kg		98	62 - 128
Nickel	106	102		mg/Kg		96	65 - 117
Selenium	138	130		mg/Kg		94	63 - 126
Silver	50.4	50.6		mg/Kg		100	51 - 130
Thallium	331	321		mg/Kg		97	64 - 124
Vanadium	142	138		mg/Kg		98	67 - 123
Zinc	574	556		mg/Kg		97	62 - 110

Lab Sample ID: MB 720-127757/1-A
Matrix: Solid
Analysis Batch: 127839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127757

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		12/26/12 21:36	12/27/12 18:57	1
Arsenic	ND		1.0		mg/Kg		12/26/12 21:36	12/27/12 18:57	1
Barium	ND		0.50		mg/Kg		12/26/12 21:36	12/27/12 18:57	1
Beryllium	ND		0.10		mg/Kg		12/26/12 21:36	12/27/12 18:57	1
Cadmium	ND		0.13		mg/Kg		12/26/12 21:36	12/27/12 18:57	1
Chromium	ND		0.50		mg/Kg		12/26/12 21:36	12/27/12 18:57	1
Cobalt	ND		0.20		mg/Kg		12/26/12 21:36	12/27/12 18:57	1
Copper	ND		1.5		mg/Kg		12/26/12 21:36	12/27/12 18:57	1
Lead	ND		0.50		mg/Kg		12/26/12 21:36	12/27/12 18:57	1
Molybdenum	ND		0.50		mg/Kg		12/26/12 21:36	12/27/12 18:57	1
Nickel	ND		0.50		mg/Kg		12/26/12 21:36	12/27/12 18:57	1
Selenium	ND		1.0		mg/Kg		12/26/12 21:36	12/27/12 18:57	1
Silver	ND		0.25		mg/Kg		12/26/12 21:36	12/27/12 18:57	1
Thallium	ND		0.50		mg/Kg		12/26/12 21:36	12/27/12 18:57	1
Vanadium	ND		0.50		mg/Kg		12/26/12 21:36	12/27/12 18:57	1
Zinc	ND		1.5		mg/Kg		12/26/12 21:36	12/27/12 18:57	1

Lab Sample ID: LCS 720-127757/2-A
Matrix: Solid
Analysis Batch: 127839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127757

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.8		mg/Kg		96	80 - 120
Arsenic	50.0	50.0		mg/Kg		100	80 - 120
Barium	50.0	53.1		mg/Kg		106	80 - 120
Beryllium	50.0	53.1		mg/Kg		106	80 - 120
Cadmium	50.0	50.0		mg/Kg		100	80 - 120
Chromium	50.0	51.8		mg/Kg		104	80 - 120
Cobalt	50.0	51.7		mg/Kg		103	80 - 120
Copper	50.0	51.5		mg/Kg		103	80 - 120
Lead	50.0	51.0		mg/Kg		102	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-127757/2-A
Matrix: Solid
Analysis Batch: 127839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127757

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Molybdenum	50.0	52.4		mg/Kg		105	80 - 120
Nickel	50.0	51.2		mg/Kg		102	80 - 120
Selenium	50.0	48.7		mg/Kg		97	80 - 120
Silver	25.0	25.1		mg/Kg		100	80 - 120
Thallium	50.0	51.5		mg/Kg		103	80 - 120
Vanadium	50.0	51.4		mg/Kg		103	80 - 120
Zinc	50.0	51.1		mg/Kg		102	80 - 120

Lab Sample ID: LCSD 720-127757/3-A
Matrix: Solid
Analysis Batch: 127839

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127757

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	47.6		mg/Kg		95	80 - 120	0	20
Arsenic	50.0	49.2		mg/Kg		98	80 - 120	2	20
Barium	50.0	50.9		mg/Kg		102	80 - 120	4	20
Beryllium	50.0	50.6		mg/Kg		101	80 - 120	5	20
Cadmium	50.0	49.1		mg/Kg		98	80 - 120	2	20
Chromium	50.0	51.0		mg/Kg		102	80 - 120	2	20
Cobalt	50.0	50.9		mg/Kg		102	80 - 120	2	20
Copper	50.0	50.1		mg/Kg		100	80 - 120	3	20
Lead	50.0	50.2		mg/Kg		100	80 - 120	1	20
Molybdenum	50.0	51.4		mg/Kg		103	80 - 120	2	20
Nickel	50.0	50.3		mg/Kg		101	80 - 120	2	20
Selenium	50.0	47.7		mg/Kg		95	80 - 120	2	20
Silver	25.0	25.0		mg/Kg		100	80 - 120	0	20
Thallium	50.0	50.7		mg/Kg		101	80 - 120	1	20
Vanadium	50.0	50.5		mg/Kg		101	80 - 120	2	20
Zinc	50.0	50.1		mg/Kg		100	80 - 120	2	20

Lab Sample ID: LCSSRM 720-127757/25-A
Matrix: Solid
Analysis Batch: 127839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127757

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	76.3	49.0		mg/Kg		64	11 - 101
Arsenic	84.1	82.5		mg/Kg		98	69 - 119
Barium	517	485		mg/Kg		94	61 - 117
Beryllium	153	148		mg/Kg		97	56 - 102
Cadmium	42.0	42.4		mg/Kg		101	67 - 118
Chromium	269	267		mg/Kg		99	67 - 121
Cobalt	323	320		mg/Kg		99	64 - 133
Copper	263	257		mg/Kg		98	68 - 126
Lead	280	273		mg/Kg		98	62 - 113
Molybdenum	215	226		mg/Kg		105	62 - 128
Nickel	106	105		mg/Kg		99	65 - 117
Selenium	138	133		mg/Kg		96	63 - 126
Silver	50.4	51.8		mg/Kg		103	51 - 130
Thallium	331	328		mg/Kg		99	64 - 124

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 720-127757/25-A
Matrix: Solid
Analysis Batch: 127839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127757

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	142	140		mg/Kg		98	67 - 123
Zinc	574	570		mg/Kg		99	62 - 110

Lab Sample ID: 720-46854-2 MS
Matrix: Solid
Analysis Batch: 127839

Client Sample ID: SB-4 (2 1/2-3)
Prep Type: Total/NA
Prep Batch: 127757

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		49.5	20.2	F	mg/Kg		41	75 - 125
Arsenic	6.2		49.5	51.0		mg/Kg		90	75 - 125
Barium	350		49.5	354	4	mg/Kg		13	75 - 125
Beryllium	0.79		49.5	50.5		mg/Kg		100	75 - 125
Cadmium	ND		49.5	45.2		mg/Kg		91	75 - 125
Chromium	71		49.5	121		mg/Kg		100	75 - 125
Cobalt	16		49.5	61.4		mg/Kg		92	75 - 125
Copper	41		49.5	88.7		mg/Kg		95	75 - 125
Lead	11		49.5	56.0		mg/Kg		91	75 - 125
Molybdenum	ND		49.5	43.8		mg/Kg		88	75 - 125
Nickel	96		49.5	140		mg/Kg		88	75 - 125
Selenium	ND		49.5	41.3		mg/Kg		83	75 - 125
Silver	ND		24.8	25.2		mg/Kg		102	75 - 125
Thallium	ND		49.5	44.1		mg/Kg		89	75 - 125
Vanadium	52		49.5	98.3		mg/Kg		94	75 - 125
Zinc	76		49.5	123		mg/Kg		94	75 - 125

Lab Sample ID: 720-46854-2 MSD
Matrix: Solid
Analysis Batch: 127839

Client Sample ID: SB-4 (2 1/2-3)
Prep Type: Total/NA
Prep Batch: 127757

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		50.0	18.4	F	mg/Kg		37	75 - 125	9	20
Arsenic	6.2		50.0	50.1		mg/Kg		88	75 - 125	2	20
Barium	350		50.0	334	4	mg/Kg		-26	75 - 125	6	20
Beryllium	0.79		50.0	49.7		mg/Kg		98	75 - 125	2	20
Cadmium	ND		50.0	44.4		mg/Kg		89	75 - 125	2	20
Chromium	71		50.0	117		mg/Kg		92	75 - 125	3	20
Cobalt	16		50.0	62.1		mg/Kg		92	75 - 125	1	20
Copper	41		50.0	87.5		mg/Kg		92	75 - 125	1	20
Lead	11		50.0	55.5		mg/Kg		89	75 - 125	1	20
Molybdenum	ND		50.0	43.1		mg/Kg		86	75 - 125	2	20
Nickel	96		50.0	141		mg/Kg		89	75 - 125	0	20
Selenium	ND		50.0	41.7		mg/Kg		83	75 - 125	1	20
Silver	ND		25.0	24.2		mg/Kg		97	75 - 125	4	20
Thallium	ND		50.0	43.7		mg/Kg		87	75 - 125	1	20
Vanadium	52		50.0	97.4		mg/Kg		91	75 - 125	1	20
Zinc	76		50.0	120		mg/Kg		87	75 - 125	2	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-127825/1-A
Matrix: Solid
Analysis Batch: 127865

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.50		mg/Kg		12/27/12 18:22	12/28/12 09:24	1
Cadmium	ND		0.13		mg/Kg		12/27/12 18:22	12/28/12 09:24	1
Lead	ND		0.50		mg/Kg		12/27/12 18:22	12/28/12 09:24	1
Molybdenum	ND		0.50		mg/Kg		12/27/12 18:22	12/28/12 09:24	1
Nickel	ND		0.50		mg/Kg		12/27/12 18:22	12/28/12 09:24	1
Selenium	ND		1.0		mg/Kg		12/27/12 18:22	12/28/12 09:24	1
Silver	ND		0.25		mg/Kg		12/27/12 18:22	12/28/12 09:24	1
Thallium	ND		0.50		mg/Kg		12/27/12 18:22	12/28/12 09:24	1
Vanadium	ND		0.50		mg/Kg		12/27/12 18:22	12/28/12 09:24	1

Lab Sample ID: MB 720-127825/1-A
Matrix: Solid
Analysis Batch: 127908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		12/27/12 18:22	12/28/12 19:24	1
Arsenic	ND		1.0		mg/Kg		12/27/12 18:22	12/28/12 19:24	1
Beryllium	ND		0.10		mg/Kg		12/27/12 18:22	12/28/12 19:24	1
Chromium	ND		0.50		mg/Kg		12/27/12 18:22	12/28/12 19:24	1
Cobalt	ND		0.20		mg/Kg		12/27/12 18:22	12/28/12 19:24	1
Copper	ND		1.5		mg/Kg		12/27/12 18:22	12/28/12 19:24	1
Zinc	ND		1.5		mg/Kg		12/27/12 18:22	12/28/12 19:24	1

Lab Sample ID: LCS 720-127825/2-A
Matrix: Solid
Analysis Batch: 127865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	50.0	45.8		mg/Kg		92	80 - 120
Cadmium	50.0	45.2		mg/Kg		90	80 - 120
Lead	50.0	45.3		mg/Kg		91	80 - 120
Molybdenum	50.0	45.7		mg/Kg		91	80 - 120
Nickel	50.0	45.4		mg/Kg		91	80 - 120
Selenium	50.0	44.8		mg/Kg		90	80 - 120
Silver	25.0	22.2		mg/Kg		89	80 - 120
Thallium	50.0	45.6		mg/Kg		91	80 - 120
Vanadium	50.0	48.1		mg/Kg		96	80 - 120

Lab Sample ID: LCS 720-127825/2-A
Matrix: Solid
Analysis Batch: 127908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.4		mg/Kg		95	80 - 120
Arsenic	50.0	47.8		mg/Kg		96	80 - 120
Beryllium	50.0	48.4		mg/Kg		97	80 - 120
Chromium	50.0	48.3		mg/Kg		97	80 - 120
Cobalt	50.0	49.5		mg/Kg		99	80 - 120
Copper	50.0	49.3		mg/Kg		99	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-127825/2-A
Matrix: Solid
Analysis Batch: 127908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	50.0	48.7		mg/Kg		97	80 - 120

Lab Sample ID: LCSD 720-127825/3-A
Matrix: Solid
Analysis Batch: 127865

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127825

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	50.0	45.6		mg/Kg		91	80 - 120	0	20
Cadmium	50.0	45.3		mg/Kg		91	80 - 120	0	20
Lead	50.0	45.4		mg/Kg		91	80 - 120	0	20
Molybdenum	50.0	45.6		mg/Kg		91	80 - 120	0	20
Nickel	50.0	45.4		mg/Kg		91	80 - 120	0	20
Selenium	50.0	45.4		mg/Kg		91	80 - 120	1	20
Silver	25.0	22.3		mg/Kg		89	80 - 120	1	20
Thallium	50.0	45.7		mg/Kg		91	80 - 120	0	20
Vanadium	50.0	47.8		mg/Kg		96	80 - 120	1	20

Lab Sample ID: LCSD 720-127825/3-A
Matrix: Solid
Analysis Batch: 127908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127825

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	48.0		mg/Kg		96	80 - 120	1	20
Arsenic	50.0	48.0		mg/Kg		96	80 - 120	0	20
Beryllium	50.0	48.6		mg/Kg		97	80 - 120	0	20
Chromium	50.0	48.8		mg/Kg		98	80 - 120	1	20
Cobalt	50.0	49.5		mg/Kg		99	80 - 120	0	20
Copper	50.0	49.3		mg/Kg		99	80 - 120	0	20
Zinc	50.0	48.8		mg/Kg		98	80 - 120	0	20

Lab Sample ID: LCSSRM 720-127825/25-A
Matrix: Solid
Analysis Batch: 127865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127825

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	517	438		mg/Kg		85	61 - 117
Cadmium	42.0	36.3		mg/Kg		86	67 - 118
Lead	280	232		mg/Kg		83	62 - 113
Molybdenum	215	187		mg/Kg		87	62 - 128
Nickel	106	88.4		mg/Kg		83	65 - 117
Selenium	138	124		mg/Kg		90	63 - 126
Silver	50.4	44.7		mg/Kg		89	51 - 130
Thallium	331	275		mg/Kg		83	64 - 124
Vanadium	142	137		mg/Kg		96	67 - 123

