Table 9-4
Proposed Cleanup Levels in Groundwater
Former Kast Property
Carson, CA

Chemical Group	Chemical	Maximum On-Site Concentration Detected (µg/L)	Proposed Clean Up SSCG (µg/L)	Rationale for Proposed SSCG
TPH	Benzene	689	1[1]	Primary MCL, NL,or ESL/zero natural background
	Naphthalene	82	17[2]	
	tert-Butyl Alcohol (TBA)	250	12[2]	
	TPH-Gasoline	3,200	410[3]	
	TPH-Diesel	3,000	200[3]	
	TPH-Motor Oil	1,700	6200[3]	
Chlorinated	1,1-Dichloroethane	22	5[1]	Primary MCL/zero natural background
	1,1-Dichloroethene	33	6[1]	
	1,2,3-Trichloropropane	27	0.005[2]	
	1,2-Dichloroethane	6.1	0.5[1]	
	cis-1,2-Dichloroethene	510	6[1]	
	Tetrachloroethene	260	5[1]	
	trans-1,2-Dichloroethene	120	10[1]	
	Trichloroethene	400	5[1]	
	Vinyl Chloride	0.71	0.5[1]	
	1,4-Dichlorobenzene	11	5[1]	
Trace Metals	Antimony	19.3	BKG	Can have natural sources and naturally elevated background concentrations
	Thallium	4.24J	BKG	
	Arsenic	900	BKG	
General Mineral	Iron	67 mg/L	NP	Basin wide contaminant with natural sources and naturally elevated background concentrations
	Manganese	2.55 mg/L	NP	
	Chloride	1,400 mg/L	NP	
	Nitrate (as N)	14 mg/L	BKG	
	Total Dissolved Solids	3,320 mg/L	NP	
	Specific Conductance	4,200 µS/cm	NP	

Notes:
[1]: Primary MCL (Maximum Contaminant Level for drinking water)
[2]: NL (Notification Level)
[3]: ESL (SFRWQCB Health Risk Environmental Screening Level)
BKG: Background Level
NP: Not Proposed
µg/L: micrograms per liter ; mg/L: milligrams per liter; µS/cm: microsimens per centimeter

Table 9-5
Summary of Preliminary Cost Estimates for Screening Feasibility Study
Former Kast Property
Carson, CA

Alternative	Criteria	Property Purchase Cost (285 properties)	Demolition Costs	Excavate, Backfill, & Assoc. Costs	PM, Planning, Field Mgmt, Monitoring, Reporting, Security	Post Excavation Construction and Long-Term O&M	Total Est. Costs	Low-End Costs (-30%)	High-End Costs (+50%)
1	ALTERNATIVE 1 * Remove all site features. * Excavate entire site to remove impacted soils (excavation may locally extend to GW). * Limited removal or remediation of impacted GW. * MNA remedy for remaining GW. Could add limited hot spot remediation to reduce time to achieve cleanup goals. * Remove LNAPL as feasible.	$98,000,000	$18,000,000	$270,000,000	$27,000,000	$4,000,000	$420,000,000	$290,000,000	$630,000,000
2	ALTERNATIVE 2 * Remove all site features. * Excavate upper 10 feet to remove impacted soils. * MNA remedy for remaining GW. Could add limited hot spot remediation to reduce time to achieve cleanup goals.	$98,000,000	$18,000,000	$130,000,000	$19,000,000	$4,800,000	$270,000,000	$190,000,000	$410,000,000
2+7	ALTERNATIVE 2+7 * Remove all site features. * Excavate upper 10 feet to remove shy impacted soils. * MNA remedy for remaining GW. Could add limited hot spot remediation to reduce time to achieve cleanup goals. * Remove LNAPL as feasible. * Add SVE to reduce VOC/TPH mass.	$98,000,000	$18,000,000	$140,000,000	$20,000,000	$7,200,000	$280,000,000	$200,000,000	$420,000,000
3	ALTERNATIVE 3 * Excavate exposed soils and soils under residential hardscape to 2 feet where HHSD goals are exceeded. * No excavation beneath streets. * Install subslab mitigation at homes where subslab VOC and methane concentrations exceed screening value. * MNA remedy for GW. Could add limited hot spot remediation to reduce time to achieve cleanup goals.	$0	$670,000	$9,400,000	$17,000,000	$4,400,000	$31,000,000	$22,000,000	$46,000,000

Table 9-5
Summary of Preliminary Cost Estimates for Screening Feasibility Study
Former Kast Property
Carson, CA

Alternative	Criteria	Property Purchase Cost (285 properties)	Demolition Costs	Excavate, Backfill, & Assoc. Costs	PM, Planning, Field Mgmt, Monitoring, Reporting, Security	Post Excavation Construction and Long-Term O&M	Total Est. Costs	Low-End Costs (-30%)	High-End Costs (+50%)
3+7	ALTERNATIVE 3+7 * Excavate exposed soils and soils under residential landscape to 2 feet where HH3SO goals are exceeded. * No excavation beneath streets. * Install subslab mitigation at homes where subslab VOC and methane concentrations exceed screening value. * MNA remedy for GW. Could add limited hot spot remediation to reduce time to achieve cleanup goals. * Remove LNAPL as feasible. * Add limited SVE to reduce VOC/TPH	$1,400,000	$890,000	$15,000,000	$17,000,000	$6,800,000	$41,000,000	$29,000,000	$61,000,000
3A	ALTERNATIVE 3A Same as Alt 3 except excavate to 5 feet	$0	$1,300,000	$33,000,000	$47,000,000	$4,400,000	$86,000,000	$60,000,000	$130,000,000
3A+7	ALTERNATIVE 3A+7 Same as Alt 3 except excavate to 5 feet * Add SVE to reduce VOC/TPH mass.	$1,400,000	$1,500,000	$39,000,000	$48,000,000	$6,800,000	$96,000,000	$67,000,000	$140,000,000
3B	ALTERNATIVE 3B Same as Alt 3 except excavate to 10 feet	$0	$1,400,000	$71,000,000	$84,000,000	$4,400,000	$160,000,000	$110,000,000	$240,000,000
3B+7	ALTERNATIVE 3B+7 Same as Alt 3 except excavate to 10 feet * Add SVE to reduce VOC/TPH mass.	$1,400,000	$1,600,000	$76,000,000	$85,000,000	$6,800,000	$170,000,000	$120,000,000	$260,000,000
4	ALTERNATIVE 4 * Excavate exposed site soils from 0 to 2 feet where HH3SO goals are exceeded at residential properties. * No excavation beneath residential hardscape, streets and sidewalks. * Install subslab mitigation at homes where subslab VOC and methane concentrations exceed screening value. * MNA remedy for GW. Could add limited hot spot remediation to reduce time to achieve cleanup goals.	$0	$0	$4,400,000	$13,000,000	$4,400,000	$21,000,000	$15,000,000	$32,000,000

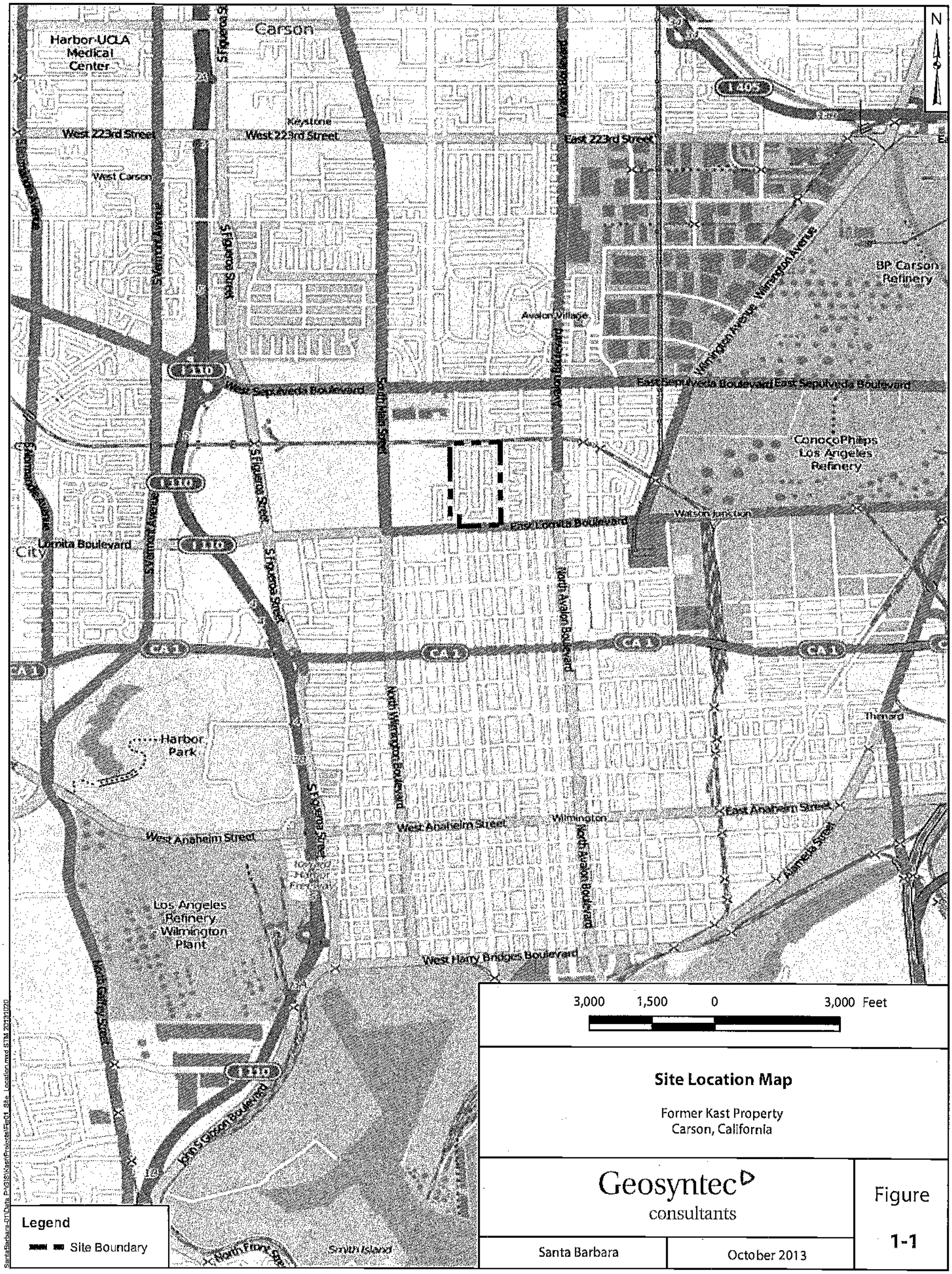
Table 9-5
Summary of Preliminary Cost Estimates for Screening Feasibility Study
Former Kast Property
Carson, CA

Alternative	Criteria	Property Purchase Cost (285 Properties)	Demolition Costs	Excavate, Backfill, & Assoc. Costs	PM, Planning, Field Mgmt, Monitoring, Reporting, Security	Post Excavation Construction and Long-Term O&M	Total Est. Costs	Low-End Costs (-30%)	High-End Costs (+50%)
4+7	ALTERNATIVE 4+7 * Excavate exposed site soils from 0 to 2 feet where HHSSO goals are exceeded at residential properties. * No excavation beneath residential hardscape, streets and sidewalks. * Install subslab mitigation at homes where subslab VOC and methane concentrations exceed screening value. * MNA remedy for GW. Could add limited hot spot remediation to reduce time to achieve cleanup goals. * Remove LNAPL as feasible.	$1,400,000	$220,000	$9,500,000	$13,000,000	$6,800,000	$31,000,000	$22,000,000	$47,000,000
4A	ALTERNATIVE 4A Same as Alt 4 except excavate exposed soils to 5 feet.	$0	$0	$18,000,000	$38,000,000	$4,400,000	$60,000,000	$42,000,000	$90,000,000
4A+7	ALTERNATIVE 4A+7 Same as Alt 4 except excavate exposed soils to 5 feet. * Add SVE to reduce VOC/TPH mass.	$1,400,000	$220,000	$23,000,000	$38,000,000	$6,800,000	$70,000,000	$49,000,000	$110,000,000
4B	ALTERNATIVE 4B Same as Alt 4 except excavate exposed soils to 10 feet.	$0	$0	$47,000,000	$73,000,000	$4,400,000	$120,000,000	$87,000,000	$190,000,000
4B+7	ALTERNATIVE 4B+7 Same as Alt 4 except excavate exposed soils to 10 feet. * Add SVE to reduce VOC/TPH mass.	$1,400,000	$220,000	$52,000,000	$73,000,000	$6,800,000	$130,000,000	$94,000,000	$200,000,000
5	ALTERNATIVE 5 * Remove all site features and cap site. * Remove LNAPL as feasible. * MNA remedy for GW. Could add limited hot spot remediation to reduce time to achieve cleanup goals.	$98,000,000	$18,000,000	$7,000,000	$2,500,000	$4,400,000	$130,000,000	$91,000,000	$200,000,000
5+7	ALTERNATIVE 5+7 * Remove all site features and cap site. * Remove LNAPL as feasible. * MNA remedy for GW. Could add limited hot spot remediation to reduce time to achieve cleanup goals. * Add SVE to reduce VOC/TPH mass.	$98,000,000	$18,000,000	$12,000,000	$3,200,000	$6,800,000	$140,000,000	$97,000,000	$210,000,000

Table 9-5
Summary of Preliminary Cost Estimates for Screening Feasibility Study
Former Kast Property
Carson, CA

Alternative	Criteria	Property Purchase Cost (285 properties)	Demolition Costs	Excavate, Backfill, & Assoc. Costs	PM, Planning, Field Mgmt, Monitoring, Reporting, Security	Post Excavation Construction and Long-Term O&M	Total Est. Costs	Low-End Costs (-30%)	High-End Costs (+50%)
6	ALTERNATIVE 6 • Cap all areas of exposed soil at the site. • Install subslab mitigation at homes where subslab VOC and methane concentrations exceed screening values. • Remove LNAPL as feasible. • MNA remedy for GW. Could add limited hot spot remediation to reduce time to achieve cleanup goals.	$0	$0	$12,000,000	$2,600,000	$4,400,000	$19,000,000	$13,000,000	$28,000,000
6+7	ALTERNATIVE 6+7 • Cap all areas of exposed soil at the site. • Install subslab mitigation at homes where subslab VOC and methane concentrations exceed screening values. • Remove LNAPL as feasible. • MNA remedy for GW. Could add limited hot spot remediation to reduce time to achieve cleanup goals. • Add SVE to reduce TPH/SVE mass.	$1,400,000	$220,000	$17,000,000	$3,300,000	$6,800,000	$28,000,000	$20,000,000	$43,000,000
7	ALTERNATIVE 7 Add limited SVE to reduce VOC/TPH mass for Alternatives 2 through 5	$1,400,000	$220,000	$5,200,000	$700,000	$2,400,000	$9,900,000	$7,000,000	$15,000,000

FIGURES



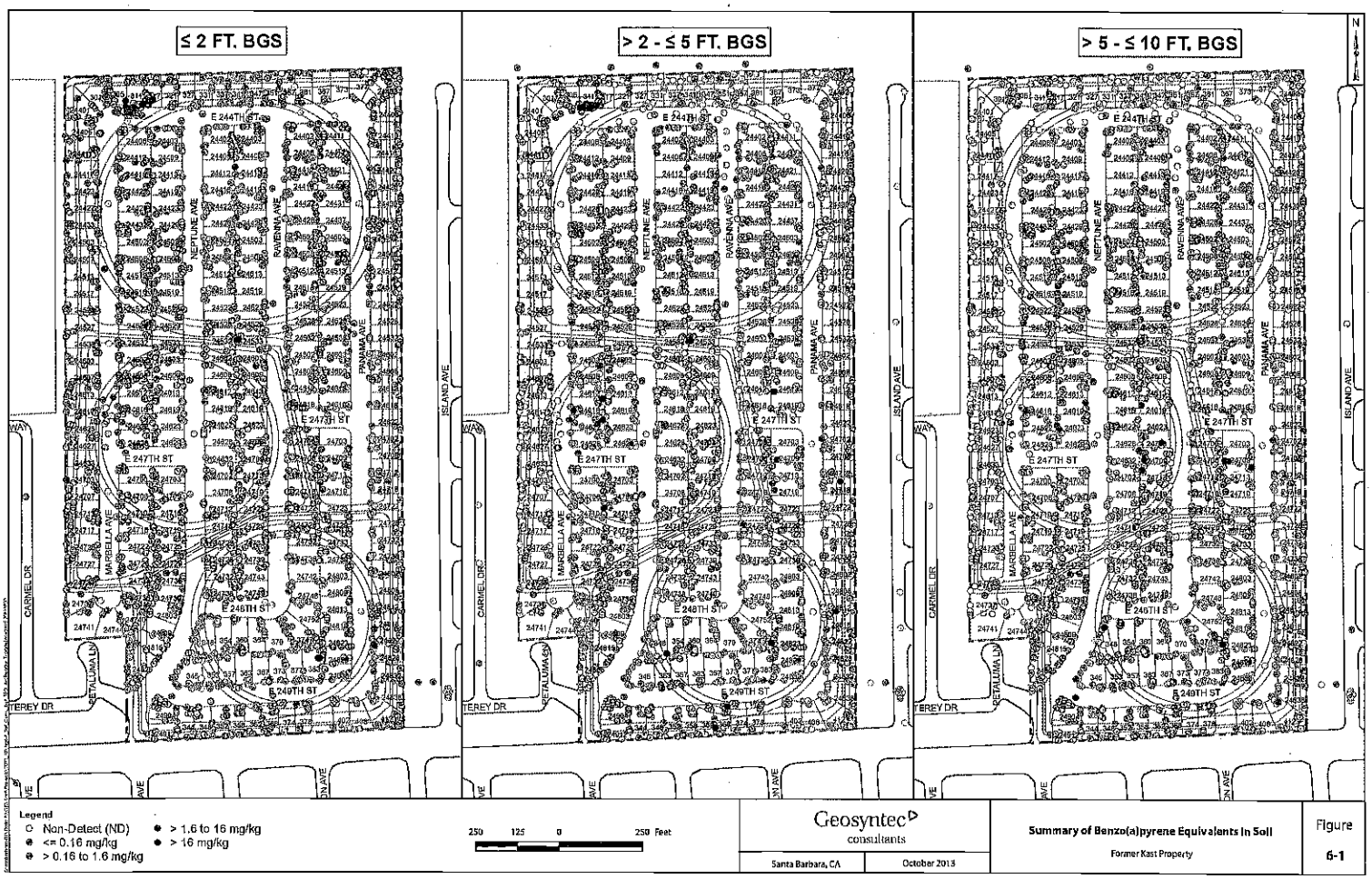
Site Location Map

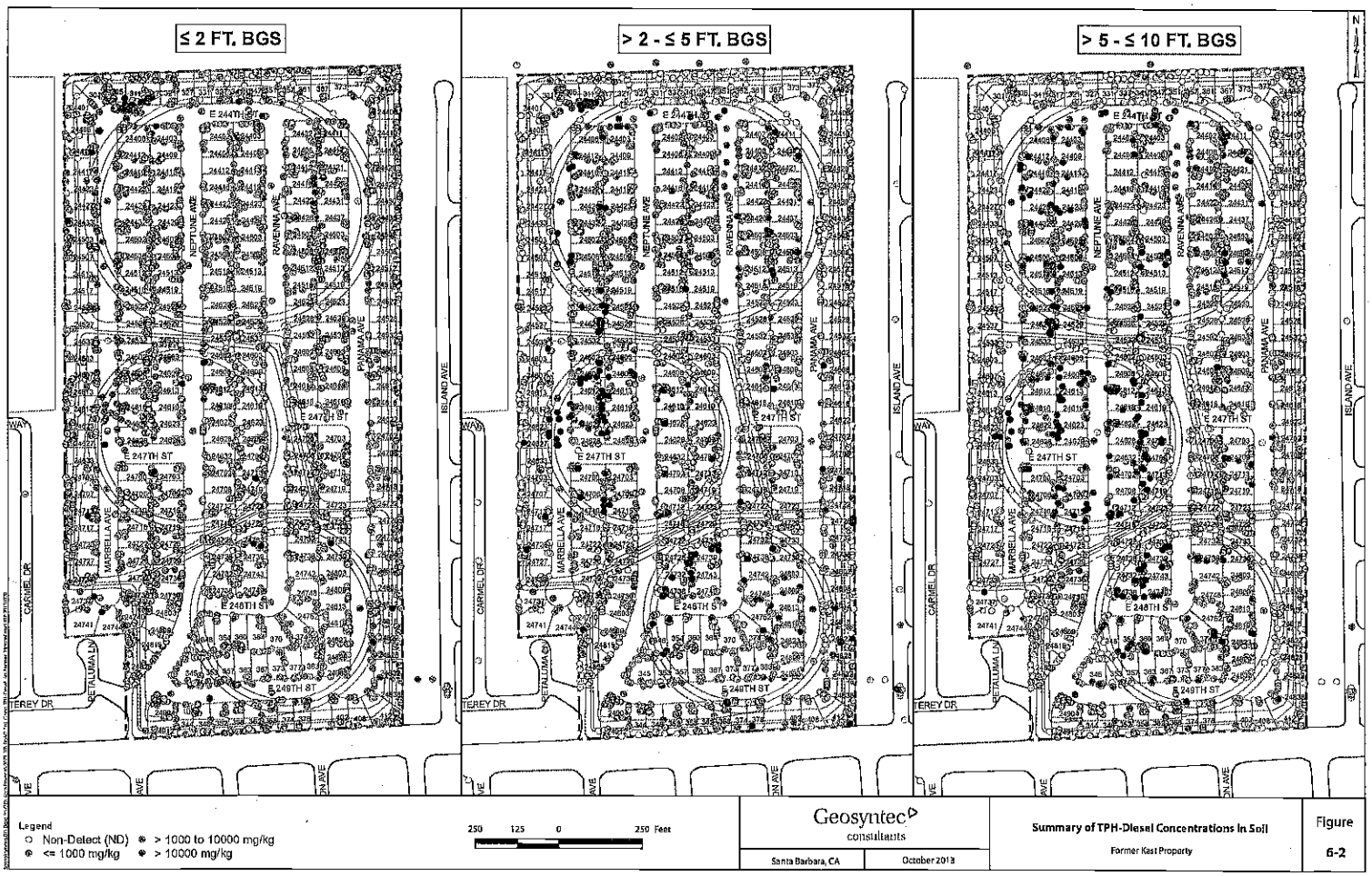
Former Kast Property
Carson, California

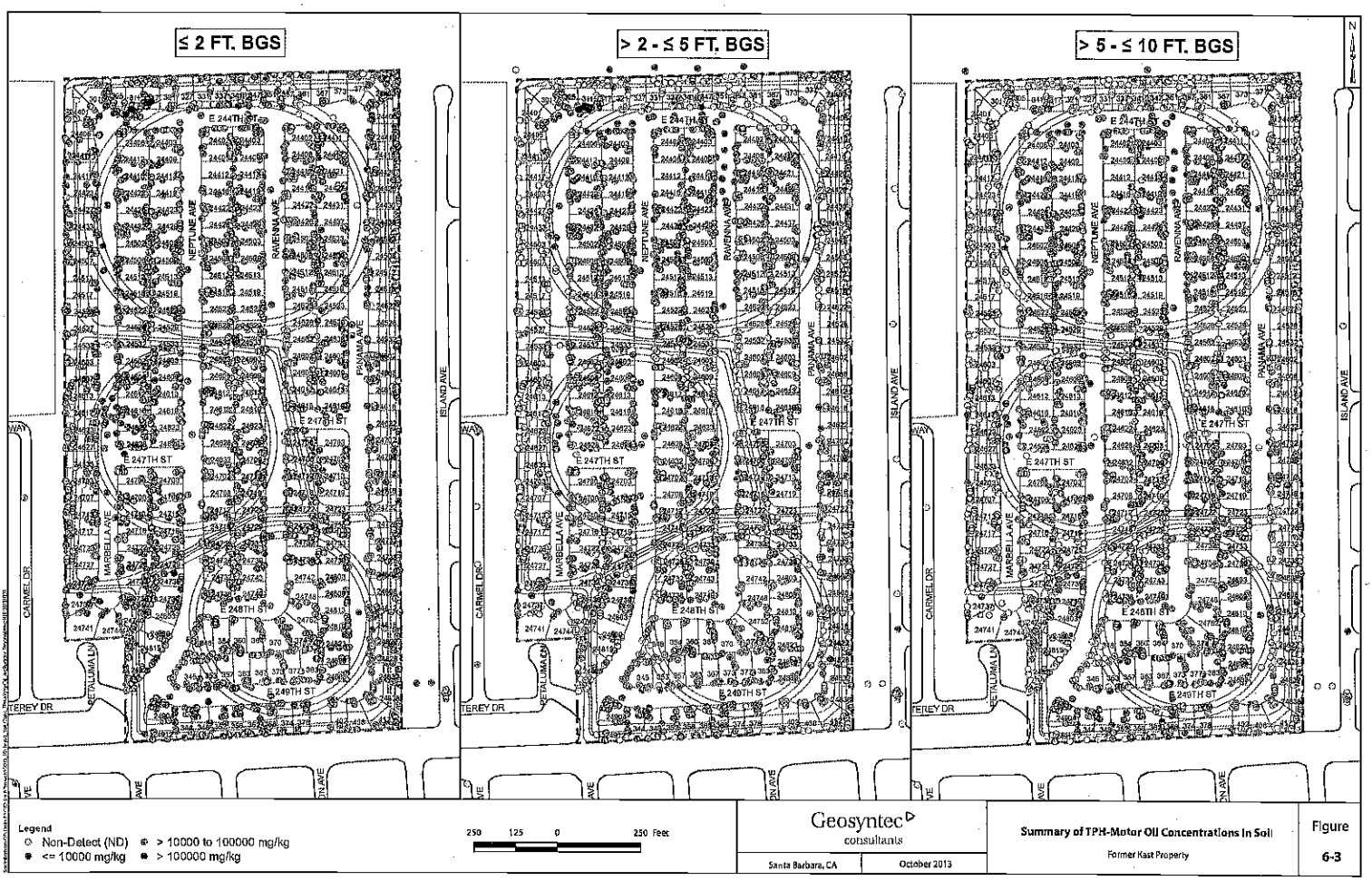
Geosyntec consultants

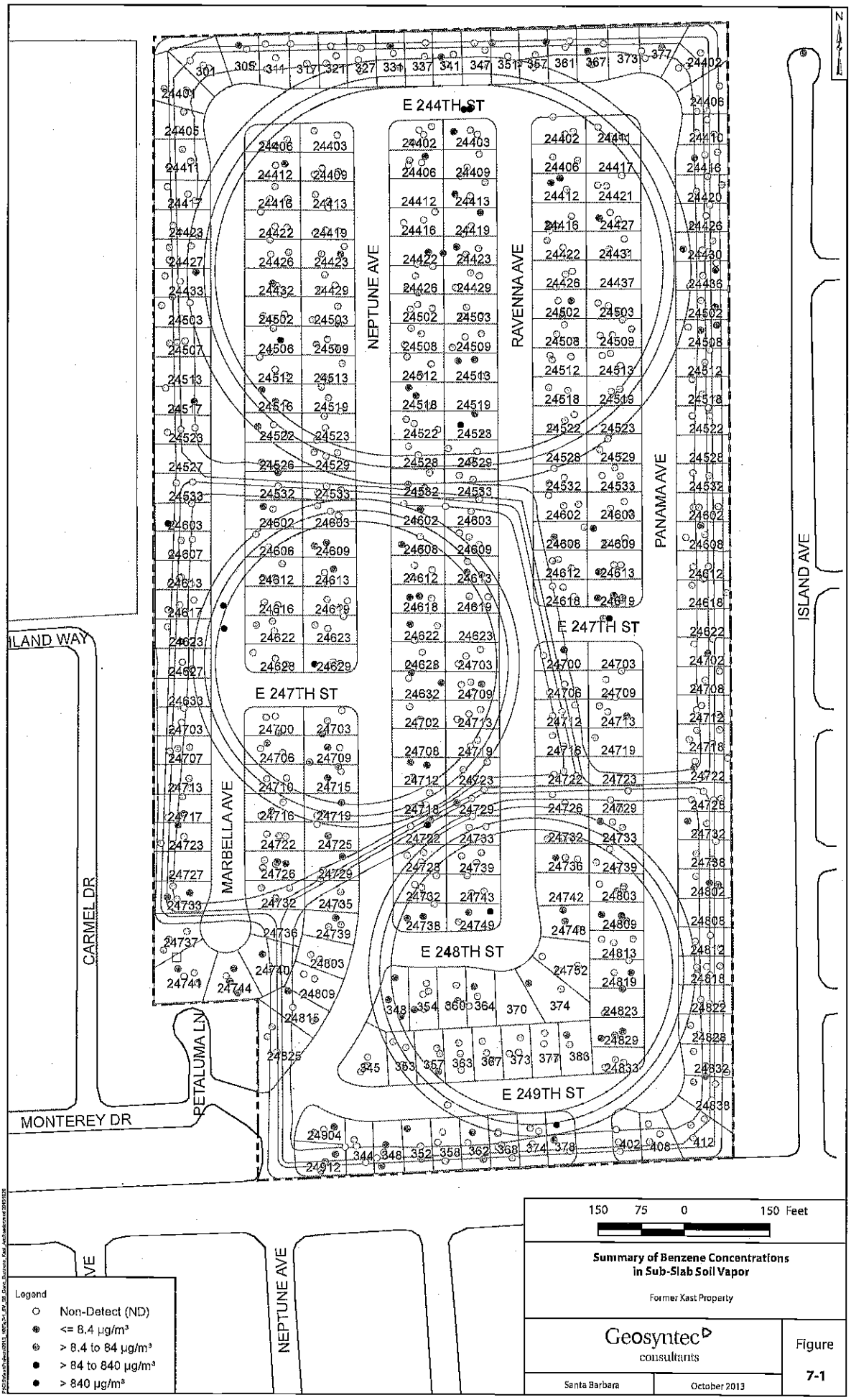
Santa Barbara | October 2013

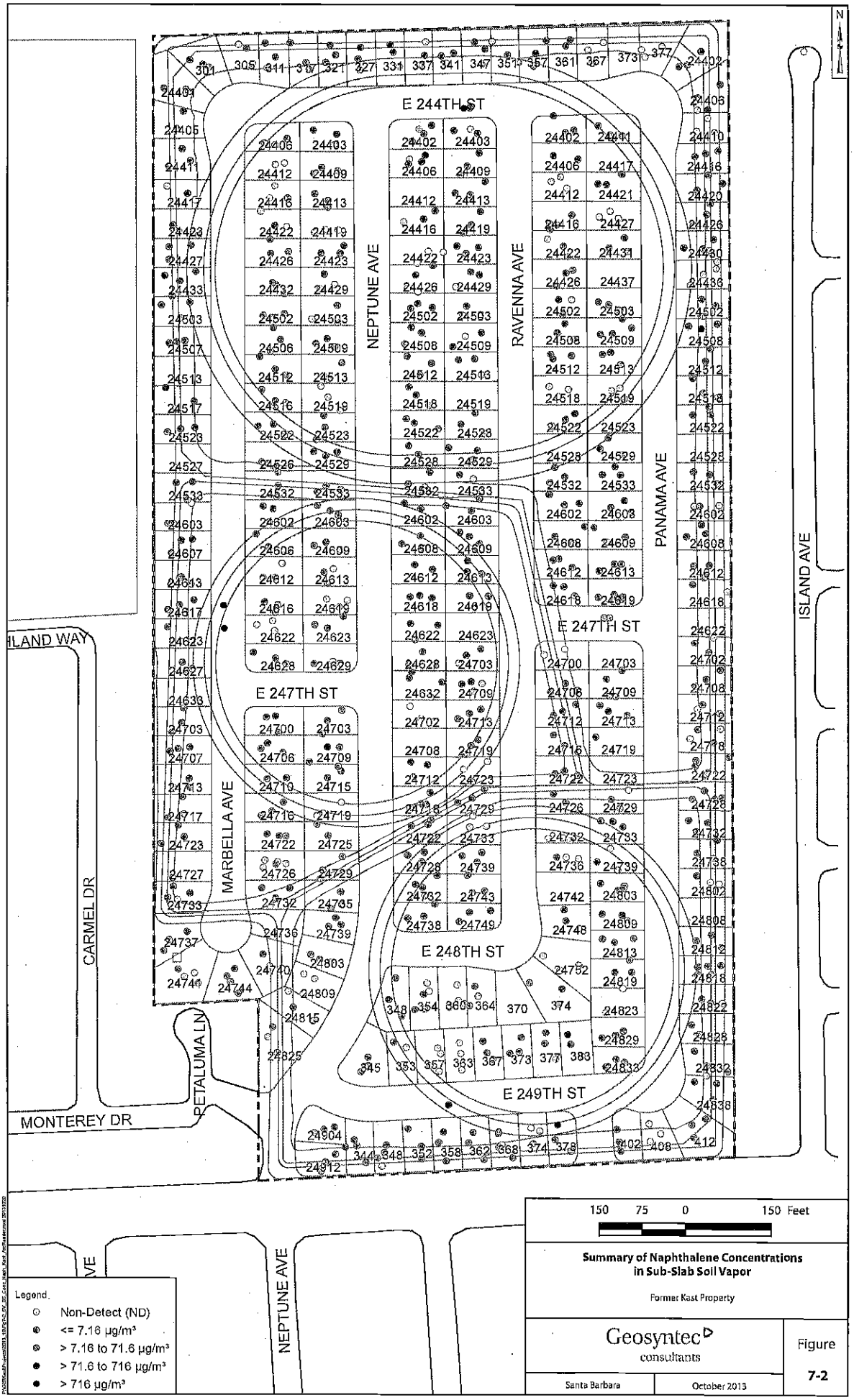
Figure 1-1

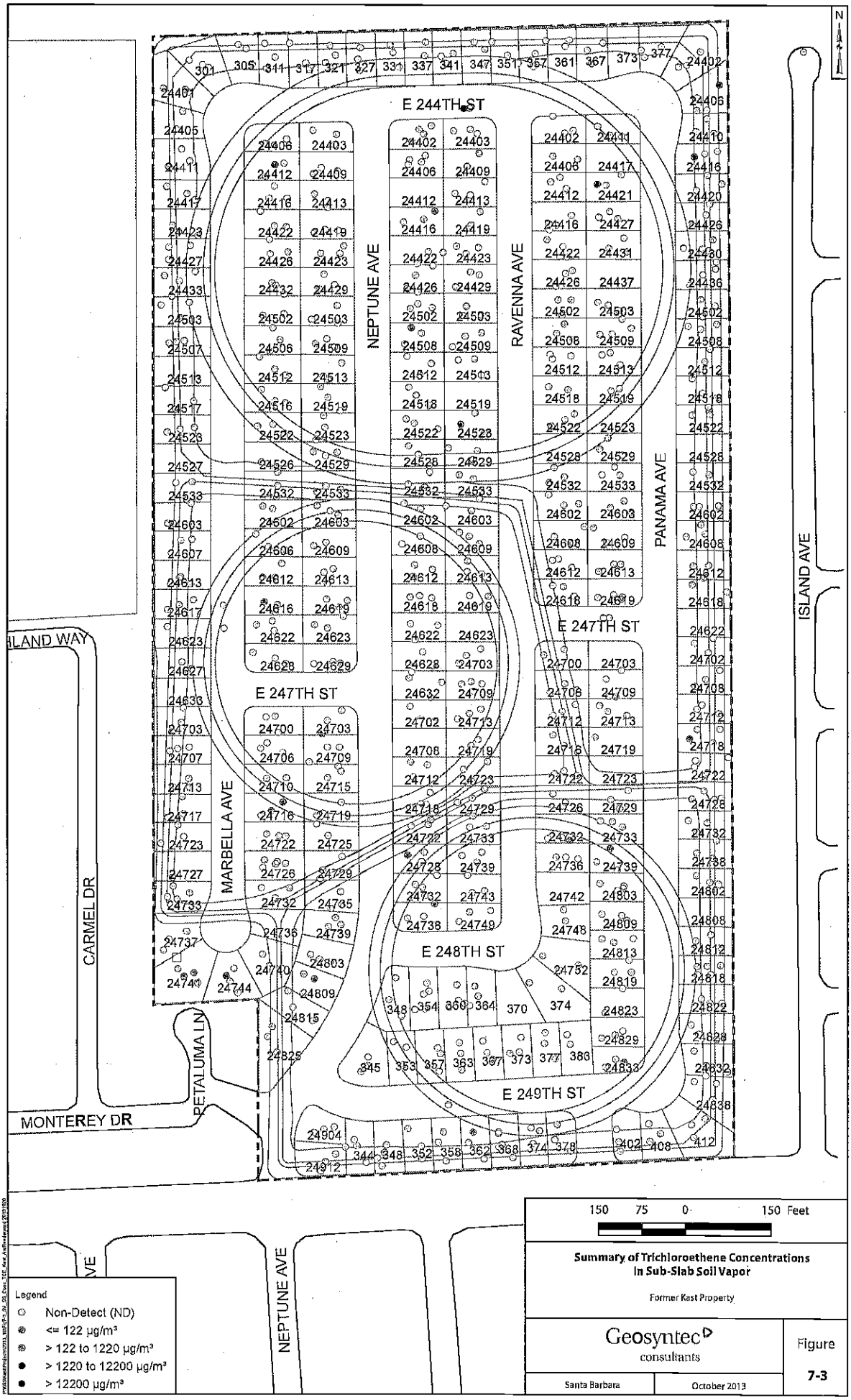

≤ 2 FT. BGS
> 2 - ≤ 5 FT. BGS
> 5 - ≤ 10 FT. BGS
N
E 244TH ST
E 247TH ST
E 246TH ST
NEPTUNE AVE
RAVENNA AVE
PANAMA AVE
ISLAND AVE
MARBELLA AVE
CARMEL DR
PETALUMA LN
TEREY DR
Legend
Non-Detect (ND)
<= 0.16 mg/kg
> 0.16 to 1.6 mg/kg
> 1.6 to 16 mg/kg
> 16 mg/kg
250 125 0 250 Feet
Geosyntec consultants
Santa Barbara, CA
October 2013
Summary of Benzo(a)pyrene Equivalents in Soil
Former Kast Property
Figure
6-1

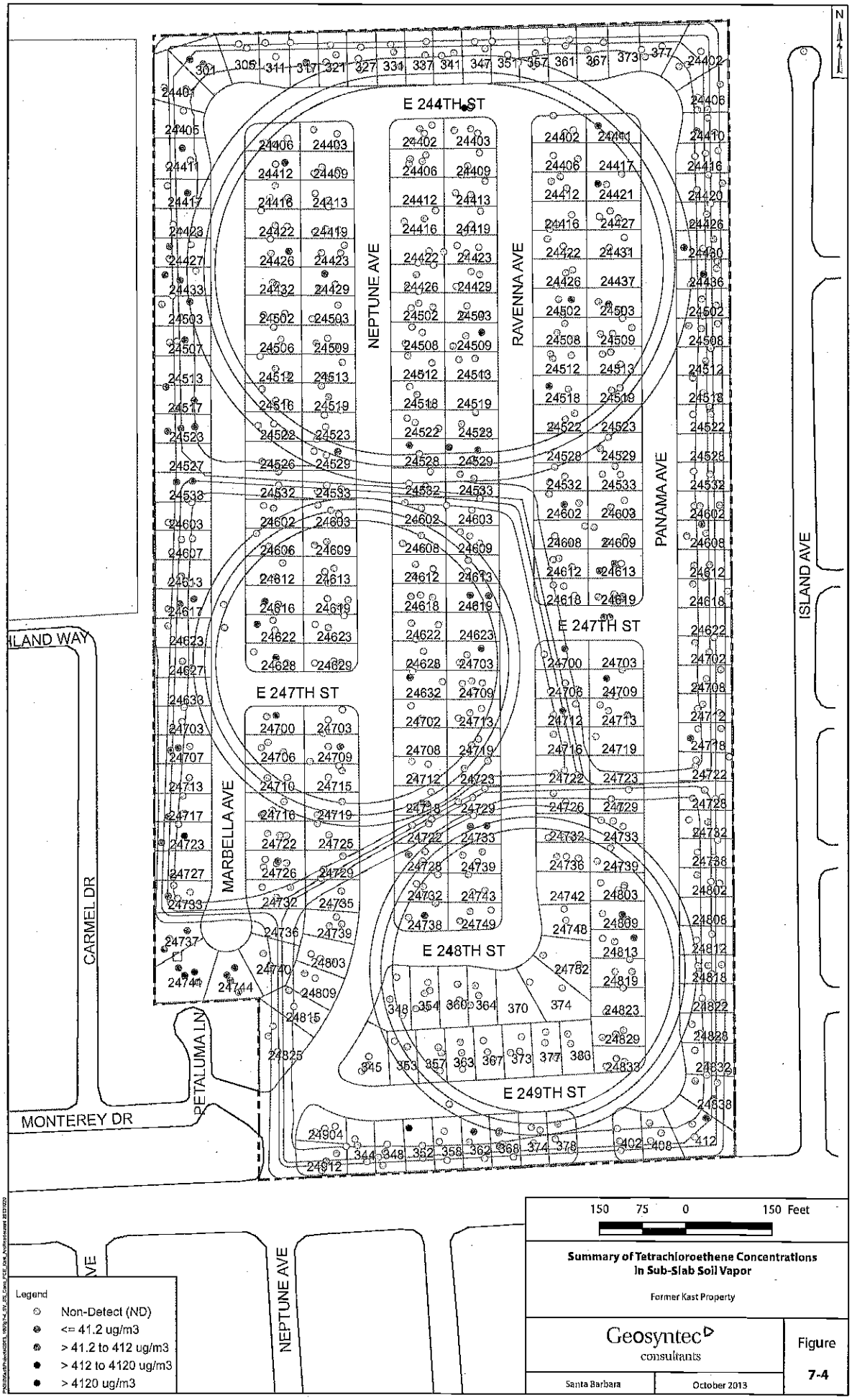

≤ 2 FT. BGS
> 2 - ≤ 5 FT. BGS
> 5 - ≤ 10 FT. BGS
N
E 244TH ST
E 247TH ST
E 248TH ST
NEPTUNE AVE
RAVENNA AVE
PANAMA AVE
ISLAND AVE
MARBELLA AVE
CARMEL DR
TEREY DR
Legend
Non-Detect (ND)
<= 1000 mg/kg
> 1000 to 10000 mg/kg
> 10000 mg/kg
250 125 0 250 Feet
Geosyntec consultants
Santa Barbara, CA
October 2013
Summary of TPH-Diesel Concentrations in Soil
Former Kast Property
Figure
6-2

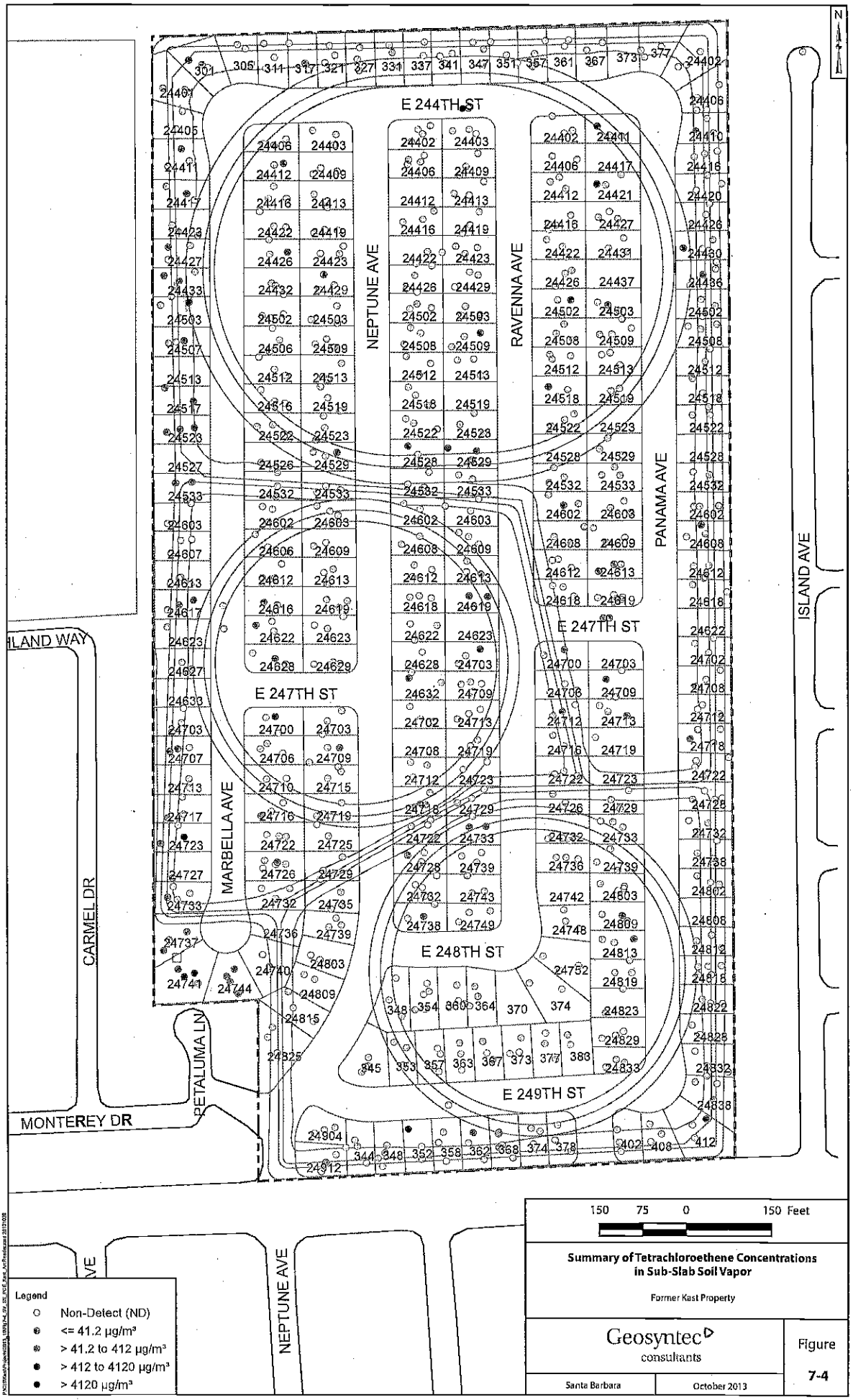

≤ 2 FT. BGS
> 2 - ≤ 5 FT. BGS
> 5 - ≤ 10 FT. BGS
N
E 244TH ST
E 247TH ST
E 248TH ST
E 249TH ST
NEPTUNE AVE
RAVENNA AVE
PANAMA AVE
ISLAND AVE
CARMEL DR
MARBELLA AVE
TEREY DR
Legend
Non-Detect (ND)
<= 10000 mg/kg
> 10000 to 100000 mg/kg
> 100000 mg/kg
250 125 0 250 Feet
Geosyntec consultants
Santa Barbara, CA
October 2013
Summary of TPH-Motor Oil Concentrations in Soil
Former Kast Property
Figure
6-3

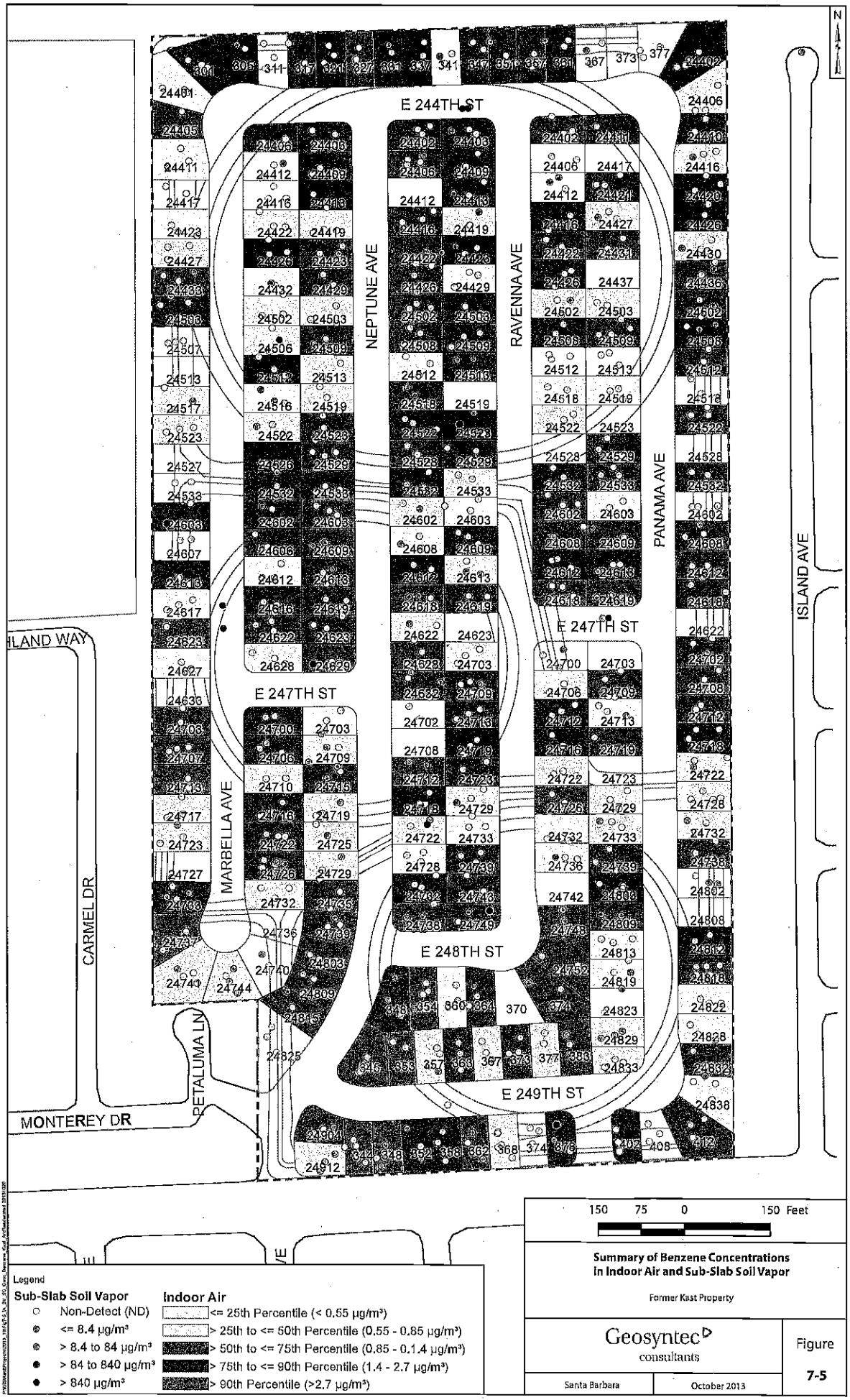

N
E 244TH ST
NEPTUNE AVE
RAVENNA AVE
PANAMA AVE
ISLAND AVE
E 247TH ST
E 247TH ST
E 248TH ST
E 249TH ST
MARBELLA AVE
CARMEL DR
PETALUMA LN
MONTEREY DR
ISLAND WAY
NEPTUNE AVE
Legend
Non-Detect (ND)
<= 8.4 µg/m³
> 8.4 to 84 µg/m³
> 84 to 840 µg/m³
> 840 µg/m³
150 75 0 150 Feet
Summary of Benzene Concentrations in Sub-Slab Soil Vapor
Former Kast Property
Geosyntec consultants
Santa Barbara
October 2013
Figure 7-1

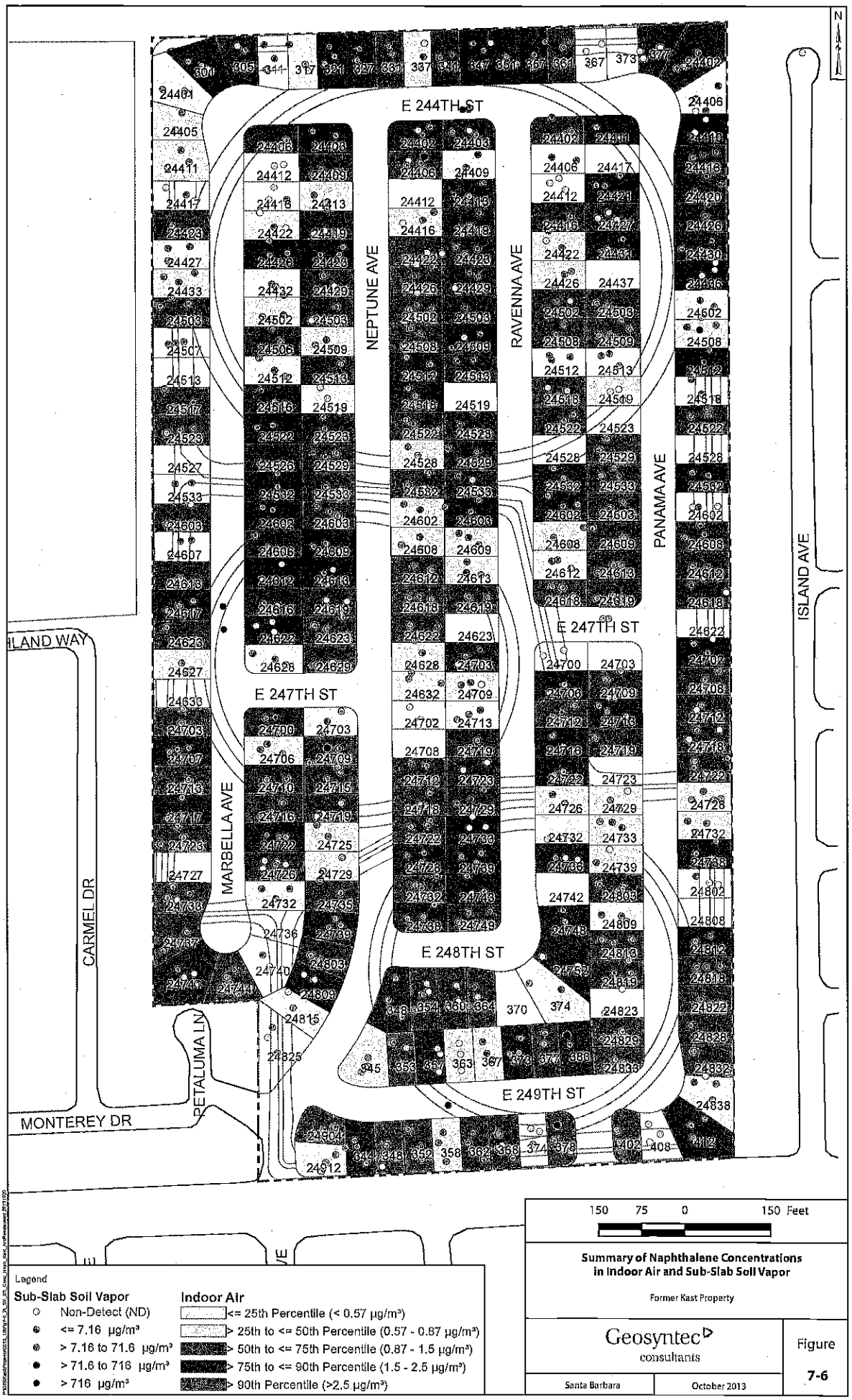

E 244TH ST
E 247TH ST
E 248TH ST
E 249TH ST
NEPTUNE AVE
RAVENNA AVE
PANAMA AVE
ISLAND AVE
MARBELLA AVE
CARMEL DR
MONTEREY DR
RETALUMA LN
HLAND WAY
N
Legend
Non-Detect (ND)
<= 7.16 µg/m³
> 7.16 to 71.6 µg/m³
> 71.6 to 716 µg/m³
> 716 µg/m³
150 75 0 150 Feet
Summary of Naphthalene Concentrations in Sub-Slab Soil Vapor
Former Kast Property
Geosyntec consultants
Santa Barbara
October 2013
Figure 7-2


N
E 244TH ST
NEPTUNE AVE
RAVENNA AVE
PANAMA AVE
ISLAND AVE
E 247TH ST
E 247TH ST
E 248TH ST
E 249TH ST
MARBELLA AVE
CARMEL DR
MONTEREY DR
RETALUMA LN
NEPTUNE AVE
150 75 0 150 Feet
Legend
Non-Detect (ND)
<= 122 µg/m³
> 122 to 1220 µg/m³
> 1220 to 12200 µg/m³
> 12200 µg/m³
Summary of Trichloroethene Concentrations In Sub-Slab Soil Vapor
Former Kast Property
Geosyntec consultants
Santa Barbara
October 2013
Figure 7-3


N
E 244TH ST
E 247TH ST
E 247TH ST
E 248TH ST
E 249TH ST
NEPTUNE AVE
RAVENNA AVE
PANAMA AVE
ISLAND AVE
MARBELLA AVE
CARMEL DR
PETALUMA LN
MONTEREY DR
HLAND WAY
NEPTUNE AVE
Legend
Non-Detect (ND)
<= 41.2 ug/m3
> 41.2 to 412 ug/m3
> 412 to 4120 ug/m3
> 4120 ug/m3
150 75 0 150 Feet
Summary of Tetrachloroethene Concentrations
In Sub-Slab Soil Vapor
Former Kast Property
Geosyntec consultants
Santa Barbara
October 2013
Figure
7-4


N
E 244TH ST
NEPTUNE AVE
RAVENNA AVE
PANAMA AVE
ISLAND AVE
E 247TH ST
E 247TH ST
E 248TH ST
E 249TH ST
MARBELLA AVE
CARMEL DR
MONTEREY DR
RETALUMA LN
NEPTUNE AVE
Legend
Non-Detect (ND)
<= 41.2 µg/m³
> 41.2 to 412 µg/m³
> 412 to 4120 µg/m³
> 4120 µg/m³
150 75 0 150 Feet
Summary of Tetrachloroethene Concentrations in Sub-Slab Soil Vapor
Former Kast Property
Geosyntec consultants
Santa Barbara
October 2013
Figure 7-4


N
E 244TH ST
NEPTUNE AVE
RAVENNA AVE
PANAMA AVE
ISLAND AVE
E 247TH ST
E 247TH ST
E 248TH ST
E 249TH ST
MARBELLA AVE
CARMEL DR
PETALUMA LN
MONTEREY DR
HLAND WAY
Legend
Sub-Slab Soil Vapor
Non-Detect (ND)
<= 8.4 µg/m³
> 8.4 to 84 µg/m³
> 84 to 840 µg/m³
> 840 µg/m³
Indoor Air
<= 25th Percentile (< 0.55 µg/m³)
> 25th to <= 50th Percentile (0.55 - 0.85 µg/m³)
> 50th to <= 75th Percentile (0.85 - 1.4 µg/m³)
> 75th to <= 90th Percentile (1.4 - 2.7 µg/m³)
> 90th Percentile (>2.7 µg/m³)
150 75 0 150 Feet
Summary of Benzene Concentrations
in Indoor Air and Sub-Slab Soil Vapor
Former Kast Property
Geosyntec consultants
Santa Barbara
October 2013
Figure
7-5



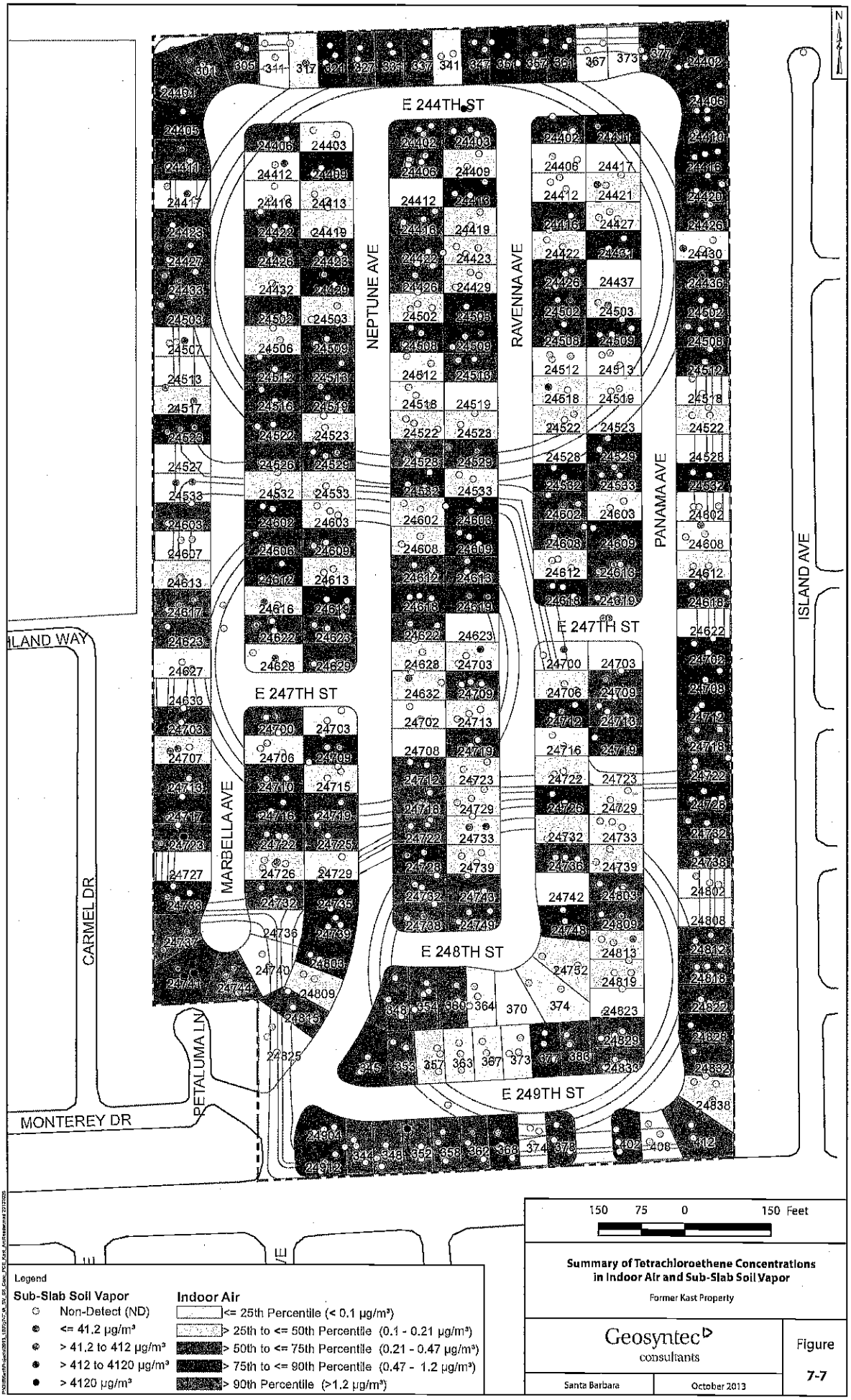
Summary of Naphthalene Concentrations in Indoor Air and Sub-Slab Soil Vapor

Former Kast Property

Geosyntec consultants

Santa Barbara | October 2013

Figure 7-6



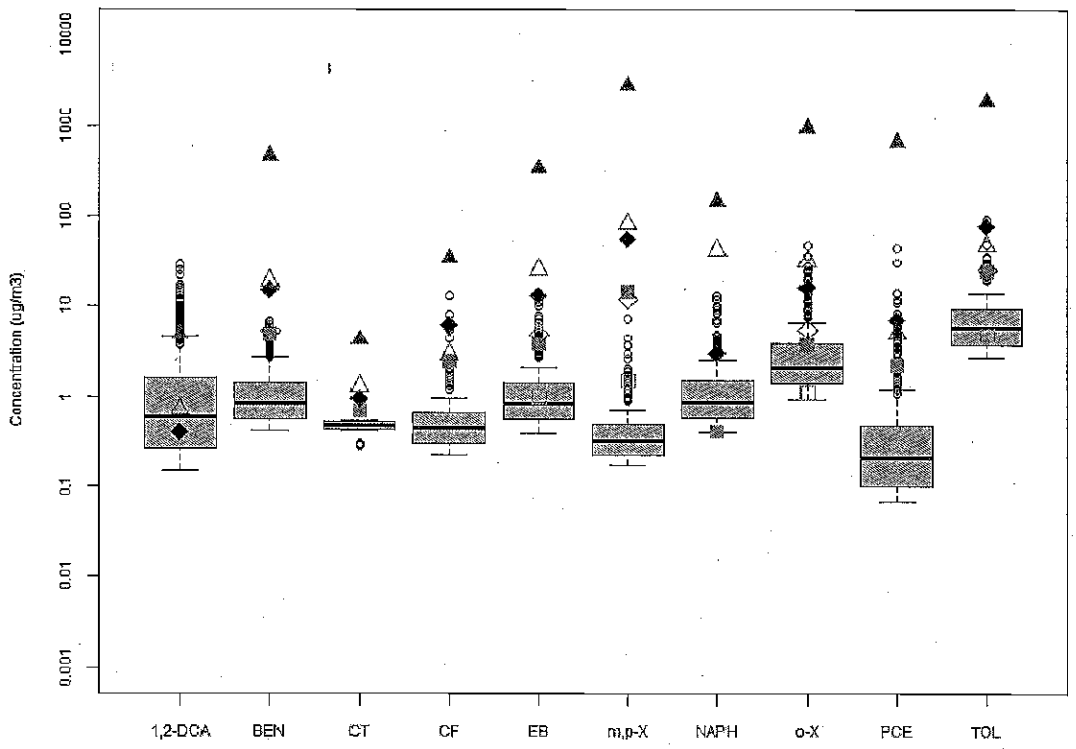
Summary of Tetrachloroethene Concentrations in Indoor Air and Sub-Slab Soil Vapor

Former Kast Property

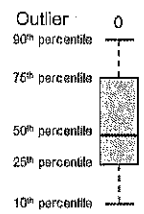
Geosyntec consultants

Santa Barbara | October 2013

Figure 7-7



Site Data



Literature Values

△ ▲ Maximum (lower / upper)

◇ ◆ 90th Percentile (lower / upper)

□ ▣ 50th Percentile (lower / upper)

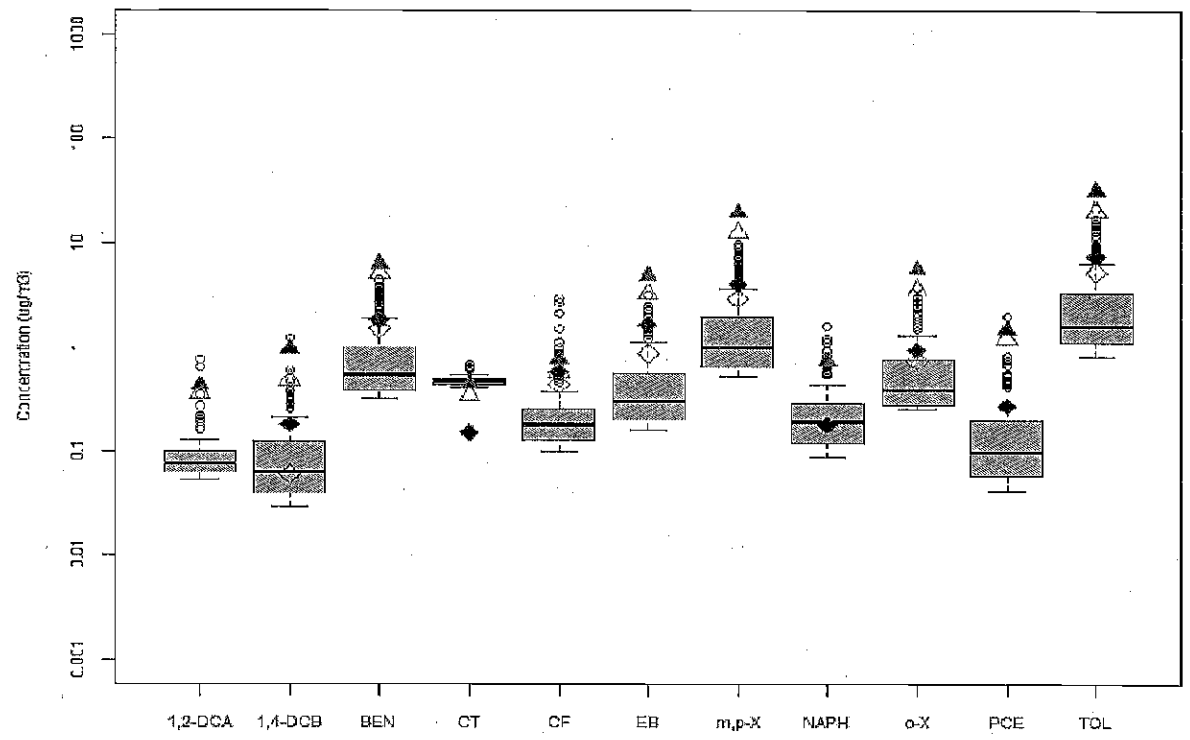
Comparison of Indoor Air Results to Literature Background Concentrations

Former Kast Property
Carson, California

Geosyntec consultants

Santa Barbara | October 2013

Figure 7-8



Site Data

Outlier

90th percentile

75th percentile

50th percentile

25th percentile

10th percentile

Literature Values

△ ▲ Maximum (lower / upper)

◇ ◆ Mean (lower / upper)

Comparison of Outdoor Air Results to Literature Background Concentrations

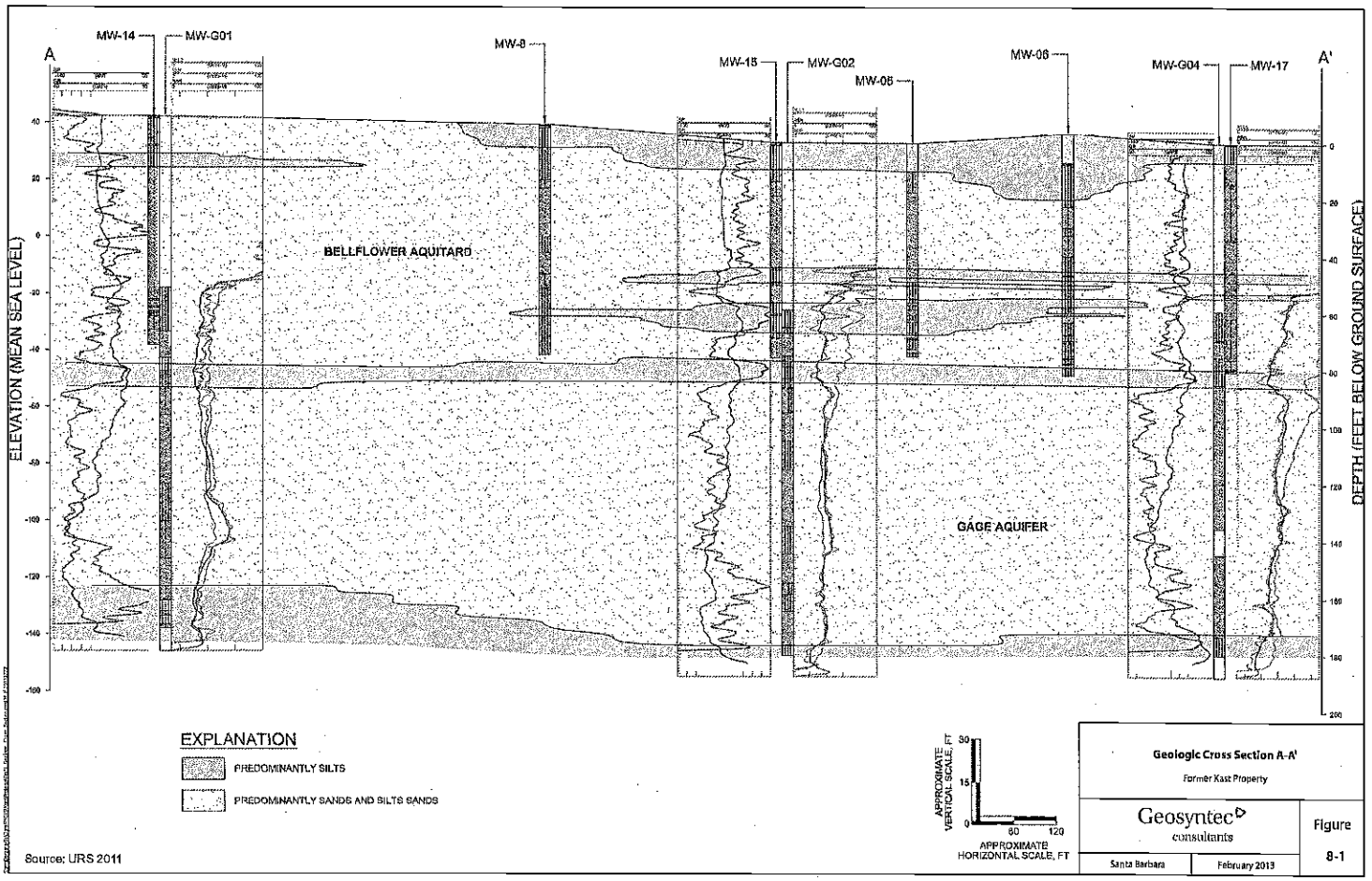
Former Kast Property
Carson, California

Geosyntec consultants

Santa Barbara | October 2013

Figure 7-9

Path: P:\GIS\Kast\Projects\2013_09\Fig7-9_Comparison_OA_Results_to_Background_Concs.ppt 10/4/2013 9:10



Source: URS 2011

Geologic Cross Section A-A'

Former Kast Property

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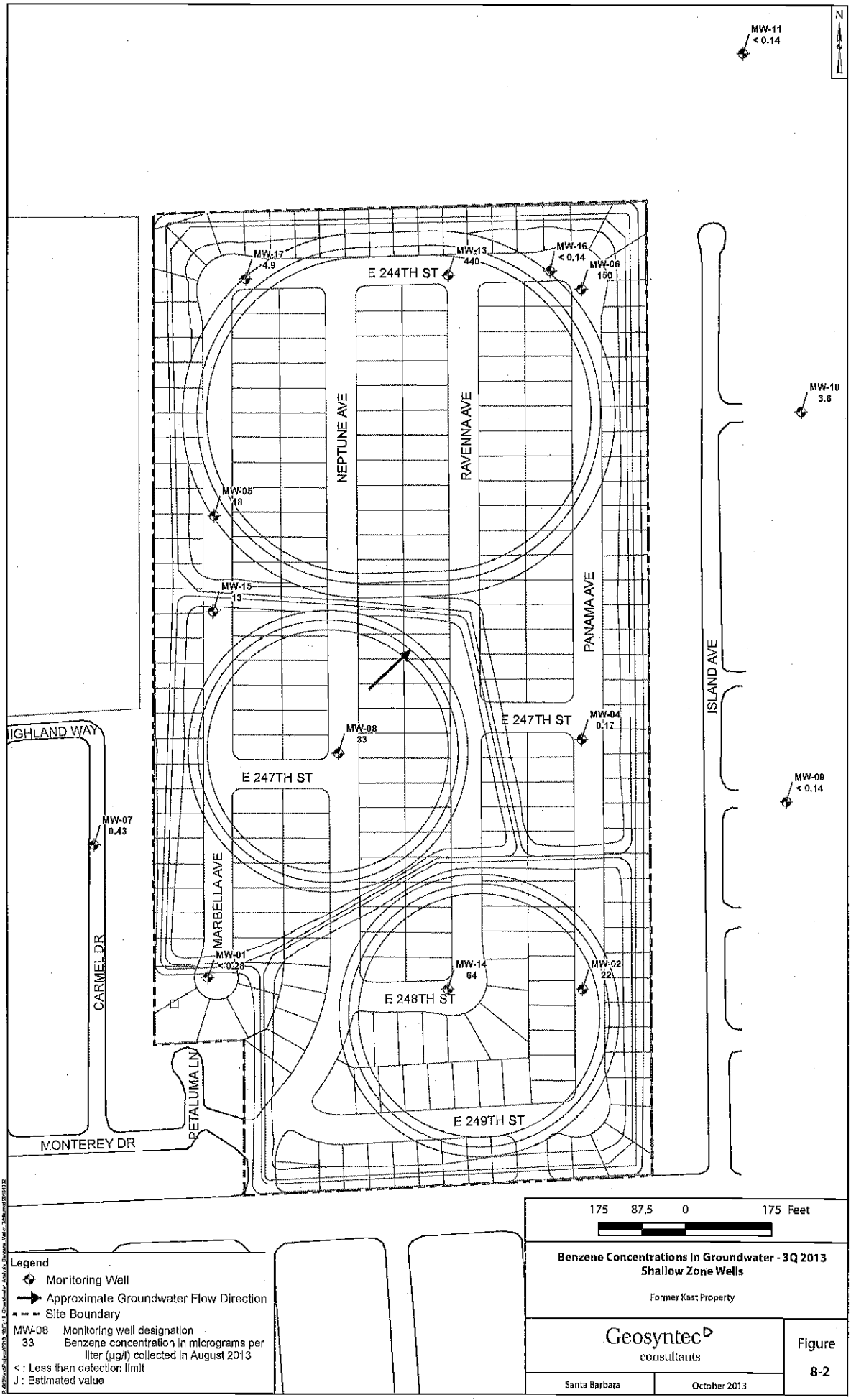
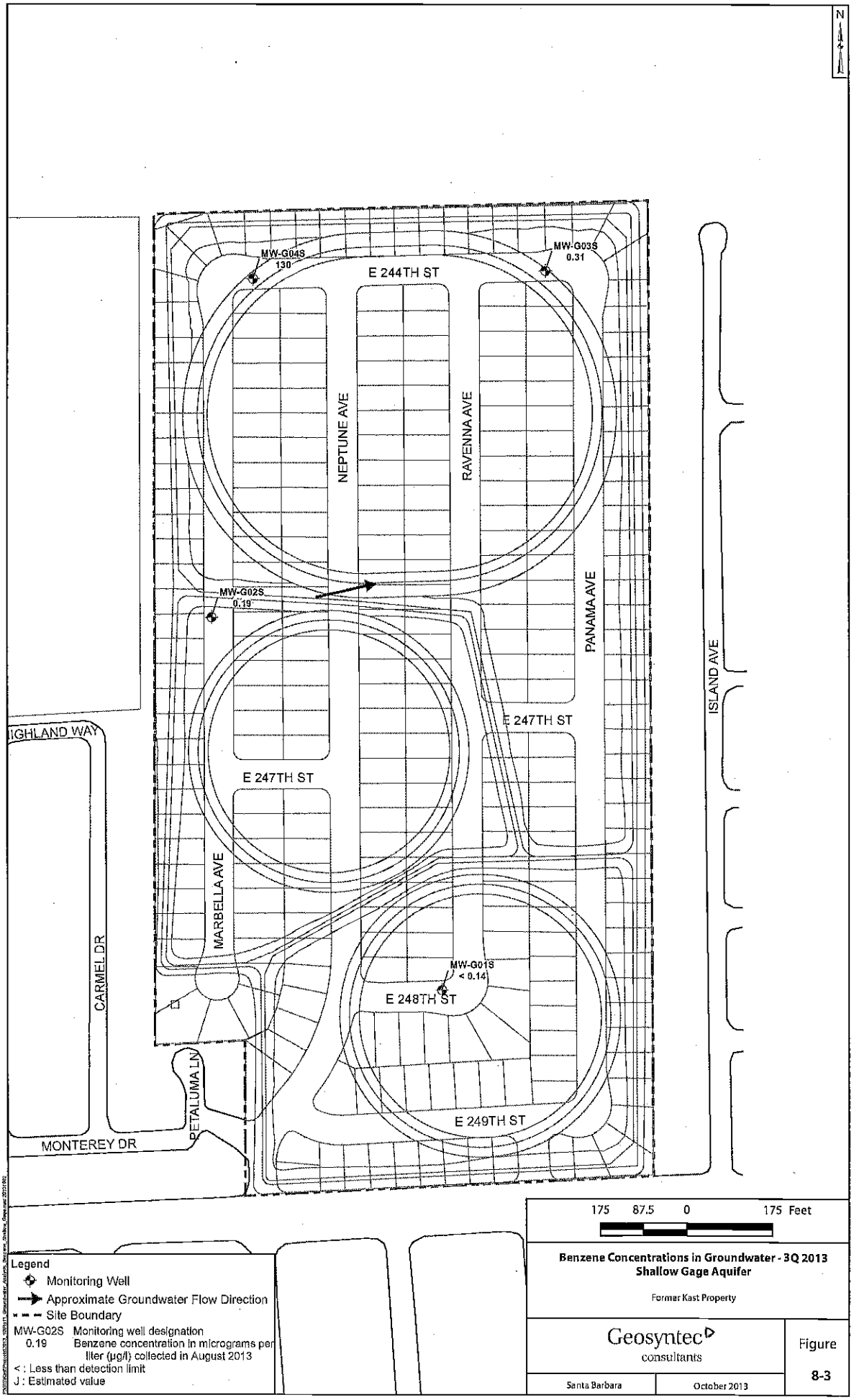
Santa Barbara | February 2013

Figure 8-1


N
MW-11
< 0.14
MW-17
4.9
MW-13
440
MW-16
< 0.14
MW-06
150
E 244TH ST
MW-10
3.6
NEPTUNE AVE
RAVENNA AVE
MW-05
18
MW-15
13
PANAMA AVE
ISLAND AVE
E 247TH ST
MW-04
0.17
MW-08
33
MW-09
< 0.14
E 247TH ST
MW-07
0.43
MARBELLA AVE
CARMEL DR
MW-01
< 0.28
MW-14
64
MW-02
22
E 248TH ST
PETALUMA LN
E 249TH ST
MONTEREY DR
175 87.5 0 175 Feet
Legend
Monitoring Well
Approximate Groundwater Flow Direction
Site Boundary
MW-08 Monitoring well designation
33 Benzene concentration in micrograms per liter (µg/l) collected in August 2013
< : Less than detection limit
J : Estimated value
Benzene Concentrations in Groundwater - 3Q 2013
Shallow Zone Wells
Former Kast Property
Geosyntec consultants
Santa Barbara
October 2013
Figure
8-2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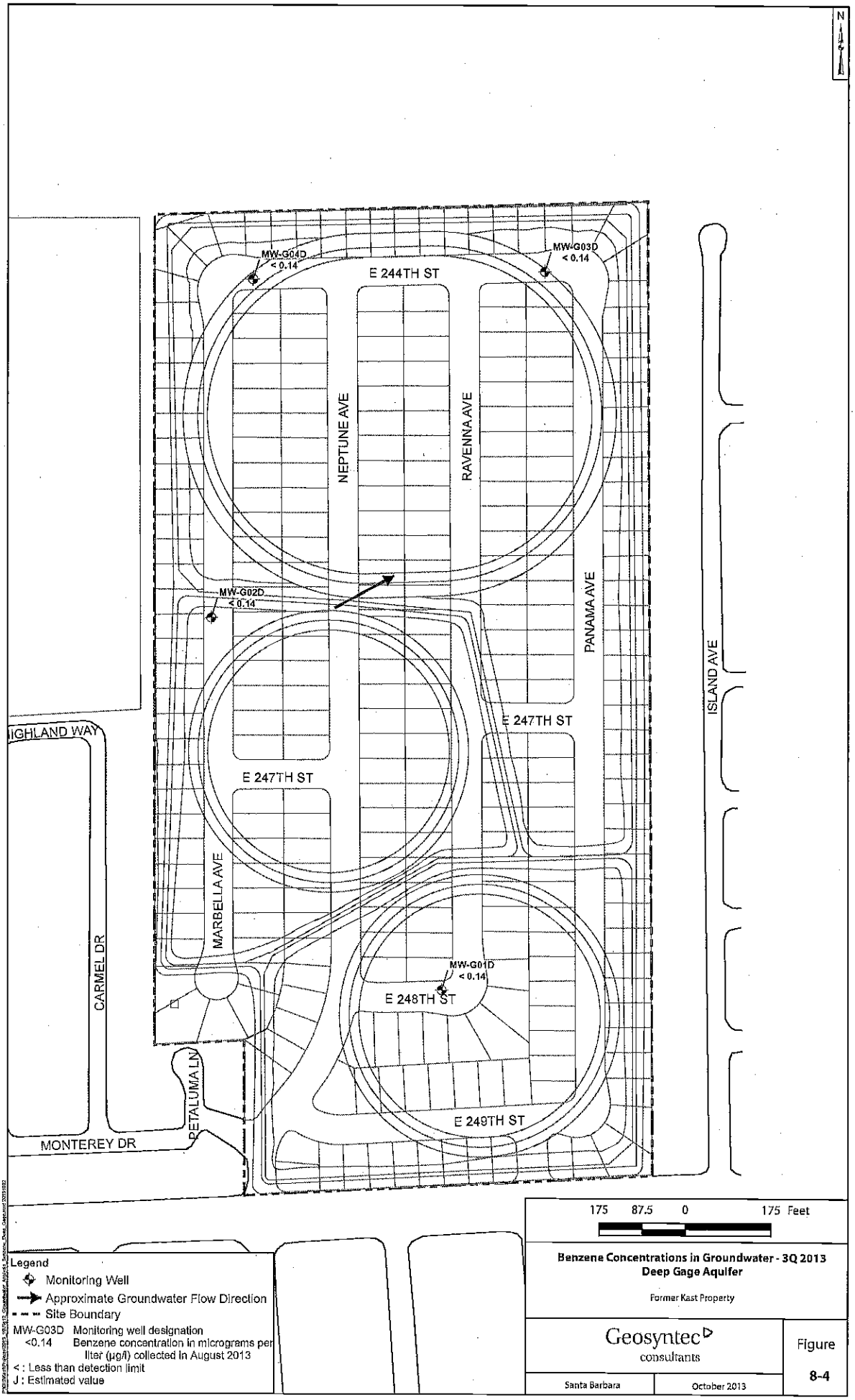
MW-G04S
130
MW-G03S
0.31
E 244TH ST
NEPTUNE AVE
RAVENNA AVE
PANAMA AVE
ISLAND AVE
MW-G02S
0.19
E 247TH ST
E 247TH ST
IGHLAND WAY
MARBELLA AVE
CARMEL DR
MW-G01S
< 0.14
E 248TH ST
PETALUMA LN
E 249TH ST
MONTEREY DR
175 87.5 0 175 Feet
Legend
Monitoring Well
Approximate Groundwater Flow Direction
Site Boundary
MW-G02S Monitoring well designation
0.19 Benzene concentration in micrograms per liter (µg/l) collected in August 2013
< : Less than detection limit
J : Estimated value
Benzene Concentrations in Groundwater - 3Q 2013
Shallow Gage Aquifer
Former Kast Property
Geosyntec consultants
Santa Barbara
October 2013
Figure
8-3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MW-G04D
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MW-G03D
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ISLAND AVE
MW-G02D
< 0.14
E 247TH ST
E 247TH ST
IGHLAND WAY
MARBELLA AVE
CARMEL DR
MW-G01D
< 0.14
E 248TH ST
E 249TH ST
PETALUMA LN
MONTEREY DR
Legend
Monitoring Well
Approximate Groundwater Flow Direction
Site Boundary
MW-G03D Monitoring well designation
<0.14 Benzene concentration in micrograms per liter (µg/l) collected in August 2013
< : Less than detection limit
J : Estimated value
175 87.5 0 175 Feet
Benzene Concentrations in Groundwater - 3Q 2013
Deep Gage Aquifer
Former Kast Property
Geosyntec consultants
Santa Barbara
October 2013
Figure
8-4

Prepared for:

Shell Oil Products US
20945 S. Wilmington Avenues
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Revised Site-Specific Cleanup Goal Report

Former Kast Property
Carson, California

Prepared by:

Geosyntec consultants

engineers | scientists | innovators

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Project Number: SB0484-04-2

October 21, 2013

Geosyntec
consultants

REVISED SITE-SPECIFIC CLEANUP GOAL REPORT

Former Kast Property
Carson, California

Prepared for:

Shell Oil Products US

Prepared by:

Geosyntec Consultants, Inc.

Mark Grivetti, P.G., CHG
Principal Hydrogeologist

Ruth Custance
Principal

Robert Ettinger
Principal

Geosyntec
consultants

CERTIFICATION

REVISED SITE-SPECIFIC CLEANUP GOAL REPORT

FORMER KAST PROPERTY

CARSON, CALIFORNIA

I am the Project Manager for Equilon Enterprises LLC doing business as Shell Oil Products US for this project. I am informed and believe that the matters stated in the Revised Site-Specific Cleanup Goal Report dated October 21, 2013 are true, and on that ground I declare, under penalty of perjury in accordance with Water Code section 13267, that the statements contained therein are true and correct.

_____

Doug Weimer
Project Manager
Shell Oil Products US
October 21, 2013

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1.0 INTRODUCTION

This appendix presents the approach and methodologies that were used to derive Site-specific cleanup goals (SSCGs) for constituents of concern (COCs) detected in soil, sub-slab soil vapor, and soil vapor at the former Kast Property (Site) located in Carson, California. The Site is a former oil storage facility that was sold by Shell Oil Company in the late 1960s and later redeveloped into the Carousel subdivision containing 285 single family houses. Based on historical operations, the primary Site COCs are related to crude oil and bunker oil.

Site-specific cleanup goals were derived to provide target cleanup goals for the development of a Site remediation strategy. The SSCG calculation approach is consistent with current United States Environmental Protection Agency (USEPA) and California Environmental Protection Agency (Cal-EPA) Department of Toxic Substances Control (DTSC) guidance documents (USEPA, 1989; 1991a; 2002; 2009; 2013a,b; Cal-EPA 1999; 2011a) including the withdrawn *Interim Guidance on Evaluating Human Health Risks from Total Petroleum Hydrocarbons (TPH)* (Cal-EPA, 2009a)[1]. Risk-based SSCGs for human health, SSCGs for potential migration to groundwater through leaching, and SSCGs based on local and regional background have been developed for the Site. A discussion of the input parameters, the algorithms, and SSCGs are included in this appendix.

2.0 DATA EVALUATION AND COC SELECTION

An initial step in the risk assessment process is an evaluation of available data to identify media-specific COCs. A variety of samples have been collected as a part of the Site investigation process. Detected compounds include inorganics, polycyclic aromatic hydrocarbons (PAHs), total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals. These compounds, if they were detected in at least one sample in a given media (soil or soil vapor), were included in the COC selection process. A toxicity-concentration screen was then used to focus the list of COCs to those chemicals that have the potential to contribute significantly to potential risk at the Site, as discussed below.

COC screening was conducted using risk-based screening levels (RBSLs) that were calculated assuming potential residential exposures to COCs in soil and soil vapor as part of the human health screening risk evaluation (HHSRE) process (Geosyntec, 2009, 2010, 2011). The RBSLs represent chemical-specific concentrations in the relevant environmental media that would be consistent with a target risk level for the current land use under

[1] Note that the Cal-EPA *Interim Guidance on Evaluating Human Health Risks from Total Petroleum Hydrocarbons (TPH)* is no longer active; however, information provided in this document is considered in this evaluation.

conservative (i.e., protective) exposure conditions. For soil vapor, the screening levels were developed to address potential sub-slab soil vapor migration to indoor air. This is the most sensitive land-use and conservative for construction and maintenance worker exposures. For carcinogenic PAHs and metals, a background comparison value was used along with the calculated RBSLs for COC selection.

An additional screening criterion for soil was if the chemical was detected in five or less samples it was excluded from the SSCG derivation. Due to the large number of soil samples collected (over 10,000) this equates to less than or equal to 0.05 percent of soil samples.

In the first step of COC selection, a list of detected chemicals in each media was identified. Tables 4.1 through 4.4 of the main report present the prevalence and range of concentrations of all chemicals that were detected at least once in soil, soil vapor, indoor air, and groundwater, respectively across the Site. As discussed in the main report, quantitative SSCGs are being developed for soil and sub-slab soil vapor for onsite residents, soil and soil vapor for construction and utility maintenance workers and migration from soil to groundwater through leaching. Therefore, chemicals detected in these media were carried forward into the COC selection.

To identify COCs for each media, the maximum concentration for that media was compared to one-tenth of its respective RBSL. One-tenth of the RBSL was used as a conservative approach to screen chemicals for further analysis and to address potential cumulative effects. If the maximum concentration was greater than one-tenth of the RBSL it was selected as a COC for the Site. In addition to the RBSL screen, background concentrations for metals and carcinogenic PAHs (cPAHs as benzo(a)pyrene equivalents) were considered.

For the selection of soil COCs to address the leaching to groundwater pathway, chemicals that were detected in groundwater above their respective maximum contaminant level (MCL) or notification level (NL) were carried forward into the SSCG derivation process. Based on the site conceptual model (SCM) presented in Section 2 of the main report and the age of potential petroleum releases at the Site, groundwater impacts from leaching from Site soils are not expected to change appreciably. This is discussed further in Section 8 of the main report and supported by the plume stability analysis. As a result, the inclusion of chemicals that have been detected above MCLs and NLs is considered appropriate for COC selection.

Tables 4.5 and 4.6 of the main report present the COCs that have been identified for each media to be carried forward into the RAP.

3.0 EXPOSURE ASSESSMENT

To evaluate whether the levels of COCs present in soil and soil vapor would pose a risk to human populations, it is necessary to (i) identify the populations that may potentially be exposed to these COCs, and (ii) define the pathways by which the exposures may occur. The following table summarizes the receptor, exposure media, and potential exposure pathways that were considered in deriving the SSCGs. The following table summarizes the exposure scenarios that were evaluated.

Receptor	Exposure Medium	Potentially Complete Exposure Pathway
Onsite Resident	Shallow Surface Soil (0-2 ft bgs)	• Incidental Ingestion • Dermal Contact • Outdoor Air Inhalation
	Shallow Subsurface Soil (>2-10 ft bgs)	• Infrequent Incidental Ingestion • Infrequent Dermal Contact • Infrequent Outdoor Air Inhalation
	Sub-Slab Soil Vapor	• Vapor Inhalation in Indoor Air via Vapor Intrusion
Construction and Utility Maintenance Worker	Shallow Soil (0-10 ft bgs)	• Incidental Ingestion • Dermal Contact • Outdoor Air Inhalation
	Soil Vapor	• Vapor Inhalation in Outdoor Air
Groundwater	Shallow Soil (0-10 ft bgs)	• Leaching to Groundwater

The soil SSCGs for the residential scenario are based on surface soil (0-2 feet below ground surface [ft bgs]) and subsurface soil (>2-10 ft bgs) exposure assumptions. SSCGs were derived for onsite residents who may typically contact surface soils using the Cal-EPA and USEPA default exposure frequency (EF) of 350 days per year. Surface soils are considered for typical residential exposures, whereas subsurface soils are considered for infrequent contact, because the likelihood of a resident contacting soils at deeper depths is very low given the developed nature of the Site and typical residential activities where exposure to soil could occur (e.g., lawn care, recreational activities, landscaping). Typical lawn care and gardening would occur in the surface soil horizon.

The potential does exist for deeper soils to be contacted (e.g., if a sizable tree is planted), but this would not occur on a regular basis for a given property. To address the unlikely, infrequent exposure to subsurface soils (>2-10 ft bgs), SSCGs were developed for residents

assuming a lower frequency of exposure of 4 days per year. The exposure frequency of 4 days per year is based on 1/10th of the USEPA recommended event frequency of 40 events per year for an adult resident gardening outdoors on a more routine basis (USEPA, 1997). Since the value of 40 days per year is based on routine gardening, an adjustment was considered reasonable to account for infrequent contact to account for instances where a resident may contact deeper soil (e.g. planting a tree). In addition, it is unlikely that residents would contact soils unearthed from a deeper excavation (such as during a major renovation or utility repair work) as these soils could not be placed onsite due to the developed nature of the neighborhood and lack of open area to place the excavated soils. The conceptual model for this assumption includes institutional controls (e.g., a notification requirement triggered when an excavation permit is applied for) to prevent redistribution of deep soils at the surface. A Soil Management Plan will be prepared either as a part of, or subsequent to, the RAP that will provide the detailed approach to preventing residential exposure to subsurface soils impacted by Site COCs.

A summary of the exposure parameters used to derive the SSCGs for the receptors identified above is presented in **Table A-1.** These parameters are consistent with those recommended by Cal-EPA and USEPA and include separate child and adult exposure parameters that are used in an integrated child/adult exposure scenario consistent with guidance.

3.1 Fate and Transport Modeling

Fate and transport modeling was employed to predict the movement of COCs from impacted soil and soil vapor to points of exposure for human populations. Fate and transport modeling was employed to develop transfer factors for the following transport mechanisms:

- Transport of particulate-phase chemicals from soil matrix to outdoor air;
- Transport of vapor-phase chemicals from soil matrix to outdoor air;
- Transport of vapor-phase chemicals from soil vapor to outdoor air; and
- Transport of vapor-phase chemicals from sub-slab soil vapor to indoor air.

Fate and transport modeling for migration from soil to outdoor air was conducted using the models presented in the *Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites* (Soil Screening Guidance) (USEPA, 2002). Standard equations presented in the Soil Screening Guidance were used, incorporating local meteorological conditions for the Los Angeles area, for derivation of COC-specific volatilization factors (VFs) and the particulate emission factor (PEF). The definitions for each of the transfer factors listed above are presented in **Table A-2**. Calculations for the VF and PEF are summarized in **Table A-3a** for a resident and in **Table A-3b** for a construction and utility maintenance worker, and are discussed below. Additional details regarding these transfer factors were

discussed in the HHSE Work Plan (Geosyntec, 2009; 2010). Fate and transport modeling for leaching to groundwater is discussed in Section 5.3 of this Appendix.

3.1.1 Fugitive Dust Emissions into Outdoor Air

COCs at the Site may become airborne due to fugitive dust emissions. Compounds (e.g., SVOCs) can adhere to soil particles then become airborne due to wind erosion, which could generate dust containing COCs. Exposure to these chemicals may then occur via inhalation of airborne fugitive dust. Inhalation exposure to non-volatile compounds is typically minor in fugitive dust when compared to direct ingestion exposure (USEPA, 2002). Nevertheless, a relationship can be estimated between the COC concentration in soil and the corresponding concentration in air (secondary media) attributable to fugitive dust emissions from soil.

Potential exposure to airborne dust is estimated using a particulate emission factor (PEF) that relates the concentration of soil constituents to the concentration of dust particles in air. The PEF represents an annual average emission rate based on wind erosion. The PEF equation described in the Soil Screening Guidance (USEPA, 2002) was used in this evaluation. The emissions part of the PEF equation is based on the "unlimited reservoir" model developed to estimate PM_{10} emissions (particulate matter less than 10 micrometers in diameter [PM_{10}]) due to wind erosion (Cowherd et al., 1985).

3.1.1.1 Onsite Residential Scenario

For onsite residents, the following equation was used to estimate their PEF:

$$PEF = \frac{(Q/C \times CF)}{[0.036 \times (1 - G) \times \left(\frac{U_M}{U_T}\right)^3 \times F_x]}$$

Where:

PEF	=	particulate emission factor as cubic meters per kilogram (m^3/kg)
Q/C	=	inverse of mean concentration at center of source (g/m^2-s per kg/m^3)
CF	=	units conversion factor (3600 s/hr)
0.036	=	respirable fraction (g/m^2-hr)
G	=	fraction of vegetative or other cover (0.5 unitless; USEPA, 2002)
U_M	=	mean annual wind speed (3.31 m/s, average for Los Angeles; NCDC, 2011)
U_T	=	equivalent threshold value of wind speed at 7 meters above ground surface (11.32 m/s; USEPA, 2002)

F_x = function dependent on U_M/U_T (0.00474 unitless; USEPA, 1996)

The dispersion part of the PEF equation includes a dispersion coefficient (Q/C) in units of grams per square meter-second per kilogram per cubic meter (g/m^2-s per kg/m^3). The Q/C term was generated using the Industrial Source Complex model and varies depending on the source area, city, and climatic zone. This term accounts for the dispersion of particulate matter, once emitted and was estimated using the following equation (USEPA, 2002):

$$(Q/C) = A \times \exp\left[\frac{(\ln A_{SITE} - B)^2}{C}\right]$$

Where:

A_{SITE} = areal extent of soil impact (0.5 acres)
A = constant = 11.911, based on air dispersion modeling (USEPA, 2002)
B = constant = 18.4385 (USEPA, 2002)
C = constant = 209.7845 (USEPA, 2002)

The coefficients A, B, and C for the Los Angeles area are published in the Soil Screening Guidance (USEPA, 2002). A Q/C value of 68.18 g/m^2-s per kg/m^3 was estimated as the inverse of the mean concentration at the center of a 0.5-acre source. The resulting PEF for onsite residents was estimated at $1.2\times10^{+11}$ m^3/kg (see **Table A-3a**).

3.1.1.2 Construction and Utility Maintenance Worker Scenario

Existing utilities that supply the residential properties with water, communications, and natural gas, and sewer lines are present at the Site. Therefore, a construction and utility maintenance worker may contact soils during repair or maintenance of these utilities both on residential properties as well as in the streets. It is assumed that construction and utility workers may be exposed to COCs in the upper 10 feet of soil. Fugitive dust can also be generated during the use of heavy equipment such as backhoes during utility work in trenches. As a conservative exposure assumption, a dust concentration equal to 1 mg/m^3 or 1×10^{-6} kg/m^3 (Cal-EPA, 2011a)[2] was assumed for the construction and utility maintenance worker. The PEF is related to the concentration of particulate matter (dust) in air:

[2] The respirable dust concentration of 1 mg/m^3 is based on a maximum concentration of dust in air of 10 mg/m^3 recommended by the American Conference of Governmental Industrial Hygienists (ACGIH 2004, Threshold Limit Values and Biological Exposure Indices), and the assumption that 10 percent of the mass of particles are in the respirable PM_{10} range.

$$PEF = 1 / CD$$

Where:

CD = concentration of dust in air, 1×10^{-6} (kg/m^3) (Cal-EPA, 2011a)

The resulting PEF for the construction and utility maintenance worker is $1\times10^{+6}$ m^3/kg (see **Table A-3b**).

3.1.2 Vapor Emissions into Outdoor Air

Because VOCs were detected in soil and soil vapor at the Site, individuals could potentially be exposed to vapors migrating through the soil to the surface. Outdoor vapor concentrations are typically negligible considering the significant quantity of ambient air diluting the vapor emissions. Although this pathway is considered potentially insignificant, outdoor air exposures were evaluated for VOCs detected in soil matrix and soil vapor as discussed below.

3.1.2.1 Onsite Residential Scenario

Soil to Outdoor Air

For onsite residents, potential migration of vapors from shallow soil to outdoor air was estimated using the following VF equation, as presented in Section 4.2.3 of the Soil Screening Guidance (USEPA, 2002; Equation 4-8: *Derivation of the VF*):

$$VF_{soil} = Q/C \times \left(10^{-4}\ \frac{m^2}{cm^2}\right) \times \frac{\left(3.14 \times D_A \times T_{resident}\right)^{1/2}}{2 \times P_b \times D_A}$$

The equation for the COC-specific apparent diffusivity, D_A, is as follows:

$$D_A = \frac{\left(\theta_a^{3.33} \times D_{air} \times H' + \theta_w^{3.33} \times D_{water}\right) / \theta_T^{2}}{P_b \times K_d + \theta_w + \theta_a \times H'}$$

Where:

D_{air} = COC-specific diffusivity in air (cm^2/s);
D_{water} = COC-specific diffusivity in water (cm^2/s);
θ_a = air-filled porosity (0.28 cm^3-air/cm^3-soil);
θ_w = water-filled porosity (0.15 cm^3-water/cm^3-soil);
θ_T = total soil porosity (0.43 cm^3-air/cm^3-soil);
H' = COC-specific Henry's law coefficient (unitless);

P_b = soil bulk density (1.5 g/cm^3);
K_{oc} = COC-specific soil organic carbon partition coefficient (cm^3/g); and
f_{oc} = fraction organic carbon in soil (0.006 g/g).

To be consistent with the other SSCG calculations presented in this report, the equations presented below were used. The equation for the COC-specific effective diffusion coefficients for vadose-zone soils, D_{eff} (ASTM, 2004) is as follows:

$$D_{eff} = \frac{\left[\theta_a^{3.33} \times D_{air} \times H' + \theta_w^{3.33} \times D_{water}\right]}{\theta_T^{2}}$$

Where:

D_{air} = COC-specific diffusivity in air (cm^2/s);
D_{water} = COC-specific diffusivity in water (cm^2/s);
θ_a = air-filled porosity (0.28 cm^3-air/cm^3-soil);
θ_w = water-filled porosity (0.15 cm^3-water/cm^3-soil);
θ_T = total soil porosity (0.43 cm^3-air/cm^3-soil); and
H' = COC-specific Henry's law coefficient (unitless).

The equation for the soil to water partition coefficient, K_{sw} (ASTM, 2004) is as follows:

$$K_{sw} = \frac{\theta_a \times H' + \theta_w + Pb \times K_d}{Pb}$$

Where:

θ_a = air-filled porosity (0.28 cm^3-air/cm^3-soil);
H' = COC-specific Henry's law coefficient (unitless);
θ_w = water-filled porosity (0.15 cm^3-water/cm^3-soil);
Pb = soil bulk density (1.5 g/cm^3); and
K_d = soil-organic carbon distribution coefficient (where K_d = fraction organic carbon [f_{oc}] × organic carbon partition coefficient [K_{oc}]) (cm^3/g).

Substituting the equations for D_{eff} and K_{sw} into the apparent diffusivity D_A equation yields the following:

$$D_A = \frac{D_{eff} \times H'}{K_{sw} \times Pb}$$

Substituting this equation for D_A into the VF_{soil} equation presented above yields the following:

$$VF_{soil} = Q/C \times \left(10^{-4}\ \frac{m^2}{cm^2}\right) \times \frac{\left(3.14 \times \frac{D_{eff} \times H'}{K_{sw} \times Pb} \times T_{resident}\right)^{1/2}}{2 \times P_b \times \frac{D_{eff} \times H'}{K_{sw} \times Pb}}$$

$$VF_{soil} = Q/C \times \left(10^{-4}\ \frac{m^2}{cm^2}\right) \times \frac{1}{P_b} \left[\frac{3.14 \times \frac{D_{eff} \times H'}{K_{sw} \times Pb} \times T_{resident}}{4 \times \left(\frac{D_{eff} \times H'}{K_{sw} \times Pb}\right)^2}\right]^{1/2}$$

$$VF_{soil} = Q/C \times \left(10^{-4}\ \frac{m^2}{cm^2}\right) \times \frac{1}{P_b} \left[\frac{3.14 \times T_{resident}}{4 \times \left(\frac{D_{eff} \times H'}{K_{sw} \times Pb}\right)}\right]^{1/2}$$

$$VF_{soil} = Q/C \times \left(10^{-4}\ \frac{m^2}{cm^2}\right) \times \left(\frac{1}{P_b}\right) \left(\frac{3.14 \times T_{resident} \times K_{sw} \times P_b}{4 \times D_{eff} \times H'}\right)^{1/2}$$

This final equation was used to estimate the COC-specific VF_{soil} for onsite residential exposures, where:

Q/C	=	inverse of mean concentration at center of source (g/m^2-sec per kg/m^3);
$T_{resident}$	=	exposure interval ($9.5 \times 10^{+8}$ sec = 30 years);
K_{sw}	=	soil to water partition coefficient, defined above (cm^3-water/g-soil);
Pb	=	dry soil bulk density (1.5 g/cm^3);
D_{eff}	=	COC-specific effective diffusion coefficient for vadose-zone soils, defined above (cm^2/sec); and
H'	=	COC-specific Henry's law coefficient (unitless).

A Q/C value of 68.18 g/m^2-s per kg/m^3 was estimated using the equations presented in Section 3.1.1.2 above.

The derivation of COC-specific VF_{soil} for onsite residents is presented in **Table A-3a**.

3.1.2.2 Onsite Construction and Utility Maintenance Worker Scenarios

Soil to Outdoor Air

For the construction and utility maintenance worker scenario, VOC emissions into a utility trench and subsequent mixing in air were estimated using the volatilization factor (VF) for transport of COCs from soil to outdoor air from the ASTM *Standard Guide For Provisional Risk-Based Corrective Action* (ASTM, 2004). The soil to outdoor air volatilization factor, $VF_{soil\text{-}OA}$, is the ratio of the outdoor air exposure point concentration ($EPC_{soil\text{-}OA}$) to the soil exposure point concentration (EPC_{soil}):

$$VF_{soil\text{-}OA} = \frac{EPC_{soil}}{EPC_{soil\text{-}OA}}$$

The COC-specific $VF_{soil\text{-}OA}$ for construction and utility maintenance worker exposures was derived using the following equation (ASTM, 2004):

$$VF_{soil\text{-}OA} = \frac{DF_{amb}}{Pb} \times \left[\frac{(3.14 \times T_{CUW} \times K_{sw} \times Pb)}{(4 \times D_{eff} \times H')} \right]^{1/2} \times CF_1 \times CF_2$$

Where:

$VF_{soil\text{-}OA}$ = volatilization factor, surficial soils to outdoor (ambient) air (m^3-air/kg-soil);

DF_{amb} = dispersion factor for outdoor (ambient) air (cm/s);

Pb = dry soil bulk density (1.5 g/cm^3);

T_{CUW} = averaging time for surface emission vapor flux ($7.9\times10^{+8}$ sec);

K_{sw} = soil to water partition coefficient (cm^3-water/g-soil);

D_{eff} = COC-specific effective diffusion coefficient for vadose-zone soils (cm^2/sec);

H' = COC-specific Henry's law coefficient (unitless);

CF_1 = conversion factor ($1\times10^{+3}$ g/kg); and

CF_2 = conversion factor (1×10^{-6} m^3/cm^3).

The following equation was used to estimate the dispersion factor for outdoor air, DF_{amb}, assuming a trench is 91 centimeters (cm) wide by 457 cm long by 183 cm deep. These dimensions are an estimate of what a typical trench size could be:

$$DF_{amb} = \frac{U_{air} \times W \times H}{A}$$

Where:

U_{air} = outdoor air velocity in mixing zone (cm/s);
W = width of source-zone area (457 cm; assume length of trench = 15 ft);
H = mixing zone height (183 cm; assume depth of trench = 6 ft); and
A = source-zone area (assume 4 sidewalls and bottom area of trench = $2.4\times10^{+5}cm^2$).

The outdoor air velocity in the mixing zone, U_{air}, is estimated using the following equation:

$$U_{air} = \frac{ACH \times W_t}{3600}$$

Where:

ACH = air changes per hour (20 hr^{-1});
W_t = length of shortest side of trench (91 cm; assume width of trench = 3 ft); and
3600 = conversion (1 hour = 3600 seconds).

To develop the air exchange rate, a site-specific computational fluid dynamic (CFD) model was constructed to model air flow within the trench as defined above. CFD models have been used to evaluate air dispersion within urban canyon environments and can provide a more refined evaluation of potential air exchange within a trench. Using the CFD model (Ansys, 2011), air flow was calculated using the geometry of the trench and a conservative (i.e. results in higher trench air concentrations) reference velocity of 1.3 m/s which is the lowest monthly average wind speed reported for Long Beach from the last several years (January 2009 to April 2011) (NCDC, 2011) at a height of 10 m. The CFD model was used to monitor the decrease in concentration of a tracer uniformly distributed in the trench. The model assumed an initial concentration of 1 in the trench and zero within the atmosphere. Convection and diffusion of the tracer out of the trench was evaluated, and the reduction in the concentration in the trench over time was calculated.