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 720-127825/25-A
Matrix: Solid
Analysis Batch: 127908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127825

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	76.3	52.2		mg/Kg		68	11 - 101
Arsenic	84.1	81.8		mg/Kg		97	69 - 119
Beryllium	153	145		mg/Kg		94	56 - 102
Chromium	269	262		mg/Kg		97	67 - 121
Cobalt	323	316		mg/Kg		98	64 - 133
Copper	263	259		mg/Kg		99	68 - 126
Zinc	574	548		mg/Kg		95	62 - 110

Lab Sample ID: 720-46854-24 MS
Matrix: Solid
Analysis Batch: 127865

Client Sample ID: SB-2 (2 1/2-3)
Prep Type: Total/NA
Prep Batch: 127825

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	240		48.1	348	4	mg/Kg		44	75 - 125
Cadmium	ND		48.1	50.5		mg/Kg		105	75 - 125
Lead	23		48.1	76.6		mg/Kg		100	75 - 125
Molybdenum	ND		48.1	48.0		mg/Kg		98	75 - 125
Nickel	120		48.1	181		mg/Kg		77	75 - 125
Selenium	ND		48.1	50.8		mg/Kg		104	75 - 125
Silver	ND		24.0	28.2		mg/Kg		117	75 - 125
Thallium	ND		48.1	47.7		mg/Kg		98	75 - 125
Vanadium	51		48.1	127		mg/Kg		112	75 - 125

Lab Sample ID: 720-46854-24 MS
Matrix: Solid
Analysis Batch: 127908

Client Sample ID: SB-2 (2 1/2-3)
Prep Type: Total/NA
Prep Batch: 127825

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		48.1	18.8	F	mg/Kg		37	75 - 125
Arsenic	12		48.1	66.2		mg/Kg		113	75 - 125
Beryllium	0.54		48.1	57.3		mg/Kg		118	75 - 125
Chromium	77		48.1	149	F	mg/Kg		150	75 - 125
Cobalt	16		48.1	70.0		mg/Kg		111	75 - 125
Copper	70		48.1	140	F	mg/Kg		146	75 - 125
Zinc	88		48.1	157	F	mg/Kg		142	75 - 125

Lab Sample ID: 720-46854-24 MSD
Matrix: Solid
Analysis Batch: 127865

Client Sample ID: SB-2 (2 1/2-3)
Prep Type: Total/NA
Prep Batch: 127825

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	330		50.0	369	4	mg/Kg		83	75 - 125	6	20
Cadmium	ND		50.0	53.4		mg/Kg		107	75 - 125	6	20
Lead	28		50.0	77.7		mg/Kg		99	75 - 125	1	20
Molybdenum	ND		50.0	50.3		mg/Kg		99	75 - 125	5	20
Nickel	140		50.0	183		mg/Kg		78	75 - 125	1	20
Selenium	ND		50.0	53.7		mg/Kg		106	75 - 125	6	20
Silver	ND		25.0	30.2		mg/Kg		121	75 - 125	7	20
Thallium	ND		50.0	50.7		mg/Kg		100	75 - 125	6	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-46854-24 MSD — **Client Sample ID: SB-2 (2 1/2-3)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127865 — **Prep Batch: 127825**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vanadium	73		50.0	131		mg/Kg		117	75 - 125	4	20

Lab Sample ID: 720-46854-24 MSD — **Client Sample ID: SB-2 (2 1/2-3)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127908 — **Prep Batch: 127825**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		50.0	16.6	F	mg/Kg		31	75 - 125	12	20
Arsenic	12		50.0	60.1		mg/Kg		96	75 - 125	10	20
Beryllium	0.54		50.0	51.4		mg/Kg		102	75 - 125	11	20
Chromium	77		50.0	132		mg/Kg		110	75 - 125	12	20
Cobalt	16		50.0	63.9		mg/Kg		95	75 - 125	9	20
Copper	70		50.0	123		mg/Kg		106	75 - 125	13	20
Zinc	88		50.0	139		mg/Kg		102	75 - 125	12	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-127687/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127812 — **Prep Batch: 127687**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		12/24/12 18:08	12/27/12 14:21	1

Lab Sample ID: LCS 720-127687/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127812 — **Prep Batch: 127687**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.826		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 720-127687/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127812 — **Prep Batch: 127687**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.833	0.832		mg/Kg		100	80 - 120	1	20

Lab Sample ID: MB 720-127702/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 127734 — **Prep Batch: 127702**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		12/26/12 09:16	12/26/12 13:38	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-127702/2-A
Matrix: Solid
Analysis Batch: 127734

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127702

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.850		mg/Kg		102	80 - 120

Lab Sample ID: LCSD 720-127702/3-A
Matrix: Solid
Analysis Batch: 127734

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127702

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.833	0.850		mg/Kg		102	80 - 120	0	20

GC/MS VOA

Analysis Batch: 127610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-1	SB-4 (1- 1 1/2)	Total/NA	Solid	8260B/CA_LUFT MS	127622
720-46854-3	SB-1 (1-1 1/2)	Total/NA	Solid	8260B/CA_LUFT MS	127622
720-46854-5	SB-1 (4 1/2-5)	Total/NA	Solid	8260B/CA_LUFT MS	127622
720-46854-8	SB-5 (1 1/2-2)	Total/NA	Solid	8260B/CA_LUFT MS	127622
720-46854-10	SB-6 (1-1 1/2)	Total/NA	Solid	8260B/CA_LUFT MS	127622
720-46854-12	SB-9 (1-1 1/2)	Total/NA	Solid	8260B/CA_LUFT MS	127622
720-46854-20	SB-3 (4 1/2-5)	Total/NA	Solid	8260B/CA_LUFT MS	127622
720-46854-23	SB-2 (1-1 1/2)	Total/NA	Solid	8260B/CA_LUFT MS	127622
LCS 720-127622/2-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	127622
LCS 720-127622/4-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	127622
LCSD 720-127622/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	127622
LCSD 720-127622/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	127622
MB 720-127622/1-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	127622

Prep Batch: 127622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-1	SB-4 (1- 1 1/2)	Total/NA	Solid	5035	
720-46854-3	SB-1 (1-1 1/2)	Total/NA	Solid	5035	
720-46854-5	SB-1 (4 1/2-5)	Total/NA	Solid	5035	
720-46854-8	SB-5 (1 1/2-2)	Total/NA	Solid	5035	
720-46854-10	SB-6 (1-1 1/2)	Total/NA	Solid	5035	
720-46854-12	SB-9 (1-1 1/2)	Total/NA	Solid	5035	
720-46854-20	SB-3 (4 1/2-5)	Total/NA	Solid	5035	
720-46854-23	SB-2 (1-1 1/2)	Total/NA	Solid	5035	
LCS 720-127622/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 720-127622/4-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 720-127622/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	
LCSD 720-127622/5-A	Lab Control Sample Dup	Total/NA	Solid	5035	
MB 720-127622/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 127638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-14	SB-8 (1-1 1/2)	Total/NA	Solid	8260B/CA_LUFT MS	127656
720-46854-16	SB-7 (1-1 1/2)	Total/NA	Solid	8260B/CA_LUFT MS	127656
720-46854-18	SB-3 (1-1 1/2)	Total/NA	Solid	8260B/CA_LUFT MS	127656
720-46854-25	SB-2 (4 1/2-5)	Total/NA	Solid	8260B/CA_LUFT MS	127656
LCS 720-127656/2-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	127656

GC/MS VOA (Continued)

Analysis Batch: 127638 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-127656/4-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	127656
LCSD 720-127656/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	127656
LCSD 720-127656/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	127656
MB 720-127656/1-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	127656

Prep Batch: 127656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-14	SB-8 (1-1 1/2)	Total/NA	Solid	5035	
720-46854-16	SB-7 (1-1 1/2)	Total/NA	Solid	5035	
720-46854-18	SB-3 (1-1 1/2)	Total/NA	Solid	5035	
720-46854-25	SB-2 (4 1/2-5)	Total/NA	Solid	5035	
LCS 720-127656/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 720-127656/4-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 720-127656/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	
LCSD 720-127656/5-A	Lab Control Sample Dup	Total/NA	Solid	5035	
MB 720-127656/1-A	Method Blank	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 127616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-1	SB-4 (1- 1 1/2)	Total/NA	Solid	3546	
720-46854-3	SB-1 (1-1 1/2)	Total/NA	Solid	3546	
720-46854-5	SB-1 (4 1/2-5)	Total/NA	Solid	3546	
720-46854-8	SB-5 (1 1/2-2)	Total/NA	Solid	3546	
720-46854-12	SB-9 (1-1 1/2)	Total/NA	Solid	3546	
720-46854-18	SB-3 (1-1 1/2)	Total/NA	Solid	3546	
720-46854-20	SB-3 (4 1/2-5)	Total/NA	Solid	3546	
720-46854-23	SB-2 (1-1 1/2)	Total/NA	Solid	3546	
LCS 720-127616/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-127616/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-127616/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 127706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-1	SB-4 (1- 1 1/2)	Total/NA	Solid	8270C	127616
720-46854-3	SB-1 (1-1 1/2)	Total/NA	Solid	8270C	127616
720-46854-5	SB-1 (4 1/2-5)	Total/NA	Solid	8270C	127616
720-46854-8	SB-5 (1 1/2-2)	Total/NA	Solid	8270C	127616
720-46854-12	SB-9 (1-1 1/2)	Total/NA	Solid	8270C	127616
720-46854-18	SB-3 (1-1 1/2)	Total/NA	Solid	8270C	127616
720-46854-20	SB-3 (4 1/2-5)	Total/NA	Solid	8270C	127616
720-46854-23	SB-2 (1-1 1/2)	Total/NA	Solid	8270C	127616
LCS 720-127616/2-A	Lab Control Sample	Total/NA	Solid	8270C	127616
LCSD 720-127616/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C	127616
MB 720-127616/1-A	Method Blank	Total/NA	Solid	8270C	127616

GC/MS Semi VOA (Continued)

Prep Batch: 127783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-2	SB-4 (2 1/2-3)	Total/NA	Solid	3546	
720-46854-4	SB-1 (3-3 1/2)	Total/NA	Solid	3546	
720-46854-9	SB-5 (2 1/2-3)	Total/NA	Solid	3546	
720-46854-13	SB-9 (2 1/2-3)	Total/NA	Solid	3546	
720-46854-19	SB-3 (2 1/2-3)	Total/NA	Solid	3546	
720-46854-24	SB-2 (2 1/2-3)	Total/NA	Solid	3546	
LCS 720-127783/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-127783/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-127783/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 127803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-19	SB-3 (2 1/2-3)	Total/NA	Solid	8270C SIM	127783

Analysis Batch: 127821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-2	SB-4 (2 1/2-3)	Total/NA	Solid	8270C SIM	127783
720-46854-4	SB-1 (3-3 1/2)	Total/NA	Solid	8270C SIM	127783
720-46854-9	SB-5 (2 1/2-3)	Total/NA	Solid	8270C SIM	127783
720-46854-13	SB-9 (2 1/2-3)	Total/NA	Solid	8270C SIM	127783
720-46854-24	SB-2 (2 1/2-3)	Total/NA	Solid	8270C SIM	127783
LCS 720-127783/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	127783
LCSD 720-127783/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	127783
MB 720-127783/1-A	Method Blank	Total/NA	Solid	8270C SIM	127783

Prep Batch: 127826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-25	SB-2 (4 1/2-5)	Total/NA	Solid	3546	
720-46854-25 MS	SB-2 (4 1/2-5)	Total/NA	Solid	3546	
720-46854-25 MSD	SB-2 (4 1/2-5)	Total/NA	Solid	3546	
LCS 720-127826/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-127826/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-127826/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 128070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-25	SB-2 (4 1/2-5)	Total/NA	Solid	8270C	127826
720-46854-25 MS	SB-2 (4 1/2-5)	Total/NA	Solid	8270C	127826
720-46854-25 MSD	SB-2 (4 1/2-5)	Total/NA	Solid	8270C	127826
LCS 720-127826/2-A	Lab Control Sample	Total/NA	Solid	8270C	127826
LCSD 720-127826/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C	127826
MB 720-127826/1-A	Method Blank	Total/NA	Solid	8270C	127826

GC Semi VOA

Prep Batch: 127671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-1	SB-4 (1- 1 1/2)	Total/NA	Solid	3546	
720-46854-2	SB-4 (2 1/2-3)	Total/NA	Solid	3546	
720-46854-3	SB-1 (1-1 1/2)	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 127671 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-4	SB-1 (3-3 1/2)	Total/NA	Solid	3546	
LCS 720-127671/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-127671/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-127671/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 127673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-1	SB-4 (1- 1 1/2)	Total/NA	Solid	3546	
720-46854-2	SB-4 (2 1/2-3)	Total/NA	Solid	3546	
720-46854-3	SB-1 (1-1 1/2)	Total/NA	Solid	3546	
720-46854-4	SB-1 (3-3 1/2)	Total/NA	Solid	3546	
LCS 720-127673/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-127673/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-127673/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 127693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-127728/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	127728
LCSD 720-127728/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	127728

Analysis Batch: 127694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-1	SB-4 (1- 1 1/2)	Silica Gel Cleanup	Solid	8015B	127728
720-46854-3	SB-1 (1-1 1/2)	Silica Gel Cleanup	Solid	8015B	127728
720-46854-5	SB-1 (4 1/2-5)	Silica Gel Cleanup	Solid	8015B	127728
720-46854-8	SB-5 (1 1/2-2)	Silica Gel Cleanup	Solid	8015B	127728
720-46854-10	SB-6 (1-1 1/2)	Silica Gel Cleanup	Solid	8015B	127728
720-46854-12	SB-9 (1-1 1/2)	Silica Gel Cleanup	Solid	8015B	127728

Analysis Batch: 127727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-1	SB-4 (1- 1 1/2)	Total/NA	Solid	8081A	127673
720-46854-2	SB-4 (2 1/2-3)	Total/NA	Solid	8081A	127673
720-46854-3	SB-1 (1-1 1/2)	Total/NA	Solid	8081A	127673
720-46854-4	SB-1 (3-3 1/2)	Total/NA	Solid	8081A	127673
LCS 720-127673/2-A	Lab Control Sample	Total/NA	Solid	8081A	127673
LCSD 720-127673/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	127673
MB 720-127673/1-A	Method Blank	Total/NA	Solid	8081A	127673

Prep Batch: 127728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-1	SB-4 (1- 1 1/2)	Silica Gel Cleanup	Solid	3546	
720-46854-3	SB-1 (1-1 1/2)	Silica Gel Cleanup	Solid	3546	
720-46854-5	SB-1 (4 1/2-5)	Silica Gel Cleanup	Solid	3546	
720-46854-8	SB-5 (1 1/2-2)	Silica Gel Cleanup	Solid	3546	
720-46854-10	SB-6 (1-1 1/2)	Silica Gel Cleanup	Solid	3546	
720-46854-12	SB-9 (1-1 1/2)	Silica Gel Cleanup	Solid	3546	
720-46854-14	SB-8 (1-1 1/2)	Silica Gel Cleanup	Solid	3546	
720-46854-16	SB-7 (1-1 1/2)	Silica Gel Cleanup	Solid	3546	
LCS 720-127728/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-127728/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 127728 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-127728/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 127769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-127728/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	127728

Analysis Batch: 127778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-14	SB-8 (1-1 1/2)	Silica Gel Cleanup	Solid	8015B	127728
720-46854-16	SB-7 (1-1 1/2)	Silica Gel Cleanup	Solid	8015B	127728

Prep Batch: 127795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-5	SB-1 (4 1/2-5)	Total/NA	Solid	3546	
720-46854-5 MS	SB-1 (4 1/2-5)	Total/NA	Solid	3546	
720-46854-5 MSD	SB-1 (4 1/2-5)	Total/NA	Solid	3546	
720-46854-8	SB-5 (1 1/2-2)	Total/NA	Solid	3546	
720-46854-9	SB-5 (2 1/2-3)	Total/NA	Solid	3546	
720-46854-10	SB-6 (1-1 1/2)	Total/NA	Solid	3546	
720-46854-11	SB-6 (2 1/2-3)	Total/NA	Solid	3546	
720-46854-12	SB-9 (1-1 1/2)	Total/NA	Solid	3546	
720-46854-13	SB-9 (2 1/2-3)	Total/NA	Solid	3546	
720-46854-14	SB-8 (1-1 1/2)	Total/NA	Solid	3546	
720-46854-15	SB-8 (3-3 1/2)	Total/NA	Solid	3546	
720-46854-16	SB-7 (1-1 1/2)	Total/NA	Solid	3546	
720-46854-17	SB-7 (2 1/2-3)	Total/NA	Solid	3546	
720-46854-18	SB-3 (1-1 1/2)	Total/NA	Solid	3546	
720-46854-19	SB-3 (2 1/2-3)	Total/NA	Solid	3546	
720-46854-20	SB-3 (4 1/2-5)	Total/NA	Solid	3546	
720-46854-23	SB-2 (1-1 1/2)	Total/NA	Solid	3546	
720-46854-24	SB-2 (2 1/2-3)	Total/NA	Solid	3546	
720-46854-25	SB-2 (4 1/2-5)	Total/NA	Solid	3546	
LCS 720-127795/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-127795/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-127795/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 127800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-5	SB-1 (4 1/2-5)	Total/NA	Solid	3546	
720-46854-5 MS	SB-1 (4 1/2-5)	Total/NA	Solid	3546	
720-46854-5 MSD	SB-1 (4 1/2-5)	Total/NA	Solid	3546	
720-46854-8	SB-5 (1 1/2-2)	Total/NA	Solid	3546	
720-46854-9	SB-5 (2 1/2-3)	Total/NA	Solid	3546	
720-46854-10	SB-6 (1-1 1/2)	Total/NA	Solid	3546	
720-46854-11	SB-6 (2 1/2-3)	Total/NA	Solid	3546	
720-46854-12	SB-9 (1-1 1/2)	Total/NA	Solid	3546	
720-46854-13	SB-9 (2 1/2-3)	Total/NA	Solid	3546	
720-46854-14	SB-8 (1-1 1/2)	Total/NA	Solid	3546	
720-46854-15	SB-8 (3-3 1/2)	Total/NA	Solid	3546	
720-46854-16	SB-7 (1-1 1/2)	Total/NA	Solid	3546	
720-46854-17	SB-7 (2 1/2-3)	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 127800 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-18	SB-3 (1-1 1/2)	Total/NA	Solid	3546	
720-46854-19	SB-3 (2 1/2-3)	Total/NA	Solid	3546	
720-46854-20	SB-3 (4 1/2-5)	Total/NA	Solid	3546	
720-46854-23	SB-2 (1-1 1/2)	Total/NA	Solid	3546	
720-46854-24	SB-2 (2 1/2-3)	Total/NA	Solid	3546	
720-46854-25	SB-2 (4 1/2-5)	Total/NA	Solid	3546	
LCS 720-127800/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-127800/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-127800/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 127807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-18	SB-3 (1-1 1/2)	Silica Gel Cleanup	Solid	3546	
720-46854-20	SB-3 (4 1/2-5)	Silica Gel Cleanup	Solid	3546	
720-46854-23	SB-2 (1-1 1/2)	Silica Gel Cleanup	Solid	3546	
720-46854-25	SB-2 (4 1/2-5)	Silica Gel Cleanup	Solid	3546	
LCS 720-127807/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-127807/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-127807/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 127816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-1	SB-4 (1- 1 1/2)	Total/NA	Solid	8082	127671
720-46854-2	SB-4 (2 1/2-3)	Total/NA	Solid	8082	127671
720-46854-3	SB-1 (1-1 1/2)	Total/NA	Solid	8082	127671
720-46854-4	SB-1 (3-3 1/2)	Total/NA	Solid	8082	127671
LCS 720-127671/2-A	Lab Control Sample	Total/NA	Solid	8082	127671
LCSD 720-127671/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	127671
MB 720-127671/1-A	Method Blank	Total/NA	Solid	8082	127671

Analysis Batch: 127819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-1	SB-4 (1- 1 1/2)	Total/NA	Solid	8081A	127673
720-46854-2	SB-4 (2 1/2-3)	Total/NA	Solid	8081A	127673
720-46854-3	SB-1 (1-1 1/2)	Total/NA	Solid	8081A	127673
720-46854-5	SB-1 (4 1/2-5)	Total/NA	Solid	8081A	127795
720-46854-5 MS	SB-1 (4 1/2-5)	Total/NA	Solid	8081A	127795
720-46854-5 MSD	SB-1 (4 1/2-5)	Total/NA	Solid	8081A	127795
720-46854-8	SB-5 (1 1/2-2)	Total/NA	Solid	8081A	127795
720-46854-9	SB-5 (2 1/2-3)	Total/NA	Solid	8081A	127795
720-46854-10	SB-6 (1-1 1/2)	Total/NA	Solid	8081A	127795
720-46854-11	SB-6 (2 1/2-3)	Total/NA	Solid	8081A	127795
720-46854-19	SB-3 (2 1/2-3)	Total/NA	Solid	8081A	127795
720-46854-20	SB-3 (4 1/2-5)	Total/NA	Solid	8081A	127795
LCS 720-127795/2-A	Lab Control Sample	Total/NA	Solid	8081A	127795
LCSD 720-127795/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	127795
MB 720-127795/1-A	Method Blank	Total/NA	Solid	8081A	127795

Analysis Batch: 127845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-18	SB-3 (1-1 1/2)	Silica Gel Cleanup	Solid	8015B	127807

GC Semi VOA (Continued)

Analysis Batch: 127845 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-20	SB-3 (4 1/2-5)	Silica Gel Cleanup	Solid	8015B	127807
720-46854-23	SB-2 (1-1 1/2)	Silica Gel Cleanup	Solid	8015B	127807
720-46854-25	SB-2 (4 1/2-5)	Silica Gel Cleanup	Solid	8015B	127807
LCS 720-127807/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	127807
LCSD 720-127807/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	127807
MB 720-127807/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	127807

Analysis Batch: 127854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-127800/2-A	Lab Control Sample	Total/NA	Solid	8082	127800
LCSD 720-127800/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	127800
MB 720-127800/1-A	Method Blank	Total/NA	Solid	8082	127800

Analysis Batch: 127878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-12	SB-9 (1-1 1/2)	Total/NA	Solid	8081A	127795
720-46854-13	SB-9 (2 1/2-3)	Total/NA	Solid	8081A	127795
720-46854-14	SB-8 (1-1 1/2)	Total/NA	Solid	8081A	127795
720-46854-15	SB-8 (3-3 1/2)	Total/NA	Solid	8081A	127795
720-46854-16	SB-7 (1-1 1/2)	Total/NA	Solid	8081A	127795
720-46854-17	SB-7 (2 1/2-3)	Total/NA	Solid	8081A	127795
720-46854-18	SB-3 (1-1 1/2)	Total/NA	Solid	8081A	127795
720-46854-23	SB-2 (1-1 1/2)	Total/NA	Solid	8081A	127795

Analysis Batch: 127923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-24	SB-2 (2 1/2-3)	Total/NA	Solid	8081A	127795
720-46854-25	SB-2 (4 1/2-5)	Total/NA	Solid	8081A	127795

Analysis Batch: 127932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-5	SB-1 (4 1/2-5)	Total/NA	Solid	8082	127800
720-46854-5 MS	SB-1 (4 1/2-5)	Total/NA	Solid	8082	127800
720-46854-5 MSD	SB-1 (4 1/2-5)	Total/NA	Solid	8082	127800
720-46854-8	SB-5 (1 1/2-2)	Total/NA	Solid	8082	127800
720-46854-9	SB-5 (2 1/2-3)	Total/NA	Solid	8082	127800
720-46854-10	SB-6 (1-1 1/2)	Total/NA	Solid	8082	127800
720-46854-11	SB-6 (2 1/2-3)	Total/NA	Solid	8082	127800
720-46854-12	SB-9 (1-1 1/2)	Total/NA	Solid	8082	127800
720-46854-13	SB-9 (2 1/2-3)	Total/NA	Solid	8082	127800
720-46854-14	SB-8 (1-1 1/2)	Total/NA	Solid	8082	127800
720-46854-15	SB-8 (3-3 1/2)	Total/NA	Solid	8082	127800
720-46854-16	SB-7 (1-1 1/2)	Total/NA	Solid	8082	127800
720-46854-17	SB-7 (2 1/2-3)	Total/NA	Solid	8082	127800
720-46854-18	SB-3 (1-1 1/2)	Total/NA	Solid	8082	127800
LCS 720-127800/2-A	Lab Control Sample	Total/NA	Solid	8082	127800
LCSD 720-127800/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	127800
MB 720-127800/1-A	Method Blank	Total/NA	Solid	8082	127800

GC Semi VOA (Continued)

Analysis Batch: 127980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-19	SB-3 (2 1/2-3)	Total/NA	Solid	8082	127800
720-46854-20	SB-3 (4 1/2-5)	Total/NA	Solid	8082	127800
720-46854-23	SB-2 (1-1 1/2)	Total/NA	Solid	8082	127800
720-46854-24	SB-2 (2 1/2-3)	Total/NA	Solid	8082	127800
720-46854-25	SB-2 (4 1/2-5)	Total/NA	Solid	8082	127800

Metals

Prep Batch: 127687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-1	SB-4 (1- 1 1/2)	Total/NA	Solid	7471A	
720-46854-2	SB-4 (2 1/2-3)	Total/NA	Solid	7471A	
720-46854-3	SB-1 (1-1 1/2)	Total/NA	Solid	7471A	
720-46854-4	SB-1 (3-3 1/2)	Total/NA	Solid	7471A	
720-46854-5	SB-1 (4 1/2-5)	Total/NA	Solid	7471A	
720-46854-8	SB-5 (1 1/2-2)	Total/NA	Solid	7471A	
720-46854-9	SB-5 (2 1/2-3)	Total/NA	Solid	7471A	
720-46854-10	SB-6 (1-1 1/2)	Total/NA	Solid	7471A	
720-46854-11	SB-6 (2 1/2-3)	Total/NA	Solid	7471A	
720-46854-12	SB-9 (1-1 1/2)	Total/NA	Solid	7471A	
720-46854-13	SB-9 (2 1/2-3)	Total/NA	Solid	7471A	
720-46854-14	SB-8 (1-1 1/2)	Total/NA	Solid	7471A	
720-46854-15	SB-8 (3-3 1/2)	Total/NA	Solid	7471A	
720-46854-16	SB-7 (1-1 1/2)	Total/NA	Solid	7471A	
720-46854-17	SB-7 (2 1/2-3)	Total/NA	Solid	7471A	
720-46854-18	SB-3 (1-1 1/2)	Total/NA	Solid	7471A	
720-46854-19	SB-3 (2 1/2-3)	Total/NA	Solid	7471A	
LCS 720-127687/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-127687/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-127687/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 127702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-20	SB-3 (4 1/2-5)	Total/NA	Solid	7471A	
720-46854-23	SB-2 (1-1 1/2)	Total/NA	Solid	7471A	
720-46854-24	SB-2 (2 1/2-3)	Total/NA	Solid	7471A	
720-46854-25	SB-2 (4 1/2-5)	Total/NA	Solid	7471A	
LCS 720-127702/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-127702/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-127702/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 127734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-20	SB-3 (4 1/2-5)	Total/NA	Solid	7471A	127702
720-46854-23	SB-2 (1-1 1/2)	Total/NA	Solid	7471A	127702
720-46854-24	SB-2 (2 1/2-3)	Total/NA	Solid	7471A	127702
720-46854-25	SB-2 (4 1/2-5)	Total/NA	Solid	7471A	127702
LCS 720-127702/2-A	Lab Control Sample	Total/NA	Solid	7471A	127702
LCSD 720-127702/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	127702
MB 720-127702/1-A	Method Blank	Total/NA	Solid	7471A	127702