The ACH was calculated following the calculation methods presented for the air exchange rate from ASTM (2011):

$$ACH = -\frac{\left[\ln(Ct_2) - \ln(Ct_1)\right]}{t_2 - t_1}$$

where:

ACH = air exchange rate per hour (hr^{-1})
C_{t2} = final tracer concentration at time 2

Ct_1 = initial tracer concentration at time 1
$t_2 - t_1$ = time interval of simulation (hr)

An ACH of approximately 20 hr^{-1} was calculated for the trench. Derivation of the COC-specific $VF_{soil-OA}$ for the construction and utility maintenance worker is presented in **Table A-3a**.

Soil Vapor to Outdoor Air

The conceptual exposure scenario for the construction and utility maintenance worker receptor is the same as that considered for the soil to outdoor air scenario – exposure during excavation. The volatilization factor for soil vapor to a trench was calculated using the same relationships as those used for soil, except a soil vapor source term was used. This section details the methodology for deriving the volatilization factor for the soil vapor to outdoor air pathway. The soil vapor to outdoor air VF_{SV-OA} represents the ratio of the outdoor air exposure point concentration (EPC_{SV-OA}) to the soil vapor exposure point concentration (EPC_{SV}) presented in the equation below:

$$VF_{SV-OA} = \frac{EPC_{SV}}{EPC_{SV-OA}}$$

Where:

VF_{SV-OA} = soil vapor to outdoor air volatilization factor (mg/m^3 soil vapor per mg/m^3outdoor air);
EPC_{SV-OA} = exposure point concentration of COC in outdoor air from soil vapor (mg/m^3); and
EPC_{SV} = exposure point concentration, soil vapor (mg/m^3).

This section presents the approach used to model vapor migration from the subsurface (using soil vapor data) to outdoor air within a utility trench where workers could potentially be exposed via inhalation. The soil vapor exposure point concentration, EPC_{SV}, was calculated from soil exposure point concentration, EPC_{soil}, using the following partitioning relationship proposed by Feenstra et al. (1991):

$$EPC_{SV} = EPC_{soil} \times \frac{H'}{K_{sw}} \times CF_1 \times CF_2$$

Where:

EPC_{SV} = COC concentration in soil vapor (mg/m^3);
EPC_{soil} = COC concentration in soil (mg/kg);
H' = COC-specific Henry's law coefficient (unitless);

K_{sw} = soil to water partition coefficient, defined above (cm^3-water/g-soil);
CF_1 = conversion factor (1×10^{-3} kg/g); and
CF_2 = conversion factor ($1\times10^{+6}$ cm^3/m^3).

The outdoor air concentrations of vapors from soil for a construction and utility maintenance worker can be estimated using the following relationship:

$$EPC_{OA} = \frac{EPC_{soil}}{VF_{soil\text{-}OA}}$$

Where:

EPC_{OA} = COC concentration in outdoor air (mg/m^3) (either from soil or from soil vapor);
EPC_{soil} = COC concentration in soil (mg/kg); and
$VF_{soil\text{-}OA}$ = volatilization factor, surficial soils to outdoor (ambient) air (m^3-air/kg-soil).

Rearranging these two equations results in the following:

$$EPC_{OA} = \frac{EPC_{soil}}{VF_{soil\text{-}OA}} = \frac{EPC_{SV}}{VF_{soil\text{-}OA}} \times \frac{K_{sw}}{H'} \times \left(\frac{1}{CF_1 \times CF_2} \right)$$

This equation was then rearranged to calculate the ratio of $EPC_{SV\text{-}OA}$ and EPC_{SV} and provide the equation for the soil vapor to outdoor air volatilization factor, $VF_{SV\text{-}OA}$, for a construction and utility maintenance worker:

$$VF_{SV\text{-}OA} = \frac{EPC_{SV}}{EPC_{SV\text{-}OA}} = VF_{soil\text{-}OA} \times \frac{H'}{K_{sw}} \times (CF_1 \times CF_2)$$

Where:

$VF_{SV\text{-}OA}$ = soil vapor to outdoor air volatilization factor ($\mu g/m^3$ per $\mu g/m^3$);
$EPC_{SV\text{-}OA}$ = exposure point concentration of COC in outdoor air from soil vapor ($\mu g/m^3$); and
EPC_{SV} = exposure point concentration, soil vapor ($\mu g/m^3$).

Derivation of the COC-specific $VF_{SV\text{-}OA}$ for the construction and utility maintenance worker is presented in **Table A-3b**.

3.1.3 Vapor Emissions into Indoor Air

Because VOCs were detected in sub-slab soil vapor at the Site, onsite residents could potentially be exposed to vapors migrating from the subsurface into indoor air. To investigate the relationship between indoor air and sub-slab soil vapor concentrations, a single regression analysis method was applied to the Site data as described in Appendix B of the main SSCG report. This analysis evaluated the relationship between indoor air concentrations and sub-slab soil vapor concentrations for a filtered dataset of sub-slab soil vapor data with concentrations ≥100 µg/m3. Based on the analysis, an upper-bound vapor intrusion attenuation factor of 0.001 was identified. This conservative upper-bound vapor intrusion attenuation factor was used to derive sub-slab soil vapor SSCGs described in Section 5.1 below.

4.0 TOXICITY ASSESSMENT

The toxicity assessment characterizes the relationship between the magnitude of exposure to a COC and the nature and magnitude of adverse health effects that may result from such exposure. Consistent with regulatory risk assessment policy, adverse health effects resulting from potential chemical exposures are classified into two broad categories: carcinogens and noncarcinogens. Toxicity criteria are generally developed based on the threshold approach for noncarcinogenic effects and the non-threshold approach for carcinogenic effects.

For carcinogens, it is assumed that there is no level of exposure that does not have a finite possibility of causing cancer (i.e., there is no threshold dose for carcinogenic effects). That is, a single exposure of a carcinogen may, at any level, result in an increased probability of developing cancer. For chemicals exhibiting noncarcinogenic effects, it is believed that organisms have protective mechanisms that must be overcome before the toxic endpoint results (i.e., there is a threshold dose for these effects). For example, if a large number of cells perform the same or similar functions, it would be necessary for significant damage or depletion of these cells to occur before a toxic effect could be seen. As a result, a range of exposures exists from zero to some finite value that can be tolerated by the organism with essentially no chance of expression of adverse effects (USEPA, 1989). Some chemicals may elicit both carcinogenic and noncarcinogenic effects.

The key dose-response criteria are (i) cancer slope factors (CSFs) or inhalation unit risk factors (IURs) for estimating cancer risks from exposure to carcinogens; and (ii) reference doses (RfDs) or inhalation reference concentrations (RfCs) for estimating hazard from exposure to noncarcinogens. In addition, Cal-EPA Office of Environmental Health Hazard Assessment (OEHHA; Cal-EPA 2013) has developed chronic Reference Exposure Levels (RELs) for noncarcinogenic effects from inhalation exposures. For developing SSCGs, cancer toxicity criteria (except for trichloroethene [TCE] as discussed below) were selected from the following sources, in order of preference:

1) Cal-EPA OEHHA Toxicity Criteria Database, online (Cal-EPA, 2013);
2) USEPA's (2013a) Integrated Risk Information System (IRIS);
3) USEPA RSLs for Chemical Contaminants at Superfund Sites (USEPA, 2013b);
4) USEPA National Center of Environmental Assessment (USEPA, 2013b);
5) Agency for Toxic Substances Disease Registry (as reported in USEPA, 2013b); and
6) Health Effects Assessment Summary Tables (as reported in USEPA, 2013b).

The noncancer toxicity criteria were selected from the following sources, in order of preference:

1) USEPA's (2013a) IRIS database; and
2) Cal-EPA OEHHA Toxicity Criteria Database online (Cal-EPA, 2013).

For TCE, the USEPA inhalation IUR of 4.1×10^{-6} $(\mu g/m^3)^{-1}$ and oral CSF of 4.6×10^{-2} $(mg/kg\text{-}day)^{-1}$ were used for derivation of SSCGs, which are consistent with the most recent USEPA published toxicity values for TCE (USEPA, 2011). Moreover, because TCE is considered carcinogenic by a mutagenic mode of action for kidney effects, separate cancer risk equations are presented for mutagens as outlined in the USEPA RSL User's Guide (USEPA, 2013c). These equations were used for TCE for the residential scenario.

At the present time, Cal-EPA and USEPA have only developed toxicity criteria for the oral and inhalation routes of exposure. As recommended by Cal-EPA and USEPA, in the absence of values specific to the dermal route, the oral toxicity criteria were used to evaluate dermal exposures. In addition, route-to-route extrapolation between ingestion and inhalation routes of exposure was used for those chemicals for which toxicity criteria are extrapolated in the USEPA Region 9 Preliminary Remedial Goal (PRG) table (USEPA, 2004a). This can be considered a conservative approach as current USEPA RSL guidance (USEPA, 2013b) does not include the route-to-route extrapolation. For some of the COCs, neither Cal-EPA nor USEPA have identified a toxicity value. In these cases, a surrogate chemical approach was employed in which the toxicity value developed for a structurally similar compound was assigned to the COC which is lacking the toxicity value (e.g., hexane for heptane).

Toxicity values for TPH have not been published by Cal-EPA OEHHA or USEPA. Toxicity factors for TPH have been suggested by Cal-EPA Department of Toxic Substances Control (Cal-EPA, 2009a). Even though these toxicity factors for TPH have not gone through the same level of peer review as the other toxicity factor references used for the other COCs, the toxicity factors presented in Cal-EPA DTSC TPH guidance were used for TPH SSCGs. These values were presented in a letter from Geosyntec dated August 15, 2011 describing the derivation of RBSLs for TPH (TPH RBSL Letter; Geosyntec, 2011), which was approved by the LARWQCB on November 14, 2011.

The traditional RfD approach to the evaluation of chemicals is not applied to lead because most adverse human health effects data associated with exposure to lead have been correlated with concentrations of lead in blood and not with intake of lead by an individual (Cal-EPA, 1996). In the absence of RfDs, Cal-EPA uses a 1 microgram per deciliter (µg/dL) benchmark for source-specific incremental change in blood lead levels for protection of children and fetuses (Cal-EPA, 2007) as the revised health criterion for lead. This benchmark is the estimated incremental increase in a child's blood lead level that would reduce their IQ by up to 1 point. Based on this revised benchmark of 1 µg/dL, Cal-EPA has recommended a revised residential California Human Health Screening Level (CHHSL) of 80 mg/kg.

For the resident potentially exposed to deeper soils for a limited time and the construction and utility maintenance worker, the SSCGs were calculated using the CHHSL methodology for residential and industrial/commercial worker adjusted for exposure frequency and ingestion rate using the Adult Lead Model (ALM) as recommended by Cal-EPA. According to USEPA's 2003 guidance *Assessing Intermittent or Variable Exposures at Lead Sites* and supporting documentation for the ALM, a minimum exposure frequency and exposure duration of 1 day per week for 3 months should be used to account for the model's steady-state assumption. In addition, a central tendency ingestion rate value of 100 mg/day is recommended for construction workers. Therefore, these input parameters were used for adult lead exposures. For the residential exposure it was assumed that an adult resident would be the most likely individual to contact deeper soils while conducting activities such as planting a tree.

A summary of the cancer and noncancer toxicity criteria for the COCs is presented in **Table A-4**.

5.0 SITE-SPECIFIC CLEANUP GOALS

This section presents the methodology that was used to derive SSCGs for onsite residents and for the construction and utility maintenance worker that may be present at the Site and have the potential to be exposed to residual chemicals present in soil and soil vapor.

5.1 Risk-based SSCG Methodology

Deriving risk-based SSCGs for COCs in soil, sub-slab soil vapor, and soil vapor requires information regarding the level of human intake of the COC (exposure assessment), the relationship between intake of the chemical and its toxicity (toxicity assessment), and the acceptable target risk. The sections below present the equations that were used in the development of the SSCGs for soil, sub-slab soil vapor, and soil vapor. The methodology that was used to derive SSCGs is based principally on guidelines provided by the USEPA in *Risk Assessment Guidance for Superfund, Volume I, Human Health Evaluation Manual*

(Part A), Interim Final (USEPA, 1989) and in the *Soil Screening Guidance* (USEPA, 2002) and by the DTSC in *Preliminary Endangerment Assessment Guidance Manual* and in *Recommended DTSC Default Exposure Factors For Use In Risk Assessment At California Military Facilities* (Cal-EPA, 1999 and 2011a).

Various demarcations of acceptable risk have been established by regulatory agencies. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP; 40 CFR 300) indicates that lifetime incremental cancer risks posed by a site should not exceed a range of one in one million (1×10^{-6}) to one hundred in one million (1×10^{-4}) and noncarcinogenic chemicals should not be present at levels expected to cause adverse health effects (i.e., a Hazard Index [HI] greater than 1). In addition, other relevant guidance (USEPA, 1991b) states that sites posing a cumulative cancer risk of less than 10^{-4} and hazard indices less than unity (1) for noncancer endpoints are generally not considered to pose a significant risk warranting remediation. The California Hazardous Substances Account Act (HSAA) incorporates the NCP by reference, and thus also incorporates the acceptable risk range set forth in the NCP. The Safe Drinking Water and Toxic Enforcement Act of 1986 (California Proposition 65) regulates chemical exposures to the general population and is based on an acceptable risk level of 1×10^{-5}. The DTSC considers the 1×10^{-6} risk level as the generally accepted point of departure for unrestricted land use.

Under most situations, cancer risks in the range of 1×10^{-6} to 1×10^{-4} may be considered to be acceptable with cancer risks less than 10^{-6} considered insignificant. The risk range between 10^{-6} and 10^{-4} is commonly called the "discretionary risk range." This risk range is in addition to the background risk of Americans in the general population developing cancer from causes unrelated to a Site-specific exposure. The background risk is one chance in three (0.3 or 3×10^{-1}) for an American female, and one chance in two (0.5 or 5×10^{-1}) for an American male of eventually developing cancer (ACS, 2013).

A target cancer risk level of 1×10^{-6} was used to derive SSCGs for onsite residents. For the construction and utility maintenance worker, the SSCGs were derived using a target cancer risk level of 1×10^{-5} (the "mid-point" of the risk management range and commonly used for managing commercial/industrial land uses). A target HI of 1 was used for noncarcinogens for all exposure scenarios. These risk levels are used to provide context to the risk results and to support the following discussion which focuses on those pathways and chemicals that contribute the majority to the risk estimates. It is acknowledged that additional risk management considerations such as technical feasibility, economic, social, political, and legal factors may be part of the final risk management decision. The results of the risk characterization are really the starting point for risk management considerations for a site (USEPA, 1995).

5.1.1 SSCGs Based on Cancer Health Effects

The SSCG equations below describe the established relationship between estimated intake, toxicity, and potential risk for cancer health effects (USEPA, 1989).

For COCs in soil:

$$SSCG_{soil\text{-}c} = \frac{TR}{(CSF_{oral}) \times (IF_{oral} + IF_{dermal}) + (IUR) \times (EC_{inh,soil})}$$

For COCs in soil vapor for the construction and utility maintenance worker:

$$SSCG_{sv\text{-}c} = \frac{TR}{(IUR) \times (EC_{SV\text{-}OA})}$$

For COCs in sub-slab soil vapor for the onsite resident:

$$SSCG_{ss\text{-}sv\text{-}c} = \frac{TR}{(IUR) \times (EC_{SS\text{-}SV\text{-}IA})}$$

Where:

$SSCG_{soil\text{-}c}$	=	Site-specific cleanup goal for soil based on cancer effects (mg/kg);
TR	=	target cancer risk level (unitless);
CSF_{oral}	=	cancer slope factor for oral (ingestion and dermal contact) exposures $(mg/kg \cdot d)^{-1}$;
IF_{oral}	=	intake factor for ingestion (kg soil per kg body weight per day);
IF_{dermal}	=	intake factor for dermal contact (kg soil per kg body weight per day);
IUR	=	inhalation unit risk factor $(\mu g/m^3)^{-1}$;
$EC_{inh,soil}$	=	exposure concentration for inhalation of COCs from soil (mg/m^3 per mg/kg);
$SSCG_{sv\text{-}c}$	=	Site-specific cleanup goal for soil vapor to outdoor air based on cancer effects (mg/m^3);
$EC_{SV\text{-}OA}$	=	exposure concentration for outdoor inhalation (mg/m^3 per mg/m^3);
$SSCG_{ss\text{-}sv\text{-}c}$	=	Site-specific cleanup goal for sub-slab soil vapor to indoor air based on cancer effects (mg/m^3); and
$EC_{SS\text{-}SV\text{-}IA}$	=	exposure concentration for indoor inhalation (mg/m^3 per mg/m^3).

The formulas for developing the soil intake factors for ingestion and dermal contact, as well as for developing the exposure concentrations for soil, sub-slab soil vapor, and soil vapor are presented in **Tables A-5** through **A-9**. The exposure parameters that were used to estimate

the intake factors and exposure concentrations are presented in **Table A-1**. The SSCGs for soil and sub-slab soil vapor are presented in **Tables A-10** and **A-11**, respectively, for the onsite resident. The SSCGs for soil and soil vapor are presented in **Tables A-12** and **A-13**, respectively, for the construction and utility maintenance worker. SSCG calculations are presented in **Attachment A1**.

5.1.2 SSCGs Based on Noncancer Health Effects

The SSCG equations below describe the established relationship between estimated intake, toxicity, and risk for noncancer health effects (USEPA, 1989).

For COCs in soil:

$$SSCG_{soil\text{-}nc} = \frac{THI}{\left(\frac{IF_{oral}}{RfD_{oral}}\right)+\left(\frac{IF_{dermal}}{RfD_{oral}}\right)+\left(\frac{EC_{inh,soil}}{RfC}\right)}$$

For COCs in soil vapor for the construction and utility maintenance worker:

$$SSCG_{sv\text{-}c} = \frac{THI}{\left(\frac{EC_{SV\text{-}OA}}{RfC}\right)}$$

For COCs in sub-slab soil vapor for the onsite resident:

$$SSCG_{ss\text{-}sv\text{-}nc} = \frac{TR}{(IUR)\times(EC_{SS\text{-}SV\text{-}IA})}$$

Where:

$SSCG_{soil\text{-}nc}$ = Site-specific cleanup goal for soil based on noncancer effects (mg/kg);
THI = target noncancer hazard index (unitless);
IF_{oral} = intake factor for ingestion (kg soil per kg body weight per day);
RfD_{oral} = noncancer reference dose for oral (ingestion and direct-contact) exposures (mg/kg·d);
IF_{dermal} = intake factor for dermal contact (kg soil per kg body weight per day);
$EC_{inh,soil}$ = exposure concentration for inhalation of COCs from soil (mg/m^3 per mg/kg from soil);
RfC = noncancer reference concentration for inhalation exposure (mg/m^3);
$SSCG_{sv\text{-}nc}$ = Site-specific cleanup goal for soil vapor to outdoor air based on noncancer effects (mg/m^3);

EC_{SV-OA} = exposure concentration for outdoor inhalation of COCs (mg/m^3 soil vapor per mg/m^3 outdoor air);

$SSCG_{ss-sv-nc}$ = Site-specific cleanup goal for sub-slab soil vapor to indoor air based on noncancer effects (mg/m^3); and

$EC_{SS-SV-IA}$ = exposure concentration for indoor inhalation (mg/m^3 per mg/m^3).

The formulas for developing the soil intake factors for ingestion and dermal contact, as well as for developing the exposure concentrations for soil, sub-slab soil vapor, and soil vapor are presented in **Tables A-5** through **A-9**. The exposure parameters that were used to estimate the intake factors and exposure concentrations are presented in **Table A-1**. The SSCGs for soil and sub-slab soil vapor are presented in **Tables A-10** and **A-11**, respectively, for the onsite resident. The SSCGs for soil and soil vapor are presented in **Tables A-12** and **A-13**, respectively, for the construction and utility maintenance worker. SSCG calculations are presented in **Attachment A1**.

5.1.3 TPH Fraction-Specific SSCGs

TPH compounds include a wide range of chemicals that are found in crude oils, petroleum products, and other petroleum-related materials. Because TPH mixtures can encompass a large range of hydrocarbons, chemical properties and environmental behavior vary widely among the many hundreds of compounds present in these mixtures. Methods to evaluate potential risks associated with TPH analytical results have been published in state and national working group guidance documents including the DTSC (Cal-EPA, 2009a), the Total Petroleum Hydrocarbon Criteria Working Group (TPHCWG, 1997ab; 1998ab; 1999), and Massachusetts Department of Environmental Protection (MADEP, 2002; 2003). Approaches presented in these documents were used to develop SSCGs for comparison to TPH data collected at the Site.

TPH may refer to a variety of products or wastes, but for the soil samples collected at the Site and analyzed by USEPA Method 8015B (M)[3], analytical results are grouped into three product ranges according to the number of carbon chain atoms:

[3] Results from USEPA Method 8015B (M) are equivalent to USEPA Method 8015C for TPH analysis.

TPH Product Range	Carbon Chain Range
$TPH_{gasoline}$ (TPH_g)	$C_4 - C_{12}$
TPH_{diesel}, (TPH_d)	$C_{10} - C_{22}$
$TPH_{motor\ oil}$ (TPH_{mo})	$C_{17} - C_{44}$

TPH product range concentrations reported (i.e., TPH_g, TPH_d or TPH_{mo}) do not necessarily indicate the presence of gasoline, diesel, or motor oil, only that there are hydrocarbons present that fall in those specific carbon-chain length ranges. In addition, there is some variability in the carbon chain range reported by the analytical laboratories.

For each of the carbon chain ranges, two different types of compounds or fractions may be present: aliphatic or aromatic. Therefore, TPH fractionation analysis was performed on soil and soil vapor samples to refine the TPH characterization. In the TPH fractionation analysis, aliphatic and aromatic fractions are quantified consistent with the Cal-EPA Interim TPH Guidance (Cal-EPA, 2009a). These TPH fractions are:

TPH Product Range	Aliphatic Fraction	Aromatic Fraction
Light	$C_5 - C_8$	$C_6 - C_8$
Medium	$C_9 - C_{18}$	$C_9 - C_{16}$
Heavy	$C_{19} - C_{32}$	$C_{17} - C_{32}$

Both types of analyses (i.e., product range analysis and fractionation analysis) have been conducted at the Site, and the TPH fractionation analytical results are used in the derivation of SSCGs for product-range TPH results as described in later sections.

The fraction-specific SSCGs for soil, sub-slab soil vapor, and soil vapor are presented below:

TPH Fractions	Onsite Resident			Construction and Utility Maintenance Worker	
	Soil SSCG (EF350) (mg/kg)	Soil SSCG (EF4) (mg/kg)	Sub-Slab Soil Vapor SSCG ($\mu g/m^3$)	Soil SSCG (mg/kg)	Soil Vapor SSCG ($\mu g/m^3$)
Aliphatic: C_5-C_8	7.1E+02	6.2E+04	7.3E+05	8.3E+02	1.2E+09
Aliphatic: C_9-C_{18}	1.4E+03	1.3E+05	3.1E+05	1.6E+03	1.2E+08
Aliphatic: C_{19}-C_{32}	1.1E+05	1.0E+07	--	5.5E+06	--
Aromatic: C_6-C_8	--	--	--	--	--
Aromatic: C_9-C_{16}	6.0E+02	5.3E+04	5.2E+04	7.5E+02	6.7E+06
Aromatic: C_{17}-C_{32}	1.7E+03	1.5E+05	--	8.3E+04	--

Notes:

- EF: exposure frequency; 350 days/year for a typical resident and 4 days/year for a resident who infrequently contacts subsurface soils.
- " – " not calculated
- SSCGs for the C_6-C_8 aromatic fraction are not calculated because individual constituents in this fraction (i.e., benzene, toluene, ethylbenzene) were analyzed.
- Sub-slab soil vapor and soil vapor SSCGs for the C_{19}-C_{32} aliphatic and C_{17}-C_{32} aromatic fractions are not calculated because the volatility of these fractions are low and no RfC is available for these fractions.

5.1.4 SSCGs for TPH Product Ranges

Fraction-specific soil, sub-slab soil vapor, and soil vapor SSCGs for the different TPH fraction ranges presented above are used to derive soil, sub-slab soil vapor, and soil vapor SSCGs for TPH product ranges: TPH gasoline (TPH_g), TPH diesel (TPH_d), and TPH motor oil (TPH_{mo}). Fractionation results from soil samples collected through February 24, 2011 were used to evaluate the aromatic/aliphatic composition of the different TPH ranges. The analytical results correlation analysis was presented in a letter to the RWQCB dated August 15, 2011 (Geosyntec, 2011). The aromatic/aliphatic ratios for each TPH range are as follows:

- Light Range TPH = 0.03
- Medium Range TPH = 1.3
- Heavy Range TPH = 1.0

The carbon number ranges used in the TPH product range (TPH_g, TPH_d, and TPH_{mo}) analyses are different from those used in the TPH fractionation analyses. As a result, there is overlap in the product range carbon-chain values and what is encompassed by the fraction results. Consequently, the contribution to the TPH product range from the different aliphatic and aromatic fractions was estimated based on a comparison of the carbon ranges

encompassed by the different analyses (Geosyntec, 2011). The following contributions were assumed:

- TPH_g: 50% contribution from the light fractions and 50% contribution from the medium fractions;
- TPH_d: 50% contribution from the medium fractions and 50% contribution from the heavy fractions; and
- TPH_{mo}: 100% contribution from the heavy fractions.

The following equation was used to derive the SSCGs for TPH_g, TPH_d, and TPH_{mo}:

$$SSCG\ (TPH_g, TPH_d, TPH_{mo}) = 100\% \times \left[\sum \frac{Fraction\ \%}{Fraction\ SSCG} \right]^{-1}$$

Where:

Fraction % = % contribution of TPH fraction to product range TPH (unitless); and

Fraction SSCG = Site-specific cleanup goal determined above for the different TPH fraction (soil in mg/kg; sub-slab soil vapor and soil vapor in $\mu g/m^3$).

The following table summarizes the SSCG calculations for TPH_g, TPH_d, and TPH_{mo}:

TPH Product Ranges	% Contribution to Product Range TPH	Aromatic/ Aliphatic Ratio	% Contribution of TPH Fraction	Onsite Resident			Construction and Utility Maintenance Worker	
				Soil SSCG (EF350) (mg/kg)	Soil SSCG (EF4) (mg/kg)	Sub-Slab Soil Vapor SSCG ($\mu g/m^3$)	Soil SSCG (mg/kg)	Soil Vapor SSCG ($\mu g/m^3$)
TPH-g								
Light Fraction	50%	0.03						
Aliphatic: C_5-C_8			49%	7.1E+02	6.2E+04	7.3E+05	8.3E+02	1.2E+09
Aromatic: C_6-C_8			1%	6.0E+02	5.3E+04	5.2E+04	7.5E+02	6.7E+06
Medium Fraction	50%	1.3						
Aliphatic: C_9-C_{18}			22%	1.4E+03	1.3E+05	3.1E+05	1.6E+03	1.2E+08
Aromatic: C_9-C_{16}			28%	6.0E+02	5.3E+04	5.2E+04	7.5E+02	6.7E+06
			TPH-g =	**7.6E+02**	**6.6E+04**	**1.4E+05**	**9.0E+02**	**2.2E+07**
TPH-d								
Medium Fraction	50%	1.3						
Aliphatic: C_9-C_{18}			22%	1.4E+03	1.3E+05	3.1E+05	1.6E+03	1.2E+08
Aromatic: C_9-C_{16}			28%	6.0E+02	5.3E+04	5.2E+04	7.5E+02	6.7E+06
Heavy Fraction	50%	1.0						
Aliphatic: C_{19}-C_{32}			25%	1.1E+05	1.0E+07	--	5.5E+06	--
Aromatic: C_{17}-C_{32}			25%	1.7E+03	1.5E+05	--	8.3E+04	--
			TPH-d =	**1.3E+03**	**1.1E+05**	**1.6E+05**	**1.9E+03**	**2.3E+07**
TPH-mo								
Heavy Fraction	100%	1.0						
Aliphatic: C_{19}-C_{32}			49%	1.1E+05	1.0E+07	--	5.5E+06	--
Aromatic: C_{17}-C_{32}			51%	1.7E+03	1.5E+05	--	8.3E+04	--
			TPH-mo =	**3.3E+03**	**2.9E+05**	**--**	**1.6E+05**	**--**

Note: Because individual C_6-C_8 aromatic constituents are evaluated separately, SSCG for C_9-C_{16} aromatic fraction used for evaluation

5.2 Background-based SSCG Methodology

Metals may be naturally occurring in the environment. According to the DTSC (Cal-EPA DTSC 1997, 2009a, 2009c, 2009d, 2011b) for naturally occurring materials such as metals, an evaluation of background concentrations is important to evaluate whether the metals concentrations on the property are consistent with naturally occurring levels in the area, and whether they should be included in the risk assessment. If concentrations of a metal are within background, the metal is not considered a COC and is not evaluated further.

In addition to metals, cPAHs can be naturally occurring or present at ambient levels not associated with former Site activities. A background dataset and methodology has been developed by DTSC that can be used to evaluate the presence of cPAHs in soil as benzo(a)pyrene equivalents (Cal-EPA DTSC, 2009c). Soil samples collected from the Site were analyzed by USEPA Method 8270 and USEPA Method 8270SIM and include the carcinogenic PAHs (cPAHs) that are commonly considered in the benzo(a)pyrene

equivalents calculation as presented in the Cal-EPA DTSC background PAH methodology document (Cal-EPA DTSC, 2009c) as well as other PAHs that are considered carcinogenic (e.g. naphthalene).

Benzo(a)pyrene equivalent concentrations are calculated for this Site data using a toxicity equivalency factor (TEF) approach. TEFs are based on shared characteristics that can be used to rank the class of chemicals by carcinogenic potency. The ranking procedure is accomplished by referencing the chemicals to the characteristics and potency of benzo(a)pyrene, which is often used as the reference chemical for expressing the carcinogenic potency of the other cPAHs. Therefore, the cPAHs are indexed to benzo(a)pyrene to generate their TEFs. The TEFs are listed below for the seven cPAHs based on Cal-EPA guidance (Cal-EPA, 2009c):

cPAHs	TEFs
Benzo(a)anthracene	0.1
Benzo(a)pyrene	1.0
Benzo(b)fluoranthene	0.1
Benzo(k)fluoranthene	0.1
Chrysene	0.01
Dibenzo(a,h)anthracene	0.34
Indeno(1,2,3-cd)pyrene	0.1

Background-based SSCGs for metals and cPAHs were developed for the Site consistent with USEPA and Cal-EPA methodologies as presented in **Attachment A2** using local and regional background datasets. The background-based SSCGs are presented in **Table A-14**. These values represent Background Threshold Values (BTVs) which are single-point background thresholds that represent an upper plausible limit of the background distributions of individual compounds (USEPA, 2009a; 2009b; Helsel, 2005). These values are commonly used to evaluate site data and to determine if site concentrations are above background. In addition to the BTVs, Site data can be evaluated using guidance from Cal-EPA (Cal-EPA, 1997) to determine if Site concentrations are consistent with background.

Due to the preponderance of Site data (over 10,000 samples and 265 individual study areas), a streamlined approach was developed to evaluate background at the Site. In the first step, an upper-bound concentration from Site samples will be compared to the BTVs to evaluate whether onsite metal or cPAH concentrations are above or below background concentrations. In the second step, for chemicals that are present at concentrations above the BTV, a one-sample proportion test will be used to compare the Site data with the BTVs. This is consistent with agency guidance that states that when BTVs and cleanup standards

are known, one-sample hypotheses are used to compare site data with the known and pre-established threshold values (USEPA, 2010). If warranted, additional analysis using Site data and methodologies using guidance from Cal-EPA (Cal-EPA, 1997) will be used.

If onsite concentrations are below background, the area will not be evaluated further in the risk assessment process for that chemical. The background comparison will be conducted as part of the full Human Health Risk Assessment (HHRA) that will be conducted for preparation of the RAP. It is anticipated that the HHRA will be included in the RAP.

5.3 Soil Leaching to Groundwater Methodology

5.3.1 The LARWQCB Attenuation Factor Method for VOCs

The Attenuation Factor Method for VOCs, described in the Los Angeles Regional Water Quality Control Board "Interim Site Assessment & Cleanup Guidebook" (the Water Board approach, LARWQCB, 1996), provides an approach to estimate soil cleanup goals for the protection of groundwater quality based on physical properties of a site and chemical properties of the VOCs. A soil-to-soil-leachate attenuation factor is calculated in a three-step process:

1) Estimate a liquid phase contaminant concentration (C_i) that is in equilibrium with the solid phase and the air phase in the vadose zone soil, using the site-specific soil physical parameters as well as the partitioning coefficients between the three phases (i.e., soil/water partitioning coefficient, Kd, and the Henry's Law Constant, K_H):

$$C_i = \frac{C_T}{\theta_W + \rho_b f_{oc} K_{oc} + (n - \theta_W) K_H}$$

where C_T is the total soil concentration, θ_W is the soil water content by volume, n is the soil porosity, and f_{oc} is the soil organic content. Then an AF, the ratio of the liquid phase concentration and the total soil concentration, can be calculated as:

$$\mathrm{AF} = 1 + \frac{\rho_b}{\theta_W} f_{oc} K_{oc} + (n - \theta_W) \frac{K_H}{\theta_W}$$

for chemicals where site-specific Kd is available, the $f_{oc}K_{oc}$ term in the above equation can be simply replaced by Kd.

2) Adjust the AF due to distance above groundwater. The hydrogeological information in the Los Angeles area suggests that the soil column can be divided into three zones: (1) a "smear zone", due to groundwater level fluctuation, immediately above groundwater table (0 - 40 ft above water table); (2) a second modification zone between 40 and 150 ft above water table; (3) No-modification zone (distance greater than 150 ft above water table). Based on a VLEACH modeling study, the AF at the top of the smear zone is reduced as one-tenth of the original AF calculated in step one. Subsequently the AF at each specific depth (AF_D) can be quantified by linear interpolation. The equations used are listed below:

For D>150: $AF_D = AF$

For 40<D≤150: $AF_D = \left(\frac{0.9(D-40)}{110} + 0.1\right) \times AF$

For D≤40: $AF_D = D(\frac{0.1AF-1}{40}) + 1$

where D is the total depth of the site soil.

3) Modify AF_D according to site lithology. The steady infiltration rates of different soil types are reported to have a 1:5:10:20 ratio between clay:silt/clay:sand/silt:gravel/sand. Therefore, once the site lithology is known, the final AF (AF_T) can be obtained by adjusting AF_D based on the following equation:

$$\mathrm{AF_T} = \frac{\mathrm{AF_D}}{\mathrm{D}}\left(\frac{\mathrm{TGR}}{20} + \frac{\mathrm{TSA}}{10} + \frac{\mathrm{TSI}}{5} + \frac{\mathrm{TCL}}{1}\right)$$

where D is the total depth of the site soil, TRG, TSA, TSI, and TCL are the total depths of gravel, sand, silt/clay, and clay, respectively. Note that since site-specific soil physical data are available and used in Step One, and the Site soil type is assumed to be entirely sand, Step Three was not conducted in the calculation for the Kast Site to avoid double-counting the effect of soil type.

5.3.2 The USEPA RSL Soil Cleanup Goal Method for Metals

Since the LARWQCB approach is only suitable for VOCs, the USEPA Regional Screening Level (RSL) approach (USEPA, 2013c) for the soil-to-groundwater pathway soil screening level was adapted for metals SSCG development. The RSL approach employs a partitioning equation that considers both the contaminant equilibrium between the solid, liquid, and air phase in soil and the dilution of leachate when entering the groundwater. The equation is listed below:

$$C_{cleanup} = C_W \times DAF \times \left[Kd + \frac{\theta_W + \theta_a K_H}{\rho_b}\right]$$

Where Cw is the groundwater quality criterion, DAF is the leachate-to-groundwater dilution attenuation factor (described in the next section), Kd is the soil/water partitioning coefficient, and θ_a is air-filled porosity. Kd can be calculated by:

$$Kd = Koc \times foc$$

5.3.3 SAM Model DAF Method

The Soil Attenuation Model (SAM), developed by Connor, et al., 1997, uses a simple box model to quantify the dilution of dissolved COCs when soil leachate mixes with lateral groundwater flow. When leachate vertically migrates to the water-bearing unit through infiltration, a contaminant will be diluted by the lateral groundwater flow in the mixing zone. Assuming perfect mixing, the groundwater concentration can be calculated based on

mass balance. Infiltration rate, mixing zone height, and groundwater Darcy velocity are required for such a mass-balance accounting.

To estimate the infiltration rate (I_f), an empirical relationship between net infiltration and annual precipitation has been developed based upon a database of 140 sites from 18 geographic regions (Connor, et al., 1997). For the sand soil type of the Site, the relationship is:

$$I_f = 0.0018 \times P^2$$

where P is the annual precipitation.

To estimate the mixing zone height (δ_{gw}), the following equation (adapted from the USEPA Soil Screening Guidance) is used:

$$\delta_{gw} = \sqrt{2 \cdot \alpha_v \cdot W} + b[1 - exp(\frac{-I_f \cdot W}{U_{gw} \cdot b})]$$

where α_v is the vertical groundwater dispersivity, W is the lateral width of affected soil zone in direction of groundwater flow, b is the aquifer thickness, U_{gw} is the groundwater Darcy velocity. In the case where equation 5 results in a δ_{gw} that is larger than the aquifer thickness b, b is used as the mixing zone height.

α_v, and U_{gw} are calculated by:

$$\alpha_V = 0.0056 \times W$$

$$U_{gw} = K \cdot i$$

where K is the hydraulic conductivity, and i is the hydraulic gradient of the water-bearing unit.

Finally the Dilution Attenuation Factor (DAF) can be obtained by:

$$DAF = 1 + \frac{U_{gw} \cdot \delta_{gw}}{I_f \cdot W}$$

Parameters used for the LARWQCB and USEPA methods are listed in **Table A-15**. SAM DAF calculation is presented in **Table A-16**. The site-specific cleanup goals based on soil leaching to groundwater are summarized in **Table A-17**, and the detailed calculations are appended in **Attachment A-3**.

5.3.4 Example Calculation

An example calculation is provided below for benzene:

1). AF calculation.

First, the unadjusted AF is calculated using Site soil data and the physical properties of benzene:

$$AF = 1 + \frac{\rho_b}{\theta_W} K_d + (n - \theta_W) \frac{K_H}{\theta_W}$$

$$= 1 + \frac{1.54\ g/cm^3}{0.239} \times 28 \frac{mL}{g} + (0.421 - 0.239) \frac{0.227}{0.239}$$

$$= 180$$

Second, the depth adjusted AF_D is calculated. For example, for 50 ft depth:

$$AF_{D,50} = \left(\frac{0.9(D - 40)}{110} + 0.1 \right) \times AF = \left(\frac{0.9(50 - 40)}{110} + 0.1 \right) \times 180$$

$$= 33$$

The Site groundwater table is between 50 to 60 ft bgs. Therefore, as a conservative measure, the AF_D at 50 ft of 33 is used to calculate the soil cleanup goal.

2). DAF calculation

The annual precipitation at the Site is estimated as 34.5 cm/yr based on the meteorological data from the Torrance, CA weather Station in the SESOIL meteorological database. The infiltration rate is then calculated as:

$$I_f = 0.0018 \times 34.5\ cm/yr^2 = 0.0214\ m/yr$$

The lateral width of affected soil zone in the direction of the groundwater flow is estimated as 184 m based on the area of highest benzene concentrationsfrom 2011 2nd quarter and 2013 2nd quarter groundwater monitoring data. Using this, the vertical groundwater dispersivity is obtained:

$$\alpha_V = 0.0056 \times 184m = 1.03\ m$$

Using a default hydraulic conductivity of 2.5 m/day for the fine sand soil type (Todd, 1980), and the Site hydraulic gradient of 0.002 m/m (estimated using the 2013 2nd quarter groundwater monitoring data), groundwater Darcy velocity is calculated as:

$$U_{gw} = K \cdot i = 2.5\frac{m}{day} \times 0.002\frac{m}{m} = 1.8\frac{m}{yr}$$

The aquifer thickness, b, was estimated as 11.3 m assuming the top of the Gage aquifer is the lower boundary of the shallow water-bearing unit. Subsequently the mixing zone height, δ_{gw}, can be obtained:

$$\delta_{gw} = \sqrt{2 \cdot \alpha_v \cdot W} + b[1 - exp(\frac{-I_f \cdot W}{U_{gw} \cdot b})]$$

$$= \sqrt{2 \cdot 1.03m \cdot 184m} + 11.3m \times [1 - exp(\frac{-0.0214m/yr \cdot 184m}{1.8m/yr \cdot 11.3m})]$$

$$= 21.4\ m$$

Since this value is larger than the aquifer thickness, the aquifer thickness, 11.3 m, is then used as the mixing zone height. The DAF is finally calculated as:

$$DAF = 1 + \frac{U_{gw} \cdot \delta_{gw}}{I_f \cdot W} = 1 + \frac{1.8m/yr \cdot 21.4m}{0.0214m.yr \cdot 184m} = 6.24$$

3). Soil cleanup goal calculation

For benzene, the California MCL is 1 µg/L, therefore the soil cleanup goal is finally calculated as:

$$C_{cleanup} = \frac{MCL \times DAF \times AF}{\rho_b} = \frac{1\mu g/L \times 6.24 \times 33}{1.54\ kg/L} = 133\ mg/kg$$

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TABLES

Table A-1
Exposure Parameters
Former Kast Property
Carson, California

Parameter		Units	Onsite Resident		Source	Onsite Construction and Utility Maintenance Worker	Source
			Adult	Child			
IR	Soil ingestion rate	mg/d	100	200	(1,2)	330	(1)
SA	Skin surface area	cm^2	5,700	2,800	(1,3)	5,700	(1)
AF	Soil-to-skin adherence factor	–	0.07	0.2	(1,3)	0.8	(1)
EF	Exposure frequency	d/yr	350	350	(1,2)	10	PJ
	Infrequent exposure to subsurface soils	d/yr	4	4	PJ	--	
ED	Exposure duration	yr	24	6	(1,2)	25	(2)
ET	Exposure time	hours	24	24	(2)	20 m^3/day for the 8 hour workday	(1)
BW	Body weight	kg	70	15	(1,2)	70	(1,2)
AT_C	Averaging time for carcinogenic effects	d	25,550	25,550	(1,2)	25,550	(1,2)
AT_{NC}	Averaging time for noncarcinogenic effects	d	8,760	2,190	(1,2)	9,125	(1,2)

Note:

"--" not applicable; " PJ " Professional Judgement

Source:

(1) Cal-EPA 2011a. Human Health Risk Assessment (HHRA) Note. Office of Human and Ecological Risk (HERO) HHRA Note Number 1. Recommended DTSC Default Exposure Factors For Use In Risk Assessment At California Hazardous Waste Sites and Permitted Facilities. Issued: May 20, 2011.

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Table A-2
Definition of Transfer Factors
Former Kast Property
Carson, California

Exposure Route	Transfer Factor	Definition
Inhalation of particulates in outdoor air	Particulate emission factor (PEF) (kg/m^3)	Ratio of chemical concentration in outdoor air (mg/m^3) to chemical concentration in soil (mg/kg)
Inhalation of vapors in outdoor air	Soil-to-outdoor air volatilization factor ($VF_{soil-OA}$ or VF_{soil}) (kg/m^3)	Ratio of chemical concentration in outdoor air (mg/m^3) to chemical concentration in soil (mg/kg)
	Soil vapor-to-outdoor air volatilization factor (VF_{SV-OA}) ($\mu g/m^3$ per $\mu g/m^3$)	Ratio of chemical concentration in outdoor air ($\mu g/m^3$) to chemical concentration in soil vapor ($\mu g/m^3$)

Table A-3a
Derivation of Particulate Emission and Volatilization Factors, Onsite Resident
Former Kast Property
Carson, California

Parameter	Value	Units	Reference
Water-filled soil porosity (θw)	1.50E-01	(Lwater-Lsoil)	USEPA 2012 RSL default
Total soil porosity (θ_T)	4.30E-01	(Lpore-Lsoil)	USEPA 2012 RSL default
Air-filled soil porosity (θa)	2.80E-01	(Lair-Lsoil)	USEPA 2012 RSL default
Soil bulk density (Pb)	1.5	g/cm^3	USEPA 2012 RSL default
Fraction organic carbon in soil (foc)	0.006	unitless	USEPA 2012 RSL default
Exposure interval ($T_{resident}$)	9.46E+08	sec	30 year exposure duration
Inverse of mean conc, $Q/C_{resident}$	68.18	(g/m^2-s per kg/m^3)	Calculated for a 0.5-acre site in Los Angeles (USEPA 2002)
Fraction of vegetative cover, $G_{resident}$	0.5	unitless	Default (USEPA 2002)
Mean annual windspeed (Um)	3.31	m/s	Average for Los Angeles, 7.4 mph (NCDC 2011)
Equivalent threshold value of windspeed at 7m (Ut)	11.32	m/s	Default (USEPA 2002)
Function dependent on Um/Ut (Fx)	4.74E-03	unitless	Los Angeles-Specific (Appendix D, Table 2 in USEPA 1996)
Particulate Emission Factor, $PEF_{resident}$	1.2E+11	(m^3/kg)	Estimated for a limited area, 0.5-acre (USEPA 2002)

Particulate Emission Factor; $PEF_{resident}$ (USEPA 2002): $PEF = [(Q/C_{resident} * 3600) / (0.036 * (1-G_{resident}) * (Um/Ut)^3 * Fx)]$

CAS Number	Chemical of Concern	Diffusivity in Air (D_{air}) (cm^2/s)	Henry's Law Constant (H') (unitless)	Diffusivity in Water (D_{water}) (cm^2/s)	Organic Carbon Partition Coefficient (K_{oc}) (cm^3/g)	Soil-Water Partition Coefficient (Kd) (cm^3/g)	Apparent Diffusivity (D_A) (cm^2/s)	Effective Diffusion Coefficient (D_{eff}) (cm^2/s)	Soil-water partition coefficient (K_{sw}) (cm^3/g)	**Onsite Resident VF_{soil} (m^3/kg)**
79-34-5	1,1,2,2-Tetrachloroethane	7.1E-02	1.4E-02	7.9E-06	9.3E+01	5.6E-01	7.8E-05	5.5E-03	6.6E-01	**1.4E+04**
96-18-4	1,2,3-Trichloropropane	7.1E-02	1.7E-02	7.9E-06	2.2E+01	1.3E-01	2.6E-04	5.5E-03	2.4E-01	**7.6E+03**
95-63-6	1,2,4-Trimethylbenzene	6.1E-02	2.5E-01	7.9E-06	1.4E+03	8.1E+00	9.6E-05	4.7E-03	8.3E+00	**1.3E+04**
78-87-5	1,2-Dichloropropane	7.8E-02	1.1E-01	8.7E-06	4.4E+01	2.6E-01	1.2E-03	6.1E-03	3.8E-01	**3.6E+03**
108-67-8	1,3,5-Trimethylbenzene	6.0E-02	2.4E-01	8.7E-06	1.4E+03	8.1E+00	9.1E-05	4.7E-03	8.3E+00	**1.3E+04**
106-46-7	1,4-Dichlorobenzene	6.9E-02	9.8E-02	7.9E-06	6.2E+02	3.7E+00	9.2E-05	5.4E-03	3.8E+00	**1.3E+04**
71-43-2	Benzene	8.8E-02	2.3E-01	9.8E-06	5.9E+01	3.5E-01	2.1E-03	6.9E-03	5.0E-01	**2.7E+03**
75-27-4	Bromodichloromethane	3.0E-02	6.5E-02	1.1E-05	5.5E+01	3.3E-01	2.3E-04	2.3E-03	4.4E-01	**8.2E+03**
74-83-9	Bromomethane	7.3E-02	2.6E-01	1.2E-05	1.1E+01	6.3E-02	4.6E-03	5.7E-03	2.1E-01	**1.8E+03**
100-41-4	Ethylbenzene	7.5E-02	3.2E-01	7.8E-06	3.6E+02	2.2E+00	5.4E-04	5.9E-03	2.3E+00	**5.3E+03**
75-09-2	Methylene chloride	1.0E-01	9.0E-02	1.2E-05	1.2E+01	7.0E-02	2.5E-03	7.9E-03	1.9E-01	**2.5E+03**
127-18-4	Tetrachloroethene	7.2E-02	7.5E-01	8.2E-06	1.6E+02	9.3E-01	2.4E-03	5.6E-03	1.2E+00	**2.5E+03**
79-01-6	Trichloroethene	7.9E-02	4.2E-01	9.1E-06	1.7E+02	1.0E+00	1.5E-03	6.2E-03	1.2E+00	**3.2E+03**
75-01-4	Vinyl chloride	1.1E-01	1.1E+00	1.2E-05	1.9E+01	1.1E-01	1.5E-02	8.3E-03	4.2E-01	**1.0E+03**

Volatilization Factor; VF_{soil}:

$$VF_{soil} = Q/C \times \left(10^{-4}\ \frac{m^2}{cm^2}\right) \times \left(\frac{1}{P_b}\right)\left(\frac{3.14 \times T_{resident} \times K_{sw} \times P_b}{4 \times D_{eff} \times H'}\right)^{1/2}$$

Table A-3b
Derivation of Particulate Emission and Volatilization Factors, Onsite Construction and Utility Maintenance Worker
Former Kast Property
Carson, California

Parameter	Value	Units	Reference
Water-filled soil porosity (θw)	1.5E-01	(Lwater-Lsoil)	USEPA 2012 RSL default
Total soil porosity (θ_T)	4.3E-01	(Lpore-Lsoil)	USEPA 2012 RSL default
Air-filled soil porosity (θa)	2.8E-01	(Lair-Lsoil)	USEPA 2012 RSL default
Soil bulk density (Pb)	1.5	g/cm^3	USEPA 2012 RSL default
Fraction organic carbon in soil (foc)	0.006	unitless	USEPA 2012 RSL default
Exposure interval (T_{CUW})	7.9E+08	sec	25 year exposure duration for the construction/utility maintenance worker
Ambient air velocity in mixing zone (U_{air})	5.1E-01	cm/s	Based on an air exchange rate of 20 hr^{-1}, wind direction parallel to the short side of the trench (3 ft or 91 cm), professional judgment
Width of source-zone area (W)	457	cm	Assume length of trench = 4.57 meters
Mixing zone height (H)	183	cm	Assume depth of trench = 1.83 meters
Width of trench (W_t)	91	cm	Assume width of trench = 0.91 meters
Source-zone area (A)	2.4E+05	cm^2	4 sidewalls and bottom area of trench
Dispersion factor for ambient air (DF_{amb})	1.7E-01	cm/s	Calculated (ASTM 2004)
Particulate Emission Factor, PEF_{CUW}	1.0E+06	(m^3/kg)	DTSC HERO HHRA Note Number 1 (Cal-EPA, 2011)

CAS Number	Chemical of Concern	Diffusivity in Air (D_{air}) (cm^2/s)	Henry's Law Constant (H') (unitless)	Diffusivity in Water (D_{water}) (cm^2/s)	Organic Carbon Partition Coefficient (K_{oc}) (cm^3/g)	Soil-Water Partition Coefficient (Kd) (cm^3/g)	Apparent Diffusivity (D_A) (cm^2/s)	Effective Diffusion Coefficient (D_{eff}) (cm^2/s)	Soil-water partition coefficient (K_{sw}) (cm^3/g)	**Construction and Utility Maintenance Worker $VF_{soil-OA}$** (m^3/kg)	**Construction and Utility Maintenance Worker VF_{SV-OA}** ($\mu g/m^3$ per $\mu g/m^3$)
71-55-6	1,1,1-Trichloroethane	7.8E-02	7.0E-01	8.8E-06	1.1E+02	6.6E-01	3.2E-03	6.1E-03	8.9E-01	--	**4.0E+04**
79-34-5	1,1,2,2-Tetrachloroethane	7.1E-02	1.4E-02	7.9E-06	9.3E+01	5.6E-01	7.8E-05	5.5E-03	6.6E-01	--	**7.0E+03**
79-00-5	1,1,2-Trichloroethane	7.8E-02	3.7E-02	8.8E-06	5.0E+01	3.0E-01	3.7E-04	6.1E-03	4.1E-01	--	**1.4E+04**
75-34-3	1,1-Dichloroethane	7.4E-02	2.3E-01	1.1E-05	3.2E+01	1.9E-01	2.7E-03	5.8E-03	3.3E-01	--	**3.9E+04**
96-18-4	1,2,3-Trichloropropane	7.1E-02	1.7E-02	7.9E-06	2.2E+01	1.3E-01	2.6E-04	5.5E-03	2.4E-01	**1.8E+02**	**1.3E+04**
120-82-1	1,2,4-Trichlorobenzene	3.0E-02	5.8E-02	8.2E-06	1.8E+03	1.1E+01	8.4E-06	2.3E-03	1.1E+01	--	**5.4E+03**
95-63-6	1,2,4-Trimethylbenzene	6.1E-02	2.5E-01	7.9E-06	1.4E+03	8.1E+00	9.6E-05	4.7E-03	8.3E+00	**3.0E+02**	**9.0E+03**
107-06-2	1,2-Dichloroethane	1.0E-01	4.0E-02	9.9E-06	1.7E+01	1.0E-01	1.0E-03	8.1E-03	2.1E-01	--	**1.7E+04**

Table A-3b
Derivation of Particulate Emission and Volatilization Factors, Onsite Construction and Utility Maintenance Worker
Former Kast Property
Carson, California

CAS Number	Chemical of Concern	Diffusivity in Air (D_{air}) (cm^2/s)	Henry's Law Constant (H') (unitless)	Diffusivity in Water (D_{water}) (cm^2/s)	Organic Carbon Partition Coefficient (K_{oc}) (cm^3/g)	Soil-Water Partition Coefficient (Kd) (cm^3/g)	Apparent Diffusivity (D_A) (cm^2/s)	Effective Diffusion Coefficient (D_{eff}) (cm^2/s)	Soil-water partition coefficient (K_{sw}) (cm^3/g)	**Construction and Utility Maintenance Worker $VF_{soil-OA}$** (m^3/kg)	**Construction and Utility Maintenance Worker VF_{SV-OA}** ($\mu g/m^3$ per $\mu g/m^3$)
78-87-5	1,2-Dichloropropane	7.8E-02	1.1E-01	8.7E-06	4.4E+01	2.6E-01	1.2E-03	6.1E-03	3.8E-01	--	**2.5E+04**
108-67-8	1,3,5-Trimethylbenzene	6.0E-02	2.4E-01	8.7E-06	1.4E+03	8.1E+00	9.1E-05	4.7E-03	8.3E+00	**3.0E+02**	**8.8E+03**
106-99-0	1,3-Butadiene	2.5E-01	3.0E+00	1.1E-05	1.9E+01	1.1E-01	5.0E-02	1.9E-02	7.8E-01	--	**5.0E+04**
106-46-7	1,4-Dichlorobenzene	6.9E-02	9.8E-02	7.9E-06	6.2E+02	3.7E+00	9.2E-05	5.4E-03	3.8E+00	--	**7.8E+03**
123-91-1	1,4-Dioxane	2.3E-01	2.3E-04	1.0E-05	1.0E+00	6.0E-03	2.6E-05	1.8E-02	1.1E-01	--	**1.2E+03**
540-84-1	2,2,4-Trimethylpentane	1.0E-01	1.8E+02	1.0E-05	1.5E+05	9.0E+02	1.0E-03	7.8E-03	9.3E+02	--	**1.8E+04**
591-78-6	2-Hexanone	7.5E-02	3.8E-03	8.4E-06	9.4E+00	5.7E-02	9.4E-05	5.8E-03	1.6E-01	--	**7.2E+03**
622-96-8	4-Ethyltoluene	6.8E-02	2.1E-01	7.3E-06	1.8E+03	1.1E+01	6.7E-05	5.3E-03	1.1E+01	--	**6.7E+03**
71-43-2	Benzene	8.8E-02	2.3E-01	9.8E-06	5.9E+01	3.5E-01	2.1E-03	6.9E-03	5.0E-01	**6.3E+01**	**2.9E+04**
75-27-4	Bromodichloromethane	3.0E-02	6.5E-02	1.1E-05	5.5E+01	3.3E-01	2.3E-04	2.3E-03	4.4E-01	--	**2.8E+04**
74-83-9	Bromomethane	7.3E-02	2.6E-01	1.2E-05	1.1E+01	6.3E-02	4.6E-03	5.7E-03	2.1E-01	--	**5.2E+04**
75-15-0	Carbon disulfide	1.0E-01	1.2E+00	1.0E-05	4.6E+01	2.7E-01	1.1E-02	8.1E-03	6.1E-01	--	**5.6E+04**
56-23-5	Carbon tetrachloride	7.8E-02	1.2E+00	8.8E-06	1.7E+02	1.0E+00	3.6E-03	6.1E-03	1.4E+00	--	**4.3E+04**
67-66-3	Chloroform	1.0E-01	1.5E-01	1.0E-05	4.0E+01	2.4E-01	2.2E-03	8.1E-03	3.7E-01	--	**2.5E+04**
74-87-3	Chloromethane	1.3E-01	3.6E-01	6.5E-06	2.1E+00	1.3E-02	1.3E-02	9.8E-03	1.8E-01	--	**5.1E+04**
110-82-7	Cyclohexane	7.4E-02	7.9E+00	8.5E-06	1.7E+02	9.9E-01	1.2E-02	5.7E-03	2.6E+00	--	**8.2E+04**
124-48-1	Dibromochloromethane	2.0E-02	3.2E-02	1.1E-05	6.3E+01	3.8E-01	6.7E-05	1.5E-03	4.8E-01	--	**2.3E+04**
156-59-2	Dichloroethene, cis-1,2-	7.4E-02	1.7E-01	1.1E-05	3.6E+01	2.1E-01	1.8E-03	5.7E-03	3.4E-01	--	**3.3E+04**
156-60-5	Dichloroethene, trans-1,2-	7.1E-02	3.8E-01	1.2E-05	5.3E+01	3.2E-01	2.9E-03	5.5E-03	4.9E-01	--	**4.2E+04**
10061-02-6	Dichloropropene, trans-1,3-	6.3E-02	7.2E-01	1.0E-05	4.6E+01	2.7E-01	4.6E-03	4.9E-03	5.1E-01	--	**6.1E+04**
64-17-5	Ethanol	1.5E-01	1.9E-04	1.6E-05	1.0E+00	6.0E-03	1.5E-05	1.3E-02	1.1E-01	--	**1.3E+03**
100-41-4	Ethylbenzene	7.5E-02	3.2E-01	7.8E-06	3.6E+02	2.2E+00	5.4E-04	5.9E-03	2.3E+00	**1.2E+02**	**1.7E+04**
142-82-5	Heptane	9.3E-02	8.2E+01	7.6E-06	2.7E+02	1.6E+00	2.3E-02	7.2E-03	1.7E+01	--	**9.2E+04**
87-68-3	Hexachloro-1,3-butadiene	5.6E-02	3.3E-01	6.2E-06	5.4E+04	3.2E+02	3.0E-06	4.4E-03	3.2E+02	--	**1.7E+03**
110-54-3	Hexane	2.0E-01	6.8E+01	7.8E-06	4.3E+01	2.6E-01	5.4E-02	1.6E-02	1.3E+01	--	**6.5E+04**
67-63-0	Isopropanol	8.0E-02	3.6E-04	9.3E-06	6.9E+00	4.2E-02	1.1E-05	6.5E-03	1.4E-01	--	**2.2E+03**

Table A-3b
Derivation of Particulate Emission and Volatilization Factors, Onsite Construction and Utility Maintenance Worker
Former Kast Property
Carson, California

CAS Number	Chemical of Concern	Diffusivity in Air (D_{air}) (cm^2/s)	Henry's Law Constant (H') (unitless)	Diffusivity in Water (D_{water}) (cm^2/s)	Organic Carbon Partition Coefficient (K_{oc}) (cm^3/g)	Soil-Water Partition Coefficient (Kd) (cm^3/g)	Apparent Diffusivity (D_A) (cm^2/s)	Effective Diffusion Coefficient (D_{eff}) (cm^2/s)	Soil-water partition coefficient (K_{sw}) (cm^3/g)	**Construction and Utility Maintenance Worker $VF_{soil-OA}$** (m^3/kg)	**Construction and Utility Maintenance Worker VF_{SV-OA}** ($\mu g/m^3$ per $\mu g/m^3$)
98-82-8	Isopropylbenzene (cumene)	6.5E-02	4.7E+01	7.1E-06	4.9E+02	2.9E+00	1.3E-02	5.1E-03	1.2E+01	--	**1.0E+05**
78-93-3	Methyl ethyl ketone (2-butanone)	8.1E-02	2.3E-03	9.8E-06	2.3E+00	1.4E-02	8.4E-05	6.3E-03	1.1E-01	--	**6.3E+03**
75-09-2	Methylene chloride	1.0E-01	9.0E-02	1.2E-05	1.2E+01	7.0E-02	2.5E-03	7.9E-03	1.9E-01	--	**2.8E+04**
1634-04-4	Methyl-tert-butyl ether	1.0E-01	2.6E-02	1.1E-05	7.3E+00	4.4E-02	9.1E-04	8.0E-03	1.5E-01	--	**1.6E+04**
103-65-1	Propylbenzene	6.0E-02	4.4E-01	7.8E-06	5.6E+02	3.4E+00	3.8E-04	4.7E-03	3.6E+00	--	**1.8E+04**
75-65-0	tert-Butyl Alcohol (TBA)	8.5E-02	3.0E-03	9.1E-06	4.2E+00	2.5E-02	1.1E-04	6.7E-03	1.3E-01	--	**6.7E+03**
127-18-4	Tetrachloroethene	7.2E-02	7.5E-01	8.2E-06	1.6E+02	9.3E-01	2.4E-03	5.6E-03	1.2E+00	--	**3.8E+04**
109-99-9	Tetrahydrofuran	9.8E-02	2.9E-03	1.1E-05	9.5E-01	5.7E-03	1.4E-04	7.7E-03	1.1E-01	--	**6.7E+03**
108-88-3	Toluene	8.7E-02	2.7E-01	8.6E-06	1.8E+02	1.1E+00	9.8E-04	6.8E-03	1.2E+00	--	**2.0E+04**
79-01-6	Trichloroethene	7.9E-02	4.2E-01	9.1E-06	1.7E+02	1.0E+00	1.5E-03	6.2E-03	1.2E+00	--	**2.7E+04**
75-01-4	Vinyl chloride	1.1E-01	1.1E+00	1.2E-05	1.9E+01	1.1E-01	1.5E-02	8.3E-03	4.2E-01	--	**6.3E+04**
108-38-3	Xylene, m-	7.0E-02	3.0E-01	7.8E-06	4.1E+02	2.4E+00	4.2E-04	5.5E-03	2.6E+00	--	**1.6E+04**
95-47-6	Xylene, o-	8.7E-02	2.1E-01	1.0E-05	3.6E+02	2.2E+00	4.1E-04	6.8E-03	2.3E+00	--	**1.3E+04**
106-42-3	Xylene, p-	7.7E-02	3.1E-01	8.4E-06	3.9E+02	2.3E+00	5.0E-04	6.0E-03	2.5E+00	--	**1.6E+04**
1330-20-7	Xylenes, total	8.5E-02	2.7E-01	9.9E-06	4.4E+02	2.7E+00	4.2E-04	6.6E-03	2.8E+00	**1.4E+02**	**1.4E+04**
91-20-3	Naphthalene	5.9E-02	2.0E-02	7.5E-06	2.0E+03	1.2E+01	5.0E-06	4.6E-03	1.2E+01	--	**2.1E+03**

Note:

--: Not selected as COC for this medium.

Volatilization Factor:

$$VF_{soil\text{-}OA} = \frac{DF_{amb}}{Pb} \times \left[\frac{(3.14 \times T_{CUW} \times K_{sw} \times Pb)}{(4 \times D_{eff} \times H')} \right]^{1/2} \times CF_1 \times CF_2 \quad \text{and} \quad VF_{SV\text{-}OA} = VF_{soil\text{-}OA} \times \frac{H'}{K_{sw}} \times (CF_1 \times CF_2)$$

Table A-4
Chronic Toxicity Criteria

CAS Number	Chemical of Concern	Dermal ABS^	GI ABS^	Cancer Toxicity Criteria					Noncancer Toxicity Criteria				
				Oral Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	Source	Dermal Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	Inhalation Unit Risk $(\mu g/m^3)^{-1}$	Source	Oral RfD (mg/kg-day)	Dermal RfD (mg/kg-day)	Source	Inhalation RfC or REL (mg/m^3)	Source
	Inorganics												
7440-36-0	Antimony	NA	0.15	NC		NC	NC		4.0E-04	6.0E-05	I	NA	
7440-38-2	Arsenic	0.03	1	9.5E+00	C	9.5E+00	3.3E-03	C	3.0E-04	3.0E-04	I	1.5E-05	C
7440-43-9	Cadmium	0.001	0.025	NC		NC	4.2E-03	C	1.0E-03	2.5E-05	I	2.0E-05	C
18540-29-9	Chromium, hexavalent	NA	0.025	5.0E-01	J	NC	1.5E-01	C	3.0E-03	7.5E-05	I	1.0E-04	I
7440-48-4	Cobalt	NA	1	NC		NC	9.0E-03	P	3.0E-04	3.0E-04	P	6.0E-06	P
7440-50-8	Copper	NA	1	NC		NC	NC		4.0E-02	4.0E-02	H	NA	
7439-92-1	Lead	NA	1	NC		NC	NC		NA	NA		NA	
7440-28-0	Thallium	NA	1	NC		NC	NC		1.0E-05	1.0E-05	X	NA	
7440-62-2	Vanadium	NA	1	NC		NC	NC		5.0E-03	5.0E-03	S	1.0E-04	A
7440-66-6	Zinc	NA	1	NC		NC	NC		3.0E-01	3.0E-01	I	NA	
	PAHs												
56-55-3	Benzo (a) anthracene	0.13	1	2.9E-01	C*	2.9E-01	1.1E-04	C	NA	NA		NA	
50-32-8	Benzo (a) pyrene	0.13	1	2.9E+00	C*	2.9E+00	1.1E-03	C	NA	NA		NA	
205-99-2	Benzo (b) fluoranthene	0.13	1	2.9E-01	C*	2.9E-01	1.1E-04	C	NA	NA		NA	
207-08-9	Benzo (k) fluoranthene	0.13	1	2.9E-01	C*	2.9E-01	1.1E-04	C	NA	NA		NA	
218-01-9	Chrysene	0.13	1	2.9E-02	C*	2.9E-02	1.1E-05	C	NA	NA		NA	
53-70-3	Dibenz (a,h) anthracene	0.13	1	4.1E+00	C	4.1E+00	1.2E-03	C	NA	NA		NA	
193-39-5	Indeno (1,2,3-cd) pyrene	0.13	1	2.9E-01	C*	2.9E-01	1.1E-04	C	NA	NA		NA	
90-12-0	Methylnaphthalene, 1-	0.13	1	2.9E-02	P	2.9E-02	NC		7.0E-02	7.0E-02	A	NA	
91-57-6	Methylnaphthalene, 2-	0.13	1	NC		NC	NC		4.0E-03	4.0E-03	I	NA	
91-20-3	Naphthalene	0.13	1	NC		NC	3.4E-05	C	2.0E-02	2.0E-02	I	3.0E-03	I
129-00-0	Pyrene	0.13	1	NC		NC	NC		3.0E-02	3.0E-02	I	1.1E-01	R
	TPH												
	TPH Aliphatic: C5-C8	0.13	1	NC		NC	NC		4.0E-02	4.0E-02	B	7.0E-01	B
	TPH Aliphatic: C9-C18	0.13	1	NC		NC	NC		1.0E-01	1.0E-01	B	3.0E-01	B
	TPH Aliphatic: C19-C32	0.13	1	NC		NC	NC		2.0E+00	2.0E+00	B	--	B
	TPH Aromatic: C6-C8	0.13	1	NC		NC	NC		--	--	B	--	B
	TPH Aromatic: C9-C16	0.13	1	NC		NC	NC		3.0E-02	3.0E-02	B	5.0E-02	B
	TPH Aromatic: C17-C32	0.13	1	NC		NC	NC		3.0E-02	3.0E-02	B	--	B
	SVOCs												
121-14-2	2,4-Dinitrotoluene	0.102	1	3.1E-01	C	3.1E-01	8.9E-05	C	2.0E-03	2.0E-03	I	7.0E-03	R
117-81-7	Bis(2-Ethylhexyl) Phthalate	0.1	1	1.4E-02	I	1.4E-02	2.4E-06	C	2.0E-02	2.0E-02	I	7.0E-02	R

Table A-4

Chronic Toxicity Criteria

CAS Number	Chemical of Concern	Dermal ABS^	GI ABS^	Cancer Toxicity Criteria					Noncancer Toxicity Criteria				
				Oral Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	Source	Dermal Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	Inhalation Unit Risk $(\mu g/m^3)^{-1}$	Source	Oral RfD (mg/kg-day)	Dermal RfD (mg/kg-day)	Source	Inhalation RfC or REL (mg/m^3)	Source
	VOCs												
71-55-6	1,1,1-Trichloroethane	NA	1	NC		NC	NC		2.0E+00	2.0E+00	I	5.0E+00	I
79-34-5	1,1,2,2-Tetrachloroethane	NA	1	2.7E-01	C	2.7E-01	5.8E-05	C	2.0E-02	2.0E-02	I	7.0E-02	R
79-00-5	1,1,2-Trichloroethane	NA	1	7.2E-02	C	7.2E-02	1.6E-05	C	4.0E-03	4.0E-03	I	2.0E-04	X
75-34-3	1,1-Dichloroethane	NA	1	5.7E-03	C	5.7E-03	1.6E-06	C	2.0E-01	2.0E-01	P	7.0E-01	R
96-18-4	1,2,3-Trichloropropane	NA	1	3.0E+01	I	3.0E+01	NC		4.0E-03	4.0E-03	I	3.0E-04	I
120-82-1	1,2,4-Trichlorobenzene	NA	1	3.6E-03	C	3.6E-03	NC		1.0E-02	1.0E-02	I	2.0E-03	P
95-63-6	1,2,4-Trimethylbenzene	NA	1	NC		NC	NC		1.0E-02	1.0E-02	X	7.0E-03	P
107-06-2	1,2-Dichloroethane	NA	1	4.7E-02	C	4.7E-02	2.1E-05	C	6.0E-03	6.0E-03	X	7.0E-03	P
78-87-5	1,2-Dichloropropane	NA	1	3.6E-02	C	3.6E-02	1.0E-05	C	9.0E-02	9.0E-02	A	4.0E-03	I
108-67-8	1,3,5-Trimethylbenzene	NA	1	NC		NC	NC		1.0E-02	1.0E-02	X	7.0E-03	P
106-99-0	1,3-Butadiene	NA	1	3.4E+00	C	3.4E+00	1.7E-04	C	5.7E-04	5.7E-04	R	2.0E-03	I
106-46-7	1,4-Dichlorobenzene	NA	1	5.4E-03	C	5.4E-03	1.1E-05	C	7.0E-02	7.0E-02	A	8.0E-01	C
123-91-1	1,4-Dioxane	0.1	1	2.7E-02	C	2.7E-02	7.7E-06	C	3.0E-02	3.0E-02	I	3.0E+00	C
540-84-1	2,2,4-Trimethylpentane	NA	1	NC		NC	NC		NA	NA		1.0E+00	D
591-78-6	2-Hexanone	NA	1	NC		NC	NC		5.0E-03	5.0E-03	I	3.0E-02	I
622-96-8	4-Ethyltoluene*	NA	1	NC		NC	NC		2.0E-01	2.0E-01	S	1.0E-01	S
71-43-2	Benzene	NA	1	1.0E-01	C	1.0E-01	2.9E-05	C	4.0E-03	4.0E-03	I	3.0E-02	I
75-27-4	Bromodichloromethane	NA	1	1.3E-01	C	1.3E-01	3.7E-05	C	2.0E-02	2.0E-02	I	7.0E-02	R
74-83-9	Bromomethane	NA	1	NC		NC	NC		1.4E-03	1.4E-03	I	5.0E-03	C
75-15-0	Carbon disulfide	NA	1	NC		NC	NC		1.0E-01	1.0E-01	I	7.0E-01	I
56-23-5	Carbon tetrachloride	NA	1	1.5E-01	C	1.5E-01	4.2E-05	C	4.0E-03	4.0E-03	I	1.0E-01	I
67-66-3	Chloroform	NA	1	3.1E-02	C	3.1E-02	5.3E-06	C	1.0E-02	1.0E-02	I	9.8E-02	A
74-87-3	Chloromethane	NA	1	NC		NC	NC		2.6E-02	2.6E-02	R	9.0E-02	I
110-82-7	Cyclohexane	NA	1	NC		NC	NC		1.7E+00	1.7E+00	R	6.0E+00	I
124-48-1	Dibromochloromethane	0.1	1	9.4E-02	C	9.4E-02	2.7E-05	C	2.0E-02	2.0E-02	I	7.0E-02	R
156-59-2	Dichloroethene, cis-1,2-	NA	1	NC		NC	NC		2.0E-03	2.0E-03	I	7.0E-03	R
156-60-5	Dichloroethene, trans-1,2-	NA	1	NC		NC	NC		2.0E-02	2.0E-02	I	6.0E-02	P
10061-02-6	Dichloropropene, trans-1,3-*	NA	1	9.1E-02	C	9.1E-02	1.6E-05	C	3.0E-02	3.0E-02	I	2.0E-02	I
64-17-5	Ethanol*	NA	1	NC		NC	NC		5.0E-01	5.0E-01	I	4.0E+00	C
100-41-4	Ethylbenzene	NA	1	1.1E-02	C	1.1E-02	2.5E-06	C	1.0E-01	1.0E-01	I	1.0E+00	I
142-82-5	Heptane*	NA	1	NC		NC	NC		6.0E-02	6.0E-02	H	7.0E-01	I
87-68-3	Hexachloro-1,3-butadiene	0.1	1	7.8E-02	I	7.8E-02	2.2E-05	I	1.0E-03	1.0E-03	P	3.5E-03	R

Table A-4

Chronic Toxicity Criteria

CAS Number	Chemical of Concern	Dermal ABS^	GI ABS^	Cancer Toxicity Criteria					Noncancer Toxicity Criteria				
				Oral Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	Source	Dermal Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	Inhalation Unit Risk $(\mu g/m^3)^{-1}$	Source	Oral RfD (mg/kg-day)	Dermal RfD (mg/kg-day)	Source	Inhalation RfC or REL (mg/m^3)	Source
110-54-3	Hexane	NA	1	NC		NC	NC		6.0E-02	6.0E-02	H	7.0E-01	I
67-63-0	Isopropanol	0.1	1	NC		NC	NC		NA	NA		7.0E+00	C
98-82-8	Isopropylbenzene (cumene)	NA	1	NC		NC	NC		1.0E-01	1.0E-01	I	4.0E-01	I
78-93-3	Methyl ethyl ketone (2-butanone)	NA	1	NC		NC	NC		6.0E-01	6.0E-01	I	5.0E+00	I
75-09-2	Methylene chloride	NA	1	1.4E-02	C	1.4E-02	1.0E-06	C	6.0E-03	6.0E-03	I	6.0E-01	I
1634-04-4	Methyl-tert-butyl ether	NA	1	1.8E-03	C	1.8E-03	2.6E-07	C	8.6E-01	8.6E-01	R	3.0E+00	I
103-65-1	Propylbenzene	0.1	1	NC		NC	NC		1.0E-01	1.0E-01	X	1.0E+00	X
75-65-0	tert-Butyl Alcohol (TBA)*	0.1	1	NC		NC	NC		3.0E-01	3.0E-01	I	1.1E+00	R
127-18-4	Tetrachloroethene	NA	1	5.4E-01	C	5.4E-01	5.9E-06	C	6.0E-03	6.0E-03	I	4.0E-02	I
109-99-9	Tetrahydrofuran	0.1	1	NC		NC	NC		9.0E-01	9.0E-01	I	2.0E+00	I
108-88-3	Toluene	NA	1	NC		NC	NC		8.0E-02	8.0E-02	I	5.0E+00	I
79-01-6	Trichloroethene	NA	1	4.6E-02	I	4.6E-02	4.1E-06	I	5.0E-04	5.0E-04	I	2.0E-03	I
75-01-4	Vinyl chloride	NA	1	2.7E-01	C	2.7E-01	7.8E-05	C	3.0E-03	3.0E-03	I	1.0E-01	I
108-38-3	Xylene, m-	NA	1	NC		NC	NC		2.0E-01	2.0E-01	S	1.0E-01	S
95-47-6	Xylene, o-	NA	1	NC		NC	NC		2.0E-01	2.0E-01	S	1.0E-01	S
106-42-3	Xylene, p-	NA	1	NC		NC	NC		2.0E-01	2.0E-01	S	1.0E-01	S

Notes:

" NA " not available; " -- " not applicable; " NC " not considered a carcinogen; " ABS " absorption; " GI " gastrointestinal; " PAH " Polycyclic Aromatic Hydrocarbons; " RfD " reference dose; " RfC " reference concentration; " REL " reference exposure level

Surrogates: * p-Xylene for 4-Ethyltoluene; Hexane for Heptane; Isobutyl alcohol for tert-Butyl Alcohol; 1,3-Dichloropropene for trans-1,3-Dichloropropene; Methanol for Ethanol

^ Source of Dermal ABS and GI ABS: USEPA 2013b. Regional Screening Levels for Chemical Contaminants at Superfund Sites. May. http://www.epa.gov/region9/superfund//prg/index.html

Key:

C* = Cal-EPA 2010

C = Cal-EPA 2013

A = Agency For Toxic Substances And Disease Registry (ATSDR) as reported in USEPA 2013b

B = Cal-EPA 2009. Interim Guidance: Evaluating Human Health Risks from Total Petroleum Hydrocarbons.

D = TPHCWG, 1997. Develoment of Fraction Specific Reference Doses (RfDs) and Reference Concentrations (RfCs) for TPH

H = Health Effects Assessment Summary Tables (HEAST). July. EPA 540/R-97-036-PB97-921199 as reported in USEPA 2013b

I = Integrated Risk Information System Database, IRIS in USEPA 2013a

J = New Jersey; reported in USEPA 2013b

P = Provisional Peer Reviewed Toxicity Value (PPRTV) as reported in USEPA 2013b

R = route-to-route extrapolation

S = reported in USEPA 2013b

X = PPRTV Appendix; reported in USEPA 2013b

Table A-5
Exposure Concentration for Outdoor Inhalation of Particulates/Vapors from Soil
Former Kast Property
Carson, California

(1) Exposure Concentration Equations

a) Noncarcinogenic Chemicals

$$EC_{inh,soil} = \frac{EF \times ED \times ET}{AT_{NC} \times \left(VF_{soil} \text{ or } VF_{soil\text{-}OA}\right)}$$

b) Carcinogenic Chemicals – Onsite Resident

$$EC_{inh,soil} = \left[\frac{EF \times ED \times ET}{AT_C \times VF_{soil}}\right]_{CHILD} + \left[\frac{EF \times ED \times ET}{AT_C \times VF_{soil}}\right]_{ADULT}$$

c) Carcinogenic Chemicals – Construction and Utility Maintenance Worker

$$EC_{inh,soil} = \frac{EF \times ED \times ET}{AT_C \times VF_{soil\text{-}OA}}$$

(2) Explanation of Variables

Variable	Description	Units
$EC_{inh,soil}$	Exposure concentration outdoor inhalation of chemicals from soil	mg/m^3 per mg/kg
PEF	Particulate emission factor for non-VOCs	m^3/kg
VF_{soil}	Volatilization factor, onsite resident	mg/m^3 per mg/kg
$VF_{soil\text{-}OA}$	Volatilization factor for VOCs, construction and utility maintenance worker	mg/m^3 per mg/kg
EF	Exposure frequency	day/yr
ED	Exposure duration	yr
ET	Exposure time	hour/hour
AT_C	Averaging time – cancer effects	day
AT_{NC}	Averaging time – noncancer effects	day

Table A-6
Exposure Concentration for Outdoor Inhalation from Soil Vapor
Former Kast Property
Carson, California

(1) Exposure Concentration Equations

a) Noncarcinogenic Chemicals – Construction and Utility Maintenance Worker

$$EC_{SV\text{-}OA} = \frac{EF \times ED \times ET}{AT_{NC} \times CF \times VF_{SV\text{-}OA}}$$

b) Carcinogenic Chemicals – Construction and Utility Maintenance Worker

$$EC_{SV\text{-}OA} = \frac{EF \times ED \times ET}{AT_{C} \times CF \times VF_{SV\text{-}OA}}$$

(2) Explanation of Variables

Variable	Description	Units
$EC_{SV\text{-}OA}$	Exposure concentration for outdoor inhalation of chemicals from soil vapor	mg/m^3 per mg/m^3
$VF_{SV\text{-}OA}$	Volatilization factor	$\mu g/m^3$ per $\mu g/m^3$
EF	Exposure frequency	day/yr
ED	Exposure duration	yr
ET	Exposure time	hour/hour
CF	Units conversion factor	µg/mg
AT_C	Averaging time – cancer effects	day
AT_{NC}	Averaging time – noncancer effects	day

Table A-7
Exposure Concentration for Indoor Inhalation from Sub-Slab Soil Vapor
Former Kast Property
Carson, California

(1) Exposure Concentration Equations

a) Noncarcinogenic Chemicals – Onsite Resident

$$EC_{SS\text{-}SV\text{-}IA} = \frac{EF \times ED \times ET}{AT_{NC}}$$

b) Carcinogenic Chemicals – Onsite Resident

$$EC_{SS\text{-}SV\text{-}IA} = \frac{EF \times ED \times ET}{AT_{C}}$$

(2) Explanation of Variables

Variable	Description	Units
$EC_{SS\text{-}SV\text{-}IA}$	Exposure concentration for indoor inhalation of chemicals (sub-slab soil vapor into indoor air)	mg/m^3 per mg/m^3
EF	Exposure frequency	day/yr
ED	Exposure duration	yr
ET	Exposure time	hour/hour
AT_C	Averaging time – cancer effects	day
AT_{NC}	Averaging time – noncancer effects	day

Table A-8
Intake Factor for Dermal Contact with Soil
Former Kast Property
Carson, California

(1) Intake Factor Equations

a) Noncarcinogenic Chemicals

$$IF_{dermal} = \frac{SA \times AF \times ABS \times CF \times EF \times ED}{BW \times AT_{NC}}$$

b) Carcinogenic Chemicals – Onsite Resident

$$IF_{dermal} = \left[\frac{SA \times AF \times ABS \times CF \times EF \times ED}{BW \times AT_{C}}\right]_{CHILD} + \left[\frac{SA \times AF \times ABS \times CF \times EF \times ED}{BW \times AT_{C}}\right]_{ADULT}$$

c) Carcinogenic Chemicals – Construction and Utility Maintenance Worker

$$IF_{dermal} = \frac{SA \times AF \times ABS \times CF \times EF \times ED}{BW \times AT_{C}}$$

(2) Explanation of Variables

Variable	Description	Units
IF_{dermal}	Intake factor for dermal contact with soil	kg soil / kg body weight per day
SA	Surface area of exposed skin	cm^2/day
AF	Soil-to-skin adherence factor	mg/cm^2
ABS	Absorption factor	–
CF	Units conversion factor	kg/mg
EF	Exposure frequency	day/yr
ED	Exposure duration	yr
BW	Body weight	kg
AT_C	Averaging time – cancer effects	day
AT_{NC}	Averaging time – noncancer effects	day

Table A-9
Intake Factor for Incidental Soil Ingestion
Former Kast Property
Carson, California

(1) Intake Factor Equations

a) Noncarcinogenic Chemicals

$$IF_{oral} = \frac{IR \times CF \times EF \times ED}{BW \times AT_{NC}}$$

b) Carcinogenic Chemicals – Onsite Resident

$$IF_{oral} = \left[\frac{IR \times CF \times EF \times ED}{BW \times AT_{C}}\right]_{CHILD} + \left[\frac{IR \times CF \times EF \times ED}{BW \times AT_{C}}\right]_{ADULT}$$

c) Carcinogenic Chemicals – Construction and Utility Maintenance Worker

$$IF_{oral} = \frac{IR \times CF \times EF \times ED}{BW \times AT_{C}}$$

(2) Explanation of Variables

Variable	Description	Units
IF_{oral}	Intake factor for soil ingestion	kg soil / kg body weight per day
IR	Ingestion rate of soil	mg/day
CF	Units conversion factor	kg/mg
EF	Exposure frequency	day/yr
ED	Exposure duration	yr
BW	Body weight	kg
AT_C	Averaging time – cancer effects	day
AT_{NC}	Averaging time – noncancer effects	day

Table A-10
Site-Specific Cleanup Goals for Soil, Onsite Resident

Chemical of Concern	CAS Number	Onsite Resident			
		Soil (mg/kg)			
		EF = 350 d/y*		EF = 4 d/y*	
		$SSCG_{nc}$	$SSCG_c$	$SSCG_{nc}$	$SSCG_c$
Inorganics					
Antimony	7440-36-0	3.1E+01	--	2.7E+03	--
Arsenic	7440-38-2	2.2E+01	6.1E-02	1.9E+03	5.4E+00
Cadmium	7440-43-9	7.0E+01	6.7E+04	6.2E+03	5.8E+06
Chromium VI	18540-29-9	2.3E+02	1.3E+00	2.1E+04	1.1E+02
Cobalt	7440-48-4	2.3E+01	3.1E+04	2.1E+03	2.7E+06
Copper	7440-50-8	3.1E+03	--	2.7E+05	--
Lead	7439-92-1	8.0E+01[(a)]	--	8.2E+02[(b)]	--
Thallium	7440-28-0	7.8E-01	--	6.8E+01	--
Vanadium	7440-62-2	3.9E+02	--	3.4E+04	--
Zinc	7440-66-6	2.3E+04	--	2.1E+06	--
PAHs					
Benz[a]anthracene	56-55-3	--	1.6E+00	--	1.4E+02
Benzo[a]pyrene	50-32-8	--	1.6E-01	--	1.4E+01
Benzo[b]fluoranthene	205-99-2	--	1.6E+00	--	1.4E+02
Benzo[k]fluoranthene	207-08-9	--	1.6E+00	--	1.4E+02
Chrysene	218-01-9	--	1.6E+01	--	1.4E+03
Dibenz[a,h]anthracene	53-70-3	--	1.1E-01	--	9.7E+00
Indeno[1,2,3-cd]pyrene	193-39-5	--	1.6E+00	--	1.4E+02
Methylnaphthalene, 1-	90-12-0	4.0E+03	1.6E+01	3.5E+05	1.4E+03
Methylnaphthalene, 2-	91-57-6	2.3E+02	--	2.0E+04	--
Naphthalene	91-20-3	1.5E+02	4.0E+00	1.3E+04	3.5E+02
Pyrene	129-00-0	1.7E+03	--	1.5E+05	--
TPH					
Aliphatic: C_5-C_8		7.1E+02	--	6.2E+04	--
Aliphatic: C_9-C_{18}		1.4E+03	--	1.3E+05	--
Aliphatic: C_{19}-C_{32}		1.1E+05	--	1.0E+07	--
Aromatic: C_6-C_8		--	--	--	--
Aromatic: C_9-C_{16}		6.0E+02	--	5.3E+04	--
Aromatic: C_{17}-C_{32}		1.7E+03	--	1.5E+05	--
TPHg		7.6E+02	--	6.6E+04	--
TPHd		1.3E+03	--	1.1E+05	--
TPHmo		3.3E+03	--	2.9E+05	--
SVOCs					
2,4-Dinitrotoluene	121-14-2	1.2E+02	1.6E+00	1.1E+04	1.4E+02
Bis(2-Ethylhexyl) Phthalate	117-81-7	1.2E+03	3.5E+01	1.1E+05	3.0E+03
VOCs					
1,1,2,2-Tetrachloroethane	79-34-5	6.2E+02	4.7E-01	5.4E+04	4.1E+01
1,2,3-Trichloropropane	96-18-4	2.4E+00	2.1E-02	2.1E+02	1.9E+00
1,2,4-Trimethylbenzene	95-63-6	8.3E+01	--	7.2E+03	--
1,2-Dichloropropane	78-87-5	1.5E+01	8.3E-01	1.3E+03	7.2E+01
1,3,5-Trimethylbenzene	108-67-8	8.5E+01	--	7.4E+03	--

Table A-10

Site-Specific Cleanup Goals for Soil, Onsite Resident

Chemical of Concern	CAS Number	Onsite Resident			
		Soil (mg/kg)			
		EF = 350 d/y*		EF = 4 d/y*	
		$SSCG_{nc}$	$SSCG_c$	$SSCG_{nc}$	$SSCG_c$
1,4-Dichlorobenzene	106-46-7	3.6E+03	2.8E+00	3.2E+05	2.4E+02
Benzene	71-43-2	6.7E+01	2.2E-01	5.8E+03	1.9E+01
Bromodichloromethane	75-27-4	4.3E+02	4.9E-01	3.8E+04	4.2E+01
Bromomethane	74-83-9	8.8E+00	--	7.7E+02	--
Ethylbenzene	100-41-4	3.3E+03	4.8E+00	2.9E+05	4.2E+02
Methylene chloride	75-09-2	3.6E+02	5.3E+00	3.2E+04	4.7E+02
Tetrachloroethene	127-18-4	8.6E+01	5.5E-01	7.5E+03	4.9E+01
Trichloroethene	79-01-6	5.8E+00	1.2E+00	5.0E+02	1.0E+02
Vinyl chloride	75-01-4	7.4E+01	3.2E-02	6.4E+03	2.8E+00

Notes:

" -- " not applicable; " na " not available

* EF: exposure frequency; 350 days/year (d/y) for a typical resident and 4 days/year for a resident who infrequently contacts subsurface soils.

" $SSCG_{nc}$ " Site-Specific cleanup goal using a target noncancer hazard = 1

" $SSCG_c$ " Site-Specific cleanup goal using a target cancer risk = 1×10^{-6} for residents

Soil SSCGs based on incidental ingestion, dermal contact with soil, and outdoor air inhalation

[(a)] Cal-EPA 2009b. Revised California Human Health Screening Levels for Lead. September 2009.

[(b)] Based on USEPA adult lead model, similar parameters used for the residential CHHSL, and a lower exposure frequency.

Table A-11
Site-Specific Cleanup Goals for Sub-Slab Soil Vapor, Onsite Resident
Former Kast Property
Carson, California

Chemical of Concern	CAS Number	Onsite Resident	
		Sub-Slab Soil Vapor (µg/m^3)	
		$SSCG_{nc}$	$SSCG_c$
VOCs			
1,1,1-Trichloroethane	71-55-6	5.2E+06	--
1,1,2,2-Tetrachloroethane	79-34-5	7.3E+04	4.2E+01
1,1,2-Trichloroethane	79-00-5	2.1E+02	1.5E+02
1,1-Dichloroethane	75-34-3	7.3E+05	1.5E+03
1,2,4-Trichlorobenzene	120-82-1	2.1E+03	--
1,2,4-Trimethylbenzene	95-63-6	7.3E+03	--
1,2-Dichloroethane	107-06-2	7.3E+03	1.2E+02
1,2-Dichloropropane	78-87-5	4.2E+03	2.4E+02
1,3,5-Trimethylbenzene	108-67-8	7.3E+03	--
1,3-Butadiene	106-99-0	2.1E+03	1.4E+01
1,4-Dichlorobenzene	106-46-7	8.3E+05	2.2E+02
1,4-Dioxane	123-91-1	3.1E+06	3.2E+02
2,2,4-Trimethylpentane	540-84-1	1.0E+06	--
2-Hexanone	591-78-6	3.1E+04	--
4-Ethyltoluene	622-96-8	1.0E+05	--
Benzene	71-43-2	3.1E+04	8.4E+01
Bromodichloromethane	75-27-4	7.3E+04	6.6E+01
Bromomethane	74-83-9	5.2E+03	--
Carbon disulfide	75-15-0	7.3E+05	--
Carbon tetrachloride	56-23-5	1.0E+05	5.8E+01
Chloroform	67-66-3	1.0E+05	4.6E+02
Chloromethane	74-87-3	9.4E+04	--
Cyclohexane	110-82-7	6.3E+06	--
Dibromochloromethane	124-48-1	7.3E+04	9.0E+01
Dichloroethene, cis-1,2-	156-59-2	7.3E+03	--
Dichloroethene, trans-1,2-	156-60-5	6.3E+04	--
Dichloropropene, trans-1,3-	10061-02-6	2.1E+04	1.5E+02
Ethanol	64-17-5	4.2E+06	--
Ethylbenzene	100-41-4	1.0E+06	9.7E+02
Heptane	142-82-5	7.3E+05	--
Hexachloro-1,3-butadiene	87-68-3	3.7E+03	1.1E+02
Hexane	110-54-3	7.3E+05	--
Isopropanol	67-63-0	7.3E+06	--
Isopropylbenzene (cumene)	98-82-8	4.2E+05	--
Methyl ethyl ketone (2-butanone)	78-93-3	5.2E+06	--
Methylene chloride	75-09-2	6.3E+05	2.4E+03
Methyl-tert-butyl ether	1634-04-4	3.1E+06	9.4E+03
Naphthalene	91-20-3	3.1E+03	7.2E+01
Propylbenzene	103-65-1	1.0E+06	--

Table A-11
Site-Specific Cleanup Goals for Sub-Slab Soil Vapor, Onsite Resident
Former Kast Property
Carson, California

Chemical of Concern	CAS Number	Onsite Resident	
		Sub-Slab Soil Vapor (µg/m^3)	
		$SSCG_{nc}$	$SSCG_c$
tert-Butyl Alcohol (TBA)	75-65-0	1.1E+06	--
Tetrachloroethene	127-18-4	4.2E+04	4.1E+02
Tetrahydrofuran	109-99-9	2.1E+06	--
Toluene	108-88-3	5.2E+06	--
Trichloroethene	79-01-6	2.1E+03	4.3E+02
Vinyl chloride	75-01-4	1.0E+05	3.1E+01
Xylene, m-	108-38-3	1.0E+05	--
Xylene, o-	95-47-6	1.0E+05	--
Xylene, p-	106-42-3	1.0E+05	--
TPH			
Aliphatic: C_5-C_8		7.3E+05	--
Aliphatic: C_9-C_{18}		3.1E+05	--
Aliphatic: C_{19}-C_{32}		--	--
Aromatic: C_6-C_8		--	--
Aromatic: C_9-C_{16}		5.2E+04	--
Aromatic: C_{17}-C_{32}		--	--
TPHg		1.4E+05	--
TPHd		1.6E+05	--
TPHmo		--	--

Notes:

" -- " not applicable or not available

" $SSCG_{nc}$ " Site-Specific cleanup goal using a target noncancer hazard = 1

" $SSCG_c$ " Site-Specific cleanup goal using a target cancer = 1×10^{-6} for onsite residents

Sub-Slab Soil Vapor SSCGs based on indoor air inhalation of vapors

Table A-12
Site-Specific Cleanup Goals for Soil,
Construction and Utility Maintenance Worker

Chemical of Concern	CAS Number	Construction and Utility Maintenance Worker	
		Soil (mg/kg)	
		$SSCG_{nc}$	$SSCG_c$
Inorganics			
Antimony	7440-36-0	3.1E+03	--
Arsenic	7440-38-2	4.1E+02	1.5E+01
Cadmium	7440-43-9	6.4E+02	2.4E+02
Chromium VI	18540-29-9	3.2E+03	6.7E+00
Cobalt	7440-48-4	2.0E+02	1.1E+02
Copper	7440-50-8	3.1E+05	--
Lead	7439-92-1	8.2E+02[(a)]	--
Thallium	7440-28-0	7.7E+01	--
Vanadium	7440-62-2	3.3E+03	--
Zinc	7440-66-6	2.3E+06	--
PAHs			
Benz[a]anthracene	56-55-3	--	2.6E+02
Benzo[a]pyrene	50-32-8	--	2.6E+01
Benzo[b]fluoranthene	205-99-2	--	2.6E+02
Benzo[k]fluoranthene	207-08-9	--	2.6E+02
Chrysene	218-01-9	--	2.6E+03
Dibenz[a,h]anthracene	53-70-3	--	1.9E+01
Indeno[1,2,3-cd]pyrene	193-39-5	--	2.6E+02
Methylnaphthalene, 1-	90-12-0	1.9E+05	2.7E+03
Methylnaphthalene, 2-	91-57-6	1.1E+04	--
Naphthalene	91-20-3	1.4E+02	3.9E+01
Pyrene	129-00-0	6.7E+04	--
TPH			
Aliphatic: C_5-C_8		8.3E+02	--
Aliphatic: C_9-C_{18}		1.6E+03	--
Aliphatic: C_{19}-C_{32}		5.5E+06	--
Aromatic: C_6-C_8		--	--
Aromatic: C_9-C_{16}		7.5E+02	--
Aromatic: C_{17}-C_{32}		8.3E+04	--
TPHg		9.0E+02	
TPHd		1.9E+03	
TPHmo		1.6E+05	
SVOCs			
2,4-Dinitrotoluene	121-14-2	6.3E+03	2.8E+02
Bis(2-Ethylhexyl) Phthalate	117-81-7	6.3E+04	6.4E+03
VOCs			
1,1,2,2-Tetrachloroethane	79-34-5	8.3E+02	5.7E+00
1,2,3-Trichloropropane	96-18-4	2.0E+00	7.2E+00
1,2,4-Trimethylbenzene	95-63-6	7.5E+01	--
1,2-Dichloropropane	78-87-5	1.2E+01	8.5E+00
1,3,5-Trimethylbenzene	108-67-8	7.7E+01	--

Table A-12
Site-Specific Cleanup Goals for Soil,
Construction and Utility Maintenance Worker

Chemical of Concern	CAS Number	Construction and Utility Maintenance Worker	
		Soil (mg/kg)	
		$SSCG_{nc}$	$SSCG_c$
1,4-Dichlorobenzene	106-46-7	8.7E+03	2.8E+01
Benzene	71-43-2	6.9E+01	2.2E+00
Bromodichloromethane	75-27-4	4.9E+02	5.3E+00
Bromomethane	74-83-9	7.8E+00	--
Ethylbenzene	100-41-4	4.5E+03	5.1E+01
Methylene chloride	75-09-2	1.2E+03	5.9E+01
Tetrachloroethene	127-18-4	8.6E+01	1.0E+01
Trichloroethene	79-01-6	5.5E+00	1.9E+01
Vinyl chloride	75-01-4	8.7E+01	3.1E-01

Notes:

" -- " not applicable or not available

" $SSCG_{nc}$ " Site-Specific cleanup goal using a target noncancer hazard = 1

" $SSCG_c$ " Site-Specific cleanup goal using a target cancer = 1×10^{-5} for workers

Soil SSCGs based on incidental ingestion, dermal contact with soil, and outdoor air inhalation

[(a)] Based on USEPA adult lead model, similar parameters used for the industrial worker CHHSL, and a lower exposure frequency.

Table A-13

Site-Specific Cleanup Goals for Soil Vapor,
Construction and Utility Maintenance Worker

Former Kast Property

Carson, California

Chemical of Concern	CAS Number	Construction and Utility Maintenance Worker	
		Soil Vapor (µg/m^3)	
		$SSCG_{nc}$	$SSCG_c$
VOCs			
1,1,1-Trichloroethane	71-55-6	7.4E+09	--
1,1,2,2-Tetrachloroethane	79-34-5	1.8E+07	1.2E+05
1,1,2-Trichloroethane	79-00-5	1.0E+05	8.6E+05
1,1-Dichloroethane	75-34-3	9.9E+08	2.5E+07
1,2,4-Trichlorobenzene	120-82-1	3.9E+05	--
1,2,4-Trimethylbenzene	95-63-6	2.3E+06	--
1,2-Dichloroethane	107-06-2	4.4E+06	8.5E+05
1,2-Dichloropropane	78-87-5	3.6E+06	2.5E+06
1,3,5-Trimethylbenzene	108-67-8	2.3E+06	--
1,3-Butadiene	106-99-0	3.7E+06	3.0E+05
1,4-Dichlorobenzene	106-46-7	2.3E+08	7.2E+05
1,4-Dioxane	123-91-1	1.3E+08	1.6E+05
2,2,4-Trimethylpentane	540-84-1	6.5E+08	--
2-Hexanone	591-78-6	7.9E+06	--
4-Ethyltoluene	622-96-8	2.5E+07	--
Benzene	71-43-2	3.2E+07	1.0E+06
Bromodichloromethane	75-27-4	7.2E+07	7.8E+05
Bromomethane	74-83-9	9.5E+06	--
Carbon disulfide	75-15-0	1.4E+09	--
Carbon tetrachloride	56-23-5	1.6E+08	1.1E+06
Chloroform	67-66-3	9.0E+07	4.9E+06
Chloromethane	74-87-3	1.7E+08	--
Cyclohexane	110-82-7	1.8E+10	--
Dibromochloromethane	124-48-1	6.0E+07	8.8E+05
Dichloroethene, cis-1,2-	156-59-2	8.3E+06	--
Dichloroethene, trans-1,2-	156-60-5	9.3E+07	--
Dichloropropene, trans-1,3-	10061-02-6	4.4E+07	3.9E+06
Ethanol	64-17-5	1.9E+08	--
Ethylbenzene	100-41-4	6.3E+08	7.0E+06
Heptane	142-82-5	2.3E+09	--
Hexachloro-1,3-butadiene	87-68-3	2.2E+05	8.0E+04
Hexane	110-54-3	1.7E+09	--
Isopropanol	67-63-0	5.7E+08	--
Isopropylbenzene (cumene)	98-82-8	1.5E+09	--
Methyl ethyl ketone (2-butanone)	78-93-3	1.1E+09	--
Methylene chloride	75-09-2	6.1E+08	2.8E+07
Methyl-tert-butyl ether	1634-04-4	1.8E+09	6.5E+07
Naphthalene	91-20-3	2.3E+05	6.3E+04
Propylbenzene	103-65-1	6.6E+08	--

Table A-13

Site-Specific Cleanup Goals for Soil Vapor,
Construction and Utility Maintenance Worker

Former Kast Property

Carson, California

Chemical of Concern	CAS Number	Construction and Utility Maintenance Worker	
		Soil Vapor (µg/m^3)	
		$SSCG_{nc}$	$SSCG_c$
tert-Butyl Alcohol (TBA)	75-65-0	2.6E+08	--
Tetrachloroethene	127-18-4	5.5E+07	6.6E+06
Tetrahydrofuran	109-99-9	4.9E+08	--
Toluene	108-88-3	3.7E+09	--
Trichloroethene	79-01-6	2.0E+06	6.7E+06
Vinyl chloride	75-01-4	2.3E+08	8.3E+05
Xylene, m-	108-38-3	6.0E+07	--
Xylene, o-	95-47-6	4.8E+07	--
Xylene, p-	106-42-3	5.9E+07	--
TPH			
Aliphatic: C_5-C_8		1.2E+09	--
Aliphatic: C_9-C_{18}		1.2E+08	--
Aliphatic: C_{19}-C_{32}		--	--
Aromatic: C_6-C_8		--	--
Aromatic: C_9-C_{16}		6.7E+06	--
Aromatic: C_{17}-C_{32}		--	--
TPHg		2.2E+07	--
TPHd		2.3E+07	--
TPHmo		--	--

Notes:

" -- " not applicable or not available

" $SSCG_{nc}$ " Site-Specific cleanup goal using a target noncancer hazard = 1

" $SSCG_c$ " Site-Specific cleanup goal using a target cancer = 1×10^{-5} for workers

Soil Vapor SSCGs based on outdoor air inhalation of vapors emanating from the subsurface

Table A-14
Site-Specific Cleanup Goals for Soil, Background
Former Kast Property
Carson, California

Chemical of Concern	CAS Number	SSCG (mg/kg)
Inorganics		
Antimony	7440-36-0	0.74
Arsenic	7440-38-2	12
Barium	7440-39-3	267
Beryllium	7440-41-7	0.56
Cadmium	7440-43-9	3.81
Chromium	16065-83-1	32.5
Chromium VI	18540-29-9	--
Cobalt	7440-48-4	10.9
Copper	7440-50-8	59.0
Lead	7439-92-1	61.5
Mercury	7439-97-6	0.13
Molybdenum	7439-98-7	0.41
Nickel	7440-02-0	20.2
Selenium	7782-49-2	0.78
Silver	7440-22-4	1.29
Thallium	7440-28-0	0.23
Vanadium	7440-62-2	45.7
Zinc	7440-66-6	291
PAHs		
Bap-TEQ		0.9

Notes:

" -- " not available

" SSCG " Site-Specific cleanup goal

Table A-15
LARWQCB Attenuation Factor Method and USEPA RSL Soil Cleanup Goal Method Parameters
Former Kast Property
Carson, California

Parameter	Unit	Value	Rationale
Chemical Properties			
Koc	(µg/g) / (µg/mL)	chemical-specific	USEPA RSL Database
Kd	(µg/g) / (µg/mL)	chemical-specific	WET data, or Kd = Koc × foc if WET data not available
K_H	unitless	chemical-specific	USEPA RSL Database
Stratum Property			
Porosity	unitless	0.421	Site-specifc data
Soil water content by volume	unitless	0.239	Site-specifc data
foc	unitless	0.00825	Site-specifc data
Bulk Density	g/cm^3	1.54	Site soil physical data
Soil type	-	sand	Conservative assumption based on boring logs

Reference:

USEPA 2013. Regional Screening Levels for Chemical Contaminants at Superfund Sites. May. URL: http://www.epa.gov/region9/superfund//prg/index.html

Table A-16
. SAM model DAF calculation
Former Kast Property
Carson, California

Parameter		Value	Unit	Rationale
P	Annual precipitation	34.5	cm/yr	From SEVIEW database
I_f	Net infiltration	0.0214	m/yr	Assumed sand soil type, Eqn. 1
W	Lateral width of affected soil zone in direction of GW flow	184	m	elevated benzene plume length along GW flow using 2011 and 2013 2nd quarter data
a_v	Vertical groundwater dispersivity	1.03	m	Eqn. 2
K	Hydraulic conductivity of water-bearing unit	2.5	m/day	default value for fine sand, Todd, Groundwater Hydrogeology, 1980
i	Hydraulic gradient of water-bearing unit	0.002	m/m	2013 2nd quarter GW monitoring report
b	Aquifer thickness	11.3	m	37 ft, assumed the top of Gage aquifer is the lower boundary of the shallow GW zone
U_{gw}	Groundwater darcy velocity	1.83	m/yr	Eqn. 3
δ_{gw}	Groundwater mixing zone thickness	11.3	m	Eqn. 4 or the aquifer thickness, whichever is smaller.
LDF	Leachate Dilution Factor	6	unitless	Eqn. 5

Notes:

Eqn. 1. $I_f = 0.0018 \times P^2$

Eqn. 2. $\alpha_v = 0.0056 \times W$

Eqn. 3. $U_{gw} = K \cdot i$

Eqn. 4. $\delta_{gw} = \sqrt{2 \cdot \alpha_v \cdot W} + b[1 - exp(\frac{-I_f \cdot W}{U_{gw} \cdot b})]$

Eqn. 5. $DAF = 1 + \frac{U_{gw} \cdot \delta_{gw}}{I_f \cdot W}$

Table A-17

Site-Specific Cleanup Goal based on Soil Leaching to Groundwater

Former Kast Property

Carson, California

Chemical of Potential Concern	Site Specific Kd (L/kg)	Groundwater quality criterion (µg/L)	Source	Dilution Attenuation Factor (DAF)	Soil Cleanup Goals (mg/kg)
Site-related Soil COCs					
Arsenic	NM	10	MCL	6.2	1.8
Benzene	28	1.0	MCL	6.2	0.13
Naphthalene	1093	17	CDPH NL	6.2	88
TPH as Diesel	4119	200	ESL-nc	6.2	3900
TPH as Gasoline	374	410	ESL-nc	6.2	730
TPH as Motor Oil	6957	6200	ESL-nc	6.2	50,000 **
Non-site-related Soil COC					
1,2,3-Trichloropropane	NM	0.005	CDPH NL	6.2	0.000026
1,2-Dichloroethane	NM	0.5	MCL	6.2	0.0020
1,4-Dichlorobenzene	NM	5.0	MCL	6.2	0.077
Antimony	NM	6.0	MCL	6.2	1.7
cis-1,2-Dichloroethylene	NM	6.0	MCL	6.2	0.024
tert-Butyl Alcohol	NM	12	CDPH NL	6.2	0.049
Tetrachloroethene	NM	5.0	MCL	6.2	0.036
Thallium	NM	2.0	MCL	6.2	0.89
Trichloroethene	NM	5.0	MCL	6.2	0.020
Vinyl Chloride	NM	0.50	MCL	6.2	0.0020

Note:

NM - Not measured

ND - Not detected

MCL - Maximum Contaminant Level.

ESL - San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels, Groundwater Screening Levels for Drinking Water.

ESL -nc: ESL level based on non-cancer health effect.

CDPH NL - California Department of Public Health Notification Level..

PHG - California Public Health Goal.

* ESL value for 2-methylnaphthalene was used.

** Calculated cleanup level exceeded the maximum immobile residual NAPL phase concentration of 53,067 mg/kg ($C_{res,soil}$), therefore $C_{res,soil}$ was used. Cres,soil obtained from: Brost, E.J. and Devaull, G.E., Non-Aqueous Phase Liquid (NAPL) Mobility Limits in Soil. Americal Petroleum Institute Research Bulletin No. 9. June 2000.