Metals (Continued)

Prep Batch: 127751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-1	SB-4 (1- 1 1/2)	Total/NA	Solid	3050B	
LCS 720-127751/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-127751/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 720-127751/25-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 720-127751/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 127757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-2	SB-4 (2 1/2-3)	Total/NA	Solid	3050B	
720-46854-2 MS	SB-4 (2 1/2-3)	Total/NA	Solid	3050B	
720-46854-2 MSD	SB-4 (2 1/2-3)	Total/NA	Solid	3050B	
720-46854-3	SB-1 (1-1 1/2)	Total/NA	Solid	3050B	
720-46854-4	SB-1 (3-3 1/2)	Total/NA	Solid	3050B	
720-46854-5	SB-1 (4 1/2-5)	Total/NA	Solid	3050B	
720-46854-8	SB-5 (1 1/2-2)	Total/NA	Solid	3050B	
720-46854-9	SB-5 (2 1/2-3)	Total/NA	Solid	3050B	
720-46854-10	SB-6 (1-1 1/2)	Total/NA	Solid	3050B	
720-46854-11	SB-6 (2 1/2-3)	Total/NA	Solid	3050B	
720-46854-12	SB-9 (1-1 1/2)	Total/NA	Solid	3050B	
720-46854-13	SB-9 (2 1/2-3)	Total/NA	Solid	3050B	
720-46854-14	SB-8 (1-1 1/2)	Total/NA	Solid	3050B	
720-46854-15	SB-8 (3-3 1/2)	Total/NA	Solid	3050B	
720-46854-16	SB-7 (1-1 1/2)	Total/NA	Solid	3050B	
720-46854-17	SB-7 (2 1/2-3)	Total/NA	Solid	3050B	
720-46854-18	SB-3 (1-1 1/2)	Total/NA	Solid	3050B	
720-46854-19	SB-3 (2 1/2-3)	Total/NA	Solid	3050B	
720-46854-20	SB-3 (4 1/2-5)	Total/NA	Solid	3050B	
720-46854-23	SB-2 (1-1 1/2)	Total/NA	Solid	3050B	
LCS 720-127757/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-127757/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 720-127757/25-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 720-127757/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 127810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-1	SB-4 (1- 1 1/2)	Total/NA	Solid	6010B	127751
LCS 720-127751/2-A	Lab Control Sample	Total/NA	Solid	6010B	127751
LCSD 720-127751/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	127751
LCSSRM 720-127751/25-A	Lab Control Sample	Total/NA	Solid	6010B	127751
MB 720-127751/1-A	Method Blank	Total/NA	Solid	6010B	127751

Analysis Batch: 127812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-1	SB-4 (1- 1 1/2)	Total/NA	Solid	7471A	127687
720-46854-2	SB-4 (2 1/2-3)	Total/NA	Solid	7471A	127687
720-46854-3	SB-1 (1-1 1/2)	Total/NA	Solid	7471A	127687
720-46854-4	SB-1 (3-3 1/2)	Total/NA	Solid	7471A	127687
720-46854-5	SB-1 (4 1/2-5)	Total/NA	Solid	7471A	127687
720-46854-8	SB-5 (1 1/2-2)	Total/NA	Solid	7471A	127687
720-46854-9	SB-5 (2 1/2-3)	Total/NA	Solid	7471A	127687
720-46854-10	SB-6 (1-1 1/2)	Total/NA	Solid	7471A	127687

Metals (Continued)

Analysis Batch: 127812 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-11	SB-6 (2 1/2-3)	Total/NA	Solid	7471A	127687
720-46854-12	SB-9 (1-1 1/2)	Total/NA	Solid	7471A	127687
720-46854-13	SB-9 (2 1/2-3)	Total/NA	Solid	7471A	127687
720-46854-14	SB-8 (1-1 1/2)	Total/NA	Solid	7471A	127687
720-46854-15	SB-8 (3-3 1/2)	Total/NA	Solid	7471A	127687
720-46854-16	SB-7 (1-1 1/2)	Total/NA	Solid	7471A	127687
720-46854-17	SB-7 (2 1/2-3)	Total/NA	Solid	7471A	127687
720-46854-18	SB-3 (1-1 1/2)	Total/NA	Solid	7471A	127687
720-46854-19	SB-3 (2 1/2-3)	Total/NA	Solid	7471A	127687
LCS 720-127687/2-A	Lab Control Sample	Total/NA	Solid	7471A	127687
LCSD 720-127687/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	127687
MB 720-127687/1-A	Method Blank	Total/NA	Solid	7471A	127687

Prep Batch: 127825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-24	SB-2 (2 1/2-3)	Total/NA	Solid	3050B	
720-46854-24 MS	SB-2 (2 1/2-3)	Total/NA	Solid	3050B	
720-46854-24 MSD	SB-2 (2 1/2-3)	Total/NA	Solid	3050B	
720-46854-25	SB-2 (4 1/2-5)	Total/NA	Solid	3050B	
LCS 720-127825/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-127825/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 720-127825/25-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 720-127825/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 127839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-2	SB-4 (2 1/2-3)	Total/NA	Solid	6010B	127757
720-46854-2 MS	SB-4 (2 1/2-3)	Total/NA	Solid	6010B	127757
720-46854-2 MSD	SB-4 (2 1/2-3)	Total/NA	Solid	6010B	127757
720-46854-3	SB-1 (1-1 1/2)	Total/NA	Solid	6010B	127757
720-46854-4	SB-1 (3-3 1/2)	Total/NA	Solid	6010B	127757
720-46854-5	SB-1 (4 1/2-5)	Total/NA	Solid	6010B	127757
720-46854-8	SB-5 (1 1/2-2)	Total/NA	Solid	6010B	127757
720-46854-9	SB-5 (2 1/2-3)	Total/NA	Solid	6010B	127757
720-46854-10	SB-6 (1-1 1/2)	Total/NA	Solid	6010B	127757
720-46854-11	SB-6 (2 1/2-3)	Total/NA	Solid	6010B	127757
720-46854-12	SB-9 (1-1 1/2)	Total/NA	Solid	6010B	127757
720-46854-13	SB-9 (2 1/2-3)	Total/NA	Solid	6010B	127757
720-46854-14	SB-8 (1-1 1/2)	Total/NA	Solid	6010B	127757
720-46854-15	SB-8 (3-3 1/2)	Total/NA	Solid	6010B	127757
720-46854-16	SB-7 (1-1 1/2)	Total/NA	Solid	6010B	127757
720-46854-17	SB-7 (2 1/2-3)	Total/NA	Solid	6010B	127757
720-46854-18	SB-3 (1-1 1/2)	Total/NA	Solid	6010B	127757
720-46854-19	SB-3 (2 1/2-3)	Total/NA	Solid	6010B	127757
720-46854-20	SB-3 (4 1/2-5)	Total/NA	Solid	6010B	127757
720-46854-23	SB-2 (1-1 1/2)	Total/NA	Solid	6010B	127757
LCS 720-127757/2-A	Lab Control Sample	Total/NA	Solid	6010B	127757
LCSD 720-127757/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	127757
LCSSRM 720-127757/25-A	Lab Control Sample	Total/NA	Solid	6010B	127757
MB 720-127757/1-A	Method Blank	Total/NA	Solid	6010B	127757

Metals (Continued)

Analysis Batch: 127865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-24	SB-2 (2 1/2-3)	Total/NA	Solid	6010B	127825
720-46854-24 MS	SB-2 (2 1/2-3)	Total/NA	Solid	6010B	127825
720-46854-24 MSD	SB-2 (2 1/2-3)	Total/NA	Solid	6010B	127825
720-46854-25	SB-2 (4 1/2-5)	Total/NA	Solid	6010B	127825
LCS 720-127825/2-A	Lab Control Sample	Total/NA	Solid	6010B	127825
LCSD 720-127825/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	127825
LCSSRM 720-127825/25-A	Lab Control Sample	Total/NA	Solid	6010B	127825
MB 720-127825/1-A	Method Blank	Total/NA	Solid	6010B	127825

Analysis Batch: 127908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-24	SB-2 (2 1/2-3)	Total/NA	Solid	6010B	127825
720-46854-24 MS	SB-2 (2 1/2-3)	Total/NA	Solid	6010B	127825
720-46854-24 MSD	SB-2 (2 1/2-3)	Total/NA	Solid	6010B	127825
720-46854-25	SB-2 (4 1/2-5)	Total/NA	Solid	6010B	127825
LCS 720-127825/2-A	Lab Control Sample	Total/NA	Solid	6010B	127825
LCSD 720-127825/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	127825
LCSSRM 720-127825/25-A	Lab Control Sample	Total/NA	Solid	6010B	127825
MB 720-127825/1-A	Method Blank	Total/NA	Solid	6010B	127825

Client Sample ID: SB-4 (1- 1 1/2)

Lab Sample ID: 720-46854-1

Date Collected: 12/21/12 07:55

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			127622	12/22/12 14:33	JZ	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	127610	12/22/12 14:59	LL	TAL SF
Total/NA	Prep	3546			127616	12/22/12 10:49	ND	TAL SF
Total/NA	Analysis	8270C		1	127706	12/26/12 19:09	ML	TAL SF
Silica Gel Cleanup	Prep	3546			127728	12/26/12 14:19	ND	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	127694	12/26/12 20:31	DH	TAL SF
Total/NA	Prep	3546			127673	12/24/12 13:44	ND	TAL SF
Total/NA	Analysis	8081A		1	127727	12/26/12 20:28	BA	TAL SF
Total/NA	Prep	3546			127671	12/24/12 13:33	ND	TAL SF
Total/NA	Analysis	8082		1	127816	12/28/12 06:32	RB	TAL SF
Total/NA	Analysis	8081A		20	127819	12/28/12 05:02	RB	TAL SF
Total/NA	Prep	3050B			127751	12/26/12 18:45	CDT	TAL SF
Total/NA	Analysis	6010B		4	127810	12/27/12 15:37	EFH	TAL SF
Total/NA	Prep	7471A			127687	12/24/12 18:08	ASB	TAL SF
Total/NA	Analysis	7471A		10	127812	12/27/12 16:06	EFH	TAL SF

Client Sample ID: SB-4 (2 1/2-3)

Lab Sample ID: 720-46854-2

Date Collected: 12/21/12 08:00

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			127783	12/27/12 11:19	AM	TAL SF
Total/NA	Analysis	8270C SIM		1	127821	12/27/12 21:05	ML	TAL SF
Total/NA	Prep	3546			127673	12/24/12 13:44	ND	TAL SF
Total/NA	Analysis	8081A		1	127727	12/26/12 20:44	BA	TAL SF
Total/NA	Prep	3546			127671	12/24/12 13:33	ND	TAL SF
Total/NA	Analysis	8082		1	127816	12/28/12 06:51	RB	TAL SF
Total/NA	Analysis	8081A		1	127819	12/28/12 05:19	RB	TAL SF
Total/NA	Prep	7471A			127687	12/24/12 18:08	ASB	TAL SF
Total/NA	Analysis	7471A		1	127812	12/27/12 14:46	EFH	TAL SF
Total/NA	Prep	3050B			127757	12/26/12 21:36	CDT	TAL SF
Total/NA	Analysis	6010B		4	127839	12/27/12 19:28	CAM	TAL SF

Client Sample ID: SB-1 (1-1 1/2)

Lab Sample ID: 720-46854-3

Date Collected: 12/21/12 08:25

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			127622	12/22/12 14:33	JZ	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	127610	12/22/12 15:29	LL	TAL SF
Total/NA	Prep	3546			127616	12/22/12 10:49	ND	TAL SF
Total/NA	Analysis	8270C		1	127706	12/26/12 18:45	ML	TAL SF
Silica Gel Cleanup	Prep	3546			127728	12/26/12 14:19	ND	TAL SF

Client Sample ID: SB-1 (1-1 1/2)

Lab Sample ID: 720-46854-3

Date Collected: 12/21/12 08:25

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Analysis	8015B		1	127694	12/26/12 22:08	DH	TAL SF
Total/NA	Prep	3546			127673	12/24/12 13:44	ND	TAL SF
Total/NA	Analysis	8081A		1	127727	12/26/12 21:17	BA	TAL SF
Total/NA	Prep	3546			127671	12/24/12 13:33	ND	TAL SF
Total/NA	Analysis	8082		1	127816	12/28/12 07:09	RB	TAL SF
Total/NA	Analysis	8081A		5	127819	12/28/12 05:36	RB	TAL SF
Total/NA	Prep	7471A			127687	12/24/12 18:08	ASB	TAL SF
Total/NA	Analysis	7471A		10	127812	12/27/12 16:09	EFH	TAL SF
Total/NA	Prep	3050B			127757	12/26/12 21:36	CDT	TAL SF
Total/NA	Analysis	6010B		4	127839	12/27/12 19:36	CAM	TAL SF

Client Sample ID: SB-1 (3-3 1/2)

Lab Sample ID: 720-46854-4

Date Collected: 12/21/12 08:30

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			127783	12/27/12 11:19	AM	TAL SF
Total/NA	Analysis	8270C SIM		1	127821	12/27/12 21:29	ML	TAL SF
Total/NA	Prep	3546			127673	12/24/12 13:44	ND	TAL SF
Total/NA	Analysis	8081A		1	127727	12/26/12 21:01	BA	TAL SF
Total/NA	Prep	3546			127671	12/24/12 13:33	ND	TAL SF
Total/NA	Analysis	8082		1	127816	12/28/12 07:27	RB	TAL SF
Total/NA	Prep	7471A			127687	12/24/12 18:08	ASB	TAL SF
Total/NA	Analysis	7471A		1	127812	12/27/12 14:58	EFH	TAL SF
Total/NA	Prep	3050B			127757	12/26/12 21:36	CDT	TAL SF
Total/NA	Analysis	6010B		4	127839	12/27/12 19:41	CAM	TAL SF