Geosyntec
consultants

ATTACHMENTS

Geosyntec consultants

ATTACHMENT A1

SSCG Derivation Spreadsheets

Attachment A1, Table A1-1
Derivation of Site-Specific Cleanup Goals, Soil
Onsite Resident
Former Kast Property
Carson, California

CAS Number	Chemical of Concern	Noncancer Effects							Cancer Effects						
		Ingestion		Dermal Contact		Outdoor Inhalation		$SSCG_{soil-nc}$ (mg/kg)	Ingestion		Dermal Contact		Outdoor Inhalation		$SSCG_{soil-c}$ (mg/kg)
		IF_{oral} (mg/kg-day)	Reference Dose (mg/kg-day)	IF_{dermal} (mg/kg-day)	Reference Dose (mg/kg-day)	$EC_{inh,soil}$ (mg/m^3-mg/kg)	Reference Concentration (mg/m^3)		IF_{oral} (mg/kg-day)	Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	IF_{dermal} (mg/kg-day)	Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	$EC_{inh,soil}$ (mg/m^3-mg/kg)	Inhalation Unit Risk $(\mu g/m^3)^{-1}$	
	Inorganics														
7440-36-0	Antimony	1.3E-05	4.0E-04	--	6.0E-05	8.3E-12	NA	**3.1E+01**	1.6E-06	NC	--	NC	3.6E-12	NC	**--**
7440-38-2	Arsenic	1.3E-05	3.0E-04	1.1E-06	3.0E-04	8.3E-12	1.5E-05	**2.2E+01**	1.6E-06	9.5E+00	1.5E-07	9.5E+00	3.6E-12	3.3E-03	**6.1E-02**
7440-43-9	Cadmium	1.3E-05	1.0E-03	3.6E-08	2.5E-05	8.3E-12	2.0E-05	**7.0E+01**	1.6E-06	NC	4.9E-09	NC	3.6E-12	4.2E-03	**6.7E+04**
18540-29-9	Chromium VI	1.3E-05	3.0E-03	--	7.5E-05	8.3E-12	1.0E-04	**2.3E+02**	1.6E-06	5.0E-01	--	NC	3.6E-12	1.5E-01	**1.3E+00**
7440-48-4	Cobalt	1.3E-05	3.0E-04	--	3.0E-04	8.3E-12	6.0E-06	**2.3E+01**	1.6E-06	NC	--	NC	3.6E-12	9.0E-03	**3.1E+04**
7440-50-8	Copper	1.3E-05	4.0E-02	--	4.0E-02	8.3E-12	NA	**3.1E+03**	1.6E-06	NC	--	NC	3.6E-12	NC	**--**
7439-92-1	Lead	1.3E-05	NA	--	NA	8.3E-12	NA	**--**	1.6E-06	NC	--	NC	3.6E-12	NC	**--**
7440-28-0	Thallium	1.3E-05	1.0E-05	--	1.0E-05	8.3E-12	NA	**7.8E-01**	1.6E-06	NC	--	NC	3.6E-12	NC	**--**
7440-62-2	Vanadium	1.3E-05	5.0E-03	--	5.0E-03	8.3E-12	1.0E-04	**3.9E+02**	1.6E-06	NC	--	NC	3.6E-12	NC	**--**
7440-66-6	Zinc	1.3E-05	3.0E-01	--	3.0E-01	8.3E-12	NA	**2.3E+04**	1.6E-06	NC	--	NC	3.6E-12	NC	**--**
	PAHs														
56-55-3	Benz[a]anthracene	1.3E-05	NA	4.7E-06	NA	8.3E-12	NA	**--**	1.6E-06	2.9E-01	6.4E-07	2.9E-01	3.6E-12	1.1E-04	**1.6E+00**
50-32-8	Benzo[a]pyrene	1.3E-05	NA	4.7E-06	NA	8.3E-12	NA	**--**	1.6E-06	2.9E+00	6.4E-07	2.9E+00	3.6E-12	1.1E-03	**1.6E-01**
205-99-2	Benzo[b]fluoranthene	1.3E-05	NA	4.7E-06	NA	8.3E-12	NA	**--**	1.6E-06	2.9E-01	6.4E-07	2.9E-01	3.6E-12	1.1E-04	**1.6E+00**
207-08-9	Benzo[k]fluoranthene	1.3E-05	NA	4.7E-06	NA	8.3E-12	NA	**--**	1.6E-06	2.9E-01	6.4E-07	2.9E-01	3.6E-12	1.1E-04	**1.6E+00**
218-01-9	Chrysene	1.3E-05	NA	4.7E-06	NA	8.3E-12	NA	**--**	1.6E-06	2.9E-02	6.4E-07	2.9E-02	3.6E-12	1.1E-05	**1.6E+01**
53-70-3	Dibenz[a,h]anthracene	1.3E-05	NA	4.7E-06	NA	8.3E-12	NA	**--**	1.6E-06	4.1E+00	6.4E-07	4.1E+00	3.6E-12	1.2E-03	**1.1E-01**
193-39-5	Indeno[1,2,3-cd]pyrene	1.3E-05	NA	4.7E-06	NA	8.3E-12	NA	**--**	1.6E-06	2.9E-01	6.4E-07	2.9E-01	3.6E-12	1.1E-04	**1.6E+00**
90-12-0	Methylnaphthalene, 1-	1.3E-05	7.0E-02	4.7E-06	7.0E-02	1.4E-05	NA	**4.0E+03**	1.6E-06	2.9E-02	6.4E-07	2.9E-02	5.9E-06	NC	**1.6E+01**
91-57-6	Methylnaphthalene, 2-	1.3E-05	4.0E-03	4.7E-06	4.0E-03	1.4E-05	NA	**2.3E+02**	1.6E-06	NC	6.4E-07	NC	6.1E-06	NC	**--**
91-20-3	Naphthalene	1.3E-05	2.0E-02	4.7E-06	2.0E-02	1.7E-05	3.0E-03	**1.5E+02**	1.6E-06	NC	6.4E-07	NC	7.4E-06	3.4E-05	**4.0E+00**
129-00-0	Pyrene	1.3E-05	3.0E-02	4.7E-06	3.0E-02	2.5E-07	1.1E-01	**1.7E+03**	1.6E-06	NC	6.4E-07	NC	1.1E-07	NC	**--**
	TPH														
1	Aliphatic: C5-C8	1.3E-05	4.0E-02	4.7E-06	4.0E-02	6.8E-04	7.0E-01	**7.1E+02**	1.6E-06	NC	6.4E-07	NC	2.9E-04	NC	**--**
2	Aliphatic: C9-C18	1.3E-05	1.0E-01	4.7E-06	1.0E-01	1.6E-04	3.0E-01	**1.4E+03**	1.6E-06	NC	6.4E-07	NC	6.7E-05	NC	**--**
3	Aliphatic: C19-C32	1.3E-05	2.0E+00	4.7E-06	2.0E+00	--	NA	**1.1E+05**	1.6E-06	NC	6.4E-07	NC	--	NC	**--**
4	Aromatic: C6-C8	1.3E-05	NA	4.7E-06	NA	2.2E-04	NA	**--**	1.6E-06	NC	6.4E-07	NC	9.6E-05	NC	**--**

Attachment A1, Table A1-1
Derivation of Site-Specific Cleanup Goals, Soil
Onsite Resident
Former Kast Property
Carson, California

CAS Number	Chemical of Concern	Noncancer Effects							Cancer Effects						
		Ingestion		Dermal Contact		Outdoor Inhalation		$SSCG_{soil-nc}$ (mg/kg)	Ingestion		Dermal Contact		Outdoor Inhalation		$SSCG_{soil-c}$ (mg/kg)
		IF_{oral} (mg/kg-day)	Reference Dose (mg/kg-day)	IF_{dermal} (mg/kg-day)	Reference Dose (mg/kg-day)	$EC_{inh,soil}$ (mg/m^3-mg/kg)	Reference Concentration (mg/m^3)		IF_{oral} (mg/kg-day)	Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	IF_{dermal} (mg/kg-day)	Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	$EC_{inh,soil}$ (mg/m^3-mg/kg)	Inhalation Unit Risk $(\mu g/m^3)^{-1}$	
5	Aromatic: C9-C16	1.3E-05	3.0E-02	4.7E-06	3.0E-02	5.3E-05	5.0E-02	**6.0E+02**	1.6E-06	NC	6.4E-07	NC	2.3E-05	NC	**--**
6	Aromatic: C17-C32	1.3E-05	3.0E-02	4.7E-06	3.0E-02	--	NA	**1.7E+03**	1.6E-06	NC	6.4E-07	NC	--	NC	**--**
	SVOCs														
121-14-2	2,4-Dinitrotoluene	1.3E-05	2.0E-03	3.7E-06	2.0E-03	8.3E-12	7.0E-03	**1.2E+02**	1.6E-06	3.1E-01	5.0E-07	3.1E-01	3.6E-12	8.9E-05	**1.6E+00**
117-81-7	Bis(2-Ethylhexyl) Phthalate	1.3E-05	2.0E-02	3.6E-06	2.0E-02	8.3E-12	7.0E-02	**1.2E+03**	1.6E-06	1.4E-02	4.9E-07	1.4E-02	3.6E-12	2.4E-06	**3.5E+01**
	VOCs														
79-34-5	1,1,2,2-Tetrachloroethane	1.3E-05	2.0E-02	--	2.0E-02	6.9E-05	7.0E-02	**6.2E+02**	1.6E-06	2.7E-01	--	2.7E-01	2.9E-05	5.8E-05	**4.7E-01**
96-18-4	1,2,3-Trichloropropane	1.3E-05	4.0E-03	--	4.0E-03	1.3E-04	3.0E-04	**2.4E+00**	1.6E-06	3.0E+01	--	3.0E+01	5.4E-05	NC	**2.1E-02**
95-63-6	1,2,4-Trimethylbenzene	1.3E-05	1.0E-02	--	1.0E-02	7.6E-05	7.0E-03	**8.3E+01**	1.6E-06	NC	--	NC	3.2E-05	NC	**--**
78-87-5	1,2-Dichloropropane	1.3E-05	9.0E-02	--	9.0E-02	2.7E-04	4.0E-03	**1.5E+01**	1.6E-06	3.6E-02	--	3.6E-02	1.2E-04	1.0E-05	**8.3E-01**
108-67-8	1,3,5-Trimethylbenzene	1.3E-05	1.0E-02	--	1.0E-02	7.4E-05	7.0E-03	**8.5E+01**	1.6E-06	NC	--	NC	3.2E-05	NC	**--**
106-46-7	1,4-Dichlorobenzene	1.3E-05	7.0E-02	--	7.0E-02	7.4E-05	8.0E-01	**3.6E+03**	1.6E-06	5.4E-03	--	5.4E-03	3.2E-05	1.1E-05	**2.8E+00**
71-43-2	Benzene	1.3E-05	4.0E-03	--	4.0E-03	3.5E-04	3.0E-02	**6.7E+01**	1.6E-06	1.0E-01	--	1.0E-01	1.5E-04	2.9E-05	**2.2E-01**
75-27-4	Bromodichloromethane	1.3E-05	2.0E-02	--	2.0E-02	1.2E-04	7.0E-02	**4.3E+02**	1.6E-06	1.3E-01	--	1.3E-01	5.0E-05	3.7E-05	**4.9E-01**
74-83-9	Bromomethane	1.3E-05	1.4E-03	--	1.4E-03	5.2E-04	5.0E-03	**8.8E+00**	1.6E-06	NC	--	NC	2.2E-04	NC	**--**
100-41-4	Ethylbenzene	1.3E-05	1.0E-01	--	1.0E-01	1.8E-04	1.0E+00	**3.3E+03**	1.6E-06	1.1E-02	--	1.1E-02	7.7E-05	2.5E-06	**4.8E+00**
75-09-2	Methylene chloride	1.3E-05	6.0E-03	--	6.0E-03	3.9E-04	6.0E-01	**3.6E+02**	1.6E-06	1.4E-02	--	1.4E-02	1.7E-04	1.0E-06	**5.3E+00**
127-18-4	Tetrachloroethene	1.3E-05	6.0E-03	--	6.0E-03	3.8E-04	4.0E-02	**8.6E+01**	1.6E-06	5.4E-01	--	5.4E-01	1.6E-04	5.9E-06	**5.5E-01**
79-01-6	Trichloroethene	1.3E-05	5.0E-04	--	5.0E-04	3.0E-04	2.0E-03	**5.8E+00**	8.3E-06	4.6E-02	--	4.6E-02	4.5E-04	4.1E-06	**1.2E+00**
75-01-4	Vinyl chloride	1.3E-05	3.0E-03	--	3.0E-03	9.3E-04	1.0E-01	**7.4E+01**	1.6E-06	2.7E-01	--	2.7E-01	4.0E-04	7.8E-05	**3.2E-02**

Note: " -- " not applicable

Attachment A1, Table A1-2
Derivation of Site-Specific Cleanup Goals, Soil
Onsite Resident, Infrequent Exposure to Subsurface Soils
Former Kast Property
Carson, California

CAS Number	Chemical of Concern	Noncancer Effects							Cancer Effects						
		Ingestion		Dermal Contact		Outdoor Inhalation		$SSCG_{soil-nc}$ (mg/kg)	Ingestion		Dermal Contact		Outdoor Inhalation		$SSCG_{soil-c}$ (mg/kg)
		IF_{oral} (mg/kg-day)	Reference Dose (mg/kg-day)	IF_{dermal} (mg/kg-day)	Reference Dose (mg/kg-day)	$EC_{inh,soil}$ (mg/m^3-mg/kg)	Reference Concentration (mg/m^3)		IF_{oral} (mg/kg-day)	Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	IF_{dermal} (mg/kg-day)	Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	$EC_{inh,soil}$ (mg/m^3-mg/kg)	Inhalation Unit Risk $(\mu g/m^3)^{-1}$	
	Inorganics														
7440-36-0	Antimony	1.5E-07	4.0E-04	--	6.0E-05	9.5E-14	NA	**2.7E+03**	1.8E-08	NC	--	NC	4.1E-14	NC	--
7440-38-2	Arsenic	1.5E-07	3.0E-04	1.2E-08	3.0E-04	9.5E-14	1.5E-05	**1.9E+03**	1.8E-08	9.5E+00	1.7E-09	9.5E+00	4.1E-14	3.3E-03	**5.4E+00**
7440-43-9	Cadmium	1.5E-07	1.0E-03	4.1E-10	2.5E-05	9.5E-14	2.0E-05	**6.2E+03**	1.8E-08	NC	5.6E-11	NC	4.1E-14	4.2E-03	**5.8E+06**
18540-29-9	Chromium VI	1.5E-07	3.0E-03	--	7.5E-05	9.5E-14	1.0E-04	**2.1E+04**	1.8E-08	5.0E-01	--	NC	4.1E-14	1.5E-01	**1.1E+02**
7440-48-4	Cobalt	1.5E-07	3.0E-04	--	3.0E-04	9.5E-14	6.0E-06	**2.1E+03**	1.8E-08	NC	--	NC	4.1E-14	9.0E-03	**2.7E+06**
7440-50-8	Copper	1.5E-07	4.0E-02	--	4.0E-02	9.5E-14	NA	**2.7E+05**	1.8E-08	NC	--	NC	4.1E-14	NC	--
7439-92-1	Lead	1.5E-07	NA	--	NA	9.5E-14	NA	--	1.8E-08	NC	--	NC	4.1E-14	NC	--
7440-28-0	Thallium	1.5E-07	1.0E-05	--	1.0E-05	9.5E-14	NA	**6.8E+01**	1.8E-08	NC	--	NC	4.1E-14	NC	--
7440-62-2	Vanadium	1.5E-07	5.0E-03	--	5.0E-03	9.5E-14	1.0E-04	**3.4E+04**	1.8E-08	NC	--	NC	4.1E-14	NC	--
7440-66-6	Zinc	1.5E-07	3.0E-01	--	3.0E-01	9.5E-14	NA	**2.1E+06**	1.8E-08	NC	--	NC	4.1E-14	NC	--
	PAHs														
56-55-3	Benz[a]anthracene	1.5E-07	NA	5.3E-08	NA	9.5E-14	NA	--	1.8E-08	2.9E-01	7.3E-09	2.9E-01	4.1E-14	1.1E-04	**1.4E+02**
50-32-8	Benzo[a]pyrene	1.5E-07	NA	5.3E-08	NA	9.5E-14	NA	--	1.8E-08	2.9E+00	7.3E-09	2.9E+00	4.1E-14	1.1E-03	**1.4E+01**
205-99-2	Benzo[b]fluoranthene	1.5E-07	NA	5.3E-08	NA	9.5E-14	NA	--	1.8E-08	2.9E-01	7.3E-09	2.9E-01	4.1E-14	1.1E-04	**1.4E+02**
207-08-9	Benzo[k]fluoranthene	1.5E-07	NA	5.3E-08	NA	9.5E-14	NA	--	1.8E-08	2.9E-01	7.3E-09	2.9E-01	4.1E-14	1.1E-04	**1.4E+02**
218-01-9	Chrysene	1.5E-07	NA	5.3E-08	NA	9.5E-14	NA	--	1.8E-08	2.9E-02	7.3E-09	2.9E-02	4.1E-14	1.1E-05	**1.4E+03**
53-70-3	Dibenz[a,h]anthracene	1.5E-07	NA	5.3E-08	NA	9.5E-14	NA	--	1.8E-08	4.1E+00	7.3E-09	4.1E+00	4.1E-14	1.2E-03	**9.7E+00**
193-39-5	Indeno[1,2,3-cd]pyrene	1.5E-07	NA	5.3E-08	NA	9.5E-14	NA	--	1.8E-08	2.9E-01	7.3E-09	2.9E-01	4.1E-14	1.1E-04	**1.4E+02**
90-12-0	Methylnaphthalene, 1-	1.5E-07	7.0E-02	5.3E-08	7.0E-02	1.6E-07	NA	**3.5E+05**	1.8E-08	2.9E-02	7.3E-09	2.9E-02	6.7E-08	NC	**1.4E+03**
91-57-6	Methylnaphthalene, 2-	1.5E-07	4.0E-03	5.3E-08	4.0E-03	1.6E-07	NA	**2.0E+04**	1.8E-08	NC	7.3E-09	NC	7.0E-08	NC	--
91-20-3	Naphthalene	1.5E-07	2.0E-02	5.3E-08	2.0E-02	2.0E-07	3.0E-03	**1.3E+04**	1.8E-08	NC	7.3E-09	NC	8.5E-08	3.4E-05	**3.5E+02**
129-00-0	Pyrene	1.5E-07	3.0E-02	5.3E-08	3.0E-02	2.9E-09	1.1E-01	**1.5E+05**	1.8E-08	NC	7.3E-09	NC	1.2E-09	NC	--
	TPH														
1	Aliphatic: C5-C8	1.5E-07	4.0E-02	5.3E-08	4.0E-02	7.8E-06	7.0E-01	**6.2E+04**	1.8E-08	NC	7.3E-09	NC	3.3E-06	NC	--
2	Aliphatic: C9-C18	1.5E-07	1.0E-01	5.3E-08	1.0E-01	1.8E-06	3.0E-01	**1.3E+05**	1.8E-08	NC	7.3E-09	NC	7.6E-07	NC	--
3	Aliphatic: C19-C32	1.5E-07	2.0E+00	5.3E-08	2.0E+00	--	NA	**1.0E+07**	1.8E-08	NC	7.3E-09	NC	--	NC	--
4	Aromatic: C6-C8	1.5E-07	NA	5.3E-08	NA	2.6E-06	NA	--	1.8E-08	NC	7.3E-09	NC	1.1E-06	NC	--

Attachment A1, Table A1-2
Derivation of Site-Specific Cleanup Goals, Soil
Onsite Resident, Infrequent Exposure to Subsurface Soils
Former Kast Property
Carson, California

CAS Number	Chemical of Concern	Noncancer Effects							Cancer Effects						
		Ingestion		Dermal Contact		Outdoor Inhalation		$SSCG_{soil-nc}$ (mg/kg)	Ingestion		Dermal Contact		Outdoor Inhalation		$SSCG_{soil-c}$ (mg/kg)
		IF_{oral} (mg/kg-day)	Reference Dose (mg/kg-day)	IF_{dermal} (mg/kg-day)	Reference Dose (mg/kg-day)	$EC_{inh,soil}$ (mg/m^3-mg/kg)	Reference Concentration (mg/m^3)		IF_{oral} (mg/kg-day)	Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	IF_{dermal} (mg/kg-day)	Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	$EC_{inh,soil}$ (mg/m^3-mg/kg)	Inhalation Unit Risk $(\mu g/m^3)^{-1}$	
5	Aromatic: C9-C16	1.5E-07	3.0E-02	5.3E-08	3.0E-02	6.1E-07	5.0E-02	**5.3E+04**	1.8E-08	NC	7.3E-09	NC	2.6E-07	NC	--
6	Aromatic: C17-C32	1.5E-07	3.0E-02	5.3E-08	3.0E-02	--	NA	**1.5E+05**	1.8E-08	NC	7.3E-09	NC	--	NC	--
	SVOCs														
121-14-2	2,4-Dinitrotoluene	1.5E-07	2.0E-03	4.2E-08	2.0E-03	9.5E-14	7.0E-03	**1.1E+04**	1.8E-08	3.1E-01	5.8E-09	3.1E-01	4.1E-14	8.9E-05	**1.4E+02**
117-81-7	Bis(2-Ethylhexyl) Phthalate	1.5E-07	2.0E-02	4.1E-08	2.0E-02	9.5E-14	7.0E-02	**1.1E+05**	1.8E-08	1.4E-02	5.6E-09	1.4E-02	4.1E-14	2.4E-06	**3.0E+03**
	VOCs														
79-34-5	1,1,2,2-Tetrachloroethane	1.5E-07	2.0E-02	--	2.0E-02	7.8E-07	7.0E-02	**5.4E+04**	1.8E-08	2.7E-01	--	2.7E-01	3.4E-07	5.8E-05	**4.1E+01**
96-18-4	1,2,3-Trichloropropane	1.5E-07	4.0E-03	--	4.0E-03	1.4E-06	3.0E-04	**2.1E+02**	1.8E-08	3.0E+01	--	3.0E+01	6.1E-07	NC	**1.9E+00**
95-63-6	1,2,4-Trimethylbenzene	1.5E-07	1.0E-02	--	1.0E-02	8.7E-07	7.0E-03	**7.2E+03**	1.8E-08	NC	--	NC	3.7E-07	NC	--
78-87-5	1,2-Dichloropropane	1.5E-07	9.0E-02	--	9.0E-02	3.1E-06	4.0E-03	**1.3E+03**	1.8E-08	3.6E-02	--	3.6E-02	1.3E-06	1.0E-05	**7.2E+01**
108-67-8	1,3,5-Trimethylbenzene	1.5E-07	1.0E-02	--	1.0E-02	8.4E-07	7.0E-03	**7.4E+03**	1.8E-08	NC	--	NC	3.6E-07	NC	--
106-46-7	1,4-Dichlorobenzene	1.5E-07	7.0E-02	--	7.0E-02	8.5E-07	8.0E-01	**3.2E+05**	1.8E-08	5.4E-03	--	5.4E-03	3.6E-07	1.1E-05	**2.4E+02**
71-43-2	Benzene	1.5E-07	4.0E-03	--	4.0E-03	4.0E-06	3.0E-02	**5.8E+03**	1.8E-08	1.0E-01	--	1.0E-01	1.7E-06	2.9E-05	**1.9E+01**
75-27-4	Bromodichloromethane	1.5E-07	2.0E-02	--	2.0E-02	1.3E-06	7.0E-02	**3.8E+04**	1.8E-08	1.3E-01	--	1.3E-01	5.7E-07	3.7E-05	**4.2E+01**
74-83-9	Bromomethane	1.5E-07	1.4E-03	--	1.4E-03	6.0E-06	5.0E-03	**7.7E+02**	1.8E-08	NC	--	NC	2.6E-06	NC	--
100-41-4	Ethylbenzene	1.5E-07	1.0E-01	--	1.0E-01	2.0E-06	1.0E+00	**2.9E+05**	1.8E-08	1.1E-02	--	1.1E-02	8.8E-07	2.5E-06	**4.2E+02**
75-09-2	Methylene chloride	1.5E-07	6.0E-03	--	6.0E-03	4.4E-06	6.0E-01	**3.2E+04**	1.8E-08	1.4E-02	--	1.4E-02	1.9E-06	1.0E-06	**4.7E+02**
127-18-4	Tetrachloroethene	1.5E-07	6.0E-03	--	6.0E-03	4.3E-06	4.0E-02	**7.5E+03**	1.8E-08	5.4E-01	--	5.4E-01	1.9E-06	5.9E-06	**4.9E+01**
79-01-6	Trichloroethene	1.5E-07	5.0E-04	--	5.0E-04	3.4E-06	2.0E-03	**5.0E+02**	**9.5E-08**	4.6E-02	--	4.6E-02	**5.1E-06**	4.1E-06	**1.0E+02**
75-01-4	Vinyl chloride	1.5E-07	3.0E-03	--	3.0E-03	1.1E-05	1.0E-01	**6.4E+03**	1.8E-08	2.7E-01	--	2.7E-01	4.6E-06	7.8E-05	**2.8E+00**

Note: " -- " not applicable

Attachment A1, Table A1-3

Derivation of Site-Specific Cleanup Goal, Lead in Soil
Onsite Resident, Infrequent Exposure to Subsurface Soils

Former Kast Property

Carson, California

Calculations of Preliminary Remediation Goals (PRGs)

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 6/21/09

Variable	Description of Variable	Units	GSDi and PbBo from Analysis of NHANES 1999-2004
$PbB_{fetal,\ 0.90}$	90^{th} percentile PbB in fetus	ug/dL	1
$R_{fetal/maternal}$	Fetal/maternal PbB ratio	--	0.9
BKSF	Biokinetic Slope Factor	ug/dL per ug/day	0.4
GSD_i	Geometric standard deviation PbB	--	1.8
PbB_0	Baseline PbB	ug/dL	0.0
IR_S	Soil ingestion rate (including soil-derived indoor dust)	g/day	0.100
$AF_{S,\ D}$	Absorption fraction (same for soil and dust)	--	0.12
$EF_{S,\ D}$	Exposure frequency (same for soil and dust)	days/yr	12
$AT_{S,\ D}$	Averaging time (same for soil and dust)	days/yr	90
PRG		**mg/kg**	**818**

Attachment A1, Table A1-4
Derivation of Site-Specific Cleanup Goals, Sub-Slab Soil Vapor
Onsite Resident
Former Kast Property
Carson, California

CAS Number	Chemical of Concern	Noncancer Effects			Cancer Effects		
		Reference Concentration (mg/m^3)	Indoor Air $SSCG_{nc}$ ($\mu g/m^3$)	**Sub-Slab Soil Vapor $SSCG_{nc}$ ($\mu g/m^3$)**	Inhalation Unit Risk $(\mu g/m^3)^{-1}$	Indoor Air $SSCG_c$ ($\mu g/m^3$)	**Sub-Slab Soil Vapor $SSCG_c$ ($\mu g/m^3$)**
71-55-6	1,1,1-Trichloroethane	5.0E+00	5.2E+03	**5.2E+06**	NC	--	**--**
79-34-5	1,1,2,2-Tetrachloroethane	7.0E-02	7.3E+01	**7.3E+04**	5.8E-05	4.2E-02	**4.2E+01**
79-00-5	1,1,2-Trichloroethane	2.0E-04	2.1E-01	**2.1E+02**	1.6E-05	1.5E-01	**1.5E+02**
75-34-3	1,1-Dichloroethane	7.0E-01	7.3E+02	**7.3E+05**	1.6E-06	1.5E+00	**1.5E+03**
120-82-1	1,2,4-Trichlorobenzene	2.0E-03	2.1E+00	**2.1E+03**	NC	--	**--**
95-63-6	1,2,4-Trimethylbenzene	7.0E-03	7.3E+00	**7.3E+03**	NC	--	**--**
107-06-2	1,2-Dichloroethane	7.0E-03	7.3E+00	**7.3E+03**	2.1E-05	1.2E-01	**1.2E+02**
78-87-5	1,2-Dichloropropane	4.0E-03	4.2E+00	**4.2E+03**	1.0E-05	2.4E-01	**2.4E+02**
108-67-8	1,3,5-Trimethylbenzene	7.0E-03	7.3E+00	**7.3E+03**	NC	--	**--**
106-99-0	1,3-Butadiene	2.0E-03	2.1E+00	**2.1E+03**	1.7E-04	1.4E-02	**1.4E+01**
106-46-7	1,4-Dichlorobenzene	8.0E-01	8.3E+02	**8.3E+05**	1.1E-05	2.2E-01	**2.2E+02**
123-91-1	1,4-Dioxane	3.0E+00	3.1E+03	**3.1E+06**	7.7E-06	3.2E-01	**3.2E+02**
540-84-1	2,2,4-Trimethylpentane	1.0E+00	1.0E+03	**1.0E+06**	NC	--	**--**
591-78-6	2-Hexanone	3.0E-02	3.1E+01	**3.1E+04**	NC	--	**--**
622-96-8	4-Ethyltoluene	1.0E-01	1.0E+02	**1.0E+05**	NC	--	**--**
71-43-2	Benzene	3.0E-02	3.1E+01	**3.1E+04**	2.9E-05	8.4E-02	**8.4E+01**
75-27-4	Bromodichloromethane	7.0E-02	7.3E+01	**7.3E+04**	3.7E-05	6.6E-02	**6.6E+01**
74-83-9	Bromomethane	5.0E-03	5.2E+00	**5.2E+03**	NC	--	**--**
75-15-0	Carbon disulfide	7.0E-01	7.3E+02	**7.3E+05**	NC	--	**--**
56-23-5	Carbon tetrachloride	1.0E-01	1.0E+02	**1.0E+05**	4.2E-05	5.8E-02	**5.8E+01**
67-66-3	Chloroform	9.8E-02	1.0E+02	**1.0E+05**	5.3E-06	4.6E-01	**4.6E+02**
74-87-3	Chloromethane	9.0E-02	9.4E+01	**9.4E+04**	NC	--	**--**
110-82-7	Cyclohexane	6.0E+00	6.3E+03	**6.3E+06**	NC	--	**--**
124-48-1	Dibromochloromethane	7.0E-02	7.3E+01	**7.3E+04**	2.7E-05	9.0E-02	**9.0E+01**
156-59-2	Dichloroethene, cis-1,2-	7.0E-03	7.3E+00	**7.3E+03**	NC	--	**--**
156-60-5	Dichloroethene, trans-1,2-	6.0E-02	6.3E+01	**6.3E+04**	NC	--	**--**
10061-02-6	Dichloropropene, trans-1,3-	2.0E-02	2.1E+01	**2.1E+04**	1.6E-05	1.5E-01	**1.5E+02**
64-17-5	Ethanol	4.0E+00	4.2E+03	**4.2E+06**	NC	--	**--**
100-41-4	Ethylbenzene	1.0E+00	1.0E+03	**1.0E+06**	2.5E-06	9.7E-01	**9.7E+02**

Attachment A1, Table A1-4
Derivation of Site-Specific Cleanup Goals, Sub-Slab Soil Vapor
Onsite Resident
Former Kast Property
Carson, California

CAS Number	Chemical of Concern	Noncancer Effects			Cancer Effects		
		Reference Concentration (mg/m^3)	Indoor Air $SSCG_{nc}$ ($\mu g/m^3$)	**Sub-Slab Soil Vapor $SSCG_{nc}$ ($\mu g/m^3$)**	Inhalation Unit Risk $(\mu g/m^3)^{-1}$	Indoor Air $SSCG_c$ ($\mu g/m^3$)	**Sub-Slab Soil Vapor $SSCG_c$ ($\mu g/m^3$)**
142-82-5	Heptane	7.0E-01	7.3E+02	**7.3E+05**	NC	--	**--**
87-68-3	Hexachloro-1,3-butadiene	3.5E-03	3.7E+00	**3.7E+03**	2.2E-05	1.1E-01	**1.1E+02**
110-54-3	Hexane	7.0E-01	7.3E+02	**7.3E+05**	NC	--	**--**
67-63-0	Isopropanol	7.0E+00	7.3E+03	**7.3E+06**	NC	--	**--**
98-82-8	Isopropylbenzene (cumene)	4.0E-01	4.2E+02	**4.2E+05**	NC	--	**--**
78-93-3	Methyl ethyl ketone (2-butanone)	5.0E+00	5.2E+03	**5.2E+06**	NC	--	**--**
75-09-2	Methylene chloride	6.0E-01	6.3E+02	**6.3E+05**	1.0E-06	2.4E+00	**2.4E+03**
1634-04-4	Methyl-tert-butyl ether	3.0E+00	3.1E+03	**3.1E+06**	2.6E-07	9.4E+00	**9.4E+03**
91-20-3	Naphthalene	3.0E-03	3.1E+00	**3.1E+03**	3.4E-05	7.2E-02	**7.2E+01**
103-65-1	Propylbenzene	1.0E+00	1.0E+03	**1.0E+06**	NC	--	**--**
75-65-0	tert-Butyl Alcohol (TBA)	1.1E+00	1.1E+03	**1.1E+06**	NC	--	**--**
127-18-4	Tetrachloroethene	4.0E-02	4.2E+01	**4.2E+04**	5.9E-06	4.1E-01	**4.1E+02**
109-99-9	Tetrahydrofuran	2.0E+00	2.1E+03	**2.1E+06**	NC	--	**--**
108-88-3	Toluene	5.0E+00	5.2E+03	**5.2E+06**	NC	--	**--**
79-01-6	Trichloroethene	2.0E-03	2.1E+00	**2.1E+03**	4.1E-06	4.3E-01	**4.3E+02**
75-01-4	Vinyl chloride	1.0E-01	1.0E+02	**1.0E+05**	7.8E-05	3.1E-02	**3.1E+01**
108-38-3	Xylene, m-	1.0E-01	1.0E+02	**1.0E+05**	NC	--	**--**
95-47-6	Xylene, o-	1.0E-01	1.0E+02	**1.0E+05**	NC	--	**--**
106-42-3	Xylene, p-	1.0E-01	1.0E+02	**1.0E+05**	NC	--	**--**
	TPH						
	Aliphatic: C5-C8	7.0E-01	7.3E+02	**7.3E+05**	NC	--	**--**
	Aliphatic: C9-C18	3.0E-01	3.1E+02	**3.1E+05**	NC	--	**--**
	Aliphatic: C19-C32	NA	--	**--**	NC	--	**--**
	Aromatic: C6-C8	NA	--	**--**	NC	--	**--**
	Aromatic: C9-C16	5.0E-02	5.2E+01	**5.2E+04**	NC	--	**--**
	Aromatic: C17-C32	NA	--	**--**	NC	--	**--**

Note: " -- " not applicable or not available

Attachment A1, Table A1-5
Derivation of Site-Specific Cleanup Goals, Soil
Construction and Utility Maintenance Worker
Former Kast Property
Carson, California

CAS Number	Chemical of Concern	Noncancer Effects							Cancer Effects						
		Ingestion		Dermal Contact		Outdoor Inhalation		$SSCG_{soil-nc}$ (mg/kg)	Ingestion		Dermal Contact		Outdoor Inhalation		$SSCG_{soil-c}$ (mg/kg)
		IF_{oral} (mg/kg-day)	Reference Dose (mg/kg-day)	IF_{dermal} (mg/kg-day)	Reference Dose (mg/kg-day)	$EC_{inh,soil}$ (mg/m^3-mg/kg)	Reference Concentration (mg/m^3)		IF_{oral} (mg/kg-day)	Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	IF_{dermal} (mg/kg-day)	Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	$EC_{inh,soil}$ (mg/m^3-mg/kg)	Inhalation Unit Risk $(\mu g/m^3)^{-1}$	
	Inorganics														
7440-36-0	Antimony	1.3E-07	4.0E-04	--	6.0E-05	2.7E-08	NA	**3.1E+03**	4.6E-08	NC	--	NC	9.8E-09	NC	--
7440-38-2	Arsenic	1.3E-07	3.0E-04	5.4E-08	3.0E-04	2.7E-08	1.5E-05	**4.1E+02**	4.6E-08	9.5E+00	1.9E-08	9.5E+00	9.8E-09	3.3E-03	**1.5E+01**
7440-43-9	Cadmium	1.3E-07	1.0E-03	1.8E-09	2.5E-05	2.7E-08	2.0E-05	**6.4E+02**	4.6E-08	NC	6.4E-10	NC	9.8E-09	4.2E-03	**2.4E+02**
18540-29-9	Chromium VI	1.3E-07	3.0E-03	--	7.5E-05	2.7E-08	1.0E-04	**3.2E+03**	4.6E-08	5.0E-01	--	NC	9.8E-09	1.5E-01	**6.7E+00**
7440-48-4	Cobalt	1.3E-07	3.0E-04	--	3.0E-04	2.7E-08	6.0E-06	**2.0E+02**	4.6E-08	NC	--	NC	9.8E-09	9.0E-03	**1.1E+02**
7440-50-8	Copper	1.3E-07	4.0E-02	--	4.0E-02	2.7E-08	NA	**3.1E+05**	4.6E-08	NC	--	NC	9.8E-09	NC	--
7439-92-1	Lead	1.3E-07	NA	--	NA	2.7E-08	NA	--	4.6E-08	NC	--	NC	9.8E-09	NC	--
7440-28-0	Thallium	1.3E-07	1.0E-05	--	1.0E-05	2.7E-08	NA	**7.7E+01**	4.6E-08	NC	--	NC	9.8E-09	NC	--
7440-62-2	Vanadium	1.3E-07	5.0E-03	--	5.0E-03	2.7E-08	1.0E-04	**3.3E+03**	4.6E-08	NC	--	NC	9.8E-09	NC	--
7440-66-6	Zinc	1.3E-07	3.0E-01	--	3.0E-01	2.7E-08	NA	**2.3E+06**	4.6E-08	NC	--	NC	9.8E-09	NC	--
	PAHs														
56-55-3	Benz[a]anthracene	1.3E-07	NA	2.3E-07	NA	2.7E-08	NA	--	4.6E-08	2.9E-01	8.3E-08	2.9E-01	9.8E-09	1.1E-04	**2.6E+02**
50-32-8	Benzo[a]pyrene	1.3E-07	NA	2.3E-07	NA	2.7E-08	NA	--	4.6E-08	2.9E+00	8.3E-08	2.9E+00	9.8E-09	1.1E-03	**2.6E+01**
205-99-2	Benzo[b]fluoranthene	1.3E-07	NA	2.3E-07	NA	2.7E-08	NA	--	4.6E-08	2.9E-01	8.3E-08	2.9E-01	9.8E-09	1.1E-04	**2.6E+02**
207-08-9	Benzo[k]fluoranthene	1.3E-07	NA	2.3E-07	NA	2.7E-08	NA	--	4.6E-08	2.9E-01	8.3E-08	2.9E-01	9.8E-09	1.1E-04	**2.6E+02**
218-01-9	Chrysene	1.3E-07	NA	2.3E-07	NA	2.7E-08	NA	--	4.6E-08	2.9E-02	8.3E-08	2.9E-02	9.8E-09	1.1E-05	**2.6E+03**
53-70-3	Dibenz[a,h]anthracene	1.3E-07	NA	2.3E-07	NA	2.7E-08	NA	--	4.6E-08	4.1E+00	8.3E-08	4.1E+00	9.8E-09	1.2E-03	**1.9E+01**
193-39-5	Indeno[1,2,3-cd]pyrene	1.3E-07	NA	2.3E-07	NA	2.7E-08	NA	--	4.6E-08	2.9E-01	8.3E-08	2.9E-01	9.8E-09	1.1E-04	**2.6E+02**
90-12-0	Methylnaphthalene, 1-	1.3E-07	7.0E-02	2.3E-07	7.0E-02	1.7E-05	NA	**1.9E+05**	4.6E-08	2.9E-02	8.3E-08	2.9E-02	6.0E-06	NC	**2.7E+03**
91-57-6	Methylnaphthalene, 2-	1.3E-07	4.0E-03	2.3E-07	4.0E-03	1.7E-05	NA	**1.1E+04**	4.6E-08	NC	8.3E-08	NC	6.2E-06	NC	--
91-20-3	Naphthalene	1.3E-07	2.0E-02	2.3E-07	2.0E-02	2.1E-05	3.0E-03	**1.4E+02**	4.6E-08	NC	8.3E-08	NC	7.6E-06	3.4E-05	**3.9E+01**
129-00-0	Pyrene	1.3E-07	3.0E-02	2.3E-07	3.0E-02	3.1E-07	1.1E-01	**6.7E+04**	4.6E-08	NC	8.3E-08	NC	1.1E-07	NC	--
	TPH														
1	Aliphatic: C5-C8	1.3E-07	4.0E-02	2.3E-07	4.0E-02	8.4E-04	7.0E-01	**8.3E+02**	4.6E-08	NC	8.3E-08	NC	3.0E-04	NC	--
2	Aliphatic: C9-C18	1.3E-07	1.0E-01	2.3E-07	1.0E-01	1.9E-04	3.0E-01	**1.6E+03**	4.6E-08	NC	8.3E-08	NC	6.8E-05	NC	--
3	Aliphatic: C19-C32	1.3E-07	2.0E+00	2.3E-07	2.0E+00	--	NA	**5.5E+06**	4.6E-08	NC	8.3E-08	NC	--	NC	--
4	Aromatic: C6-C8	1.3E-07	NA	2.3E-07	NA	2.8E-04	NA	--	4.6E-08	NC	8.3E-08	NC	9.8E-05	NC	--
5	Aromatic: C9-C16	1.3E-07	3.0E-02	2.3E-07	3.0E-02	6.6E-05	5.0E-02	**7.5E+02**	4.6E-08	NC	8.3E-08	NC	2.3E-05	NC	--

Attachment A1, Table A1-5
Derivation of Site-Specific Cleanup Goals, Soil
Construction and Utility Maintenance Worker
Former Kast Property
Carson, California

CAS Number	Chemical of Concern	Noncancer Effects							Cancer Effects						
		Ingestion		Dermal Contact		Outdoor Inhalation			Ingestion		Dermal Contact		Outdoor Inhalation		
		IF_{oral} (mg/kg-day)	Reference Dose (mg/kg-day)	IF_{dermal} (mg/kg-day)	Reference Dose (mg/kg-day)	$EC_{inh,soil}$ (mg/m^3-mg/kg)	Reference Concentration (mg/m^3)	**$SSCG_{soil-nc}$** (mg/kg)	IF_{oral} (mg/kg-day)	Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	IF_{dermal} (mg/kg-day)	Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$	$EC_{inh,soil}$ (mg/m^3-mg/kg)	Inhalation Unit Risk $(\mu g/m^3)^{-1}$	**$SSCG_{soil-c}$** (mg/kg)
6	Aromatic: C17-C32	1.3E-07	3.0E-02	2.3E-07	3.0E-02	--	NA	**8.3E+04**	4.6E-08	NC	8.3E-08	NC	--	NC	**--**
	SVOCs														
121-14-2	2,4-Dinitrotoluene	1.3E-07	2.0E-03	1.8E-07	2.0E-03	2.7E-08	7.0E-03	**6.3E+03**	4.6E-08	3.1E-01	6.5E-08	3.1E-01	9.8E-09	8.9E-05	**2.8E+02**
117-81-7	Bis(2-Ethylhexyl) Phthalate	1.3E-07	2.0E-02	1.8E-07	2.0E-02	2.7E-08	7.0E-02	**6.3E+04**	4.6E-08	1.4E-02	6.4E-08	1.4E-02	9.8E-09	2.4E-06	**6.4E+03**
	VOCs														
79-34-5	1,1,2,2-Tetrachloroethane	1.3E-07	2.0E-02	--	2.0E-02	8.4E-05	7.0E-02	**8.3E+02**	4.6E-08	2.7E-01	--	2.7E-01	3.0E-05	5.8E-05	**5.7E+00**
96-18-4	1,2,3-Trichloropropane	1.3E-07	4.0E-03	--	4.0E-03	1.5E-04	3.0E-04	**2.0E+00**	4.6E-08	3.0E+01	--	3.0E+01	5.5E-05	NC	**7.2E+00**
95-63-6	1,2,4-Trimethylbenzene	1.3E-07	1.0E-02	--	1.0E-02	9.3E-05	7.0E-03	**7.5E+01**	4.6E-08	NC	--	NC	3.3E-05	NC	**--**
78-87-5	1,2-Dichloropropane	1.3E-07	9.0E-02	--	9.0E-02	3.3E-04	4.0E-03	**1.2E+01**	4.6E-08	3.6E-02	--	3.6E-02	1.2E-04	1.0E-05	**8.5E+00**
108-67-8	1,3,5-Trimethylbenzene	1.3E-07	1.0E-02	--	1.0E-02	9.0E-05	7.0E-03	**7.7E+01**	4.6E-08	NC	--	NC	3.2E-05	NC	**--**
106-46-7	1,4-Dichlorobenzene	1.3E-07	7.0E-02	--	7.0E-02	9.1E-05	8.0E-01	**8.7E+03**	4.6E-08	5.4E-03	--	5.4E-03	3.2E-05	1.1E-05	**2.8E+01**
71-43-2	Benzene	1.3E-07	4.0E-03	--	4.0E-03	4.3E-04	3.0E-02	**6.9E+01**	4.6E-08	1.0E-01	--	1.0E-01	1.5E-04	2.9E-05	**2.2E+00**
75-27-4	Bromodichloromethane	1.3E-07	2.0E-02	--	2.0E-02	1.4E-04	7.0E-02	**4.9E+02**	4.6E-08	1.3E-01	--	1.3E-01	5.1E-05	3.7E-05	**5.3E+00**
74-83-9	Bromomethane	1.3E-07	1.4E-03	--	1.4E-03	6.4E-04	5.0E-03	**7.8E+00**	4.6E-08	NC	--	NC	2.3E-04	NC	**--**
100-41-4	Ethylbenzene	1.3E-07	1.0E-01	--	1.0E-01	2.2E-04	1.0E+00	**4.5E+03**	4.6E-08	1.1E-02	--	1.1E-02	7.8E-05	2.5E-06	**5.1E+01**
75-09-2	Methylene chloride	1.3E-07	6.0E-03	--	6.0E-03	4.7E-04	6.0E-01	**1.2E+03**	4.6E-08	1.4E-02	--	1.4E-02	1.7E-04	1.0E-06	**5.9E+01**
127-18-4	Tetrachloroethene	1.3E-07	6.0E-03	--	6.0E-03	4.6E-04	4.0E-02	**8.6E+01**	4.6E-08	5.4E-01	--	5.4E-01	1.7E-04	5.9E-06	**1.0E+01**
79-01-6	Trichloroethene	1.3E-07	5.0E-04	--	5.0E-04	3.6E-04	2.0E-03	**5.5E+00**	4.6E-08	4.6E-02	--	4.6E-02	1.3E-04	4.1E-06	**1.9E+01**
75-01-4	Vinyl chloride	1.3E-07	3.0E-03	--	3.0E-03	1.1E-03	1.0E-01	**8.7E+01**	4.6E-08	2.7E-01	--	2.7E-01	4.1E-04	7.8E-05	**3.1E-01**

Note: " -- " not applicable

Attachment A1, Table A1-6
Derivation of Site-Specific Cleanup Goals, Soil Vapor
Construction and Utility Maintenance Worker
Former Kast Property
Carson, California

CAS Number	Chemical of Concern	VF_{SV-OA} ($\mu g/m^3$-$\mu g/m^3$)	Noncancer Effects			Cancer Effects		
			Exposure Concentration (EC_{SV-OA}) (mg/m^3)	Reference Concentration (mg/m^3)	**Soil Vapor $SSCG_{nc}$** ($\mu g/m^3$)	Exposure Concentration (EC_{SV-OA}) (mg/m^3)	Inhalation Unit Risk $(\mu g/m^3)^{-1}$	**Soil Vapor $SSCG_c$** ($\mu g/m^3$)
71-55-6	1,1,1-Trichloroethane	4.0E+04	6.8E-10	5.0E+00	**7.4E+09**	2.4E-10	NC	--
79-34-5	1,1,2,2-Tetrachloroethane	7.0E+03	3.9E-09	7.0E-02	**1.8E+07**	1.4E-09	5.8E-05	**1.2E+05**
79-00-5	1,1,2-Trichloroethane	1.4E+04	2.0E-09	2.0E-04	**1.0E+05**	7.1E-10	1.6E-05	**8.6E+05**
75-34-3	1,1-Dichloroethane	3.9E+04	7.1E-10	7.0E-01	**9.9E+08**	2.5E-10	1.6E-06	**2.5E+07**
120-82-1	1,2,4-Trichlorobenzene	5.4E+03	5.1E-09	2.0E-03	**3.9E+05**	1.8E-09	NC	--
95-63-6	1,2,4-Trimethylbenzene	9.0E+03	3.0E-09	7.0E-03	**2.3E+06**	1.1E-09	NC	--
107-06-2	1,2-Dichloroethane	1.7E+04	1.6E-09	7.0E-03	**4.4E+06**	5.7E-10	2.1E-05	**8.5E+05**
78-87-5	1,2-Dichloropropane	2.5E+04	1.1E-09	4.0E-03	**3.6E+06**	3.9E-10	1.0E-05	**2.5E+06**
108-67-8	1,3,5-Trimethylbenzene	8.8E+03	3.1E-09	7.0E-03	**2.3E+06**	1.1E-09	NC	--
106-99-0	1,3-Butadiene	5.0E+04	5.5E-10	2.0E-03	**3.7E+06**	2.0E-10	1.7E-04	**3.0E+05**
106-46-7	1,4-Dichlorobenzene	7.8E+03	3.5E-09	8.0E-01	**2.3E+08**	1.3E-09	1.1E-05	**7.2E+05**
123-91-1	1,4-Dioxane	1.2E+03	2.3E-08	3.0E+00	**1.3E+08**	8.1E-09	7.7E-06	**1.6E+05**
540-84-1	2,2,4-Trimethylpentane	1.8E+04	1.5E-09	1.0E+00	**6.5E+08**	5.5E-10	NC	--
591-78-6	2-Hexanone	7.2E+03	3.8E-09	3.0E-02	**7.9E+06**	1.4E-09	NC	--
622-96-8	4-Ethyltoluene	6.7E+03	4.1E-09	1.0E-01	**2.5E+07**	1.5E-09	NC	--
71-43-2	Benzene	2.9E+04	9.5E-10	3.0E-02	**3.2E+07**	3.4E-10	2.9E-05	**1.0E+06**
75-27-4	Bromodichloromethane	2.8E+04	9.7E-10	7.0E-02	**7.2E+07**	3.5E-10	3.7E-05	**7.8E+05**
74-83-9	Bromomethane	5.2E+04	5.3E-10	5.0E-03	**9.5E+06**	1.9E-10	NC	--
75-15-0	Carbon disulfide	5.6E+04	4.9E-10	7.0E-01	**1.4E+09**	1.7E-10	NC	--
56-23-5	Carbon tetrachloride	4.3E+04	6.3E-10	1.0E-01	**1.6E+08**	2.3E-10	4.2E-05	**1.1E+06**
67-66-3	Chloroform	2.5E+04	1.1E-09	9.8E-02	**9.0E+07**	3.9E-10	5.3E-06	**4.9E+06**
74-87-3	Chloromethane	5.1E+04	5.4E-10	9.0E-02	**1.7E+08**	1.9E-10	NC	--
110-82-7	Cyclohexane	8.2E+04	3.3E-10	6.0E+00	**1.8E+10**	1.2E-10	NC	--
124-48-1	Dibromochloromethane	2.3E+04	1.2E-09	7.0E-02	**6.0E+07**	4.2E-10	2.7E-05	**8.8E+05**
156-59-2	Dichloroethene, cis-1,2-	3.3E+04	8.4E-10	7.0E-03	**8.3E+06**	3.0E-10	NC	--
156-60-5	Dichloroethene, trans-1,2-	4.2E+04	6.5E-10	6.0E-02	**9.3E+07**	2.3E-10	NC	--
10061-02-6	Dichloropropene, trans-1,3-	6.1E+04	4.5E-10	2.0E-02	**4.4E+07**	1.6E-10	1.6E-05	**3.9E+06**
64-17-5	Ethanol	1.3E+03	2.1E-08	4.0E+00	**1.9E+08**	7.4E-09	NC	--
100-41-4	Ethylbenzene	1.7E+04	1.6E-09	1.0E+00	**6.3E+08**	5.7E-10	2.5E-06	**7.0E+06**

Attachment A1, Table A1-6
Derivation of Site-Specific Cleanup Goals, Soil Vapor
Construction and Utility Maintenance Worker
Former Kast Property
Carson, California

CAS Number	Chemical of Concern	VF_{SV-OA} ($\mu g/m^3$-$\mu g/m^3$)	Noncancer Effects			Cancer Effects		
			Exposure Concentration (EC_{SV-OA}) (mg/m^3)	Reference Concentration (mg/m^3)	**Soil Vapor $SSCG_{nc}$** ($\mu g/m^3$)	Exposure Concentration (EC_{SV-OA}) (mg/m^3)	Inhalation Unit Risk $(\mu g/m^3)^{-1}$	**Soil Vapor $SSCG_c$** ($\mu g/m^3$)
142-82-5	Heptane	9.2E+04	3.0E-10	7.0E-01	**2.3E+09**	1.1E-10	NC	--
87-68-3	Hexachloro-1,3-butadiene	1.7E+03	1.6E-08	3.5E-03	**2.2E+05**	5.7E-09	2.2E-05	**8.0E+04**
110-54-3	Hexane	6.5E+04	4.2E-10	7.0E-01	**1.7E+09**	1.5E-10	NC	--
67-63-0	Isopropanol	2.2E+03	1.2E-08	7.0E+00	**5.7E+08**	4.4E-09	NC	--
98-82-8	Isopropylbenzene (cumene)	1.0E+05	2.8E-10	4.0E-01	**1.5E+09**	9.8E-11	NC	--
78-93-3	Methyl ethyl ketone (2-butanone)	6.3E+03	4.3E-09	5.0E+00	**1.1E+09**	1.6E-09	NC	--
75-09-2	Methylene chloride	2.8E+04	9.9E-10	6.0E-01	**6.1E+08**	3.5E-10	1.0E-06	**2.8E+07**
1634-04-4	Methyl-tert-butyl ether	1.6E+04	1.7E-09	3.0E+00	**1.8E+09**	5.9E-10	2.6E-07	**6.5E+07**
91-20-3	Naphthalene	2.1E+03	1.3E-08	3.0E-03	**2.3E+05**	4.6E-09	3.4E-05	**6.3E+04**
103-65-1	Propylbenzene	1.8E+04	1.5E-09	1.0E+00	**6.6E+08**	5.4E-10	NC	--
75-65-0	tert-Butyl Alcohol (TBA)	6.7E+03	4.1E-09	1.1E+00	**2.6E+08**	1.5E-09	NC	--
127-18-4	Tetrachloroethene	3.8E+04	7.2E-10	4.0E-02	**5.5E+07**	2.6E-10	5.9E-06	**6.6E+06**
109-99-9	Tetrahydrofuran	6.7E+03	4.1E-09	2.0E+00	**4.9E+08**	1.5E-09	NC	--
108-88-3	Toluene	2.0E+04	1.4E-09	5.0E+00	**3.7E+09**	4.9E-10	NC	--
79-01-6	Trichloroethene	2.7E+04	1.0E-09	2.0E-03	**2.0E+06**	3.6E-10	4.1E-06	**6.7E+06**
75-01-4	Vinyl chloride	6.3E+04	4.3E-10	1.0E-01	**2.3E+08**	1.5E-10	7.8E-05	**8.3E+05**
108-38-3	Xylene, m-	1.6E+04	1.7E-09	1.0E-01	**6.0E+07**	6.0E-10	NC	--
95-47-6	Xylene, o-	1.3E+04	2.1E-09	1.0E-01	**4.8E+07**	7.5E-10	NC	--
106-42-3	Xylene, p-	1.6E+04	1.7E-09	1.0E-01	**5.9E+07**	6.0E-10	NC	--
	TPH							
	Aliphatic: C5-C8	4.7E+04	5.8E-10	7.0E-01	**1.2E+09**	2.1E-10	NC	--
	Aliphatic: C9-C18	1.1E+04	2.5E-09	3.0E-01	**1.2E+08**	9.0E-10	NC	--
	Aliphatic: C19-C32	--	--	NA	--	--	NC	--
	Aromatic: C6-C8	1.6E+04	1.8E-09	NA	--	6.3E-10	NC	--
	Aromatic: C9-C16	3.7E+03	7.4E-09	5.0E-02	**6.7E+06**	2.6E-09	NC	--
	Aromatic: C17-C32	--	--	NA	--	--	NC	--

Note: " -- " not applicable or not available

Attachment A1, Table A1-7

Derivation of Site-Specific Cleanup Goal, Lead in Soil
Construction and Utility Maintenance Worker

Former Kast Property

Carson, California

Calculations of Preliminary Remediation Goals (PRGs)

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 6/21/09

Variable	Description of Variable	Units	GSDi and PbBo from Analysis of NHANES 1999-2004
$PbB_{fetal,\ 0.90}$	90^{th} percentile PbB in fetus	ug/dL	1
$R_{fetal/maternal}$	Fetal/maternal PbB ratio	--	0.9
BKSF	Biokinetic Slope Factor	ug/dL per ug/day	0.4
GSD_i	Geometric standard deviation PbB	--	1.8
PbB_0	Baseline PbB	ug/dL	0.0
IR_S	Soil ingestion rate (including soil-derived indoor dust)	g/day	0.100
$AF_{S,\ D}$	Absorption fraction (same for soil and dust)	--	0.12
$EF_{S,\ D}$	Exposure frequency (same for soil and dust)	days/yr	12
$AT_{S,\ D}$	Averaging time (same for soil and dust)	days/yr	90
PRG		**mg/kg**	**818**

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ATTACHMENT A2

Background Evaluation

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Attachment A2
Detailed Background Evaluation
Former Kast Property
Carson, California

Introduction

This attachment presents the background evaluation methodology and results used to derive background-based Site-specific cleanup goals (SSCGs) for metals and carcinogenic polyaromatic hydrocarbons (cPAHs) detected in soil at the former Kast Property (Site) located in Carson, California. The evaluation builds upon the preliminary evaluation presented previously (Geosyntec, 2011) and includes samples from locations not anticipated to be affected by the Site and that represent local and regional background.

Purpose

The purpose of this report is to *i)* identify locally representative background data for metals and cPAHs from locations that are not affected by Site impacts; *ii)* evaluate the selected background datasets graphically and statistically including outlier analysis to develop a representative background dataset; *iii)* develop background threshold values for metals and cPAHs for use in background evaluation using local and regulatory approved regional background datasets; and *iv)* present the methodology that will be used to compare Site datasets with background thresholds to determine if metals or cPAHs are above or below background and should be carried forward for further risk evaluation.

Approach

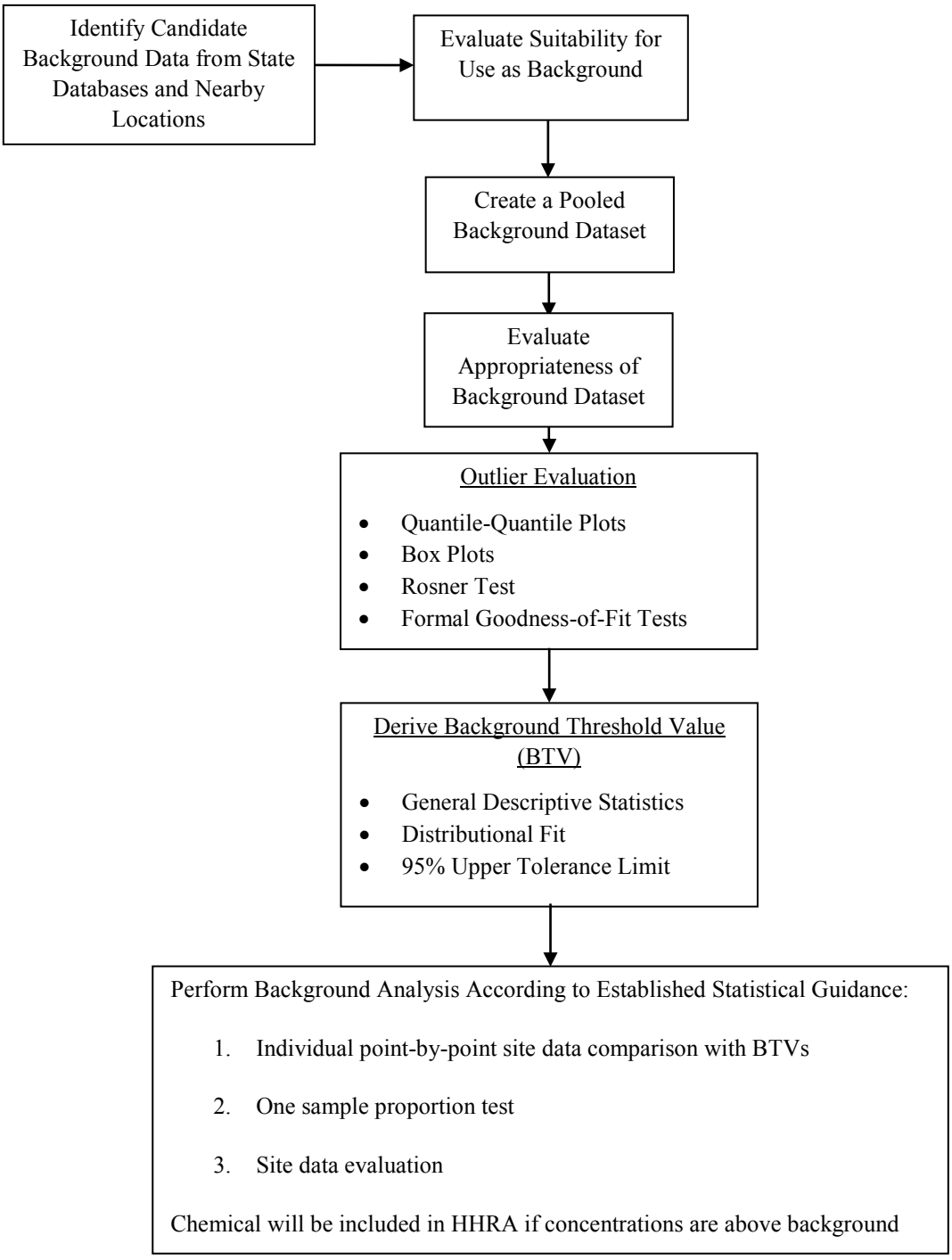
Metals may be naturally occurring in the environment. According to the California Department of Toxic Substances (DTSC) (Cal-EPA DTSC 2009a, 2009b, Cal-EPA, 1997) for naturally occurring materials such as metals, an evaluation of background concentrations is important to evaluate whether the metals concentrations on the property are consistent with naturally occurring levels in the area, and whether they should be included in the risk assessment. If concentrations of a metal are within background, the metal is not considered a Chemical of Concern (COC) and is not evaluated further.

In addition to metals, cPAHs can be naturally occurring or present at ambient levels not associated with former site activities. A background dataset and methodology has been developed by DTSC that can be used to evaluate the presence of cPAHs in soil (Cal-EPA DTSC, 2009c).

The background evaluation considered:

1. Offsite background data collected for the project;
2. Data collected from nearby locations that represent local background; and
3. Regulatory approved regional background concentrations for southern California soils.

The approach that was used to perform the background data evaluation is illustrated in the flow chart below.



Background Site Selection

The background locations used to create a local background database include:

- Banning Park,
- Banning Elementary School,
- Wilmington Middle School, and
- Wilmington Recreation Center.

These locations were previously identified in the Background Soil Evaluation Work Plan (Geosyntec 2010). The use of background datasets from nearby locations in the vicinity of the Site is consistent with the approaches and methodologies used by DTSC and other agencies to evaluate regional background datasets such as arsenic or cPAHs both for southern and northern California regions (DTSC, 2009a; DTSC, 2009c). The regional datasets show that background values can vary by location. The use of several background datasets is anticipated to capture these variabilities and provide a more representative background value.

Banning Park
Banning Park was selected as a potential background location as the site did not appear to have been developed for commercial or industrial use and according to the review of historical aerial photographs from the Los Angeles Regional Water Quality Control Board's (LARWQCB) Geotracker database (Geotracker); the site was not impacted by nearby historical operations. The park is developed with a museum situated on 20-acres of parkland. The museum was formerly a residence built in 1864. The residence and parkland were acquired by the City of Los Angeles in 1927. A total of 30 soil samples were collected from ten soil borings placed at 0.5, 2 and 5 feet (ft) below ground surface (bgs). The Banning Park background samples were analyzed for metals and cPAHs.

Banning Elementary School and Wilmington Middle School
Data previously collected to support site characterization at nearby school locations including Banning Elementary School and Wilmington Middle School were considered for inclusion in the background dataset. At Banning Elementary school, 63 soil samples were collected at depths 0, 0.5, 1 and 5 ft bgs and analyzed for metals; while at Wilmington Middle School five soil samples were collected at 0.5 and 5 ft bgs and analyzed for metals and cPAHs.

Wilmington Recreation Center
Eight background soil samples were collected at Wilmington Recreation Center as part of the environmental investigations performed for the LAUSD new schools construction program. These data are reported in the PEA for Banning Elementary School. The samples were collected at 0.5 and 2.5 to 3 ft bgs and analyzed for metals.

Evaluation of Background Datasets

Comparison of Background Samples by Depth

The background samples were obtained from several depths ranging from 0 to 5 ft bgs. To evaluate whether the samples could be combined into a single dataset, the samples were evaluated for significant difference by depth to determine if shallower samples were statistically different than surface samples. Samples between 0 to 2 ft bgs (surface) and >2 to 5 ft bgs (shallow), and with percent detection above 50%, were statistically compared using the non-parametric Mann-Whitney method at 0.05 significance level. The results show that the majority of metals concentrations (except cadmium, copper, lead and zinc) are not significantly different by depth. The Mann Whitney analysis was not suitable for comparison of equality for cPAHs as B(a)P-equivalents by depth, as samples >2 to 5 ft bgs have more than an 85% frequency of non-detect samples. A two-sample proportions test, applicable for comparing samples with high degree of non-detection, however indicates that cPAHs are statistically different by depth. This may be due to higher near surface ambient concentrations as a result of anthropogenic sources. While there were some differences by depth, datasets were combined to reflect the depth interval of interest for exposure potential and to provide for a larger dataset. The statistical analysis report (Minitab software output) is presented in Attachment A2-1.

Outlier Evaluation

Since two of the datasets were from investigations for school sites and were not specifically background sample datasets, an outlier analysis was conducted consistent with DTSC guidance for evaluating background (DTSC, 2009a). The background datasets were screened for suspect or potential outliers using *(i)* box plots, *(ii)* Q-Q plots, *(iii)* probability plots or underlying distributions (Goodness of fit test), *(iv)* Rosner outlier test, and *(v)* professional judgment based on established regional background thresholds and historical land use.

Samples higher than the three-interquartile range (3IR) on box plots were identified as suspect outliers and were further evaluated using the formal outlier test (Rosner test). Suspect outliers were also evaluated using Q-Q plots and goodness-of-fit tests on detected datasets. The Q-Q probability plots for the best fit distribution for each metal and cPAH (as benzo(a)pyrene equivalent) were examined for the presence of inflections and break-points, which could be used to identify multiple populations or outlier concentrations. A probability-plot (i.e., normal, lognormal, or gamma) partitioning was used to identify outliers as well as other patterns in the data that could signify the presence of multiple statistical populations. A weight of evidence approach based on the results of all the above methodologies was considered when determining whether a suspect outlier was eliminated or included in the background dataset. Suspect outliers that were persistently identified in all of these methods were further evaluated with respect to

sample location, depth or correlation to known contaminated locations or other pertinent evidence. Outlier evaluation of each chemical, as part of a background metals evaluation is provided in Attachment A2-1.

Development of a Background Threshold Value

Background Threshold Values (BTVs) are single-point background thresholds that represent an upper plausible limit of the background distributions of individual compounds (EPA 2009a, 2009b; Helsel 2005). Threshold limits are most often based on an upper percentile of the background distribution (such as 90th, 95th, or 99th percentile), an upper confidence limit of an upper percentile (that is, an upper tolerance limit or UTL). Consistent with Cal-EPA guidance (Cal-EPA DTSC 2009a), the UTL was derived. Following EPA's guidance, a minimum of 8 to 10 or more samples are required to estimate BTVs. When detected observations are less than 4 to 6, the maximum detected sample could be used to estimate the BTV. When all the background samples are non-detects, the BTV will also be a non-detect. The smaller of the sample maximum and calculated BTV were used as the chemical BTV. Development of the BTV for each chemical is presented in Attachment A2-1.

Background Thresholds from State Regulatory Datasets

In addition to the BTVs derived from the data discussed above, well established regulatory approved regional background thresholds for arsenic and cPAHs in soil were considered. These thresholds have been used for many sites within the Los Angeles Area to identify chemicals of potential concern for risk assessments as well as used as remedial goals for site cleanups for unrestricted or residential land use. For arsenic, the DTSC background concentration for southern California sites of 12 mg/kg (Cal-EPA DTSC, 2007) will be used. In addition to metals, PAHs can be naturally occurring or present at ambient levels not associated with former site activities. A background dataset and methodology has been developed that can be used to evaluate the presence of PAHs in soil (Cal-EPA DTSC, 2009c). Consistent with agency-approved risk assessment practice in California, the DTSC-developed background concentration of 0.9 mg/kg benzo(a)pyrene equivalents (Bap-eq) will be used to evaluate cPAHs results. These values will be used as the BTVs for the Site.

Comparison of Site and Background Datasets

Due to the preponderance of Site data (over 10,000 samples and 285 individual study areas), a streamlined approach was developed to evaluate background at the Site. In the first step, Site samples will be compared to the BTVs to evaluate whether onsite metal or cPAH concentrations are above or below background concentrations. In the second step, for those areas where samples are above the BTV, a proportion test will be conducted to further evaluate whether

observed concentrations are above background. If onsite concentrations are below background, the area will not be evaluated further in the risk assessment process. The background comparison will be conducted as part of the full Human Health Risk Assessment (HHRA) that will be conducted once the Phase II Site Characterization work is complete. It is anticipated that the HHRA will be included in the Remedial Action Plan (RAP).

As mentioned above, the approach used to compare Site datasets against background thresholds includes:

- Point by point comparison of Site datasets and BTV;
- One-sample hypothesis testing (Proportion test); and
- Site data evaluation

Point-by-Point Comparison

The point-by-point comparison method will initially be used as a conservative screen to identify chemicals that may be present at concentrations above background. If a chemical is found to be above background, the proportion test will be used to further evaluate the data.

One-sample proportion test

For chemicals that are present at concentrations above the BTV, a one-sample proportion test will be used to compare the Site data with the BTVs. This is consistent with agency guidance that states that when BTVs and cleanup standards are known, one-sample hypotheses are used to compare site data with the known and pre-established threshold values (USEPA, 2010). The one-sample proportion test is a test for proportion and will be used to compare the proportion of Site data exceeding the BTV with a pre-specified allowable proportion of exceedance (5%). The proportion test is non-parametric and therefore can be used with censored datasets in which there is a large proportion on non-detect values. The proportion test is used to detect a significant difference or a shift in the upper tail of the site data distribution. A significant shift in the upper tail of the site dataset as compared to background may indicate that the site has been impacted for that particular chemical. A 5% level of significance ($p < 0.05$) will be used to evaluate all tests.

Site Data Evaluation

A more detailed analysis may be conducted to further evaluate if chemicals are present at the Site above background, especially for chemicals that do not have local or regional background datasets or were nondetect in the background datasets. Methods described in Cal-EPA guidance *Selecting Inorganic Constituents as Chemicals of Potential Concern at Risk Assessments at Hazardous Waste Sites and Permitted Facilities* (Cal-EPA, 1997) describe ways that the Site

data can be evaluated to determine if observed concentrations are consistent with background. Natural metals distributions are widely observed to be normal or to have a low to moderate skewness that is well approximated by a lognormal distribution (Cal-EPA 1997). Cal-EPA also states that samples from such distributions generally range by no more than one order of magnitude and that the sample coefficients of variation (CV, standard deviation/mean) are also no greater than one. Substantial departures from these traits, referred to here as natural population indicators, will be used to indicate the presence of multiple populations in the sample, which may indicate the presence of chemical concentrations above background. As a part of the evaluation, visual observation of the data will be conducted using probability plots to determine if multiple populations are present.

If the concentrations of a chemical are found to be above background after these three steps the chemical will be included in the HHRA.

References

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Attachment A2-1
Detailed Background Evaluation

1. Background Metals Data Evaluation

The summary statistics of the metals and cPAH background databases are provided in Table A2-1. Background Threshold Values (BTVs) are presented in Tables A2-2 and A2-3. Box plots and probability plots of the background datasets are provided in Figures A2-1 through A2-3.

Box plots based on three times the interquartile range (3IR), Q-Q plots and probability plots for outlier evaluation are shown on Figures A2-4-1 through A2-4-18. ProUCL output of the Rosner outlier test is provided in Attachment A2-1.

Goodness of fit test of background samples before and after elimination of suspect outliers is shown in Attachment A2-1. Summary of the background threshold values (BTV) after elimination of suspect outliers is provided in Table A2-2. ProUCL output of the upper threshold analysis is shown in Attachment A2-1.

Antimony (N=106, ND=99.06%)
Antimony has 106 samples all obtained from 0 to 5 ft bgs. There is only one detected sample at 0.74 mg/kg (99% non-detection). Since the %ND is significantly large, there is no reliable statistical analysis that can be performed on antimony. No samples were eliminated as outliers. The detection levels were 0.306 and 0.5 mg/kg. The detected sample was obtained from Banning Park at 0.5 ft bgs.

Due to large %ND, no reliable 95% UTL can be estimated. The maximum value of 0.741 mg/kg is used as BTV for antimony.

Arsenic (N=106, ND=2.83%)

Outlier evaluation based on above 3IR box plot indicates that arsenic has three suspect outliers including 9, 11.9 and 127, while a test for one Rosner outlier at 1% significance level indicates that 127 may be a potential outlier. Graphic evaluation using a Q-Q plot indicates that the arsenic sample with a concentration of 127 mg/kg may be a suspect outlier. A goodness of fit test was performed, and arsenic does not fit normal or lognormal distribution. The GOF test however shows that the arsenic sample concentration of 127 mg/kg is considerably offset from the general linear trend indicating that the sample may be an outlier. The sample was obtained from the surface (at 0 ft bgs) at the Wilmington School, and may not represent background distribution. Moreover, the value is significantly above the Southern California arsenic background threshold of 12 mg/kg and above the background range reported of 2.2 mg/kg to 19 mg/kg reported in the regional study conducted by UC Riverside (1991) and the range of 0.15 mg/kg to 19.63 mg/kg that was observed in the Southern California background dataset presented by DTSC in its

Arsenic Strategies Document (DTSC, 2009a). The sample 127 mg/kg therefore was eliminated as an outlier.

After elimination of the outlier, detected arsenic follow an approximate gamma distribution, and therefore a Gamma distribution based UTL was selected from the ProUCL results to estimate the 95% UTL at 10.4 mg/kg.

The local threshold BTV, 10.41 mg/kg, is less than the well-established Southern California arsenic BTV of 12 mg/kg developed by DTSC. The maximum value in the local background dataset is 11.9, close to the value of 12 mg/kg. The Southern California background arsenic dataset is made up of a much larger database across several areas within the Los Angeles basin and as a result anticipated to be more representative of background within the Los Angeles area. In addition, this value has been commonly used for COC selection and as a cleanup level for unrestricted land use and residential sites. Therefore, the DTSC arsenic threshold value of 12 mg/kg is used as the BTV in this report.

Barium (N=106, ND=0%)

Barium has four suspect outliers including concentrations of 203, 267, 428 and 575 mg/kg based on above 3IR box plot evaluation. A test for one Rosner outlier at 1% significance level indicates that 575 may be a potential outlier while a graphic evaluation using a Q-Q plot indicates that 267, 428 and 575 may be potential outliers. A GOF test was performed and barium data does not fit normal nor lognormal distribution. The test based on lognormal distribution however shows that barium samples 428 and 575 mg/kg may be considered as deviating from the general linear trend indicating that they may be outliers. The weight of evidence presented suggests that 428 and 575 mg/kg may be outliers, and were removed from the background evaluation.

After elimination of the two suspect outliers, barium appears to fit lognormal distribution. Based on lognormal distribution after elimination of suspect outliers (N=105, %ND = 0%), the 95% UTL was 195.4 mg/kg.

Beryllium (N=106, ND=16.98%)

With 106 samples and 17% non-detection, 3IR based box plot indicates that concentrations of 0.6, 0.7, 0.7 and 0.8 may be suspect outliers while a one outlier Rosner test shows that 0.8 may be an outlier. Graphic evaluation using a Q-Q plot does not show an obvious or significant outlier. A GOF test shows that beryllium does not fit normal or lognormal distributions. There is however a general linear trend based on a lognormal distribution particularly among the detected datasets. In addition, these concentrations fall within the range of background concentrations of 0.1 to 0.9 mg/kg reported in the regional study conducted by UC Riverside (1991). There is no strong evidence to suggest that these are outliers, and therefore no beryllium samples are eliminated as outliers.

Since Beryllium samples do not fit a normal or lognormal distribution, a non-parametric 95% KM UTL with 99% coverage of 0.56 mg/kg was selected as the BTV for the background dataset.

Cadmium (N=106, ND=53.77%)
Based on above 3IR samples on a box plot, seven cadmium samples from 1.0 to 3.81 mg/kg are suspect outliers. A test for one Rosner outlier at 1% significance level indicates 3.81 as a potential outlier while a graphic evaluation using a Q-Q plot apparently shows two populations as indicated by the shift from linearity which may imply that the upper tail of the distribution may be impacted. However it has to be noted that cadmium has more than 50% non-detects that constitutes the lower tail of the population distribution while the detected samples make the upper distribution. So the Q-Q plot departure from linearity is more of a distinction between detected and non-detected samples rather than discrimination between background and impacted samples. The three highest suspect outliers 1.63, 1.8 and 3.81 mg/kg are obtained from Banning Park at 0.5 ft bgs. A GOF test on the detected samples indicates cadmium fits a lognormal distribution. Using the above weight of evidence, no cadmium sample was eliminated as an outlier.

A value of 3.81 mg/kg is selected as a BTV using a 95% Bootstrap (%) UTL with 99% coverage ProUCL output.

Chromium (N=106, ND=0%)
Chromium has three suspect outliers including 29.3, 36.5 and 38.6 mg/kg based on above 3IR box plot evaluation. A test for one Rosner outlier at 1% significance level indicates that 38.6 may be a potential outlier while a graphic evaluation using a Q-Q plot does not indicate a significant outlier. A GOF test was performed and indicates the data fit a lognormal distribution indicating there may be no outlier chromium samples. The samples 29.3, 36.5 were obtained from Banning Elementary School (at 0.5 ft bgs), while sample 38.6 was obtained from Wilmington Recreation Center (at 0.5 ft bgs). Based on the weight of evidence presented, no dataset was eliminated from chromium samples as outlier.

Since chromium is log-normally distributed, a 95% UTL of 32.54 mg/kg is selected from PROUCL output.

Cobalt (N=106, ND=3.77%)
Cobalt has three suspect outliers including 13.1, 13.5 and 15.7 mg/kg based on above 3IR box plot evaluation. A test for one Rosner outlier at 1% significance level indicates that 15.7 may be a potential outlier. A GOF test indicates that Cobalt samples are log-normally distributed. Though the Box plot and Rosner test indicate three suspect outliers (13.1, 13.5, 15.7), the GOF test and Q-Q plot did not show a significant break of these datasets from the body of samples. The suspect outliers 13.1, 13.5 and 15.7 were obtained from Banning Elementary School at 0.5 ft, 5 ft and 1 ft bgs respectively. Based on the above weight of evidence, no samples were eliminated as outlier.

A non-parametric based 95% KM UTL with 99% coverage at 10.91 mg/kg will be used as the sample BTV.

Copper (N=106, ND=0%)

Copper has one suspect outlier at 59 mg/kg based on above 3IR box plot evaluation. A test for one Rosner outlier at 1% significance level indicates that the sample 59 mg/kg may be a potential outlier while a graphic evaluation using a Q-Q plot does not indicate a significant outlier. A GOF test was performed and indicates copper fit a fairly strong lognormal distribution showing there may be no outliers. The sample 59 mg/kg was obtained from Banning Park (at 0.5 ft bgs). Based on the weight of evidence presented, no copper dataset was eliminated as outlier.

Based on lognormal distribution, a threshold value of 95% UTL is 64.62. However, since this value is higher than sample max at 59, the BTV will be taken as 59 mg/kg.

Lead (N=106, ND=5.66%)

Based on above 3IR samples on a box plot, twelve (12) lead samples from 43.3 to 112 mg/kg are suspect outliers. A test for one Rosner outlier at 1% significance level indicates 112 as a potential outlier while a graphic evaluation using a Q-Q plot apparently shows two populations which is partly a reflection of lead distribution by depth. A GOF test on the detected samples indicates lead does not follow a normal or lognormal distribution. The linear pattern of the probability plot using lognormal distribution at different depths (0 to 0.5 ft, and >0. 5 ft bgs) however indicates that lead may not have an outlier. Moreover, lead has been detected at background level concentrations ranging from 7.7 to 189.4 mg/kg in Southern California region. Using the above weight of evidence, no lead sample was eliminated as an outlier.

Since lead samples do not follow a discernible distribution, a non-parametric 95% KM UTL with 99% coverage BTV at 61.46 mg/kg is selected from PROUCL output.

Mercury (N=106, ND=71.7%)

Mercury has a large proportion of non-detects (ND=71.7%), and therefore outlier evaluation is performed using the detected datasets only. There is one suspect outlier (0.324) based on above 3IR box plot and one Rosner outlier test at 1% significance. The Q-Q plot however did not appear to indicate a significant departure or break of this sample from the body of the samples. A GOF tests shows that detected mercury samples do not follow a normal or lognormal distribution, though the shift from linearity was small. The suspect outlier was obtained from Banning Park at 0.5 ft bgs. Based on the above weight of evidence, no sample was eliminated as an outlier.

Since mercury does not follow a discernible distribution, a non-parametric BTV of 0.131 mg/kg based on 95% KM UTL with 99% coverage is selected from PROUCL output.

Molybdenum (N=106, ND=84.91%)
Molybdenum has a large proportion of non-detects (ND=84.9%), and therefore outlier evaluation is performed using the detected datasets only. There is no suspect outlier based on above 3IR box plot evaluation. The Rosner outlier test at 1% significance indicates no outlier either. The Q-Q plot indicates a slight departure from linearity. A GOF tests shows that detected molybdenum samples do not follow a normal or lognormal distribution, though the shift from linearity was not significant. Based on the above weight of evidence, no sample was eliminated as an outlier.

Since molybdenum does not follow a discernible distribution, a non-parametric BTV of 0.409 mg/kg based on 95% KM UTL with 99% coverageis selected from PROUCL output.

Nickel (N=106, ND=10.38%)
Based on above 3IR samples on a box plot, two nickel samples 25.3 and 27.2 mg/kg are suspect outliers. A test for one Rosner outlier at 1% significance level indicates 27.2 as a potential outlier while a graphic evaluation using a Q-Q plot apparently shows no suspect outlier. A GOF test indicates nickel fits a lognormal distribution. Both suspect outliers (25.3 and 27.2) were obtained from Banning Elementary School at 5 and 1 ft bgs respectively. Using the above weight of evidence, no samples were eliminated as outliers.

A BTV of 20.17 mg/kg based on a non-parametric approach of 95% KM UTL with 99% Coverage is selected from PROUCL output.

Selenium (N=106, ND=99.06%)
Selenium has 106 samples all obtained from 0 to 5 ft bgs. There is only one detected sample at 0.78 mg/kg (99% non-detection). No reliable statistics can be performed on Selenium as the %ND is significantly large. No samples were eliminated as outliers.

Due to large %ND, no reliable 95% UTL can be estimated. The maximum value of 0.78 mg/kg is used as BTV for selenium.

Silver (N=106, ND=91.51%)
Silver has 91.5% non-detects. Statistical evaluation was performed only on detected samples (9 samples). The outlier tests show no indication of suspect outliers, and therefore no sample was eliminated.

Silver data appear log-normally distributed. Since the corresponding potential BTV (6.87) was greater than the sample max of 1.29, the BTV selected was 1.29 mg/kg.

Thallium (N=106, ND=100%)
All 106 thallium data were non-detects. No statistical analysis was performed on thallium. At 100% non-detection, the BTV of thallium was also a non-detect and assessed at 0.23 mg/kg.

Vanadium (N=106, ND=0%)
Vanadium has no suspect outlier based on above 3IR box plot evaluation. A test for one Rosner outlier at 1% significance level indicates no suspect outlier either. The Q-Q plot shows a fairly linear trend indicating no potential outlier. A GOF test shows that vanadium follows a strong lognormal distribution. Based on the above weight of evidence, no suspect outliers were identified for vanadium.

Based on lognormal distribution, BTV at 95% UTL is 50.07 mg/kg. However, since this value is higher than sample maximum (47.01), BTV was assessed at 47.01 mg/kg.

Zinc(N=106, ND=0%)
Zinc has four suspect outliers including 151, 172, 291and 525 mg/kg based on above 3IR box plot evaluation. A test for one Rosner outlier at 1% significance level indicates that 525 may be a potential outlier while a graphic evaluation using a Q-Q plot also indicates that 525 may be a potential outlier. A GOF test was performed and zinc data does not fit normal nor lognormal distributions though the deviation of the probability plot from linear trend is only slight. The sample 525 was obtained from Wilmington Recreation Center at 0 ft bgs. The weight of evidence presented suggests that 525 mg/kg may be an outlier and was eliminated from further background evaluation.

Zinc samples did not follow a discernible distribution even after the elimination of the outlier. Therefore a non-parametric 95% Percentile Bootstrap UTL BTV of 291 mg/kg was used from ProUCL output.

2. Background cPAH Evaluation

cPAH (N=35, ND=37.14%)
cPAH samples were obtained from Banning Park (N=30) and Wilmington Middle School (N= 5). Using a weight-of-evidence of above 3IR based box plot evaluation and Rosner test, the value of 0.179 mg/kg appears to be a suspect outlier. The Q-Q plot and GOF test suggests that the concentration of 0.179 mg/kg may be an outlier. The sample was collected at 0.5 feet bgs at Wilmington Middle School. A review of the sample data indicate that low levels of total petroleum hydrocarbons (< 60 mg/kg) were detected which may have contributed to the cPAH concentrations. However, since the value of 0.179 mg/kg is well within the range of background reported for Southern California (Cal-EPA, 2009c), and the concentrations of TPH are considered negligible (<60 mg/kg) and not from a known onsite source, the sample was included in the analysis as what may be represented in the soils from anthropogenic non site-related sources.

To further evaluate background cPAH, these local background datasets were evaluated against the backdrop of 22 background sites in Southern California (N=185) used in developing the regional cPAH BTV (Cal-EPA DTSC, 2009c). Side by side graphical evaluation including box

plots and probability plots were used to compare local and Southern California representative datasets (Figure A2-5). The evaluation indicates that, Banning Park and Wilmington Middle School datasets are in the low end/tail distribution of Southern California Background datasets.

The Southern California analysis used a much larger pool of background sites, and a relatively larger number of samples. As a result, the Southern California evaluation is anticipated to be more robust and more representative of the true background condition of the region. The local background dataset is consistent with a selection of subsamples from the broader regional dataset where some samples are expected to be higher and some lower than the regional mean. Moreover, the Southern California statistical analysis benefits from a higher statistical power due to higher number of samples than Banning Park and WMS background samples collected as part of a site investigation.

Therefore, considering the above and the common use of the regional dataset for remedial decision making at sites, the cPAH BTV of 0.9 mg/kg, derived from the southern California cPAH background analysis is selected at the cPAH BTV for use at the Site. This value has been used as a remedial goal at unrestricted land use and residential sites throughout southern California. The BTV of 0.9 mg/kg will be used along with the comparison methodology outlined in the main document to determine if Site concentrations are above background. Additional evaluation as discussed in guidance (Cal-EPA, 2009c) may be conducted if warranted

Tables

Table A2-1
Summary Statistics of Background Metals and cPAHs
Former Kast Property
Carson, California

Site ID	Analyte	Variable	Depth (ft bgs)	# of Samples	% NDs	Minimum[1]	Maximum[1]	Mean[1]	Median[1]	SD[1]	CV[1]
Banning Park	cPAH	BaP-TEQ	0.5 - 5	30	30%	0.00106	0.0183	0.0042	0.0026	0.0048	1.1310
	Metals	Antimony	0.5 - 5	30	96.67%	0.741	0.741	0.741	0.741	--	--
		Arsenic	0.5 - 5	30	0%	1.11	11.9	2.35	1.69	1.97	0.84
		Barium	0.5 - 5	30	0%	38.3	267	73.83	71.50	39.08	0.53
		Beryllium	0.5 - 5	30	0%	0.18	0.30	0.23	0.22	0.03	0.13
		Cadmium	0.5 - 5	30	43.33%	0.11	3.81	0.83	0.61	0.93	1.12
		Chromium	0.5 - 5	30	0%	6.76	28.2	11.64	9.60	4.55	0.39
		Cobalt	0.5 - 5	30	0%	3.66	6.53	4.77	4.72	0.54	0.11
		Copper	0.5 - 5	30	0%	2.69	59	10.77	6.57	11.09	1.03
		Lead	0.5 - 5	30	0%	2.3	68.1	13.40	6.46	17.07	1.27
		Mercury	0.5 - 5	30	0%	0.02	0.32	0.05	0.03	0.06	1.22
		Molybdenum	0.5 - 5	30	50%	0.10	0.40	0.16	0.14	0.07	0.46
		Nickel	0.5 - 5	30	0%	3.68	20.8	6.6	5.7	3.0	0.5
		Selenium	0.5 - 5	30	100%	--	--	--	--	--	--
		Silver	0.5 - 5	30	70%	0.132	1.29	0.58	0.29	0.47	0.81
		Thallium	0.5 - 5	30	100%	--	--	--	--	--	--
		Vanadium	0.5 - 5	30	0%	12.6	22.8	16.28	16.25	1.92	0.12
		Zinc	0.5 - 5	30	0%	11.5	86.3	29.03	18.95	19.95	0.69
Banning Elementary School	Metals	Antimony	0 - 5	63	100%	--	--	--	--	--	--
		Arsenic	0 - 5	63	4.76%	0.4	9	1.91	1.7	1.27	0.67
		Barium	0 - 5	63	0%	17.7	575	69.04	47.8	86.41	1.25
		Beryllium	0 - 5	63	25.4%	0.2	0.8	0.306	0.3	0.15	0.48
		Cadmium	0 - 5	63	61.9%	0.2	0.7	0.375	0.35	0.15	0.39
		Chromium	0 - 5	63	0%	4.4	36.5	11.24	10.6	5.95	0.53
		Cobalt	0 - 5	63	6.35%	2.5	15.7	5.52	5	2.70	0.49
		Copper	0 - 5	63	0%	3.5	44.1	15.51	14.1	8.99	0.58
		Lead	0 - 5	63	6.35%	2.6	112	13.06	6	18.57	1.42
		Mercury	0 - 5	63	100%	--	--	--	--	--	--
		Molybdenum	0 - 5	63	100%	--	--	--	--	--	--
		Nickel	0 - 5	63	17.46%	3	27.2	8.92	7.35	5.46	0.61
		Selenium	0 - 5	63	100%	--	--	--	--	--	--
		Silver	0 - 5	63	100%	--	--	--	--	--	--
		Thallium	0 - 5	63	100%	--	--	--	--	--	--
		Vanadium	0 - 5	63	0%	6.2	47.1	20.07	19.7	9.58	0.48
		Zinc	0 - 5	63	0%	9.7	291	44.93	30.6	44.02	0.98

Table A2-1
Summary Statistics of Background Metals and cPAHs
Former Kast Property
Carson, California

Site ID	Analyte	Variable	Depth (ft bgs)	# of Samples	% NDs	Minimum[1]	Maximum[1]	Mean[1]	Median[1]	SD[1]	CV[1]
Wilimington Middle School	cPAH	BaP-TEQ	0.5 - 5	5	80%	0.179	0.179	0.179	0.179	--	--
	Metals	Antimony	0.5 - 5	5	100%	--	--	--	--	--	--
		Arsenic	0.5 - 5	5	0%	1.52	127	27.86	3.41	55.43	1.99
		Barium	0.5 - 5	5	0%	66.30	92.2	75.42	72	10.2	0.14
		Beryllium	0.5 - 5	5	20%	0.30	0.48	0.37	0.34	0.08	0.22
		Cadmium	0.5 - 5	5	100%	--	--	--	--	--	--
		Chromium	0.5 - 5	5	0%	9.04	17.4	12.6	13	3.5	0.28
		Cobalt	0.5 - 5	5	0%	5.18	6.92	6.33	6.57	0.7	0.11
		Copper	0.5 - 5	5	0%	5.34	14.70	9.21	7.07	4.06	0.44
		Lead	0.5 - 5	5	0%	3.48	57.50	14.96	4.11	23.8	1.59
		Mercury	0.5 - 5	5	100%	--	--	--	--	--	--
		Molybdenum	0.5 - 5	5	80%	0.625	0.625	0.625	0.625	--	--
		Nickel	0.5 - 5	5	0%	6.19	12.00	8.22	7.15	2.44	0.30
		Selenium	0.5 - 5	5	80%	0.78	0.78	0.78	0.78	--	--
		Silver	0.5 - 5	5	100%	--	--	--	--	--	--
		Thallium	0.5 - 5	5	100%	--	--	--	--	--	--
		Vanadium	0.5 - 5	5	0%	15.8	29.1	22.9	24	4.8	0.2
		Zinc	0.5 - 5	5	0%	20.1	151	52.2	27.8	55.6	1.1
Wilmington Recreation Center	Metals	Antimony	0 - 2.5	8	100%	--	--	--	--	--	--
		Arsenic	0 - 2.5	8	0%	0.3	2.1	1.35	1.35	0.64	0.47
		Barium	0 - 2.5	8	0%	31.9	91	58.24	56.00	16.58	0.29
		Beryllium	0 - 2.5	8	12.5%	0.2	0.3	0.23	0.20	0.05	0.21
		Cadmium	0 - 2.5	8	0%	0.2	1.0	0.49	0.30	0.36	0.73
		Chromium	0 - 2.5	8	0%	6.2	38.6	13.34	10.05	10.40	0.78
		Cobalt	0 - 2.5	8	0%	2.5	5.6	3.96	3.90	1.02	0.26
		Copper	0 - 2.5	8	0%	6.9	32.5	16.41	15.20	7.89	0.48
		Lead	0 - 2.5	8	25%	3.3	57.0	20.5	5.8	24.9	1.22
		Mercury	0 - 2.5	8	100%	--	--	--	--	--	--
		Molybdenum	0 - 2.5	8	100%	--	--	--	--	--	--
		Nickel	0 - 2.5	8	0%	4.10	16.40	9.50	8.85	4.46	0.47
		Selenium	0 - 2.5	8	100%	--	--	--	--	--	--
		Silver	0 - 2.5	8	100%	--	--	--	--	--	--
		Thallium	0 - 2.5	8	100%	--	--	--	--	--	--
		Vanadium	0 - 2.5	8	0%	10.50	28.80	18.19	17.80	5.72	0.32
		Zinc	0 - 2.5	8	0%	29.80	525.00	122.50	41.20	169.50	1.38

Notes:
[1]Summary statistics based on detected samples
- Summary statistics shown before outlier analysis

Table A2-2
Summary Outlier Evaliuation based on Weight of Evidence Approach for Metals and cPAHs
Former Kast Property
Carson, California

Analyte	% NDs	3IR	Rosner Test	Q-Q Plot	GOF Test	Suspect Outlier	Sample Location	Sample Depth (ft, bgs)	WOE Outlier
Antimony	99.06%	NA	NA	NA	NA	0.741	Banning Park	0.5	None
Arsenic	2.86%	>9	127	127	No Discernible Distribution	127	Willmington School	0	127
Barium	0.00%	>203	575	>267	No Discernible Distribution	>428	Banning Elementary School	0 and 0.5	428 and 525
Beryllium	16.98%	>0.6	0.8	None	No Discernible Distribution, close to LN	0.7 and 0.8	Banning Elementary School	0.5, 1 and 5	None
Cadmium	53.77%	>1	3.81	3.81	Lognormal	1.63, 1.8 and 3.81	Banning Park	0.5	None
Chromium	0.00%	>29.3	38.6	None	Lognormal	29.3, 36.5	Banning Elementary School	0.5	None
Cobalt	3.77%	>13.1	15.7	None	Lognormal	13.1, 13.5 and 15.7	Banning Elementary School	0.5, 5 and 1	None
Copper	0.00%	59	59	None	Lognormal or Gamma	59	Banning Park	0.5	None
Lead	5.66%	>43.3	112	112	No Discernible Distribution	None	NA	NA	None
Mercury	71.70%	0.324	None	None	No Discernible Distribution, close to LN	0.324	Banning Park	0.5	None
Molybdenum	84.91%	None	None	None	No Discernible Distribution, close to LN	None	NA	NA	None
Nickel	10.38%	>25.3	27.2	None	Lognormal	25.3 and 27.2	Banning Elementary School	5 and 1	None
Selenium	99.06%	NA	NA	NA	NA	NA	NA	NA	None
Silver	91.51%	NA	NA	NA	NA	NA	NA	NA	None
Thallium	100.00%	NA	NA	NA	NA	NA	NA	NA	None
Vanadium	0.00%	None	None	None	Lognormal	None	NA	NA	None
Zinc	0.00%	>151	525	525	No Discernible Distribution, close to LN	525	Willmington Reacreation Center	0	525
BaP TEQ	37.14%	0.179	0.179	0.179	No Discernible Distribution	0.179	Wilimington Middle School	0.5	None

Notes:
NA - Not applicable
3IR - Three Interquartile Range
WOE - Weight of Evidence
GOF - Goodness of fit test
LN - Lognormal

Table A2-3
Summary Background Threshold Values of Metals and cPAHs
Former Kast Property
Carson, California

Analyte	# Samples	% NDs	Maximum	95%-tile 99% UTL	BTV	SoCal BTV	Selected BTV
Antimony	106	99.06%	0.741	0.74	0.74	--	0.74
Arsenic	105	2.86%	11.9	10.41	10.41	12	12
Barium	104	0.00%	267	267.00	267.00	--	267.00
Beryllium	106	16.98%	0.8	0.562	0.56	--	0.56
Cadmium	106	53.77%	3.81	3.81	3.81	--	3.81
Chromium	106	0.00%	38.6	32.54	32.54	--	32.54
Cobalt	106	3.77%	15.7	10.91	10.91	--	10.91
Copper	106	0.00%	59	64.62	59.00	--	59.00
Lead	106	5.66%	112	61.46	61.46	--	61.46
Mercury	106	71.70%	0.324	0.13	0.13	--	0.13
Molybdenum	106	84.91%	0.625	0.41	0.41	--	0.41
Nickel	106	10.38%	27.2	20.17	20.17	--	20.17
Selenium	106	99.06%	0.78	0.78	0.78	--	0.78
Silver	106	91.51%	1.29	2.32	1.29	--	1.29
Thallium	106	100.00%	N/A	0.23	0.23	--	0.23
Vanadium	106	0.00%	47.1	45.66	45.66	--	45.66
Zinc	105	0.00%	291	291.00	291.00	--	291.00
BaP TEQ	35	37.14%	0.179	0.10	0.10	0.9	0.9

Notes:
Values shown are based on background datasets after elimination of outliers
ND: Non detects
UTL: Upper Tolerance Limit
BTV: Background Threshold Value

Figures

Figure A2-1: Box Plots of Metals Background Datasets

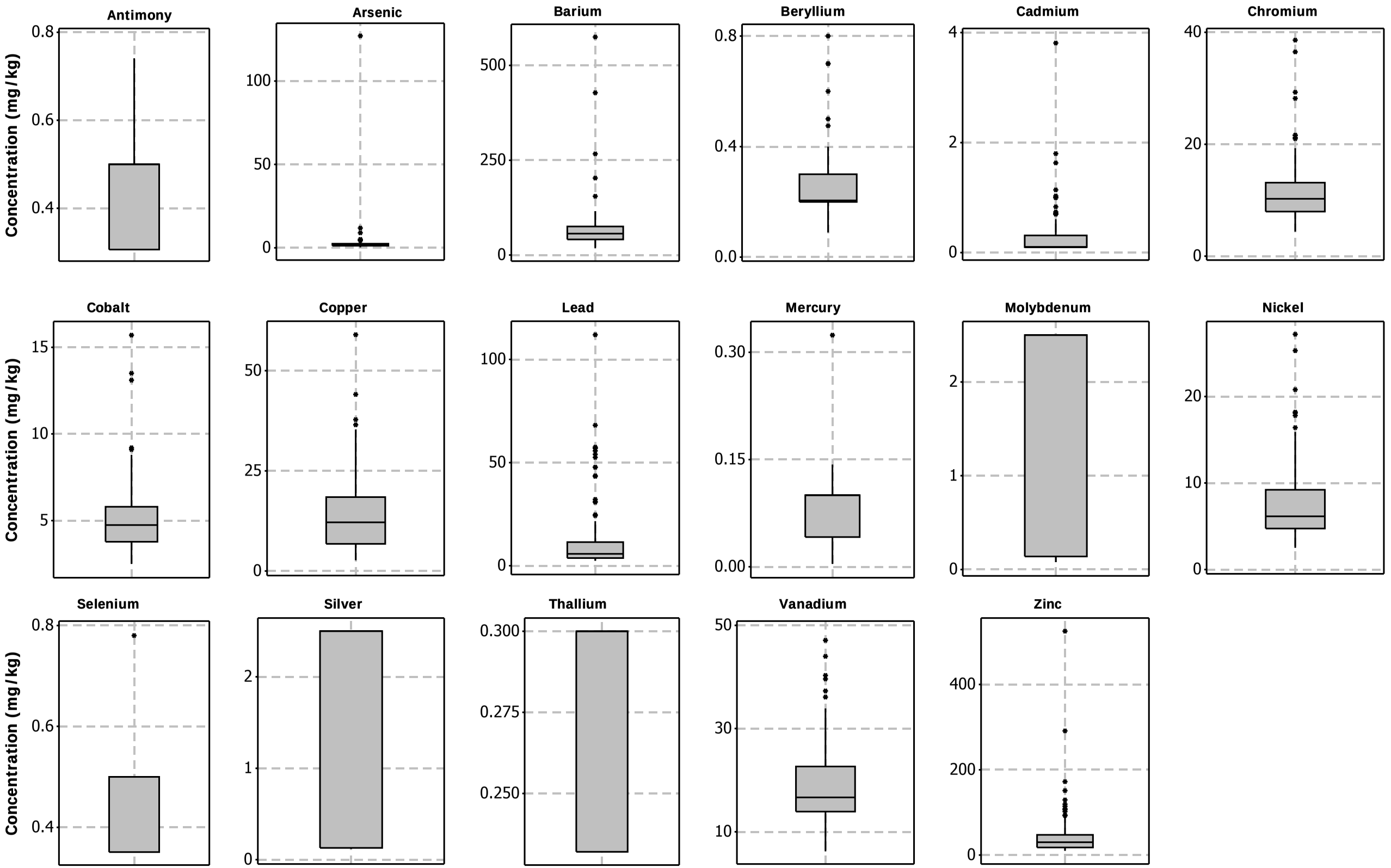


Figure A2-2: Probability Plots of Metals Background Datasets

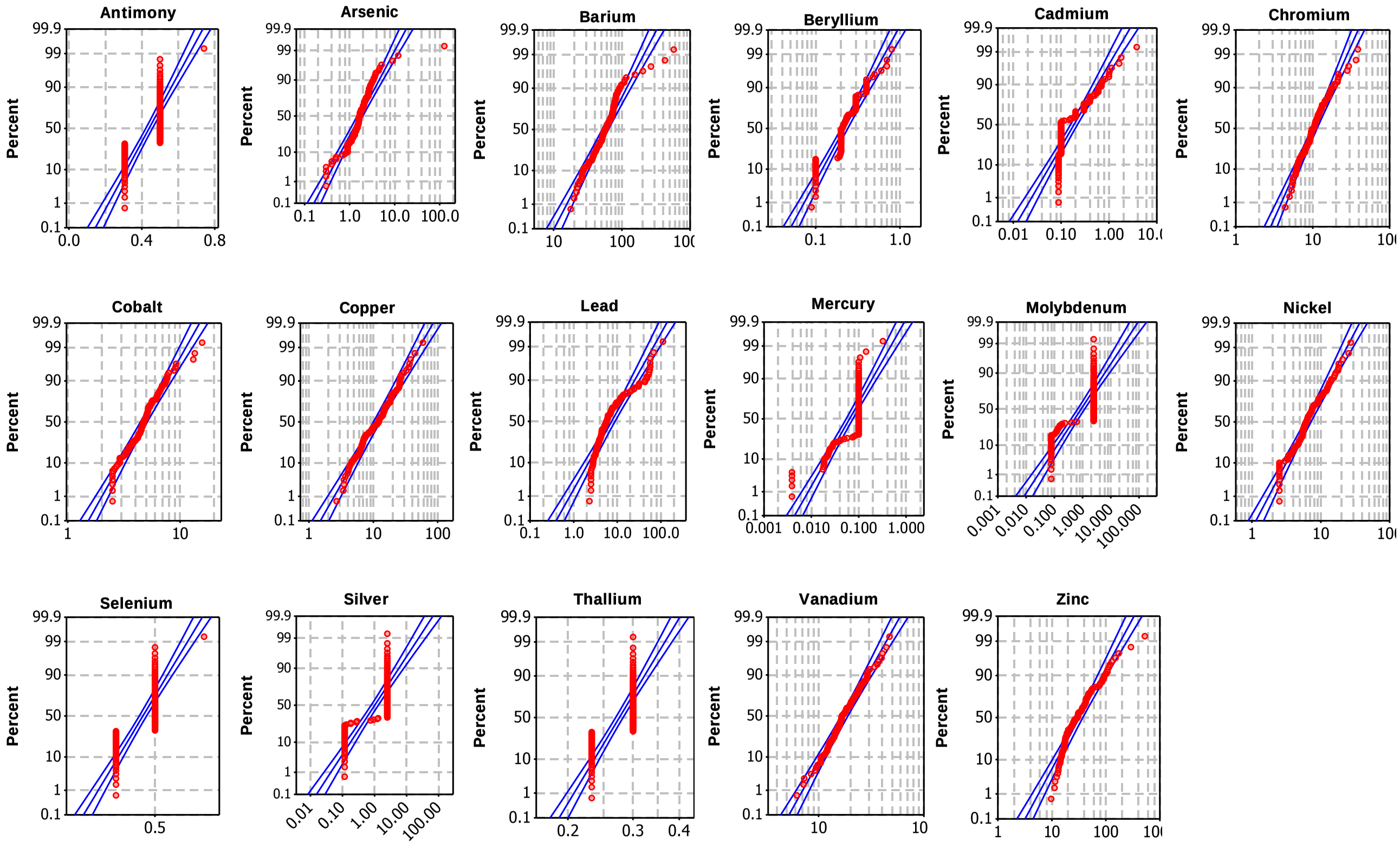
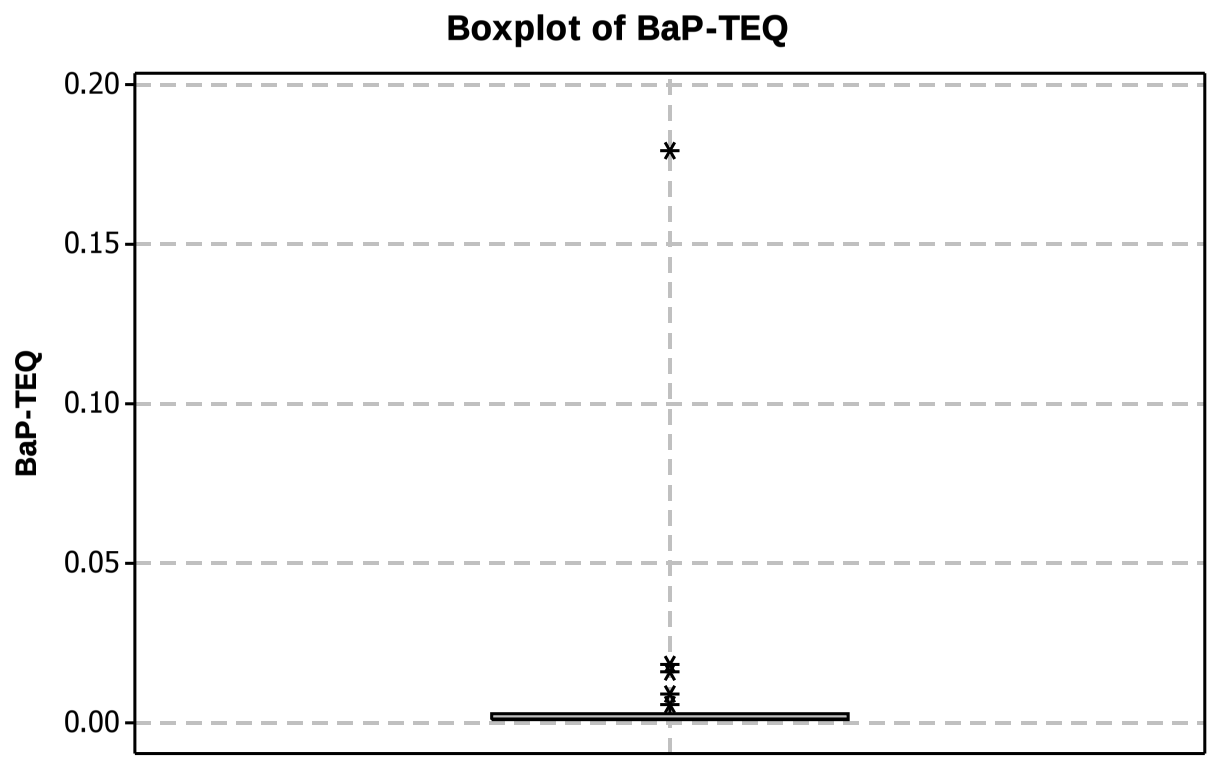
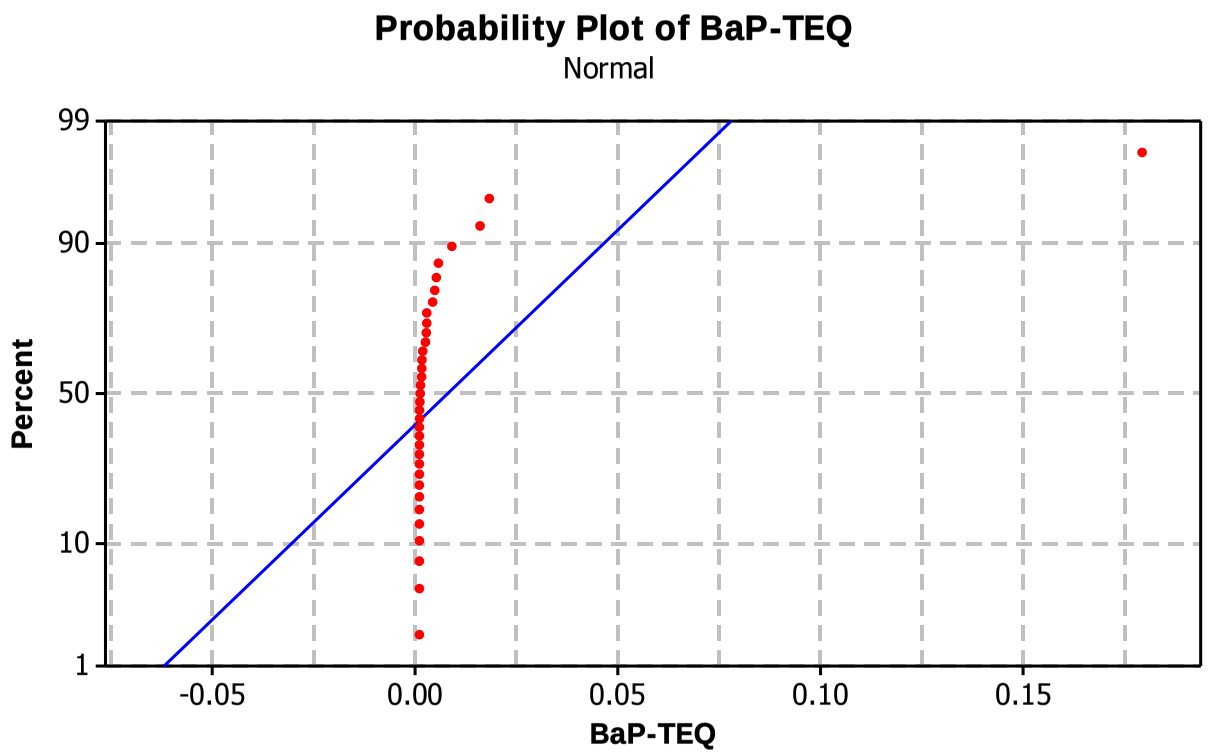