Client Sample ID: SB-1 (4 1/2-5)

Lab Sample ID: 720-46854-5

Date Collected: 12/21/12 08:35

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			127622	12/22/12 14:33	JZ	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	127610	12/22/12 15:58	LL	TAL SF
Total/NA	Prep	3546			127616	12/22/12 10:49	ND	TAL SF
Total/NA	Analysis	8270C		1	127706	12/26/12 18:21	ML	TAL SF
Silica Gel Cleanup	Prep	3546			127728	12/26/12 14:19	ND	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	127694	12/26/12 20:55	DH	TAL SF
Total/NA	Prep	3546			127795	12/27/12 14:17	ND	TAL SF
Total/NA	Analysis	8081A		1	127819	12/27/12 23:48	RB	TAL SF
Total/NA	Prep	3546			127800	12/27/12 14:25	ND	TAL SF
Total/NA	Analysis	8082		1	127932	12/30/12 17:42	BA	TAL SF
Total/NA	Prep	7471A			127687	12/24/12 18:08	ASB	TAL SF

Client Sample ID: SB-1 (4 1/2-5)

Lab Sample ID: 720-46854-5

Date Collected: 12/21/12 08:35

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		1	127812	12/27/12 15:01	EFH	TAL SF
Total/NA	Prep	3050B			127757	12/26/12 21:36	CDT	TAL SF
Total/NA	Analysis	6010B		4	127839	12/27/12 19:45	CAM	TAL SF

Client Sample ID: SB-5 (1 1/2-2)

Lab Sample ID: 720-46854-8

Date Collected: 12/21/12 09:35

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			127622	12/22/12 14:33	JZ	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	127610	12/22/12 16:27	LL	TAL SF
Total/NA	Prep	3546			127616	12/22/12 10:49	ND	TAL SF
Total/NA	Analysis	8270C		2	127706	12/26/12 22:20	ML	TAL SF
Silica Gel Cleanup	Prep	3546			127728	12/26/12 14:19	ND	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	127694	12/26/12 22:32	DH	TAL SF
Total/NA	Prep	3546			127795	12/27/12 14:17	ND	TAL SF
Total/NA	Analysis	8081A		1	127819	12/28/12 00:05	RB	TAL SF
Total/NA	Prep	3546			127800	12/27/12 14:25	ND	TAL SF
Total/NA	Analysis	8082		1	127932	12/30/12 18:00	BA	TAL SF
Total/NA	Prep	7471A			127687	12/24/12 18:08	ASB	TAL SF
Total/NA	Analysis	7471A		1	127812	12/27/12 15:03	EFH	TAL SF
Total/NA	Prep	3050B			127757	12/26/12 21:36	CDT	TAL SF
Total/NA	Analysis	6010B		4	127839	12/27/12 19:50	CAM	TAL SF

Client Sample ID: SB-5 (2 1/2-3)

Lab Sample ID: 720-46854-9

Date Collected: 12/21/12 09:45

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			127783	12/27/12 11:19	AM	TAL SF
Total/NA	Analysis	8270C SIM		1	127821	12/27/12 21:52	ML	TAL SF
Total/NA	Prep	3546			127795	12/27/12 14:17	ND	TAL SF
Total/NA	Analysis	8081A		1	127819	12/28/12 00:21	RB	TAL SF
Total/NA	Prep	3546			127800	12/27/12 14:25	ND	TAL SF
Total/NA	Analysis	8082		1	127932	12/30/12 18:18	BA	TAL SF
Total/NA	Prep	7471A			127687	12/24/12 18:08	ASB	TAL SF
Total/NA	Analysis	7471A		1	127812	12/27/12 15:06	EFH	TAL SF
Total/NA	Prep	3050B			127757	12/26/12 21:36	CDT	TAL SF
Total/NA	Analysis	6010B		4	127839	12/27/12 19:54	CAM	TAL SF

Client Sample ID: SB-6 (1-1 1/2)

Lab Sample ID: 720-46854-10

Date Collected: 12/21/12 10:15

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			127622	12/22/12 14:33	JZ	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	127610	12/22/12 16:57	LL	TAL SF
Silica Gel Cleanup	Prep	3546			127728	12/26/12 14:19	ND	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	127694	12/26/12 21:20	DH	TAL SF
Total/NA	Prep	3546			127795	12/27/12 14:17	ND	TAL SF
Total/NA	Analysis	8081A		1	127819	12/28/12 00:38	RB	TAL SF
Total/NA	Prep	3546			127800	12/27/12 14:25	ND	TAL SF
Total/NA	Analysis	8082		1	127932	12/30/12 18:36	BA	TAL SF
Total/NA	Prep	7471A			127687	12/24/12 18:08	ASB	TAL SF
Total/NA	Analysis	7471A		1	127812	12/27/12 15:10	EFH	TAL SF
Total/NA	Prep	3050B			127757	12/26/12 21:36	CDT	TAL SF
Total/NA	Analysis	6010B		4	127839	12/27/12 19:59	CAM	TAL SF

Client Sample ID: SB-6 (2 1/2-3)

Lab Sample ID: 720-46854-11

Date Collected: 12/21/12 10:20

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			127795	12/27/12 14:17	ND	TAL SF
Total/NA	Analysis	8081A		1	127819	12/28/12 00:54	RB	TAL SF
Total/NA	Prep	3546			127800	12/27/12 14:25	ND	TAL SF
Total/NA	Analysis	8082		1	127932	12/30/12 18:54	BA	TAL SF
Total/NA	Prep	7471A			127687	12/24/12 18:08	ASB	TAL SF
Total/NA	Analysis	7471A		1	127812	12/27/12 15:12	EFH	TAL SF
Total/NA	Prep	3050B			127757	12/26/12 21:36	CDT	TAL SF
Total/NA	Analysis	6010B		4	127839	12/27/12 20:03	CAM	TAL SF

Client Sample ID: SB-9 (1-1 1/2)

Lab Sample ID: 720-46854-12

Date Collected: 12/21/12 10:45

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			127622	12/22/12 14:33	JZ	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	127610	12/22/12 17:26	LL	TAL SF
Total/NA	Prep	3546			127616	12/22/12 10:49	ND	TAL SF
Total/NA	Analysis	8270C		1	127706	12/26/12 21:32	ML	TAL SF
Silica Gel Cleanup	Prep	3546			127728	12/26/12 14:19	ND	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	127694	12/26/12 21:44	DH	TAL SF
Total/NA	Prep	3546			127795	12/27/12 14:17	ND	TAL SF
Total/NA	Analysis	8081A		10	127878	12/28/12 22:31	RB	TAL SF
Total/NA	Prep	3546			127800	12/27/12 14:25	ND	TAL SF
Total/NA	Analysis	8082		1	127932	12/30/12 19:13	BA	TAL SF
Total/NA	Prep	7471A			127687	12/24/12 18:08	ASB	TAL SF

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-9 (1-1 1/2)

Lab Sample ID: 720-46854-12

Date Collected: 12/21/12 10:45
Matrix: Solid
Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		10	127812	12/27/12 16:11	EFH	TAL SF
Total/NA	Prep	3050B			127757	12/26/12 21:36	CDT	TAL SF
Total/NA	Analysis	6010B		4	127839	12/27/12 20:16	CAM	TAL SF

Client Sample ID: SB-9 (2 1/2-3)

Lab Sample ID: 720-46854-13

Date Collected: 12/21/12 10:55
Matrix: Solid
Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			127783	12/27/12 11:19	AM	TAL SF
Total/NA	Analysis	8270C SIM		1	127821	12/27/12 22:15	ML	TAL SF
Total/NA	Prep	3546			127795	12/27/12 14:17	ND	TAL SF
Total/NA	Analysis	8081A		1	127878	12/28/12 22:47	RB	TAL SF
Total/NA	Prep	3546			127800	12/27/12 14:25	ND	TAL SF
Total/NA	Analysis	8082		1	127932	12/30/12 19:31	BA	TAL SF
Total/NA	Prep	7471A			127687	12/24/12 18:08	ASB	TAL SF
Total/NA	Analysis	7471A		1	127812	12/27/12 15:18	EFH	TAL SF
Total/NA	Prep	3050B			127757	12/26/12 21:36	CDT	TAL SF
Total/NA	Analysis	6010B		4	127839	12/27/12 20:21	CAM	TAL SF

Client Sample ID: SB-8 (1-1 1/2)

Lab Sample ID: 720-46854-14

Date Collected: 12/21/12 11:10
Matrix: Solid
Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			127656	12/22/12 12:00	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	127638	12/24/12 11:47	AC	TAL SF
Silica Gel Cleanup	Prep	3546			127728	12/26/12 14:19	ND	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	127778	12/27/12 19:31	DH	TAL SF
Total/NA	Prep	3546			127795	12/27/12 14:17	ND	TAL SF
Total/NA	Analysis	8081A		10	127878	12/28/12 23:04	RB	TAL SF
Total/NA	Prep	3546			127800	12/27/12 14:25	ND	TAL SF
Total/NA	Analysis	8082		1	127932	12/30/12 19:49	BA	TAL SF
Total/NA	Prep	7471A			127687	12/24/12 18:08	ASB	TAL SF
Total/NA	Analysis	7471A		10	127812	12/27/12 16:13	EFH	TAL SF
Total/NA	Prep	3050B			127757	12/26/12 21:36	CDT	TAL SF
Total/NA	Analysis	6010B		4	127839	12/27/12 20:25	CAM	TAL SF

Client Sample ID: SB-8 (3-3 1/2)

Lab Sample ID: 720-46854-15

Date Collected: 12/21/12 11:20

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			127795	12/27/12 14:17	ND	TAL SF
Total/NA	Analysis	8081A		10	127878	12/28/12 23:21	RB	TAL SF
Total/NA	Prep	3546			127800	12/27/12 14:25	ND	TAL SF
Total/NA	Analysis	8082		1	127932	12/30/12 20:07	BA	TAL SF
Total/NA	Prep	7471A			127687	12/24/12 18:08	ASB	TAL SF
Total/NA	Analysis	7471A		10	127812	12/27/12 16:16	EFH	TAL SF
Total/NA	Prep	3050B			127757	12/26/12 21:36	CDT	TAL SF
Total/NA	Analysis	6010B		4	127839	12/27/12 20:30	CAM	TAL SF

Client Sample ID: SB-7 (1-1 1/2)

Lab Sample ID: 720-46854-16

Date Collected: 12/21/12 11:35

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			127656	12/22/12 12:00	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	127638	12/24/12 12:16	AC	TAL SF
Silica Gel Cleanup	Prep	3546			127728	12/26/12 14:19	ND	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	127778	12/27/12 20:00	DH	TAL SF
Total/NA	Prep	3546			127795	12/27/12 14:17	ND	TAL SF
Total/NA	Analysis	8081A		1	127878	12/28/12 23:38	RB	TAL SF
Total/NA	Prep	3546			127800	12/27/12 14:25	ND	TAL SF
Total/NA	Analysis	8082		1	127932	12/30/12 20:25	BA	TAL SF
Total/NA	Prep	7471A			127687	12/24/12 18:08	ASB	TAL SF
Total/NA	Analysis	7471A		1	127812	12/27/12 15:31	EFH	TAL SF
Total/NA	Prep	3050B			127757	12/26/12 21:36	CDT	TAL SF
Total/NA	Analysis	6010B		4	127839	12/27/12 20:34	CAM	TAL SF

Client Sample ID: SB-7 (2 1/2-3)

Lab Sample ID: 720-46854-17

Date Collected: 12/21/12 11:40

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			127795	12/27/12 14:17	ND	TAL SF
Total/NA	Analysis	8081A		10	127878	12/28/12 23:54	RB	TAL SF
Total/NA	Prep	3546			127800	12/27/12 14:25	ND	TAL SF
Total/NA	Analysis	8082		1	127932	12/30/12 20:43	BA	TAL SF
Total/NA	Prep	7471A			127687	12/24/12 18:08	ASB	TAL SF
Total/NA	Analysis	7471A		10	127812	12/27/12 16:18	EFH	TAL SF
Total/NA	Prep	3050B			127757	12/26/12 21:36	CDT	TAL SF
Total/NA	Analysis	6010B		4	127839	12/27/12 20:39	CAM	TAL SF

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-3 (1-1 1/2)

Lab Sample ID: 720-46854-18

Date Collected: 12/21/12 12:30
Matrix: Solid
Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			127656	12/22/12 12:00	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	127638	12/24/12 12:46	AC	TAL SF
Total/NA	Prep	3546			127616	12/22/12 10:49	ND	TAL SF
Total/NA	Analysis	8270C		1	127706	12/26/12 21:08	ML	TAL SF
Silica Gel Cleanup	Prep	3546			127807	12/27/12 14:54	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	127845	12/28/12 22:54	DH	TAL SF
Total/NA	Prep	3546			127795	12/27/12 14:17	ND	TAL SF
Total/NA	Analysis	8081A		1	127878	12/29/12 00:10	RB	TAL SF
Total/NA	Prep	3546			127800	12/27/12 14:25	ND	TAL SF
Total/NA	Analysis	8082		1	127932	12/30/12 21:01	BA	TAL SF
Total/NA	Prep	7471A			127687	12/24/12 18:08	ASB	TAL SF
Total/NA	Analysis	7471A		1	127812	12/27/12 15:37	EFH	TAL SF
Total/NA	Prep	3050B			127757	12/26/12 21:36	CDT	TAL SF
Total/NA	Analysis	6010B		4	127839	12/27/12 20:43	CAM	TAL SF

Client Sample ID: SB-3 (2 1/2-3)

Lab Sample ID: 720-46854-19

Date Collected: 12/21/12 12:35
Matrix: Solid
Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			127783	12/27/12 11:19	AM	TAL SF
Total/NA	Analysis	8270C SIM		10	127803	12/28/12 00:43	ML	TAL SF
Total/NA	Prep	3546			127795	12/27/12 14:17	ND	TAL SF
Total/NA	Analysis	8081A		1	127819	12/28/12 03:05	RB	TAL SF
Total/NA	Prep	3546			127800	12/27/12 14:25	ND	TAL SF
Total/NA	Analysis	8082		1	127980	01/01/13 00:53	BA	TAL SF
Total/NA	Prep	7471A			127687	12/24/12 18:08	ASB	TAL SF
Total/NA	Analysis	7471A		10	127812	12/27/12 16:27	EFH	TAL SF
Total/NA	Prep	3050B			127757	12/26/12 21:36	CDT	TAL SF
Total/NA	Analysis	6010B		4	127839	12/27/12 20:48	CAM	TAL SF

Client Sample ID: SB-3 (4 1/2-5)

Lab Sample ID: 720-46854-20

Date Collected: 12/21/12 12:40
Matrix: Solid
Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			127622	12/22/12 14:33	JZ	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	127610	12/22/12 19:23	LL	TAL SF
Total/NA	Prep	3546			127616	12/22/12 10:49	ND	TAL SF
Total/NA	Analysis	8270C		1	127706	12/26/12 20:45	ML	TAL SF
Total/NA	Prep	3546			127795	12/27/12 14:17	ND	TAL SF
Total/NA	Analysis	8081A		1	127819	12/28/12 03:22	RB	TAL SF
Silica Gel Cleanup	Prep	3546			127807	12/27/12 14:54	NP	TAL SF

Client Sample ID: SB-3 (4 1/2-5)

Lab Sample ID: 720-46854-20

Date Collected: 12/21/12 12:40

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Analysis	8015B		1	127845	12/29/12 00:06	DH	TAL SF
Total/NA	Prep	3546			127800	12/27/12 14:25	ND	TAL SF
Total/NA	Analysis	8082		1	127980	01/01/13 01:11	BA	TAL SF
Total/NA	Prep	7471A			127702	12/26/12 09:16	ET	TAL SF
Total/NA	Analysis	7471A		1	127734	12/26/12 14:15	EFH	TAL SF
Total/NA	Prep	3050B			127757	12/26/12 21:36	CDT	TAL SF
Total/NA	Analysis	6010B		4	127839	12/27/12 20:52	CAM	TAL SF

Client Sample ID: SB-2 (1-1 1/2)

Lab Sample ID: 720-46854-23

Date Collected: 12/21/12 13:15

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			127622	12/22/12 14:33	JZ	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	127610	12/22/12 19:52	LL	TAL SF
Total/NA	Prep	3546			127616	12/22/12 10:49	ND	TAL SF
Total/NA	Analysis	8270C		1	127706	12/26/12 20:21	ML	TAL SF
Silica Gel Cleanup	Prep	3546			127807	12/27/12 14:54	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	127845	12/28/12 23:18	DH	TAL SF
Total/NA	Prep	3546			127795	12/27/12 14:17	ND	TAL SF
Total/NA	Analysis	8081A		5	127878	12/29/12 00:26	RB	TAL SF
Total/NA	Prep	3546			127800	12/27/12 14:25	ND	TAL SF
Total/NA	Analysis	8082		1	127980	01/01/13 01:29	BA	TAL SF
Total/NA	Prep	7471A			127702	12/26/12 09:16	ET	TAL SF
Total/NA	Analysis	7471A		1	127734	12/26/12 13:54	EFH	TAL SF
Total/NA	Prep	3050B			127757	12/26/12 21:36	CDT	TAL SF
Total/NA	Analysis	6010B		4	127839	12/27/12 20:57	CAM	TAL SF

Client Sample ID: SB-2 (2 1/2-3)

Lab Sample ID: 720-46854-24

Date Collected: 12/21/12 13:20

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			127783	12/27/12 11:19	AM	TAL SF
Total/NA	Analysis	8270C SIM		1	127821	12/27/12 22:38	ML	TAL SF
Total/NA	Prep	3546			127795	12/27/12 14:17	ND	TAL SF
Total/NA	Analysis	8081A		50	127923	12/29/12 20:09	BA	TAL SF
Total/NA	Prep	3546			127800	12/27/12 14:25	ND	TAL SF
Total/NA	Analysis	8082		1	127980	01/01/13 01:47	BA	TAL SF
Total/NA	Prep	7471A			127702	12/26/12 09:16	ET	TAL SF
Total/NA	Analysis	7471A		10	127734	12/26/12 14:47	EFH	TAL SF
Total/NA	Prep	3050B			127825	12/27/12 18:22	CDT	TAL SF
Total/NA	Analysis	6010B		4	127865	12/28/12 09:45	EFH	TAL SF

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Client Sample ID: SB-2 (2 1/2-3)

Lab Sample ID: 720-46854-24

Date Collected: 12/21/12 13:20

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		4	127908	12/28/12 19:45	SK	TAL SF

Client Sample ID: SB-2 (4 1/2-5)

Lab Sample ID: 720-46854-25

Date Collected: 12/21/12 13:25

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			127656	12/22/12 12:00	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	127638	12/24/12 13:15	AC	TAL SF
Total/NA	Prep	3546			127826	12/27/12 19:01	RU	TAL SF
Total/NA	Analysis	8270C		1	128070	01/03/13 13:29	ML	TAL SF
Silica Gel Cleanup	Prep	3546			127807	12/27/12 14:54	NP	TAL SF
Silica Gel Cleanup	Analysis	8015B		1	127845	12/29/12 00:31	DH	TAL SF
Total/NA	Prep	3546			127795	12/27/12 14:17	ND	TAL SF
Total/NA	Analysis	8081A		1	127923	12/29/12 19:53	BA	TAL SF
Total/NA	Prep	3546			127800	12/27/12 14:25	ND	TAL SF
Total/NA	Analysis	8082		1	127980	01/01/13 02:05	BA	TAL SF
Total/NA	Prep	7471A			127702	12/26/12 09:16	ET	TAL SF
Total/NA	Analysis	7471A		1	127734	12/26/12 13:59	EFH	TAL SF
Total/NA	Prep	3050B			127825	12/27/12 18:22	CDT	TAL SF
Total/NA	Analysis	6010B		4	127865	12/28/12 09:54	EFH	TAL SF
Total/NA	Analysis	6010B		4	127908	12/28/12 19:54	SK	TAL SF

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL SF
8270C	Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	SW846	TAL SF
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF
8081A	Organochlorine Pesticides (GC)	SW846	TAL SF
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL SF
6010B	Metals (ICP)	SW846	TAL SF
7471A	Mercury (CVAA)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-46854-1	SB-4 (1- 1 1/2)	Solid	12/21/12 07:55	12/21/12 18:30
720-46854-2	SB-4 (2 1/2-3)	Solid	12/21/12 08:00	12/21/12 18:30
720-46854-3	SB-1 (1-1 1/2)	Solid	12/21/12 08:25	12/21/12 18:30
720-46854-4	SB-1 (3-3 1/2)	Solid	12/21/12 08:30	12/21/12 18:30
720-46854-5	SB-1 (4 1/2-5)	Solid	12/21/12 08:35	12/21/12 18:30
720-46854-8	SB-5 (1 1/2-2)	Solid	12/21/12 09:35	12/21/12 18:30
720-46854-9	SB-5 (2 1/2-3)	Solid	12/21/12 09:45	12/21/12 18:30
720-46854-10	SB-6 (1-1 1/2)	Solid	12/21/12 10:15	12/21/12 18:30
720-46854-11	SB-6 (2 1/2-3)	Solid	12/21/12 10:20	12/21/12 18:30
720-46854-12	SB-9 (1-1 1/2)	Solid	12/21/12 10:45	12/21/12 18:30
720-46854-13	SB-9 (2 1/2-3)	Solid	12/21/12 10:55	12/21/12 18:30
720-46854-14	SB-8 (1-1 1/2)	Solid	12/21/12 11:10	12/21/12 18:30
720-46854-15	SB-8 (3-3 1/2)	Solid	12/21/12 11:20	12/21/12 18:30
720-46854-16	SB-7 (1-1 1/2)	Solid	12/21/12 11:35	12/21/12 18:30
720-46854-17	SB-7 (2 1/2-3)	Solid	12/21/12 11:40	12/21/12 18:30
720-46854-18	SB-3 (1-1 1/2)	Solid	12/21/12 12:30	12/21/12 18:30
720-46854-19	SB-3 (2 1/2-3)	Solid	12/21/12 12:35	12/21/12 18:30
720-46854-20	SB-3 (4 1/2-5)	Solid	12/21/12 12:40	12/21/12 18:30
720-46854-23	SB-2 (1-1 1/2)	Solid	12/21/12 13:15	12/21/12 18:30
720-46854-24	SB-2 (2 1/2-3)	Solid	12/21/12 13:20	12/21/12 18:30
720-46854-25	SB-2 (4 1/2-5)	Solid	12/21/12 13:25	12/21/12 18:30

CORNERSTONE EARTH GROUP

Chain of Custody Record

720-46854

143164

1/3/2013

Cornerstone Earth Group, Inc.	Project Manager: Ron Helm	Site Contact: Noah Hornsby	Date: 12/21/12
1259 Oakmead Parkway	Tel/Fax:	Lab Contact:	Carrier:
Sunnyvale, California 94085	Analysis Turnaround Time		
(408) 245-4600 Phone	TAT if different from Below _____		
(408) 245-4620 FAX	■ 1 week		
Project Name:Samsun Semiconductor	☐ 3 days		
Site: San Jose, CA	☐ 2 days		
Project Number: 118-37-3	☐ 1 day		

COC No: 1 of _____ COCs

Laboratory's Job No.

	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	CAM 17 (6010/7471)	Arsenic, Lead, Mercury	OCPs and PCBs (8081)	PCBs (8082)	TPHd+o w/silica gel (8015B)	VOCs and TPHg (8260B)	SVOCs (8270C)	low level PAHs (8270C SIM)	HOLD	Laboratory's Sample Specii.
1	SB-4 (1½-2)	12/21/12	7:55	Liner/CNO	Soil	4		X		X	X	X	X	X			
2	SB-4 (2½-3)		8:00	Liner		1			X	X					X		
3	SB-1 (1-1½)		8:25	Liner/CNO		4		X		X	X	X	X	X			
4	SB-1 (3-3½)		8:30	Liner		1			X	X					X		
5	SB-1 (4½-5)		8:35	Liner/CNO		4		X		X	X	X	X	X			
6	SB-1 (9½-10)		8:45	Liner		1										X	
7	SB-1 (14½-15)		9:00	Liner/CNO		4						X				X	
8	SB-5 (1½-2)		9:35	VI		4		X		X	X	X	X	X			
9	SB-5 (2½-3)		9:45	Liner		1			X	X					X		
10	SB-6 (1-1½)		10:15	Liner/CNO		4		X		X	X	X	X				
11	SB-6 (2½-3)		10:20	Liner		1			X	X							
12	SB-9 (1-1½)		10:45	Liner/CNO		4		X		X	X	X	X	X			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

3.5°C

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	CEG	12/21/12, 3:00		TASI	12-21-12 1600
	TASI	12-21-12 1830			12-21-12 1830

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CORNERSTONE EARTH GROUP

Chain of Custody Record

T10-46854

143164

1/3/2013

Cornerstone Earth Group, Inc.	Project Manager: Ron Helm	Site Contact: Noah Hornsby	Date: 12/21/12
1259 Oakmead Parkway	Tel/Fax:	Lab Contact:	Carrier:
Sunnyvale, California 94085	Analysis Turnaround Time		
(408) 245-4600 Phone	TAT if different from Below _____		
(408) 245-4620 FAX	■ 1 week		
Project Name:Samsun Semiconductor	☐ 3 days		
Site: San Jose, CA	☐ 2 days		
Project Number: 118-37-3	☐ 1 day		

COC No: 2 of _____ COCs

Laboratory's Job No.

	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	CAM 17 (6010/7471)	Arsenic, Lead, Mercury	OCPs and PCBs (8081)	PCBs (8082)	TPHd+o w/silica gel (8015B)	VOCs and TPHg (8260B)	SVOCs (8270C)	low level PAHs (8270C SIM)	HOLD	Laboratory's Sample Specific Notes:
13	SB-9 (2½-3)	12/21/12	10:55	Liner	Soil	1			X	X					X		
14	SB-8 (1-1½)		11:10	Liner/CVO		4		X		X	X	X	X				
15	SB-8 (3-3½)		11:20	Liner		1			X	X							
16	SB-7 (1-1½)		11:35	Liner/CVO		4		X		X	X	X	X				
17	SB-7 (2½-3)		11:40	Liner		1			X	X							
18	SB-3 (1-1½)		12:30	Liner/CVO		4		X		X	X	X	X	X			
19	SB-3 (2½-3)		12:35	Liner		1			X	X					X		
20	SB-3 (4½-5)		12:40	Liner/CVO		4		X		X	X	X	X	X			
21	SB-3 (9½-10)		12:50	~~Brass~~/Liner		1										X	
22	SB-3 (14½-15)		1:05	Liner/CVO		4							X			X	
23	SB-2 (1-1½)		1:15	"		4		X		X	X	X	X	X			
24	SB-2 (2½-3)		1:20	Liner		1			X	X					X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

	Company	Date/Time		Company	Date/Time
Relinquished by:	CEG	12/21/12, 3:00	Received by:	TASF	12-21-12 1600
Relinquished by:	TASF	12-21-12 1830	Received by:		12-21-12 1830
Relinquished by:			Received by:		

CORNERSTONE EARTH GROUP

Chain of Custody Record

720-46854

143164

1/3/2013

Cornerstone Earth Group, Inc.	Project Manager: Ron Helm	Site Contact: Noah Hornsby	Date: 12/21/12
1259 Oakmead Parkway	Tel/Fax:	Lab Contact:	Carrier:
Sunnyvale, California 94085	Analysis Turnaround Time		
(408) 245-4600 Phone	TAT if different from Below _____		
(408) 245-4620 FAX	☒ 1 week		
Project Name:Samsun Semiconductor	☐ 3 days		
Site: San Jose, CA	☐ 2 days		
Project Number: 118-37-3	☐ 1 day		

COC No: 3 of _____ COCs

Laboratory's Job No.