Figure A2-3: Box Plot and Probability Plots of cPAH Background Datasets





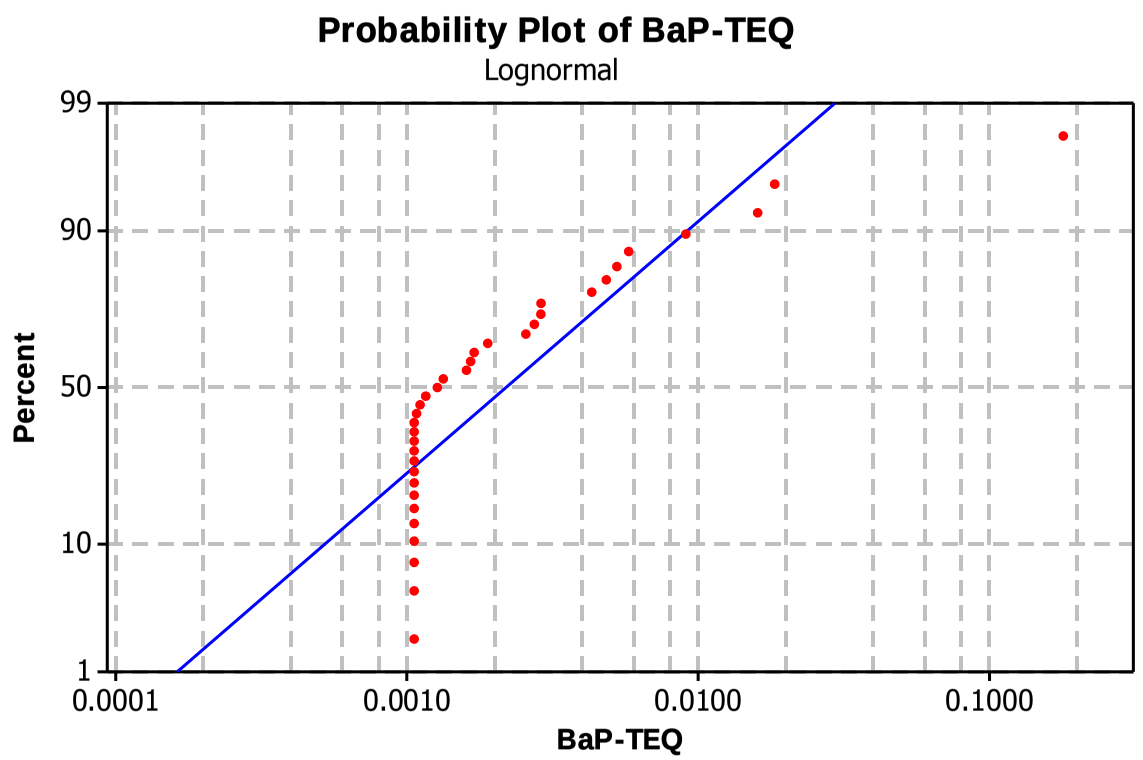
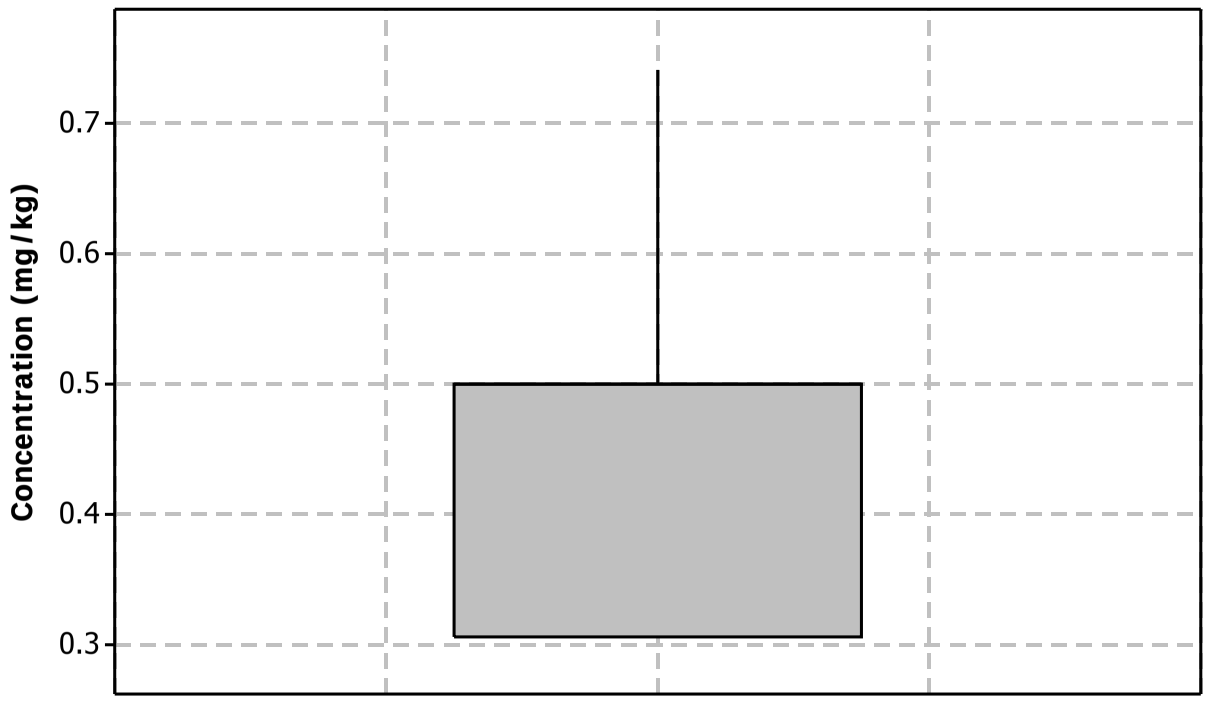
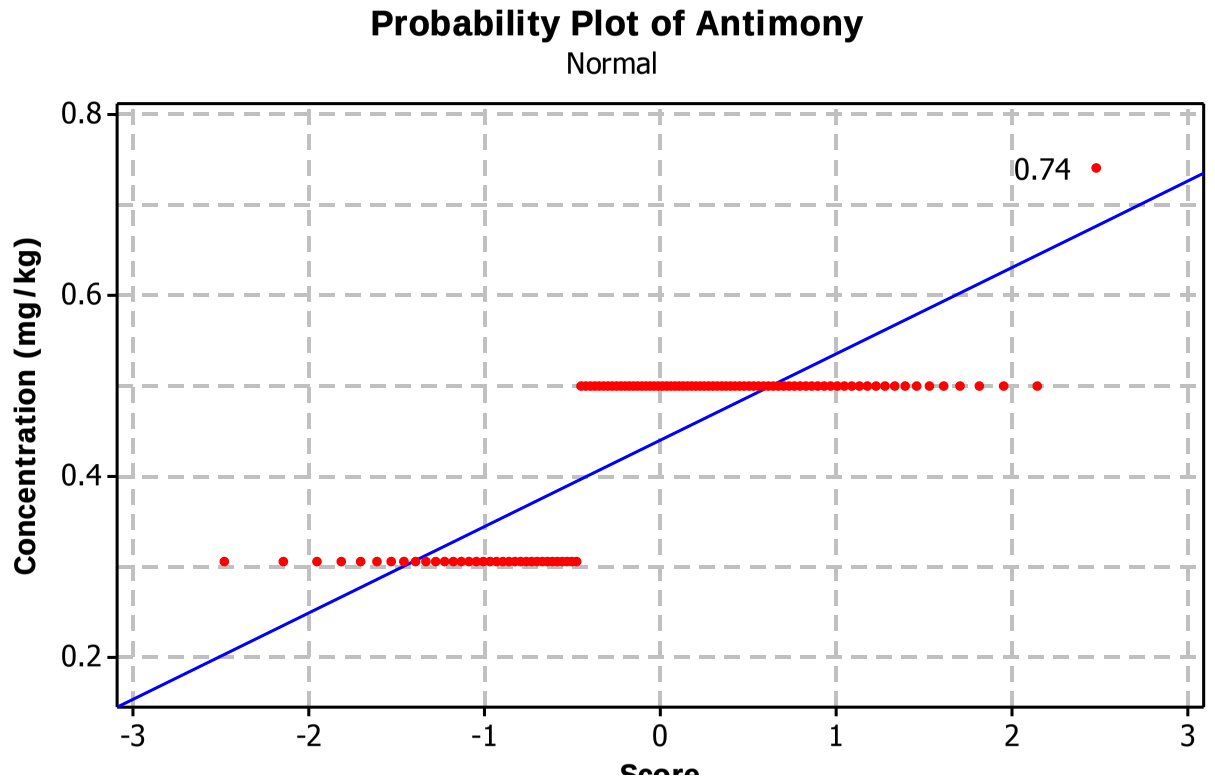
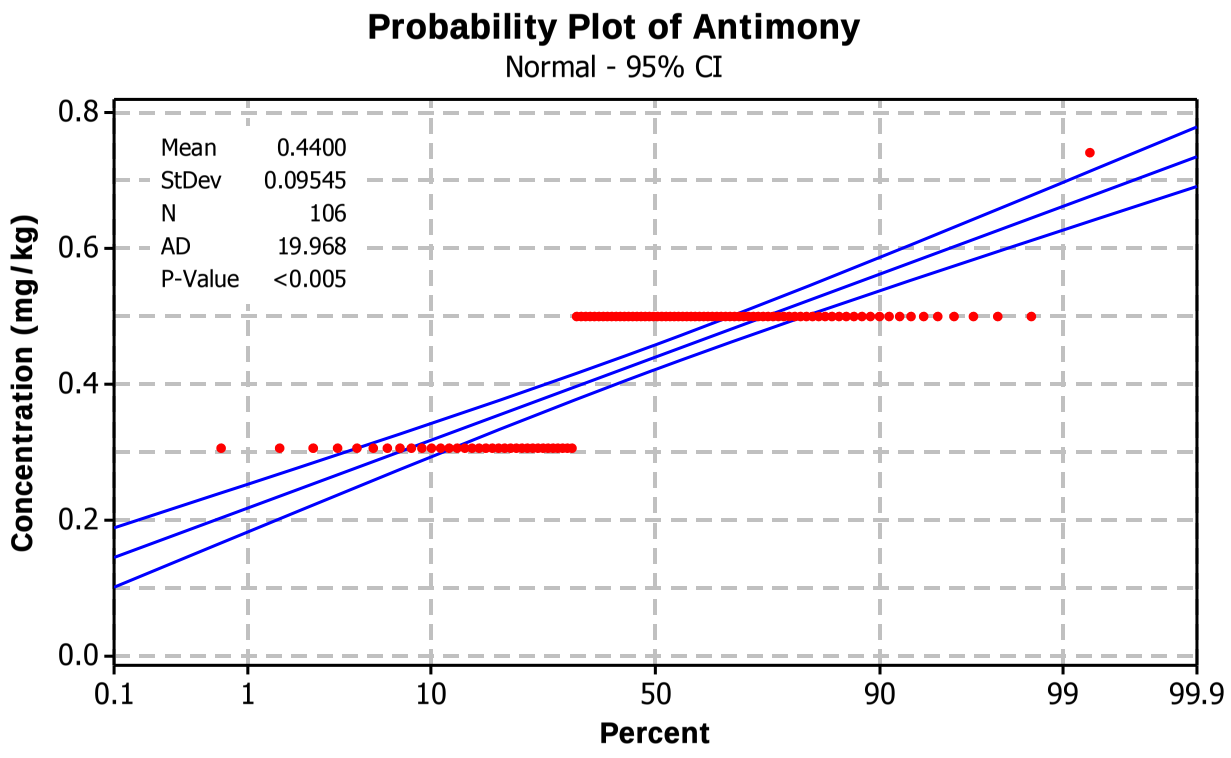


Figure A2-4-1: Antimony Outlier Evaluation





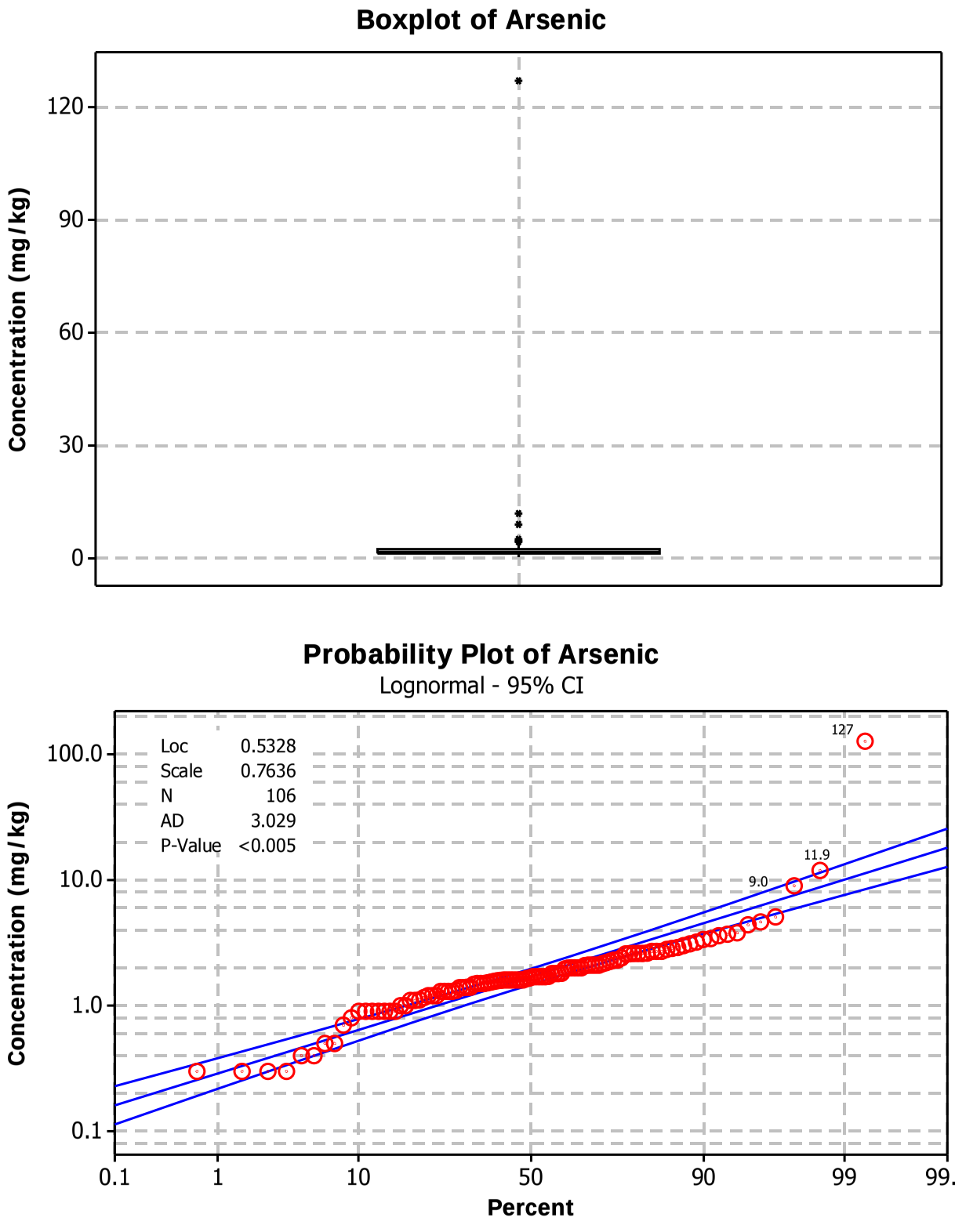


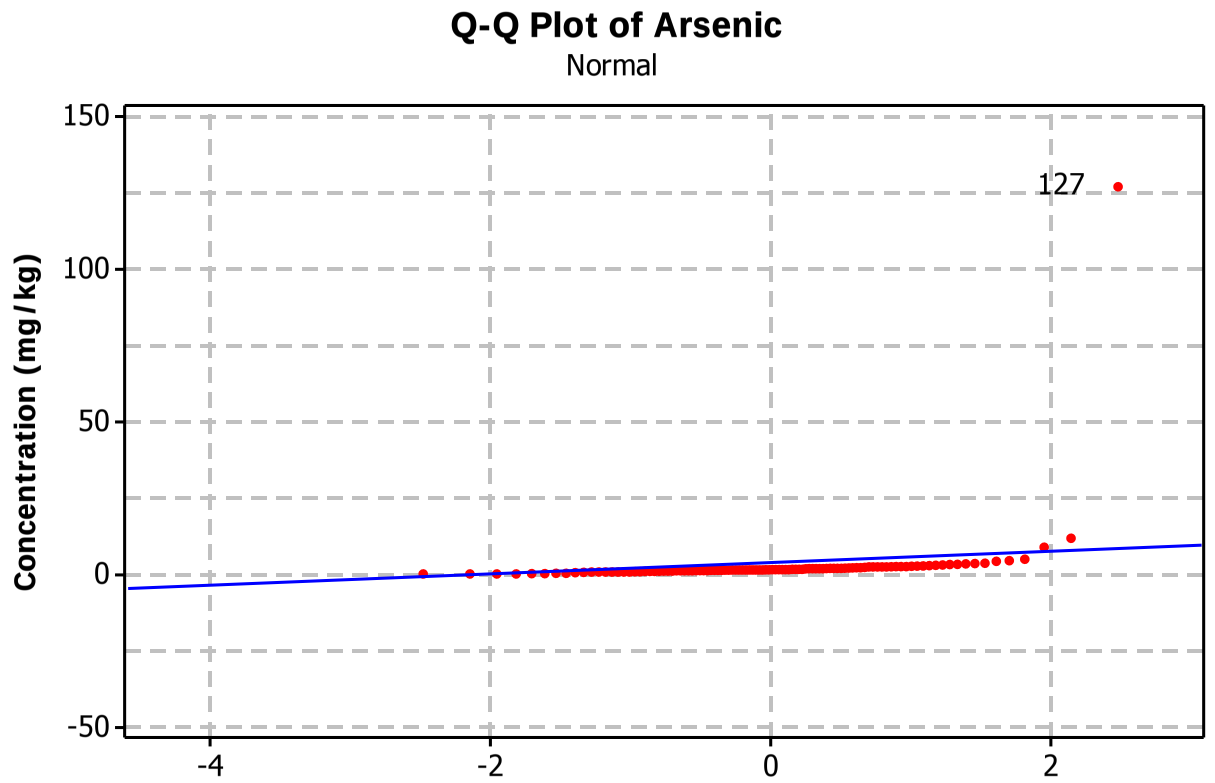
Note: Samples 99% ND (only 1 sample detected)

- No reliable statistical tests

- No samples were eliminated as outliers

Figure A2-4-2: Arsenic Outlier Evaluation





- 3IR box plot Tests indicate outliers: 9, 11.9 and 127.

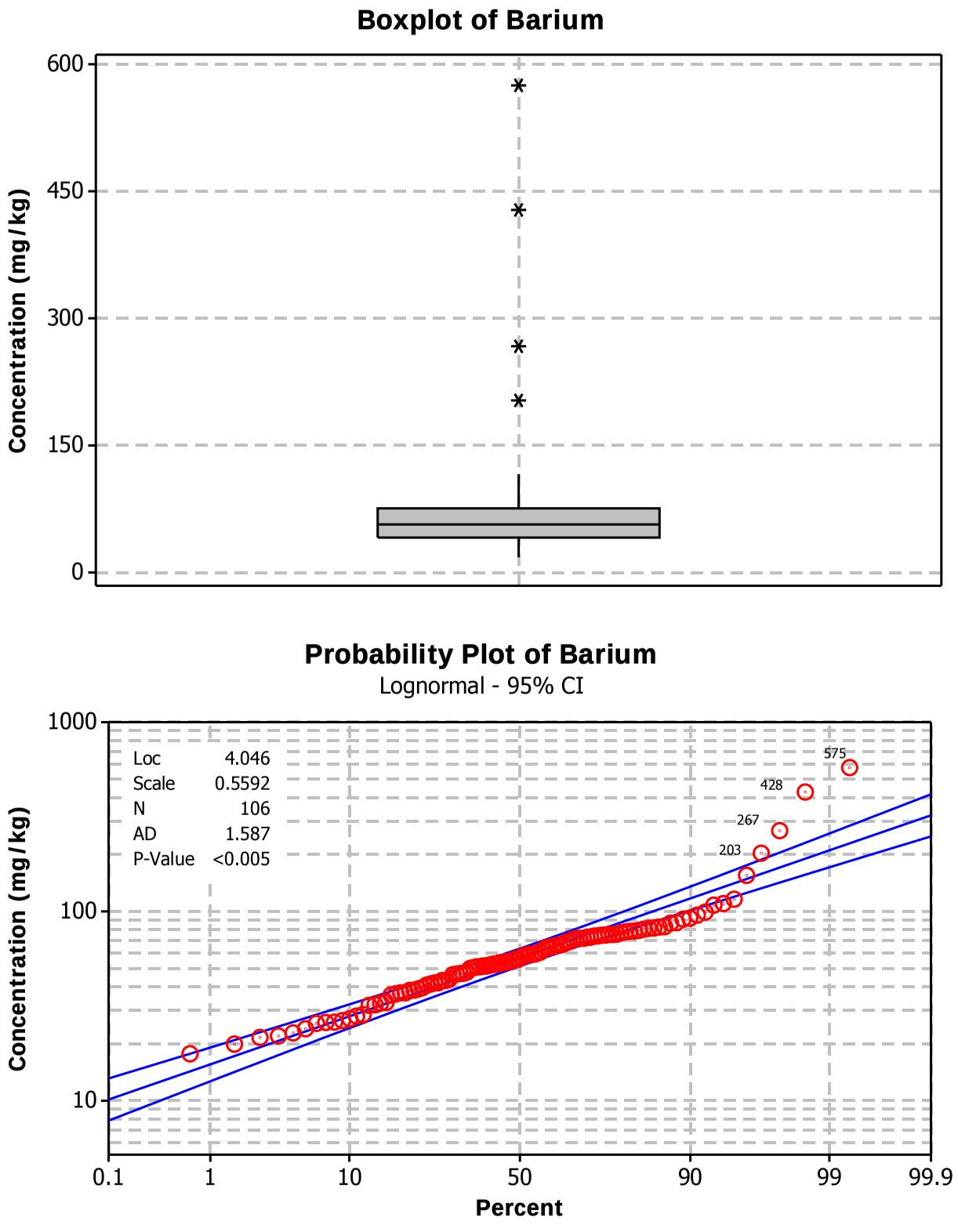
- Rosner Test indicates outlier 127.

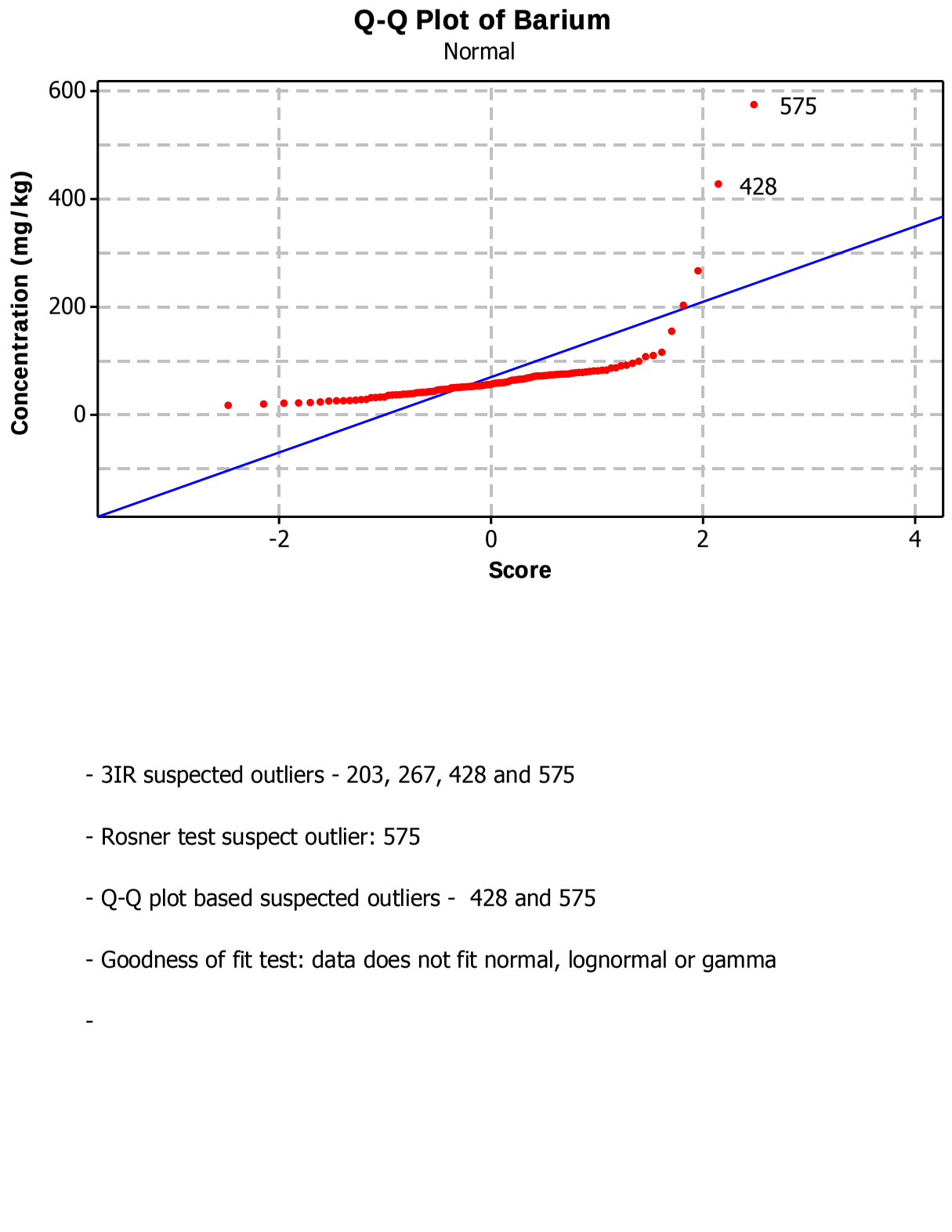
- Q-Q plot indicates one suspected outlier 127.

- GOF test: not normal or lognormal distribution. But the Lognormal fit shows strong linearity except one point: 127 may be considered an outlier.

-

Figure A2-4-3: Barium Outlier Evaluation





- 3IR suspected outliers - 203, 267, 428 and 575

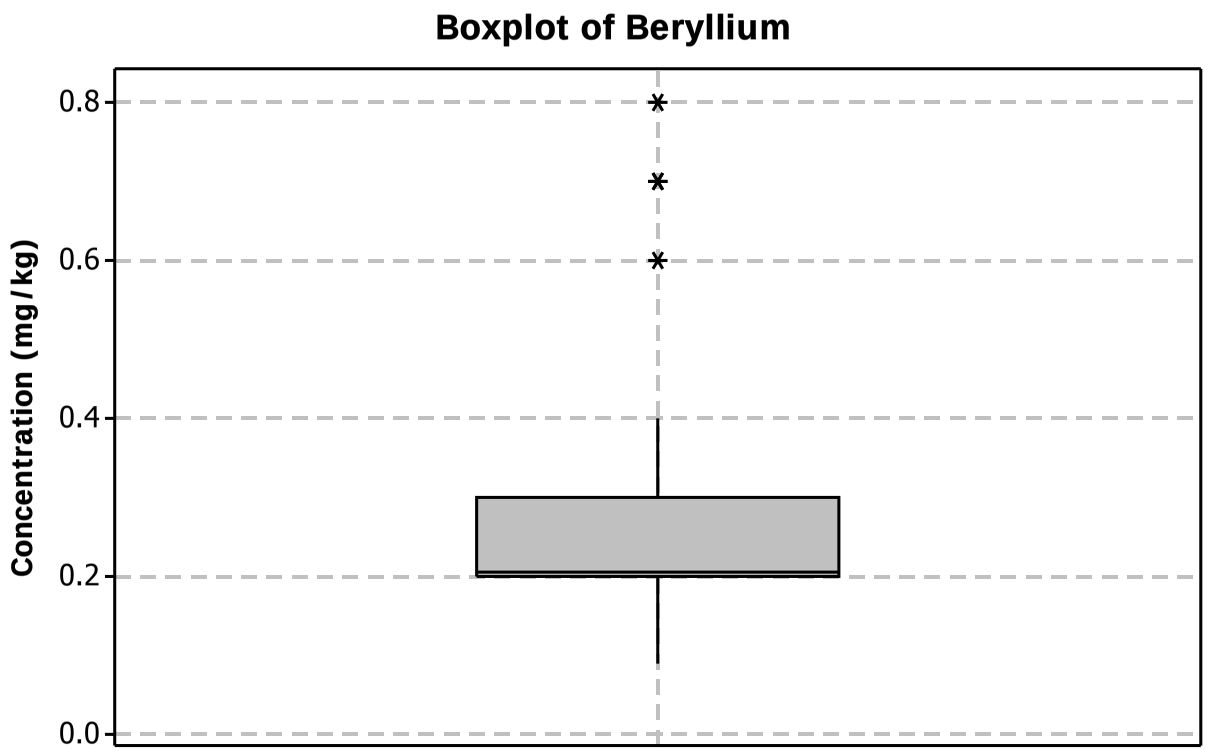
- Rosner test suspect outlier: 575

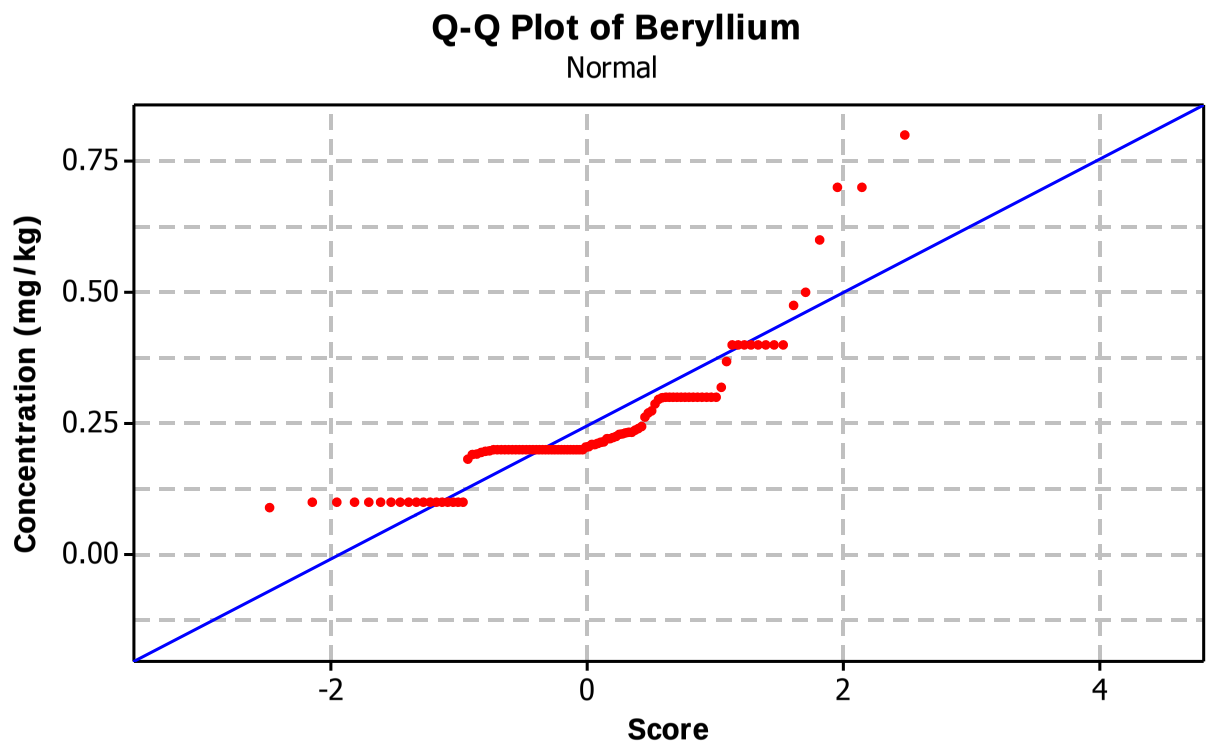
- Q-Q plot based suspected outliers - 428 and 575

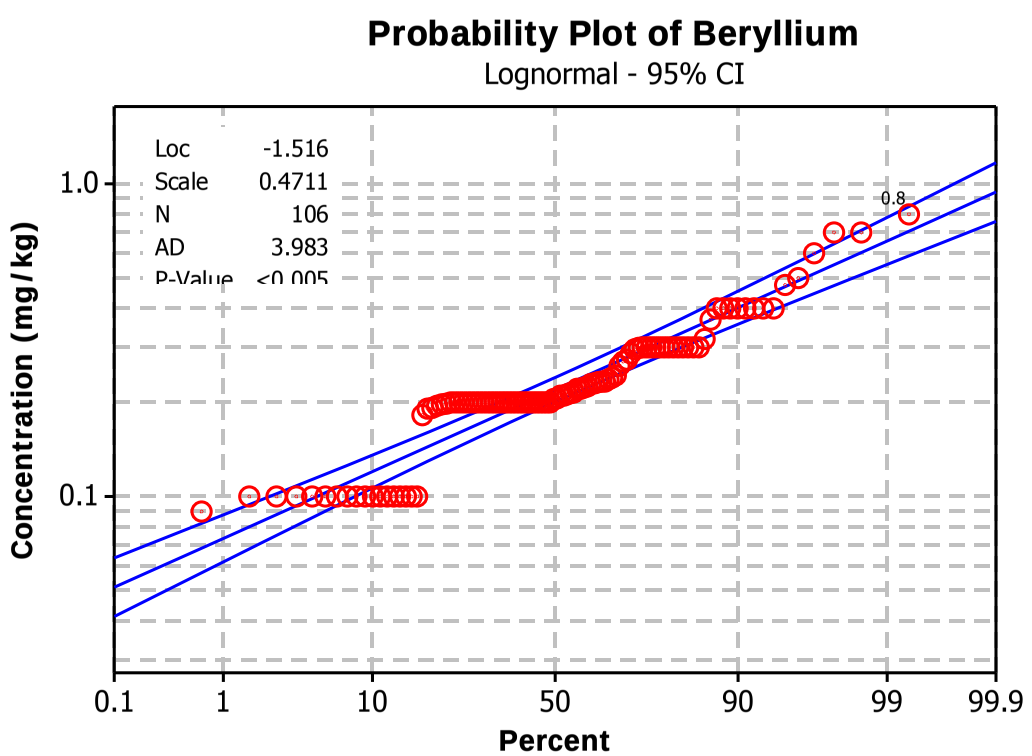
- Goodness of fit test: data does not fit normal, lognormal or gamma

-

Figure A2-4-4: Beryllium Outlier Evaluation







- 3IR suspect outliers - 0.6, 0.7, 0.7 and 0.8

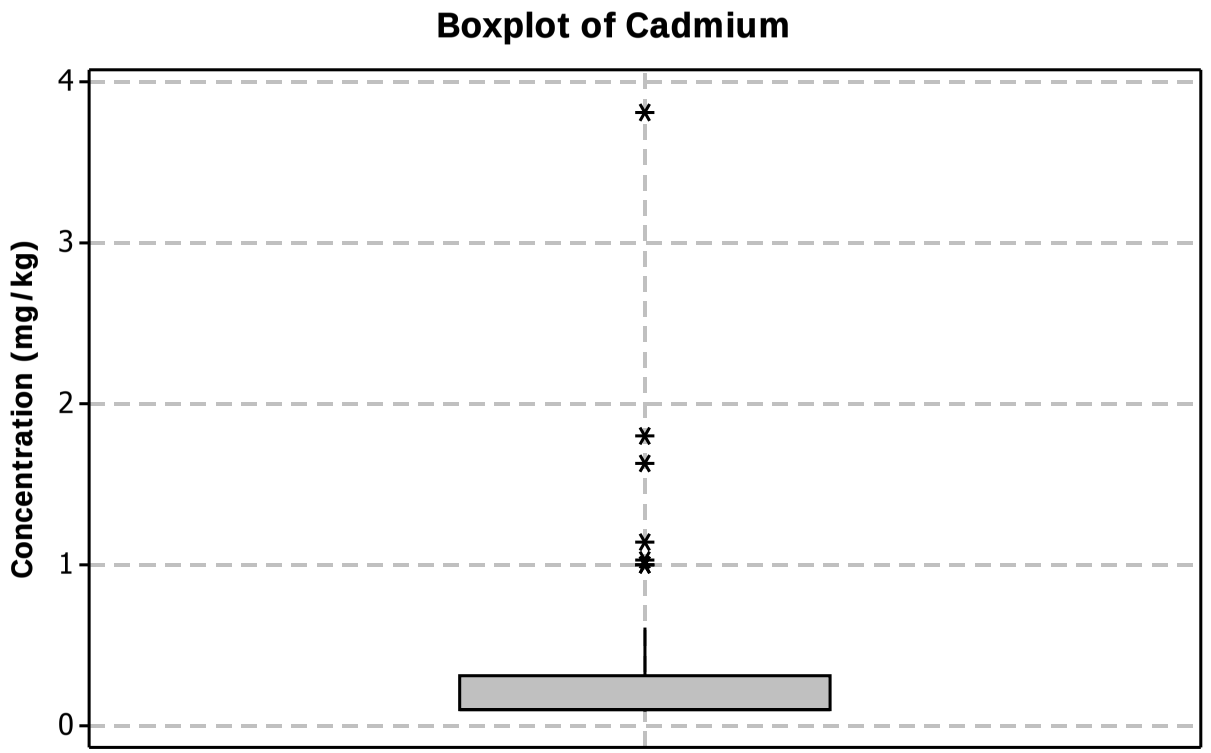
- Rosner test suspect outlier - 0.8

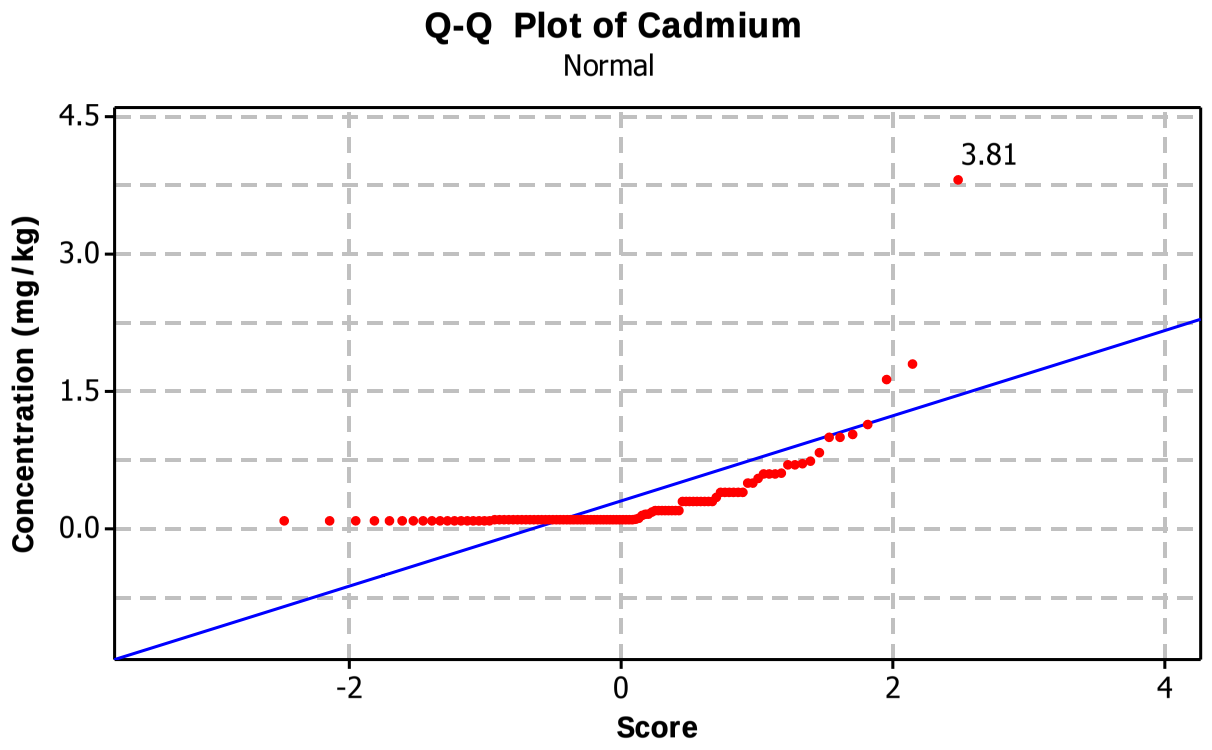
- Q-Q plot based suspected outliers - None

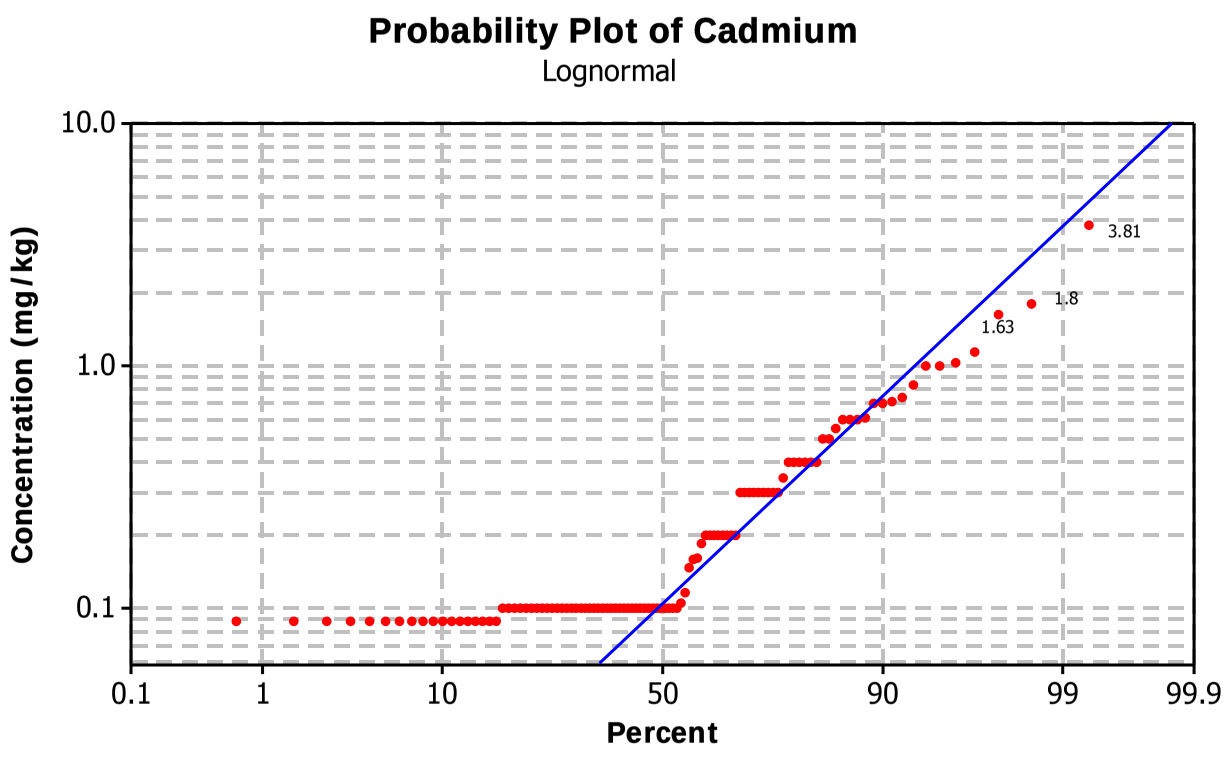
- GOF test: not N, LN, GM (close to LN)

- No outlier

Figure A2-4-5: Cadmium Outlier Evaluation

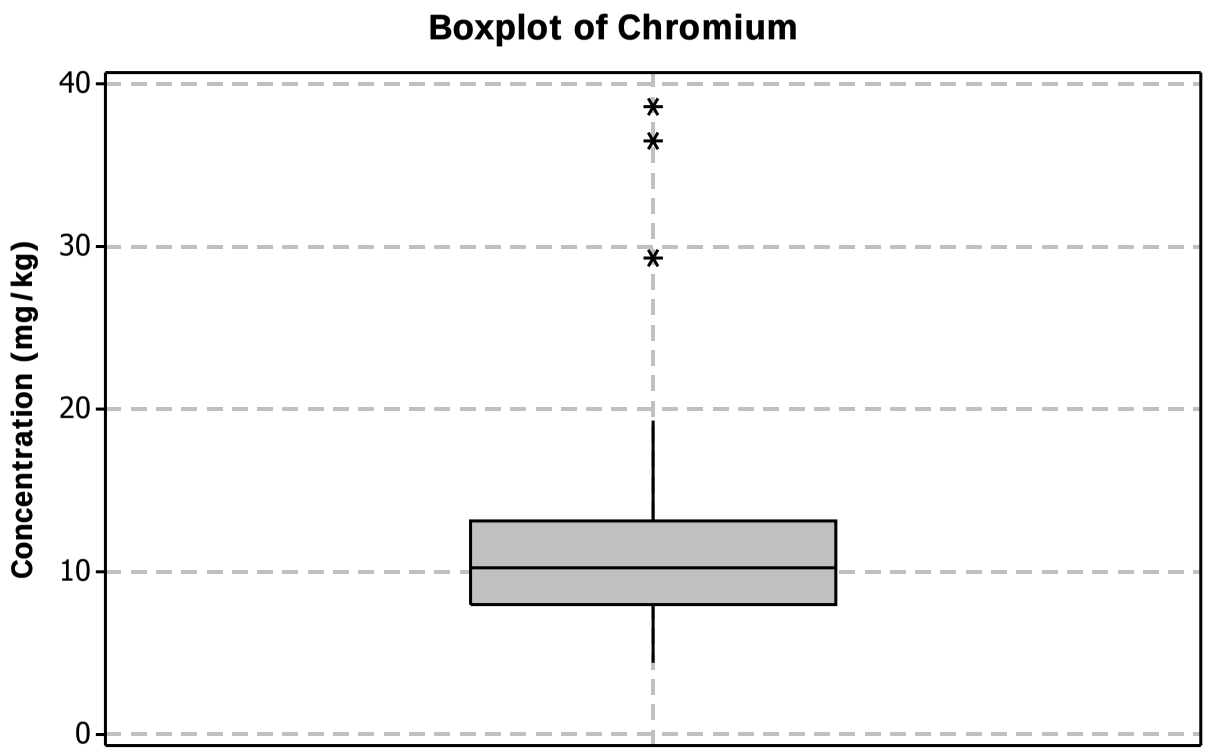


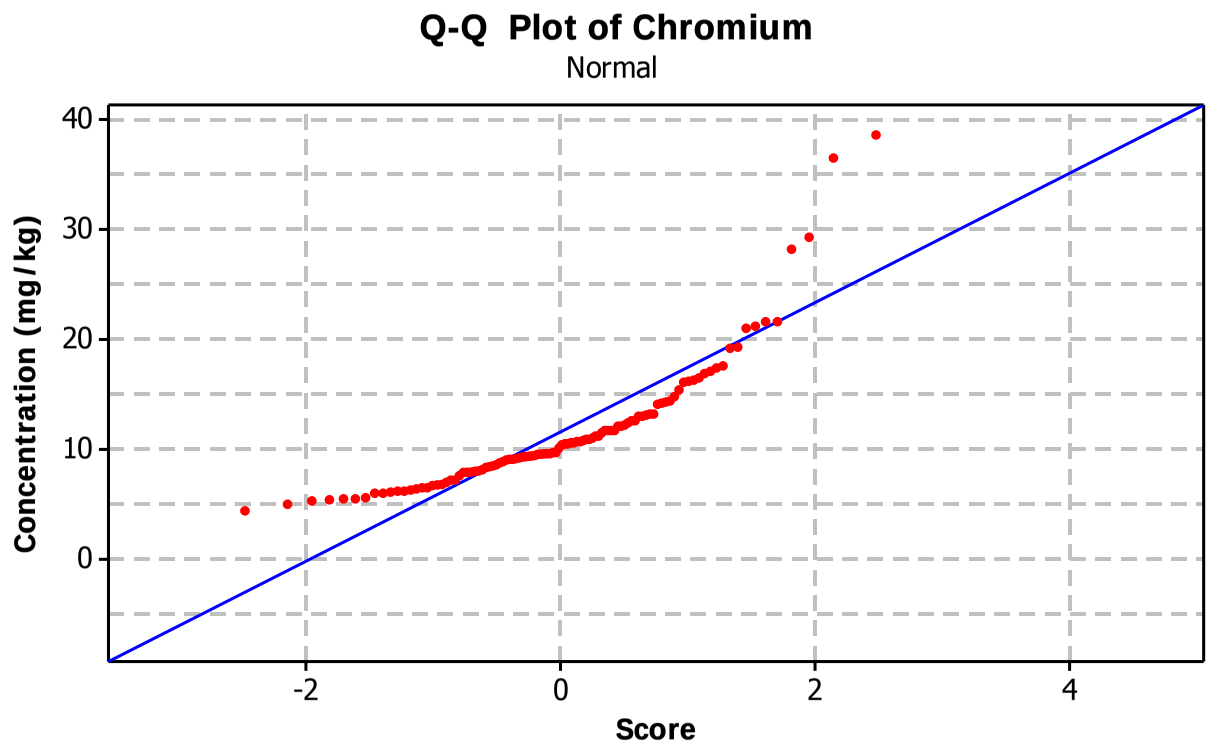


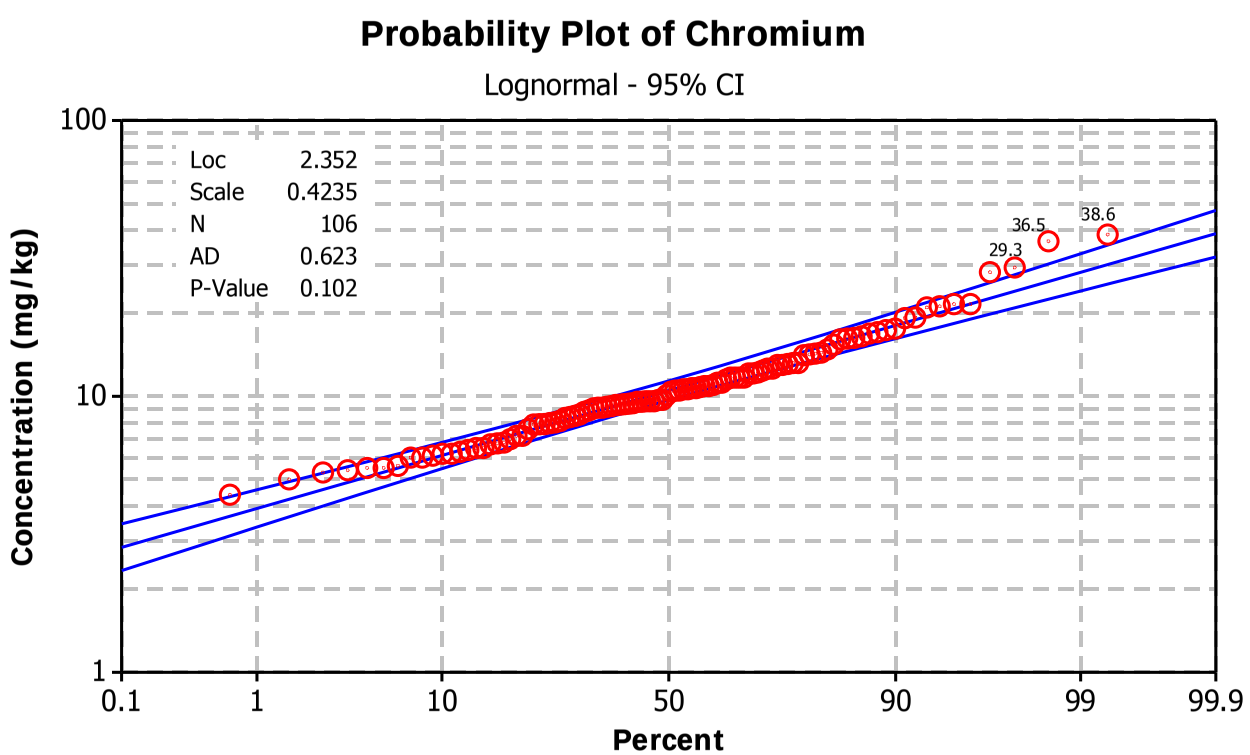


- 3IR suspected outliers - 1.0 to 3.81
- Rosner test outlier - 3.81
- Q-Q plot based suspected outliers - 3.81
- GOF test: Data appear LN
- No outlier