	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	CAM 17 (6010/7471)	Arsenic, Lead, Mercury	OCPs and PCBs (8081)	PCBs (8082)	TPHd+o w/silica gel (8015B)	VOCs and TPHg (8260B)	SVOCs (8270C)	low level PAHs (8270C SIM)	HOLD	Laboratory's Sample Specific Notes:
25	SB-2 (4½-5)	12/21/12	1:25	Liner/Core	Soil	4		X		X	X	X	X	X			
26	SB-2 (9½-10)		1:35	Liner		1										X	
27	SB-2 (14½-15)		1:50	Liner/Core		4							X			X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	CEG	12/21/12 3:00		TASF	12.21.12 1600
Relinquished by:	TASR	12.21.12 1830	Received by:		Date/Time: 122112 1830
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Cornerstone Earth Group

Job Number: 720-46854-1

Login Number: 46854

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-46854-2
Client Project/Site: Samsun Semiconductor

For:
Cornerstone Earth Group
1259 Oakmead Parkway
Sunnyvale, California 94085

Attn: Mr. Ron Helm

Authorized for release by:
1/14/2013 2:38:20 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

Table of Contents

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-2

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-2

Client Sample ID: SB-1 (14 1/2-15) **Lab Sample ID: 720-46854-7**

No Detections

Client Sample ID: SB-3 (14 1/2-15) **Lab Sample ID: 720-46854-22**

No Detections

Client Sample ID: SB-2 (14 1/2-15) **Lab Sample ID: 720-46854-27**

No Detections

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-2

Client Sample ID: SB-1 (14 1/2-15)
Date Collected: 12/21/12 09:00
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-7
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Acetone	ND		41		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Benzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Dichlorobromomethane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Bromobenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Chlorobromomethane	ND		16		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Bromoform	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Bromomethane	ND		8.2		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
2-Butanone (MEK)	ND		41		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
n-Butylbenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
sec-Butylbenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
tert-Butylbenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Carbon disulfide	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Carbon tetrachloride	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Chlorobenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Chloroethane	ND		8.2		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Chloroform	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Chloromethane	ND		8.2		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
2-Chlorotoluene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
4-Chlorotoluene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Chlorodibromomethane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
1,2-Dichlorobenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
1,3-Dichlorobenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
1,4-Dichlorobenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
1,3-Dichloropropane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
1,1-Dichloropropene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
1,2-Dibromo-3-Chloropropane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Ethylene Dibromide	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Dibromomethane	ND		8.2		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Dichlorodifluoromethane	ND		8.2		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
1,1-Dichloroethane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
1,2-Dichloroethane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
1,1-Dichloroethene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
cis-1,2-Dichloroethene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
trans-1,2-Dichloroethene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
1,2-Dichloropropane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
cis-1,3-Dichloropropene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
trans-1,3-Dichloropropene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Ethylbenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Hexachlorobutadiene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
2-Hexanone	ND		41		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Isopropylbenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
4-Isopropyltoluene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Methylene Chloride	ND		8.2		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
4-Methyl-2-pentanone (MIBK)	ND		41		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Naphthalene	ND		8.2		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
N-Propylbenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Styrene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
1,1,1,2-Tetrachloroethane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-2

Client Sample ID: SB-1 (14 1/2-15)
Date Collected: 12/21/12 09:00
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-7
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Tetrachloroethene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Toluene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
1,2,3-Trichlorobenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
1,2,4-Trichlorobenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
1,1,1-Trichloroethane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
1,1,2-Trichloroethane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Trichloroethene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Trichlorofluoromethane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
1,2,3-Trichloropropane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
1,2,4-Trimethylbenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
1,3,5-Trimethylbenzene	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Vinyl acetate	ND		41		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Vinyl chloride	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Xylenes, Total	ND		8.2		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
2,2-Dichloropropane	ND		4.1		ug/Kg		12/22/12 12:00	12/24/12 13:44	1
Gasoline Range Organics (GRO) -C5-C12	ND		210		ug/Kg		12/22/12 12:00	12/24/12 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*76*		*45 - 131*	*12/22/12 12:00*	*12/24/12 13:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*60 - 140*	*12/22/12 12:00*	*12/24/12 13:44*	*1*
Toluene-d8 (Surr)	*91*		*58 - 140*	*12/22/12 12:00*	*12/24/12 13:44*	*1*

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-2

Client Sample ID: SB-3 (14 1/2-15)
Date Collected: 12/21/12 13:05
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-22
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Acetone	ND		42		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Benzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Dichlorobromomethane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Bromobenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Chlorobromomethane	ND		17		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Bromoform	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Bromomethane	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
2-Butanone (MEK)	ND		42		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
n-Butylbenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
sec-Butylbenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
tert-Butylbenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Carbon disulfide	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Carbon tetrachloride	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Chlorobenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Chloroethane	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Chloroform	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Chloromethane	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
2-Chlorotoluene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
4-Chlorotoluene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Chlorodibromomethane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
1,2-Dichlorobenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
1,3-Dichlorobenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
1,4-Dichlorobenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
1,3-Dichloropropane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
1,1-Dichloropropene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
1,2-Dibromo-3-Chloropropane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Ethylene Dibromide	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Dibromomethane	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Dichlorodifluoromethane	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
1,1-Dichloroethane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
1,2-Dichloroethane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
1,1-Dichloroethene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
cis-1,2-Dichloroethene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
trans-1,2-Dichloroethene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
1,2-Dichloropropane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
cis-1,3-Dichloropropene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
trans-1,3-Dichloropropene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Ethylbenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Hexachlorobutadiene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
2-Hexanone	ND		42		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Isopropylbenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
4-Isopropyltoluene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Methylene Chloride	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
4-Methyl-2-pentanone (MIBK)	ND		42		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Naphthalene	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
N-Propylbenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Styrene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
1,1,1,2-Tetrachloroethane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-2

Client Sample ID: SB-3 (14 1/2-15)
Date Collected: 12/21/12 13:05
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-22
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Tetrachloroethene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Toluene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
1,2,3-Trichlorobenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
1,2,4-Trichlorobenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
1,1,1-Trichloroethane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
1,1,2-Trichloroethane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Trichloroethene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Trichlorofluoromethane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
1,2,3-Trichloropropane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
1,2,4-Trimethylbenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
1,3,5-Trimethylbenzene	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Vinyl acetate	ND		42		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Vinyl chloride	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Xylenes, Total	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
2,2-Dichloropropane	ND		4.2		ug/Kg		12/22/12 12:00	12/24/12 14:13	1
Gasoline Range Organics (GRO) -C5-C12	ND		210		ug/Kg		12/22/12 12:00	12/24/12 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*75*		*45 - 131*	*12/22/12 12:00*	*12/24/12 14:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*60 - 140*	*12/22/12 12:00*	*12/24/12 14:13*	*1*
Toluene-d8 (Surr)	*92*		*58 - 140*	*12/22/12 12:00*	*12/24/12 14:13*	*1*

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-2

Client Sample ID: SB-2 (14 1/2-15)
Date Collected: 12/21/12 13:50
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-27
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Acetone	ND		43		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Benzene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Dichlorobromomethane	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Bromobenzene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Chlorobromomethane	ND		17		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Bromoform	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Bromomethane	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
2-Butanone (MEK)	ND		43		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
n-Butylbenzene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
sec-Butylbenzene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
tert-Butylbenzene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Carbon disulfide	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Carbon tetrachloride	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Chlorobenzene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Chloroethane	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Chloroform	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Chloromethane	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
2-Chlorotoluene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
4-Chlorotoluene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Chlorodibromomethane	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
1,2-Dichlorobenzene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
1,3-Dichlorobenzene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
1,4-Dichlorobenzene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
1,3-Dichloropropane	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
1,1-Dichloropropene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
1,2-Dibromo-3-Chloropropane	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Ethylene Dibromide	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Dibromomethane	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Dichlorodifluoromethane	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
1,1-Dichloroethane	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
1,2-Dichloroethane	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
1,1-Dichloroethene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
cis-1,2-Dichloroethene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
trans-1,2-Dichloroethene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
1,2-Dichloropropane	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
cis-1,3-Dichloropropene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
trans-1,3-Dichloropropene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Ethylbenzene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Hexachlorobutadiene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
2-Hexanone	ND		43		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Isopropylbenzene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
4-Isopropyltoluene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Methylene Chloride	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
4-Methyl-2-pentanone (MIBK)	ND		43		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Naphthalene	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
N-Propylbenzene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Styrene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
1,1,1,2-Tetrachloroethane	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-2

Client Sample ID: SB-2 (14 1/2-15)
Date Collected: 12/21/12 13:50
Date Received: 12/21/12 18:30

Lab Sample ID: 720-46854-27
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Tetrachloroethene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Toluene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
1,2,3-Trichlorobenzene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
1,2,4-Trichlorobenzene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
1,1,1-Trichloroethane	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
1,1,2-Trichloroethane	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Trichloroethene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Trichlorofluoromethane	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
1,2,3-Trichloropropane	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
1,2,4-Trimethylbenzene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
1,3,5-Trimethylbenzene	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Vinyl acetate	ND		43		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Vinyl chloride	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Xylenes, Total	ND		8.5		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
2,2-Dichloropropane	ND		4.3		ug/Kg		12/22/12 12:00	12/24/12 14:43	1
Gasoline Range Organics (GRO) -C5-C12	ND		210		ug/Kg		12/22/12 12:00	12/24/12 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*71*		*45 - 131*	*12/22/12 12:00*	*12/24/12 14:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*122*		*60 - 140*	*12/22/12 12:00*	*12/24/12 14:43*	*1*
Toluene-d8 (Surr)	*90*		*58 - 140*	*12/22/12 12:00*	*12/24/12 14:43*	*1*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-127656/1-A
Matrix: Solid
Analysis Batch: 127638

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127656

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Acetone	ND		50		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Benzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Dichlorobromomethane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Bromobenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Chlorobromomethane	ND		20		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Bromoform	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Bromomethane	ND		10		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
2-Butanone (MEK)	ND		50		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
n-Butylbenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
sec-Butylbenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
tert-Butylbenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Carbon disulfide	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Carbon tetrachloride	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Chlorobenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Chloroethane	ND		10		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Chloroform	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Chloromethane	ND		10		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
2-Chlorotoluene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
4-Chlorotoluene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Chlorodibromomethane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,3-Dichloropropane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,1-Dichloropropene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Ethylene Dibromide	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Dibromomethane	ND		10		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Dichlorodifluoromethane	ND		10		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,1-Dichloroethane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,2-Dichloroethane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,1-Dichloroethene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,2-Dichloropropane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Ethylbenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Hexachlorobutadiene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
2-Hexanone	ND		50		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Isopropylbenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
4-Isopropyltoluene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Methylene Chloride	ND		10		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Naphthalene	ND		10		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
N-Propylbenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Styrene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-127656/1-A
Matrix: Solid
Analysis Batch: 127638

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127656

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Tetrachloroethene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Toluene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Trichloroethene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Trichlorofluoromethane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Vinyl acetate	ND		50		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Vinyl chloride	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Xylenes, Total	ND		10		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
2,2-Dichloropropane	ND		5.0		ug/Kg		12/24/12 09:00	12/24/12 09:21	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		12/24/12 09:00	12/24/12 09:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*45 - 131*	*12/24/12 09:00*	*12/24/12 09:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*	*12/24/12 09:00*	*12/24/12 09:21*	*1*
Toluene-d8 (Surr)	*97*		*58 - 140*	*12/24/12 09:00*	*12/24/12 09:21*	*1*

Lab Sample ID: LCS 720-127656/2-A
Matrix: Solid
Analysis Batch: 127638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	52.4		ug/Kg		105	70 - 144
Acetone	250	285		ug/Kg		114	30 - 162
Benzene	50.0	51.0		ug/Kg		102	70 - 130
Dichlorobromomethane	50.0	52.1		ug/Kg		104	70 - 131
Bromobenzene	50.0	52.0		ug/Kg		104	70 - 130
Chlorobromomethane	50.0	57.0		ug/Kg		114	70 - 130
Bromoform	50.0	54.4		ug/Kg		109	59 - 158
Bromomethane	50.0	43.7		ug/Kg		87	59 - 132
2-Butanone (MEK)	250	238		ug/Kg		95	53 - 124
n-Butylbenzene	50.0	53.5		ug/Kg		107	70 - 142
sec-Butylbenzene	50.0	48.4		ug/Kg		97	70 - 136
tert-Butylbenzene	50.0	51.2		ug/Kg		102	70 - 130
Carbon disulfide	50.0	48.6		ug/Kg		97	60 - 140
Carbon tetrachloride	50.0	53.0		ug/Kg		106	70 - 138
Chlorobenzene	50.0	50.0		ug/Kg		100	70 - 130
Chloroethane	50.0	44.6		ug/Kg		89	65 - 130
Chloroform	50.0	52.1		ug/Kg		104	77 - 127

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-127656/2-A
Matrix: Solid
Analysis Batch: 127638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	39.1		ug/Kg		78	55 - 140
2-Chlorotoluene	50.0	56.7		ug/Kg		113	70 - 138
4-Chlorotoluene	50.0	56.0		ug/Kg		112	70 - 136
Chlorodibromomethane	50.0	54.1		ug/Kg		108	70 - 146
1,2-Dichlorobenzene	50.0	49.1		ug/Kg		98	70 - 130
1,3-Dichlorobenzene	50.0	50.8		ug/Kg		102	70 - 131
1,4-Dichlorobenzene	50.0	49.1		ug/Kg		98	70 - 130
1,3-Dichloropropane	50.0	50.5		ug/Kg		101	70 - 140
1,1-Dichloropropene	50.0	55.5		ug/Kg		111	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	53.5		ug/Kg		107	60 - 145
Ethylene Dibromide	50.0	52.3		ug/Kg		105	70 - 140
Dibromomethane	50.0	53.0		ug/Kg		106	70 - 139
Dichlorodifluoromethane	50.0	33.0		ug/Kg		66	37 - 158
1,1-Dichloroethane	50.0	53.6		ug/Kg		107	70 - 130
1,2-Dichloroethane	50.0	54.9		ug/Kg		110	70 - 130
1,1-Dichloroethene	50.0	52.7		ug/Kg		105	76 - 122
cis-1,2-Dichloroethene	50.0	57.6		ug/Kg		115	70 - 138
trans-1,2-Dichloroethene	50.0	52.0		ug/Kg		104	67 - 130
1,2-Dichloropropane	50.0	53.3		ug/Kg		107	73 - 127
cis-1,3-Dichloropropene	50.0	55.2		ug/Kg		110	68 - 147
trans-1,3-Dichloropropene	50.0	56.7		ug/Kg		113	70 - 136
Ethylbenzene	50.0	52.4		ug/Kg		105	80 - 137
Hexachlorobutadiene	50.0	49.4		ug/Kg		99	70 - 132
2-Hexanone	250	245		ug/Kg		98	44 - 133
Isopropylbenzene	50.0	53.3		ug/Kg		107	88 - 128
4-Isopropyltoluene	50.0	50.6		ug/Kg		101	70 - 133
Methylene Chloride	50.0	52.5		ug/Kg		105	70 - 134
4-Methyl-2-pentanone (MIBK)	250	265		ug/Kg		106	60 - 160
Naphthalene	50.0	57.5		ug/Kg		115	60 - 147
N-Propylbenzene	50.0	52.3		ug/Kg		105	70 - 130
Styrene	50.0	54.0		ug/Kg		108	70 - 130
1,1,1,2-Tetrachloroethane	50.0	51.5		ug/Kg		103	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.0		ug/Kg		100	70 - 146
Tetrachloroethene	50.0	49.3		ug/Kg		99	70 - 132
Toluene	50.0	49.3		ug/Kg		99	80 - 128
1,2,3-Trichlorobenzene	50.0	49.0		ug/Kg		98	60 - 140
1,2,4-Trichlorobenzene	50.0	54.0		ug/Kg		108	60 - 140
1,1,1-Trichloroethane	50.0	53.7		ug/Kg		107	70 - 130
1,1,2-Trichloroethane	50.0	51.0		ug/Kg		102	70 - 130
Trichloroethene	50.0	50.8		ug/Kg		102	70 - 133
Trichlorofluoromethane	50.0	48.7		ug/Kg		97	60 - 140
1,2,3-Trichloropropane	50.0	54.1		ug/Kg		108	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.8		ug/Kg		104	60 - 140
1,2,4-Trimethylbenzene	50.0	49.9		ug/Kg		100	70 - 130
1,3,5-Trimethylbenzene	50.0	51.2		ug/Kg		102	70 - 131
Vinyl acetate	50.0	62.7		ug/Kg		125	38 - 176
Vinyl chloride	50.0	39.2		ug/Kg		78	58 - 125

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-127656/2-A
Matrix: Solid
Analysis Batch: 127638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	100	113		ug/Kg		113	70 - 146
o-Xylene	50.0	52.8		ug/Kg		106	70 - 140
2,2-Dichloropropane	50.0	65.4		ug/Kg		131	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*112*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*
Toluene-d8 (Surr)	*99*		*58 - 140*

Lab Sample ID: LCS 720-127656/4-A
Matrix: Solid
Analysis Batch: 127638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1130		ug/Kg		113	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*
Toluene-d8 (Surr)	*113*		*58 - 140*

Lab Sample ID: LCSD 720-127656/3-A
Matrix: Solid
Analysis Batch: 127638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127656

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	53.8		ug/Kg		108	70 - 144	3	20
Acetone	250	262		ug/Kg		105	30 - 162	9	30
Benzene	50.0	51.3		ug/Kg		103	70 - 130	1	20
Dichlorobromomethane	50.0	52.4		ug/Kg		105	70 - 131	1	20
Bromobenzene	50.0	53.2		ug/Kg		106	70 - 130	2	20
Chlorobromomethane	50.0	56.9		ug/Kg		114	70 - 130	0	20
Bromoform	50.0	55.6		ug/Kg		111	59 - 158	2	20
Bromomethane	50.0	44.6		ug/Kg		89	59 - 132	2	20
2-Butanone (MEK)	250	253		ug/Kg		101	53 - 124	6	20
n-Butylbenzene	50.0	53.8		ug/Kg		108	70 - 142	1	20
sec-Butylbenzene	50.0	49.8		ug/Kg		100	70 - 136	3	20
tert-Butylbenzene	50.0	52.2		ug/Kg		104	70 - 130	2	20
Carbon disulfide	50.0	48.5		ug/Kg		97	60 - 140	0	20
Carbon tetrachloride	50.0	53.8		ug/Kg		108	70 - 138	2	20
Chlorobenzene	50.0	50.0		ug/Kg		100	70 - 130	0	20
Chloroethane	50.0	44.8		ug/Kg		90	65 - 130	1	20
Chloroform	50.0	51.6		ug/Kg		103	77 - 127	1	20
Chloromethane	50.0	38.7		ug/Kg		77	55 - 140	1	20
2-Chlorotoluene	50.0	55.8		ug/Kg		112	70 - 138	2	20
4-Chlorotoluene	50.0	55.7		ug/Kg		111	70 - 136	1	20
Chlorodibromomethane	50.0	54.1		ug/Kg		108	70 - 146	0	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-127656/3-A
Matrix: Solid
Analysis Batch: 127638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127656

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	50.0	50.4		ug/Kg		101	70 - 130	3	20
1,3-Dichlorobenzene	50.0	52.5		ug/Kg		105	70 - 131	3	20
1,4-Dichlorobenzene	50.0	50.3		ug/Kg		101	70 - 130	2	20
1,3-Dichloropropane	50.0	49.4		ug/Kg		99	70 - 140	2	20
1,1-Dichloropropene	50.0	54.4		ug/Kg		109	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	50.0	57.6		ug/Kg		115	60 - 145	7	20
Ethylene Dibromide	50.0	53.6		ug/Kg		107	70 - 140	2	20
Dibromomethane	50.0	52.0		ug/Kg		104	70 - 139	2	20
Dichlorodifluoromethane	50.0	33.4		ug/Kg		67	37 - 158	1	20
1,1-Dichloroethane	50.0	52.8		ug/Kg		106	70 - 130	1	20
1,2-Dichloroethane	50.0	51.3		ug/Kg		103	70 - 130	7	20
1,1-Dichloroethene	50.0	53.4		ug/Kg		107	76 - 122	1	20
cis-1,2-Dichloroethene	50.0	56.7		ug/Kg		113	70 - 138	2	20
trans-1,2-Dichloroethene	50.0	53.4		ug/Kg		107	67 - 130	3	20
1,2-Dichloropropane	50.0	52.5		ug/Kg		105	73 - 127	1	20
cis-1,3-Dichloropropene	50.0	51.9		ug/Kg		104	68 - 147	6	20
trans-1,3-Dichloropropene	50.0	54.9		ug/Kg		110	70 - 136	3	20
Ethylbenzene	50.0	51.7		ug/Kg		103	80 - 137	1	20
Hexachlorobutadiene	50.0	51.8		ug/Kg		104	70 - 132	5	20
2-Hexanone	250	245		ug/Kg		98	44 - 133	0	20
Isopropylbenzene	50.0	53.3		ug/Kg		107	88 - 128	0	20
4-Isopropyltoluene	50.0	51.6		ug/Kg		103	70 - 133	2	20
Methylene Chloride	50.0	52.7		ug/Kg		105	70 - 134	0	20
4-Methyl-2-pentanone (MIBK)	250	255		ug/Kg		102	60 - 160	4	20
Naphthalene	50.0	58.9		ug/Kg		118	60 - 147	2	20
N-Propylbenzene	50.0	52.5		ug/Kg		105	70 - 130	0	20
Styrene	50.0	54.2		ug/Kg		108	70 - 130	0	20
1,1,1,2-Tetrachloroethane	50.0	53.1		ug/Kg		106	70 - 130	3	20
1,1,2,2-Tetrachloroethane	50.0	51.5		ug/Kg		103	70 - 146	3	20
Tetrachloroethene	50.0	50.6		ug/Kg		101	70 - 132	3	20
Toluene	50.0	48.7		ug/Kg		97	80 - 128	1	20
1,2,3-Trichlorobenzene	50.0	50.2		ug/Kg		100	60 - 140	2	20
1,2,4-Trichlorobenzene	50.0	55.0		ug/Kg		110	60 - 140	2	20
1,1,1-Trichloroethane	50.0	52.0		ug/Kg		104	70 - 130	3	20
1,1,2-Trichloroethane	50.0	49.6		ug/Kg		99	70 - 130	3	20
Trichloroethene	50.0	51.7		ug/Kg		103	70 - 133	2	20
Trichlorofluoromethane	50.0	48.7		ug/Kg		97	60 - 140	0	20
1,2,3-Trichloropropane	50.0	56.2		ug/Kg		112	70 - 146	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.7		ug/Kg		107	60 - 140	4	20
1,2,4-Trimethylbenzene	50.0	50.9		ug/Kg		102	70 - 130	2	20
1,3,5-Trimethylbenzene	50.0	51.3		ug/Kg		103	70 - 131	0	20
Vinyl acetate	50.0	62.4		ug/Kg		125	38 - 176	0	20
Vinyl chloride	50.0	39.4		ug/Kg		79	58 - 125	0	20
m-Xylene & p-Xylene	100	111		ug/Kg		111	70 - 146	1	20
o-Xylene	50.0	52.3		ug/Kg		105	70 - 140	1	20
2,2-Dichloropropane	50.0	60.6		ug/Kg		121	70 - 162	8	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-127656/3-A
Matrix: Solid
Analysis Batch: 127638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127656

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*112*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*
Toluene-d8 (Surr)	*100*		*58 - 140*

Lab Sample ID: LCSD 720-127656/5-A
Matrix: Solid
Analysis Batch: 127638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127656

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1070		ug/Kg		107	61 - 128	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*
Toluene-d8 (Surr)	*112*		*58 - 140*

GC/MS VOA

Analysis Batch: 127638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-7	SB-1 (14 1/2-15)	Total/NA	Solid	8260B/CA_LUFT MS	127656
720-46854-22	SB-3 (14 1/2-15)	Total/NA	Solid	8260B/CA_LUFT MS	127656
720-46854-27	SB-2 (14 1/2-15)	Total/NA	Solid	8260B/CA_LUFT MS	127656
LCS 720-127656/2-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	127656
LCS 720-127656/4-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	127656
LCSD 720-127656/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	127656
LCSD 720-127656/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	127656
MB 720-127656/1-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	127656

Prep Batch: 127656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-46854-7	SB-1 (14 1/2-15)	Total/NA	Solid	5035	
720-46854-22	SB-3 (14 1/2-15)	Total/NA	Solid	5035	
720-46854-27	SB-2 (14 1/2-15)	Total/NA	Solid	5035	
LCS 720-127656/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 720-127656/4-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 720-127656/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	
LCSD 720-127656/5-A	Lab Control Sample Dup	Total/NA	Solid	5035	
MB 720-127656/1-A	Method Blank	Total/NA	Solid	5035	

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-2

Client Sample ID: SB-1 (14 1/2-15)

Lab Sample ID: 720-46854-7

Date Collected: 12/21/12 09:00

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			127656	12/22/12 12:00	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	127638	12/24/12 13:44	AC	TAL SF

Client Sample ID: SB-3 (14 1/2-15)

Lab Sample ID: 720-46854-22

Date Collected: 12/21/12 13:05

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			127656	12/22/12 12:00	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	127638	12/24/12 14:13	AC	TAL SF

Client Sample ID: SB-2 (14 1/2-15)

Lab Sample ID: 720-46854-27

Date Collected: 12/21/12 13:50

Matrix: Solid

Date Received: 12/21/12 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			127656	12/22/12 12:00	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	127638	12/24/12 14:43	AC	TAL SF

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-2

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-2

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Cornerstone Earth Group
Project/Site: Samsun Semiconductor

TestAmerica Job ID: 720-46854-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-46854-7	SB-1 (14 1/2-15)	Solid	12/21/12 09:00	12/21/12 18:30
720-46854-22	SB-3 (14 1/2-15)	Solid	12/21/12 13:05	12/21/12 18:30
720-46854-27	SB-2 (14 1/2-15)	Solid	12/21/12 13:50	12/21/12 18:30

720-46854-2

Salimpour, Afsaneh

From: Jacob B. Lee [jlee@cornerstoneearth.com]
Sent: Friday, January 11, 2013 3:38 PM
To: Salimpour, Afsaneh
Subject: Re: Files from 720-46854-1 Samsun Semiconductor

Afsaneh,
Please run the following three samples for VOCs (EPA 8260) on a standard TAT

SB-1 (14 1/2-15) TASF #7
SB-3 (14 1/2-15) TASF #22
SB-2 (14 1/2-15) TASF #27

Thanks,

Jacob B. Lee, P.G.
Project Geologist

Cornerstone Earth Group
1270 Springbrook Road, Suite 101
Walnut Creek, CA 94597

Office: (925) 988-9500 ext.12
Fax: (925) 988-9501
Cell: (408) 890-1217
jlee@cornerstoneearth.com

On Jan 3, 2013, at 4:17 PM, Noah D. Hornsby wrote:

> Jacob,
>
> Attached are the results for the Samsung job. Do you need me to put together a data table for this? I will try to get you the boring logs for the soil borings tomorrow. I haven't seen the soil vapor well notes from Ross yet but will work on those logs as soon as they come in.
>
> Thanks,
>
> Noah Hornsby
> Staff Engineer
>
> <image001.jpg>
>
> 1259 Oakmead Parkway, Sunnyvale, CA 94085

Login Sample Receipt Checklist

Client: Cornerstone Earth Group

Job Number: 720-46854-2

Login Number: 46854
List Number: 1
Creator: Mullen, Joan

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

CORNERSTONE EARTH GROUP

Samsung Corporate Headquarters
3655 North First Street
San Jose, California
118-37-3