Figure A2-4-6: Chromium Outlier Evaluation







- 3IR suspected outliers -29.3, 36.5 and 38.6

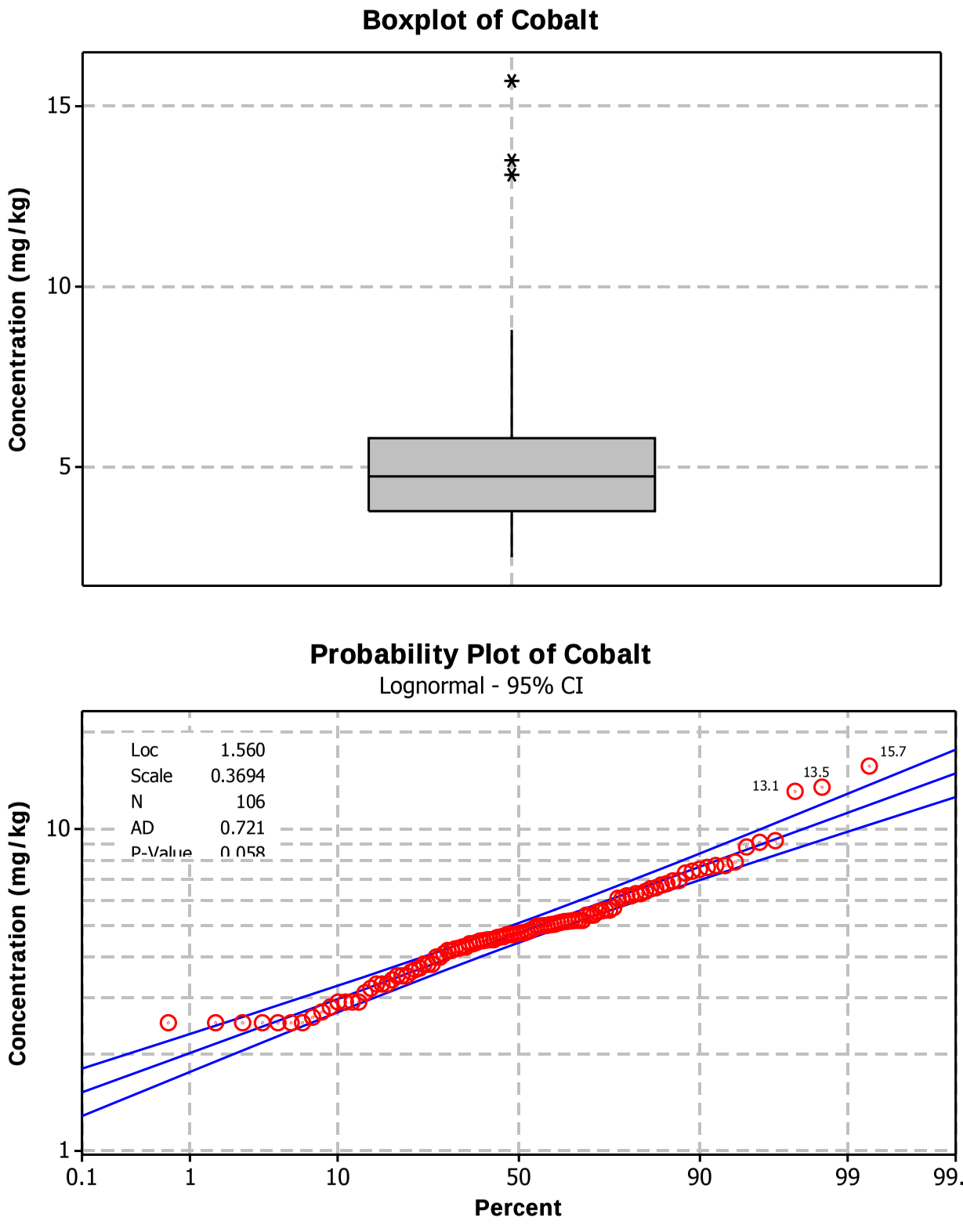
- Rosner test: 38.6

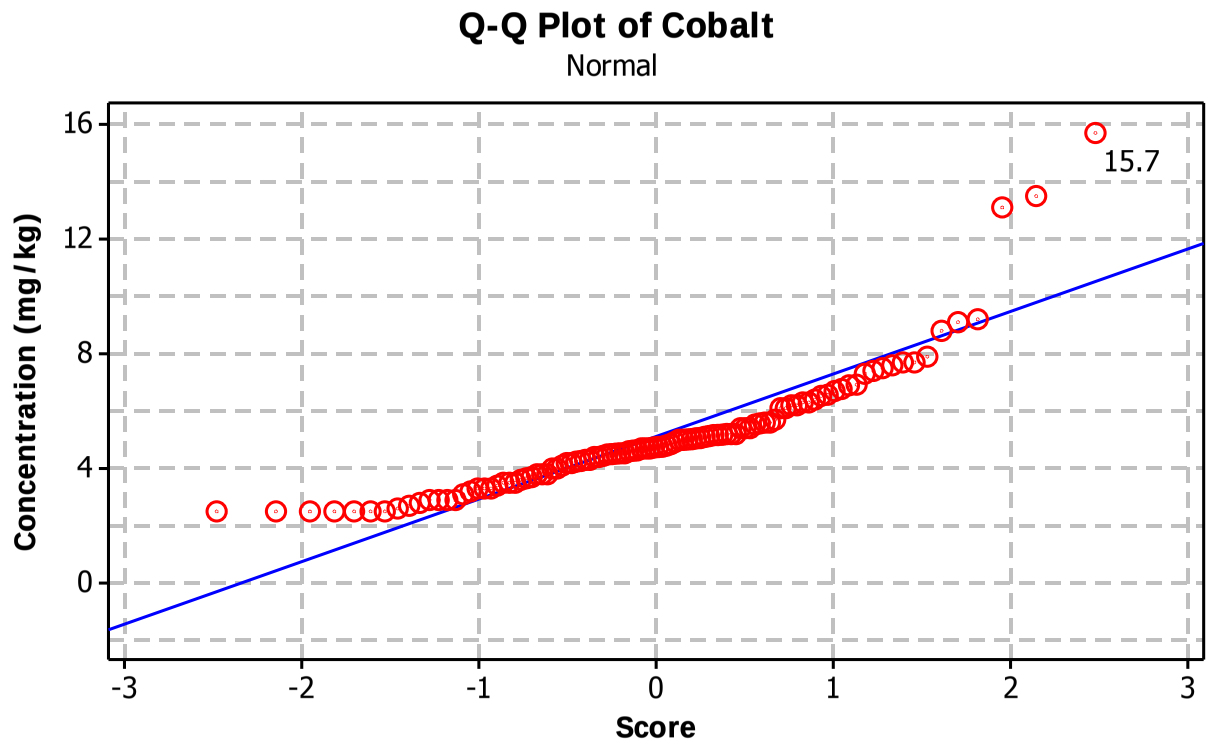
- Q-Q plot based suspected outliers - None

- GOF: Data appear LN

- No outlier

Figure A2-4-7: Cobalt Outlier Evaluation





- 3IR suspected outliers - 13.1, 13.5, 15.7

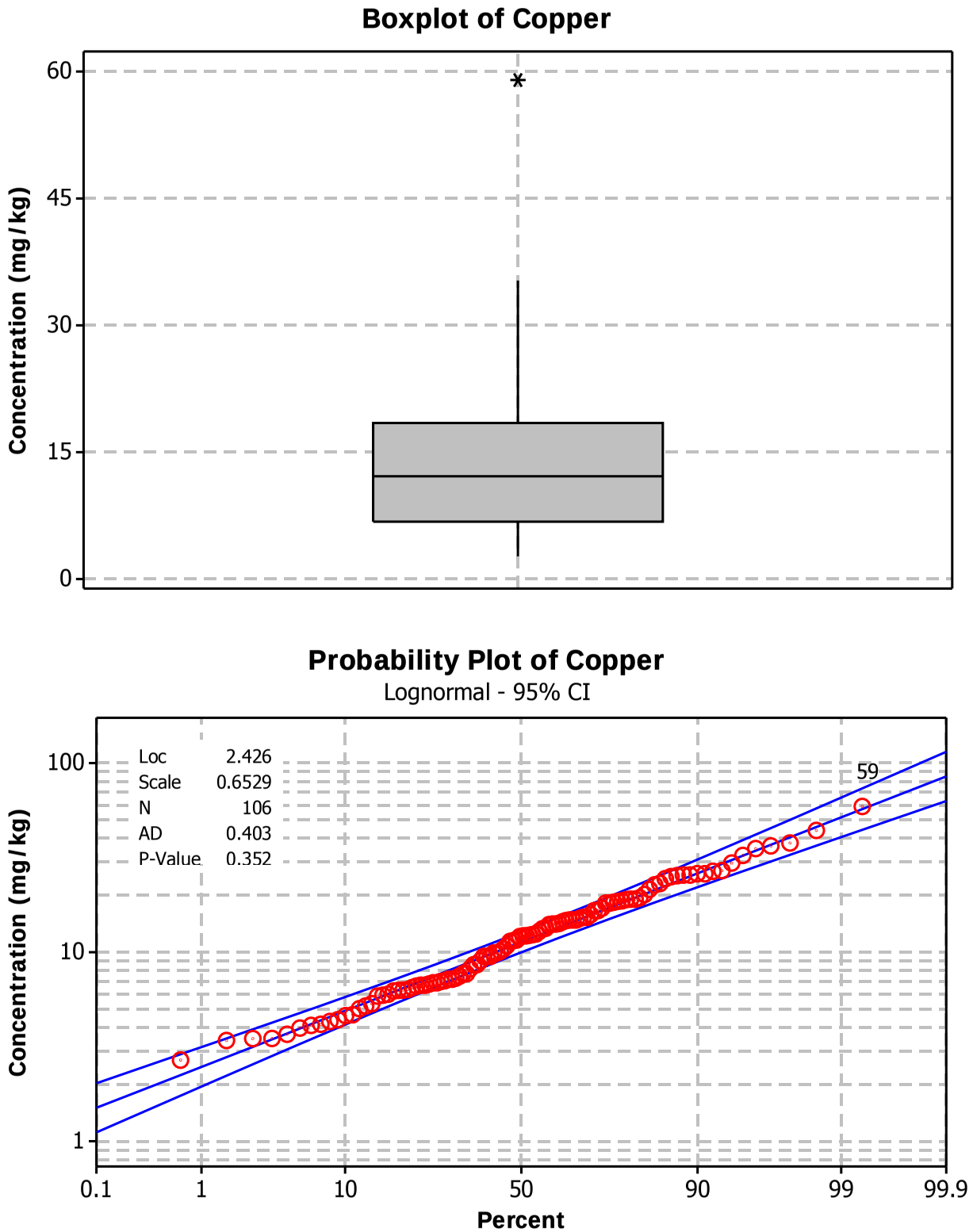
- Rosner test: 15.7

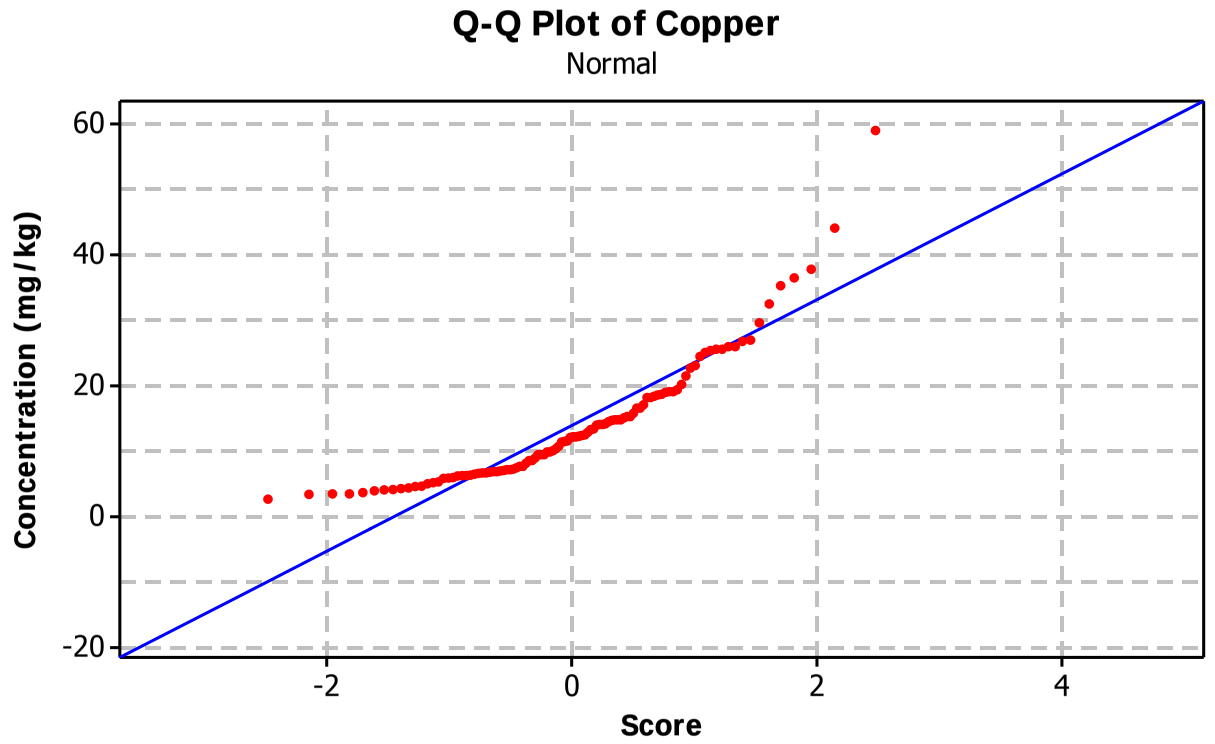
- Q-Q plot based suspected outliers - None

- GOF test: Lognormal

- No outlier

Figure A2-4-8: Copper Outlier Evaluation





- 3IR suspected outliers - 59

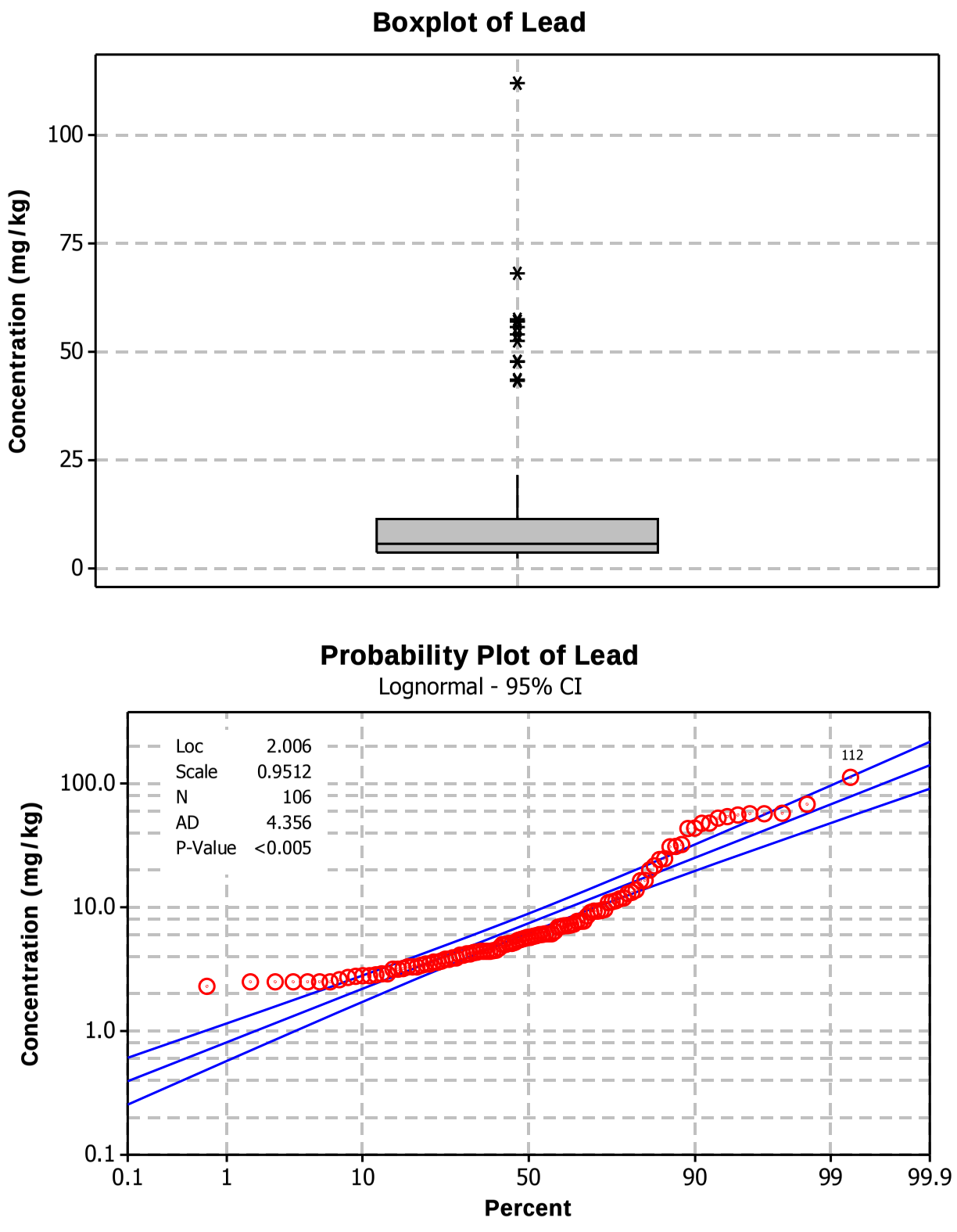
- Rosner test = 59

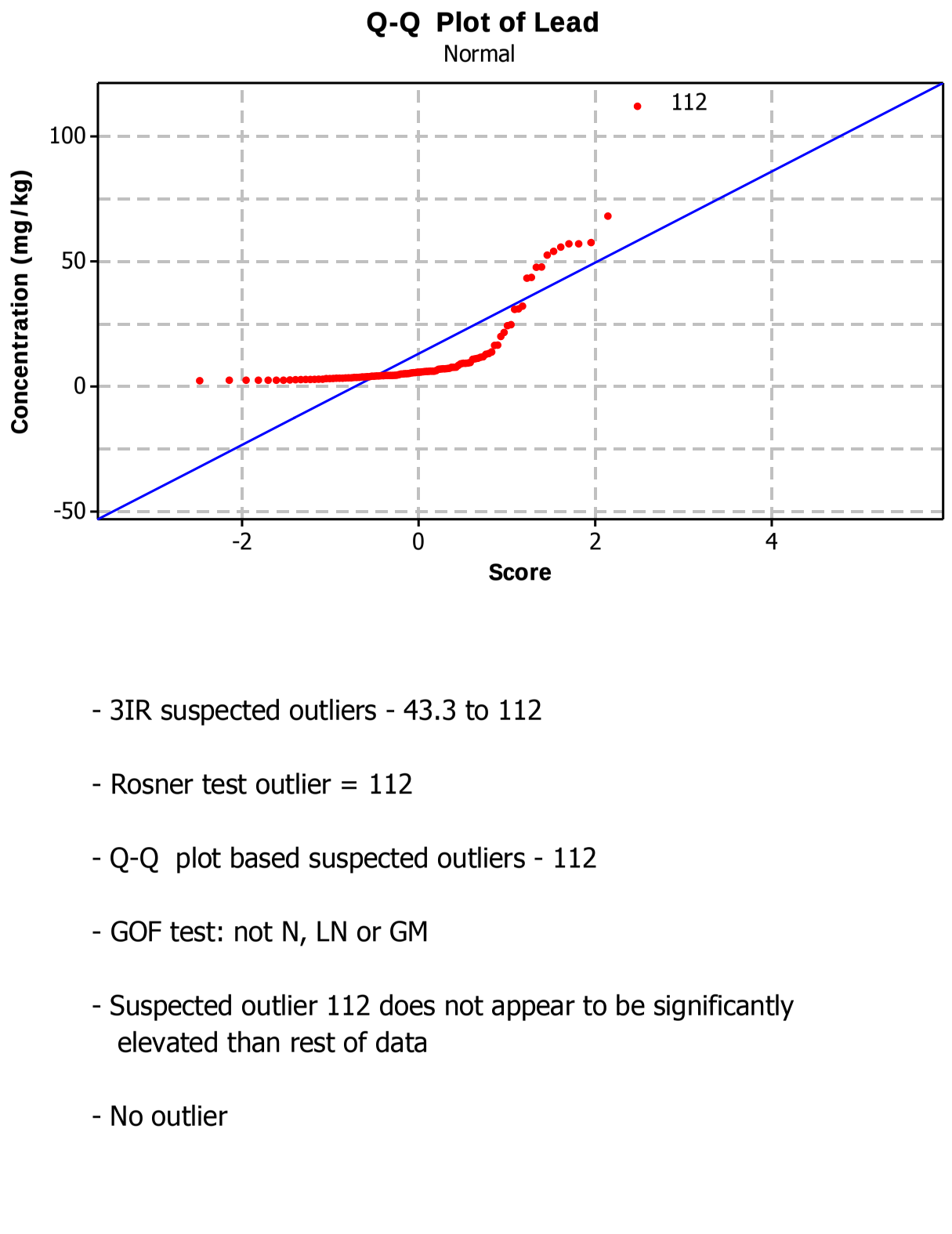
- Q-Q plot based suspected outliers - None

- GOF test: Lognormal or gamma

- No outlier

Figure A2-4-9: Lead Outlier Evaluation





- 3IR suspected outliers - 43.3 to 112

- Rosner test outlier = 112

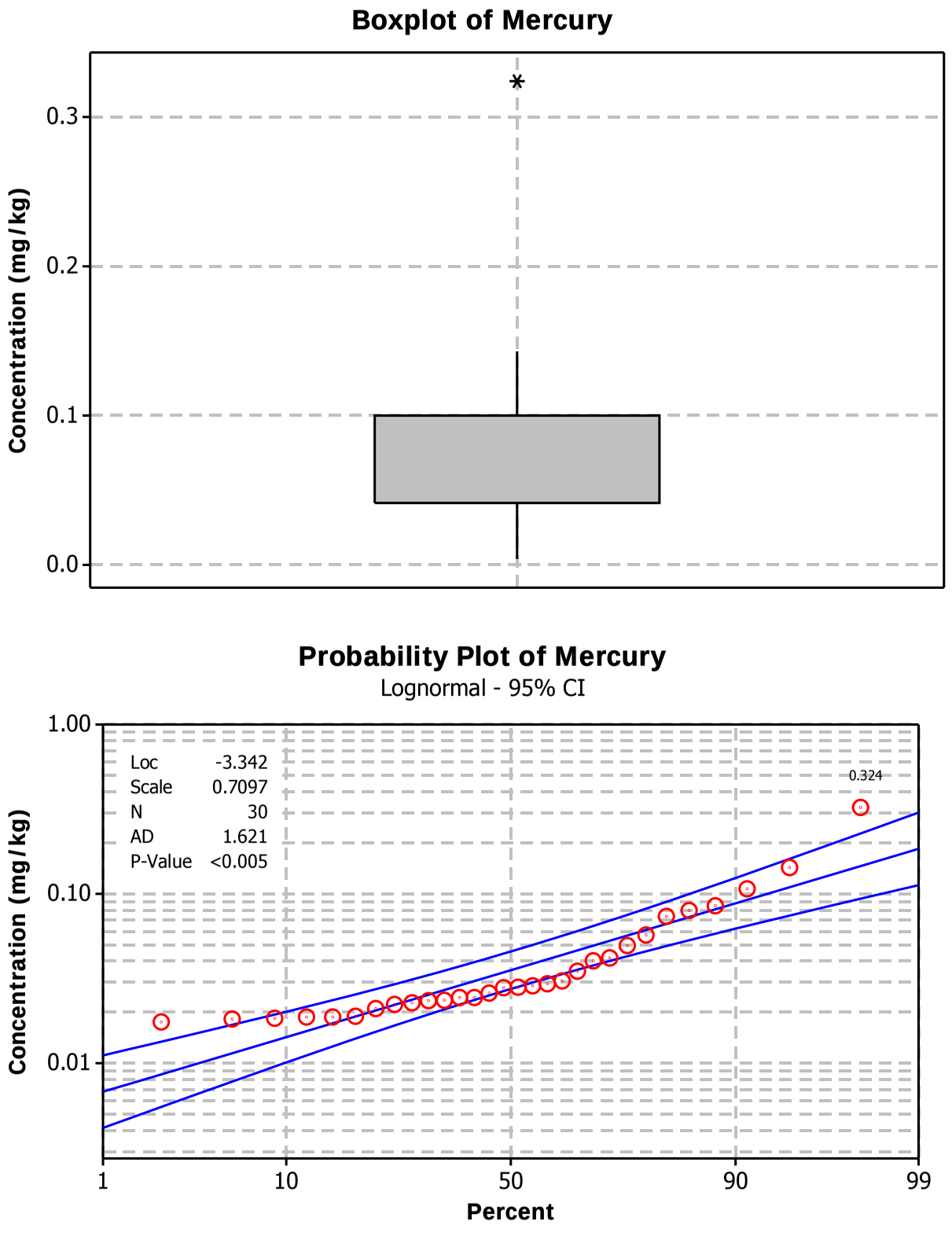
- Q-Q plot based suspected outliers - 112

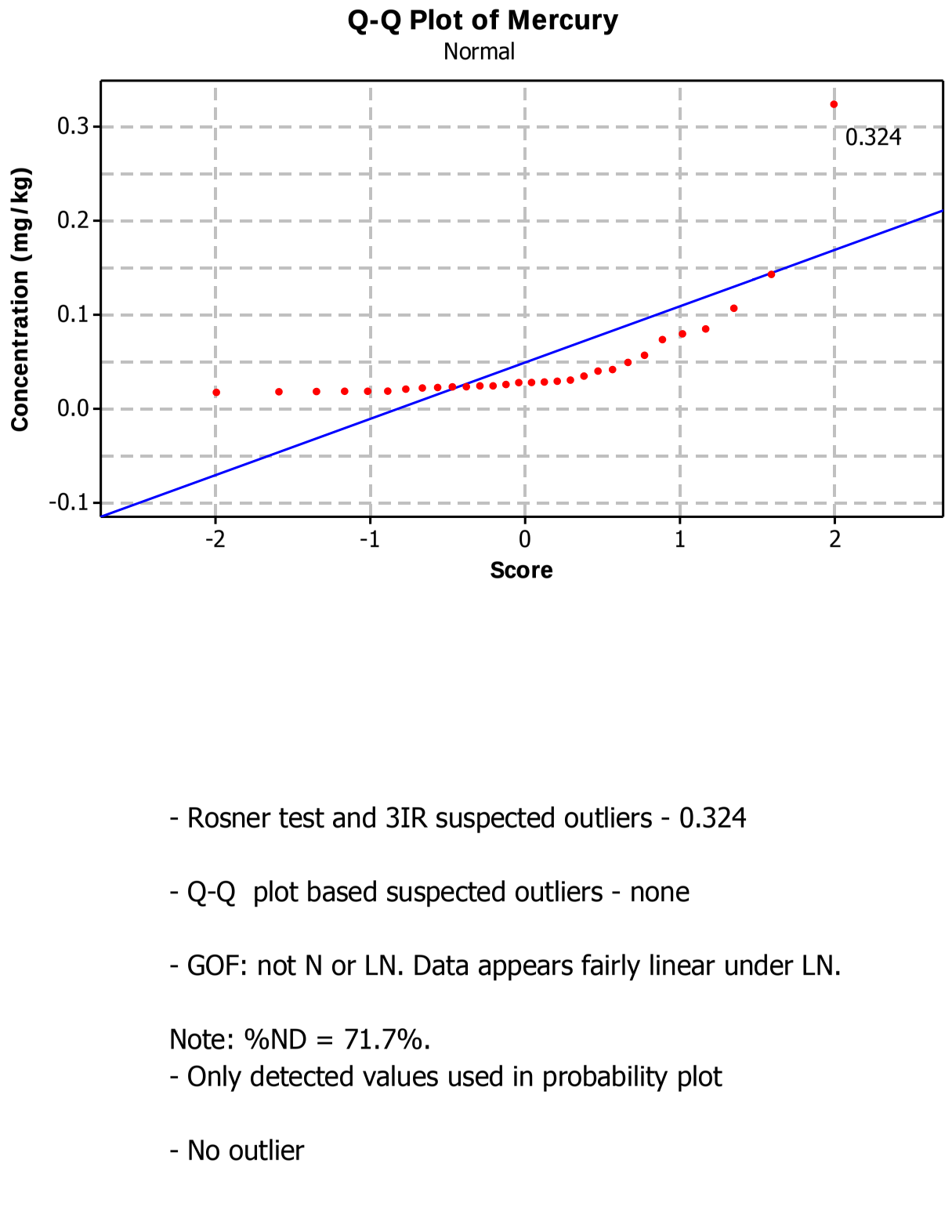
- GOF test: not N, LN or GM

- Suspected outlier 112 does not appear to be significantly elevated than rest of data

- No outlier

Figure A2-4-10: Mercury Outlier Evaluation





- Rosner test and 3IR suspected outliers - 0.324

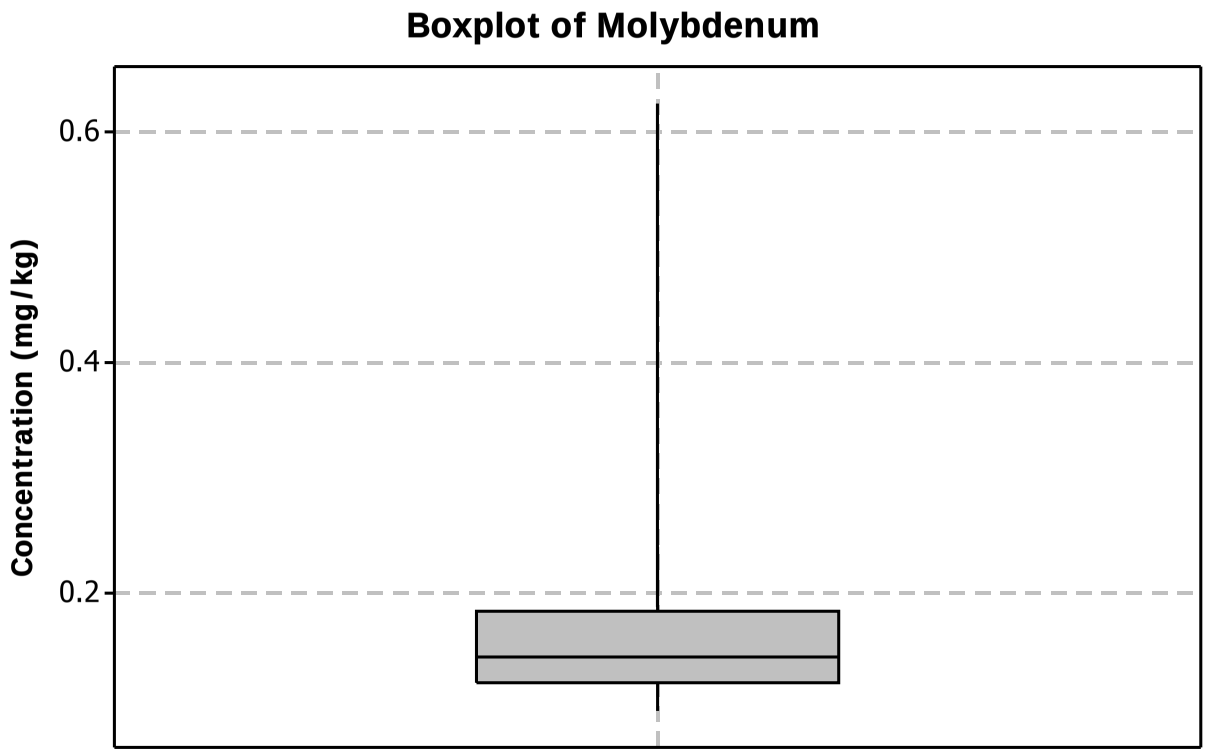
- Q-Q plot based suspected outliers - none

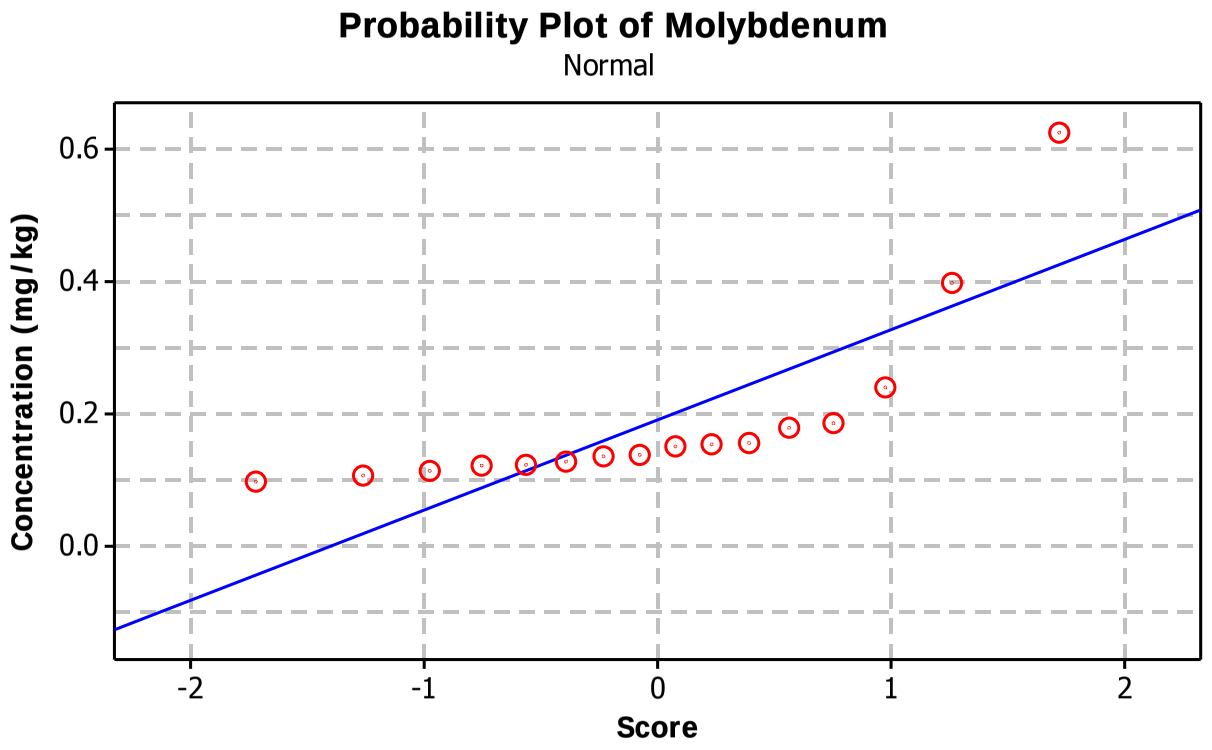
- GOF: not N or LN. Data appears fairly linear under LN.

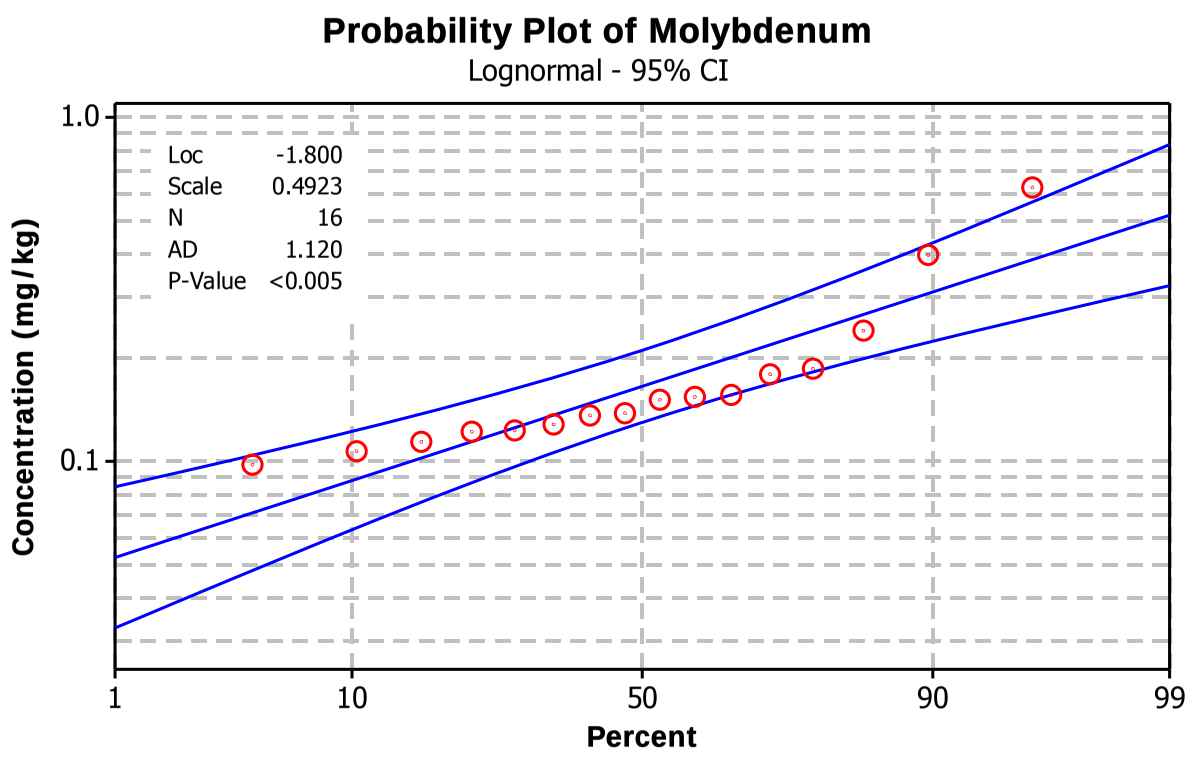
Note: %ND = 71.7%.
- Only detected values used in probability plot

- No outlier

Figure A2-4-11: Molybdenum Outlier Evaluation





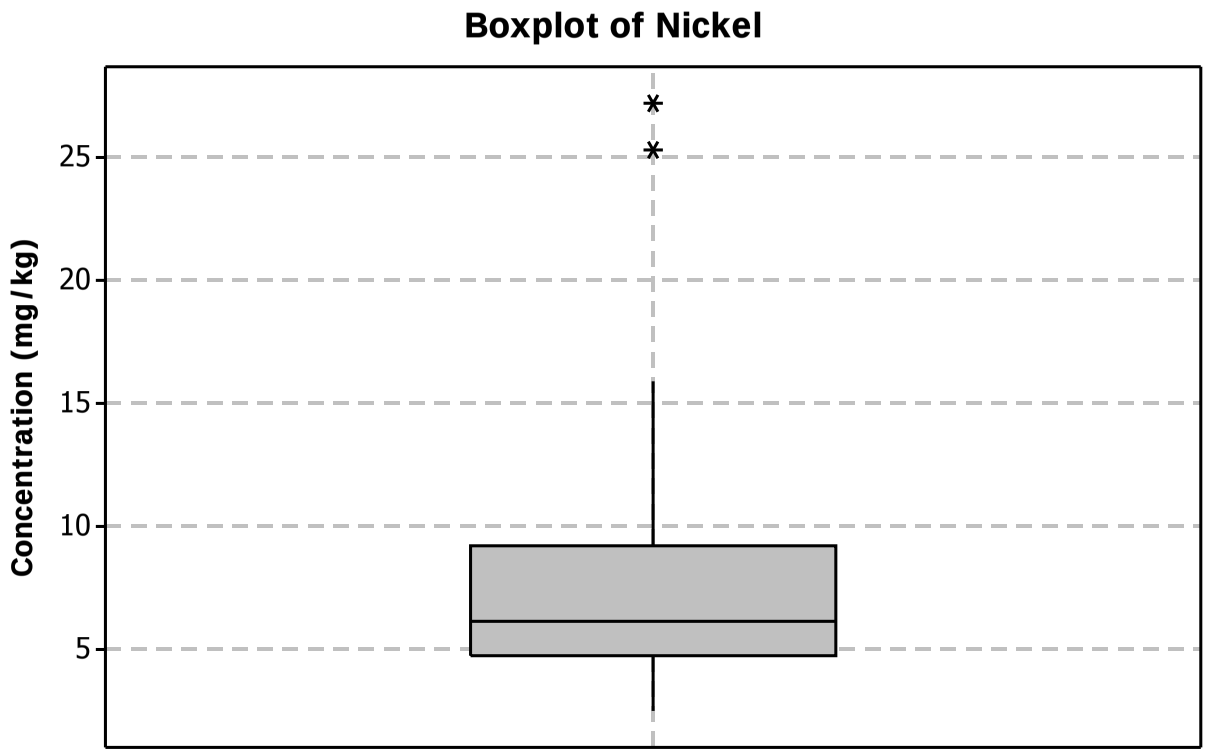


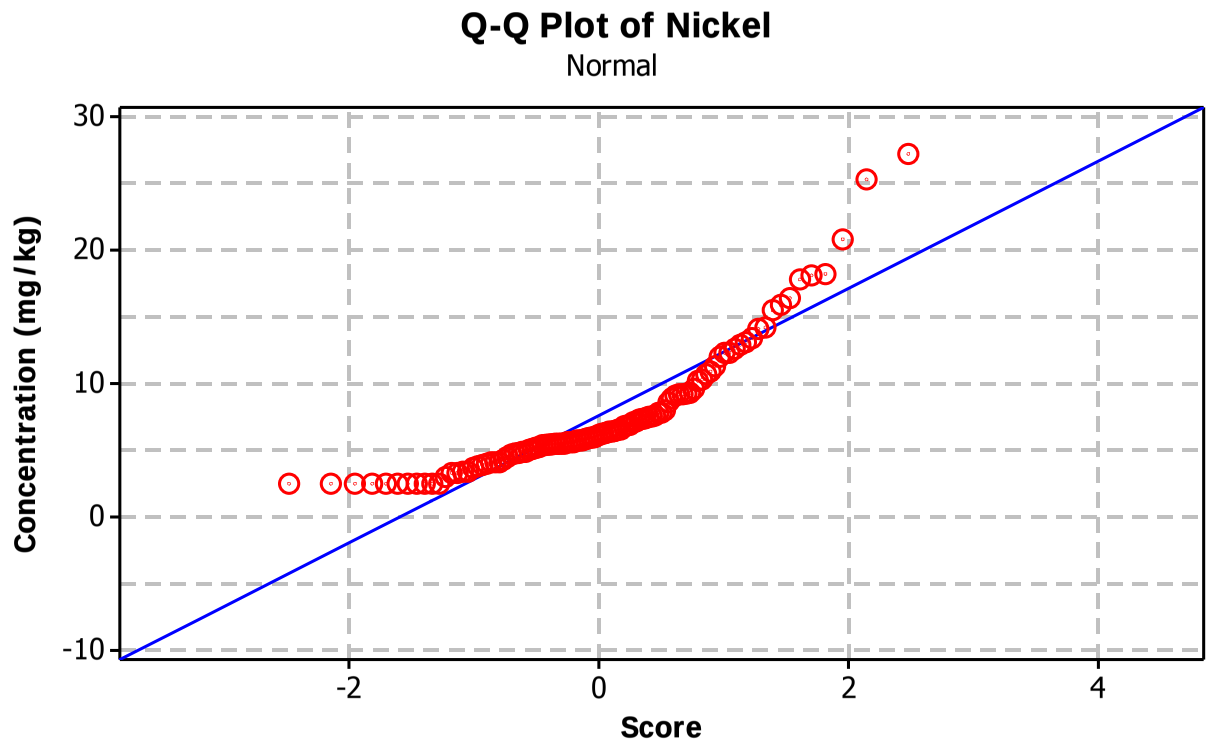
- Rosner test and 3IR suspected outliers - none

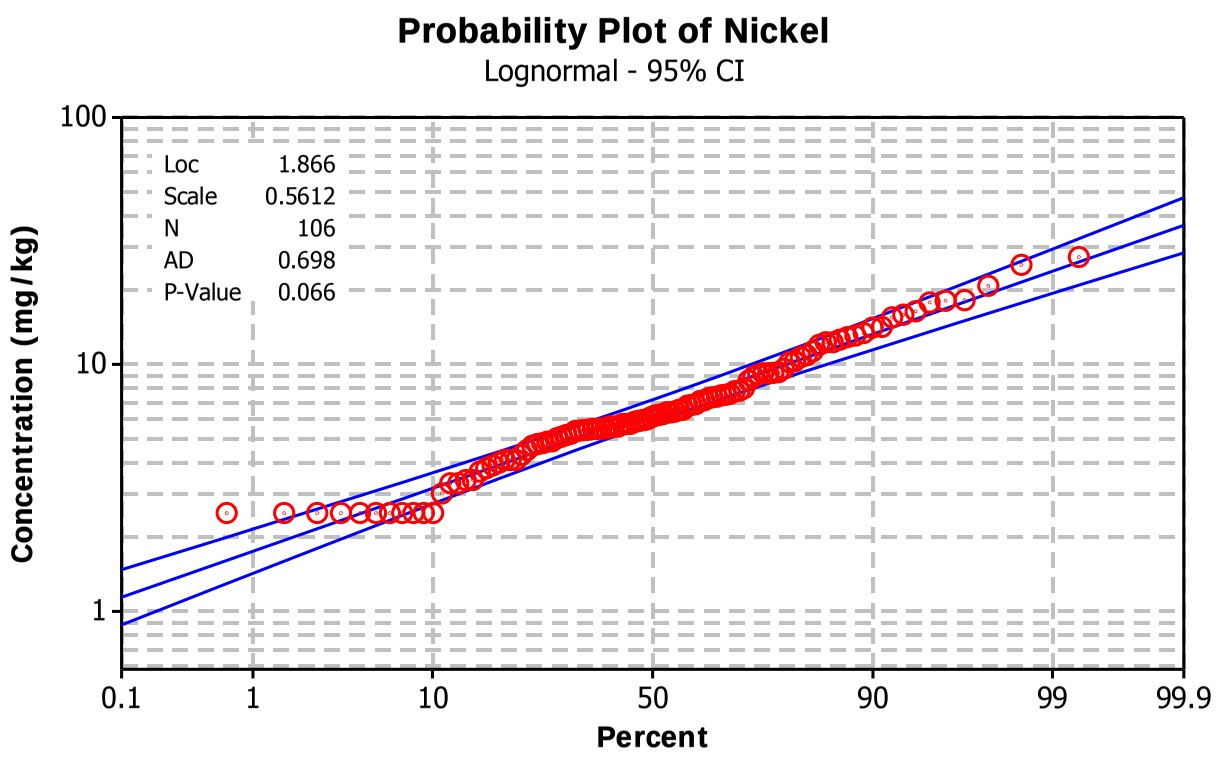
- Probability plot based suspected outliers - none

Note: %ND = 84.9%.
- Only detected values used in probability plot

Figure A2-4-12: Nickel Outlier Evaluation







- 3IR suspected outliers -25.3, 27.2

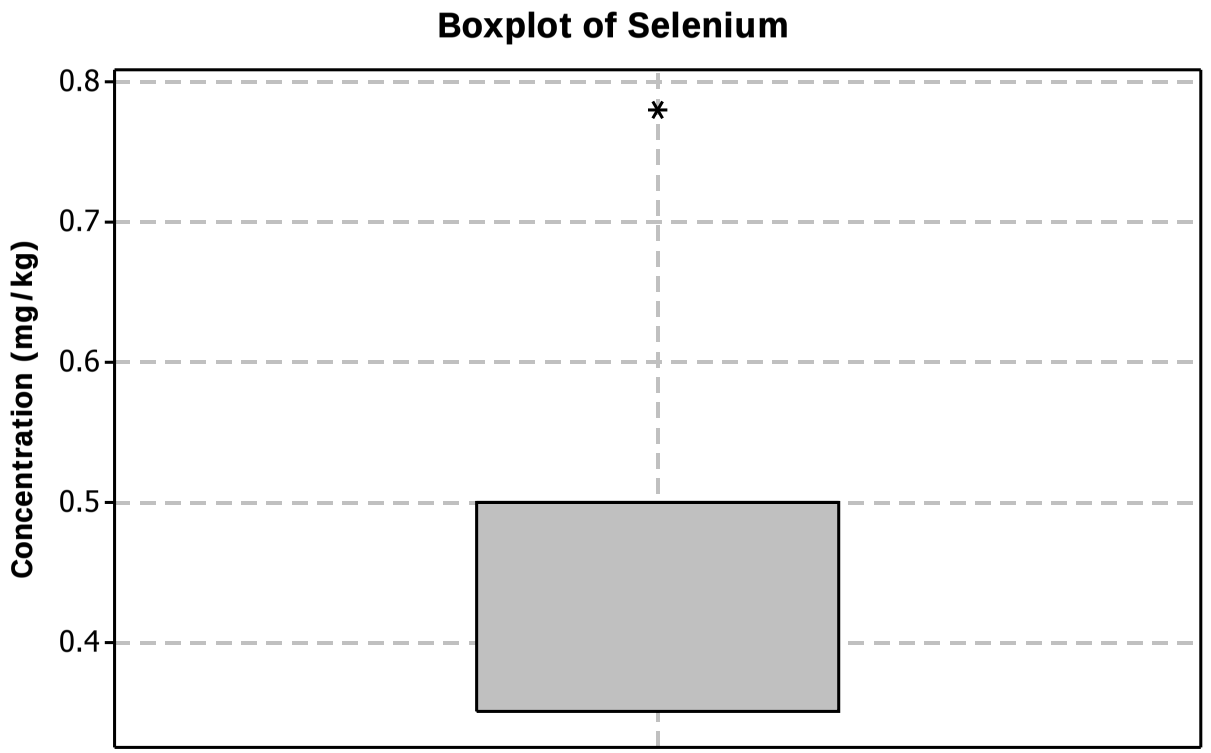
- Rosner test 27.2

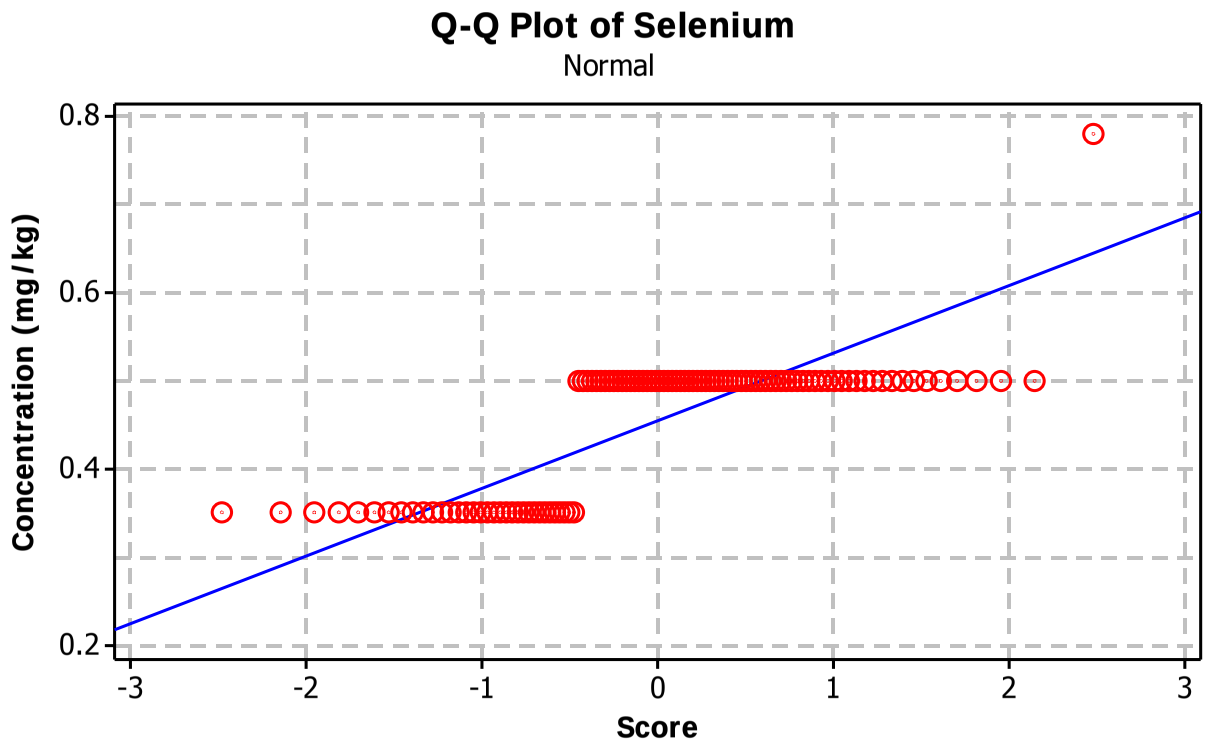
- Q-Q plot based suspected outliers - none

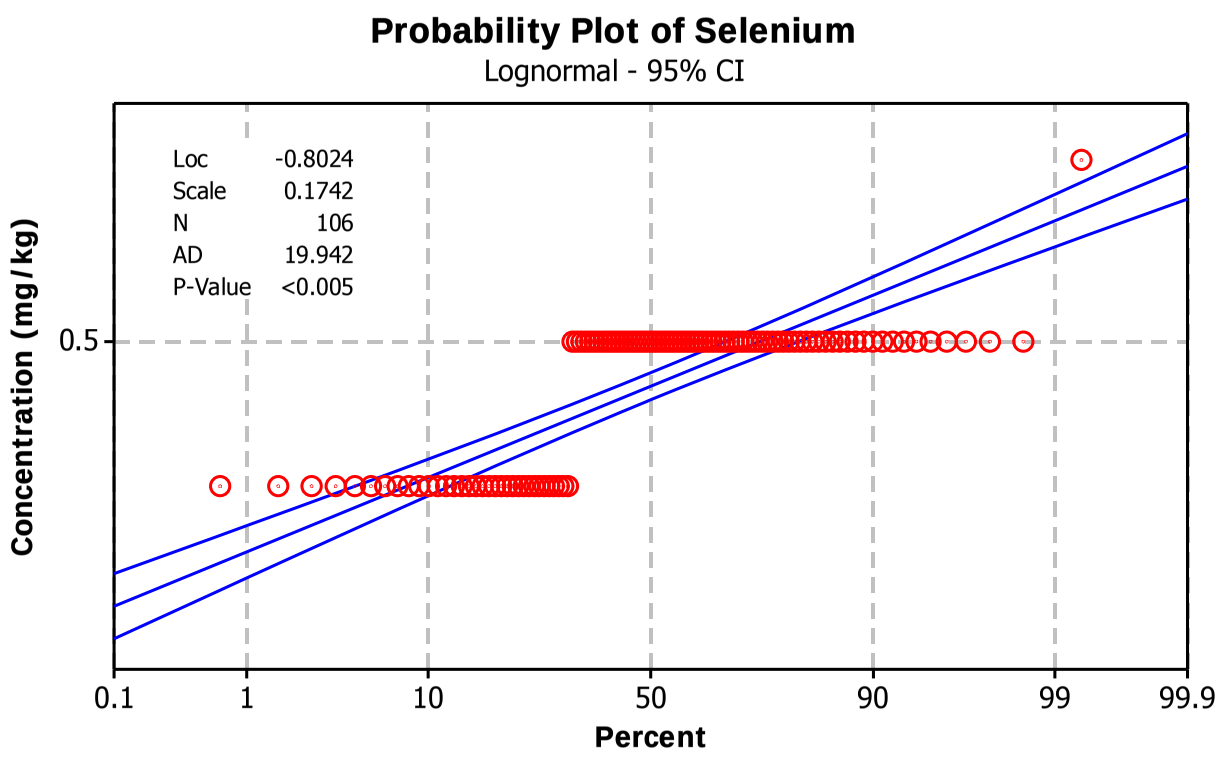
- GOF test: Lognormal

- No outlier

Figure A2-4-13: Selenium Outlier Evaluation





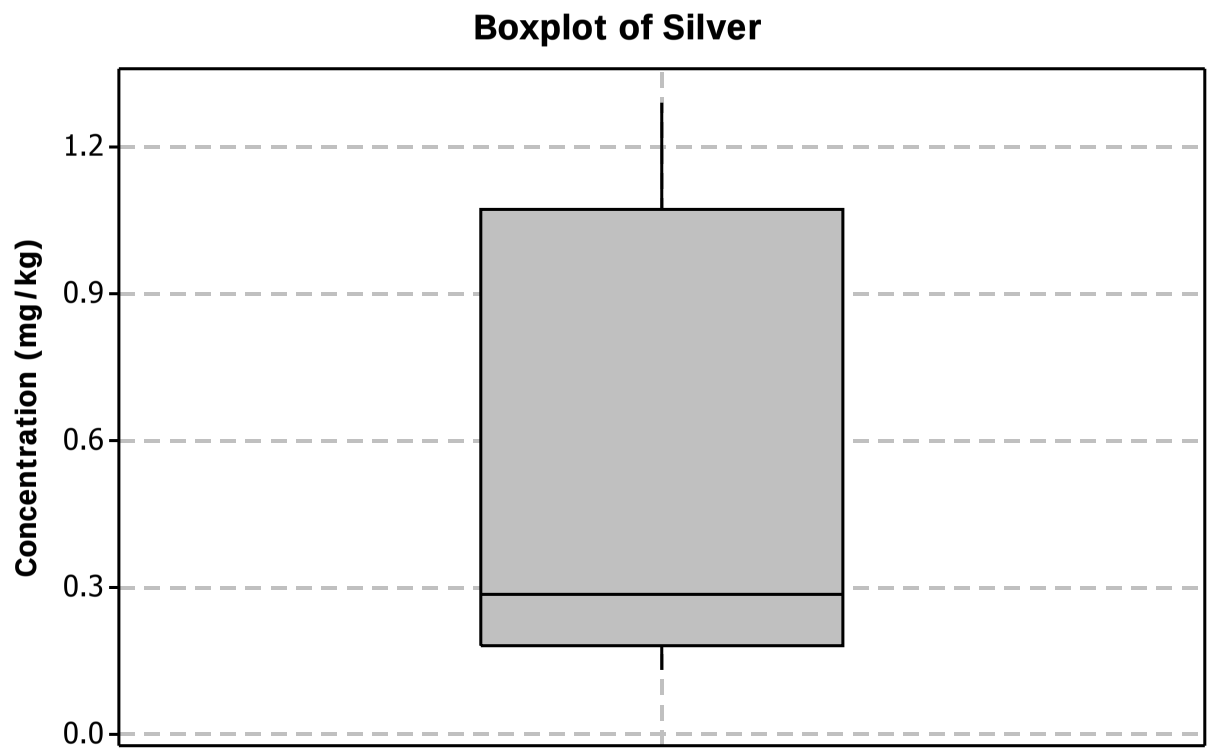


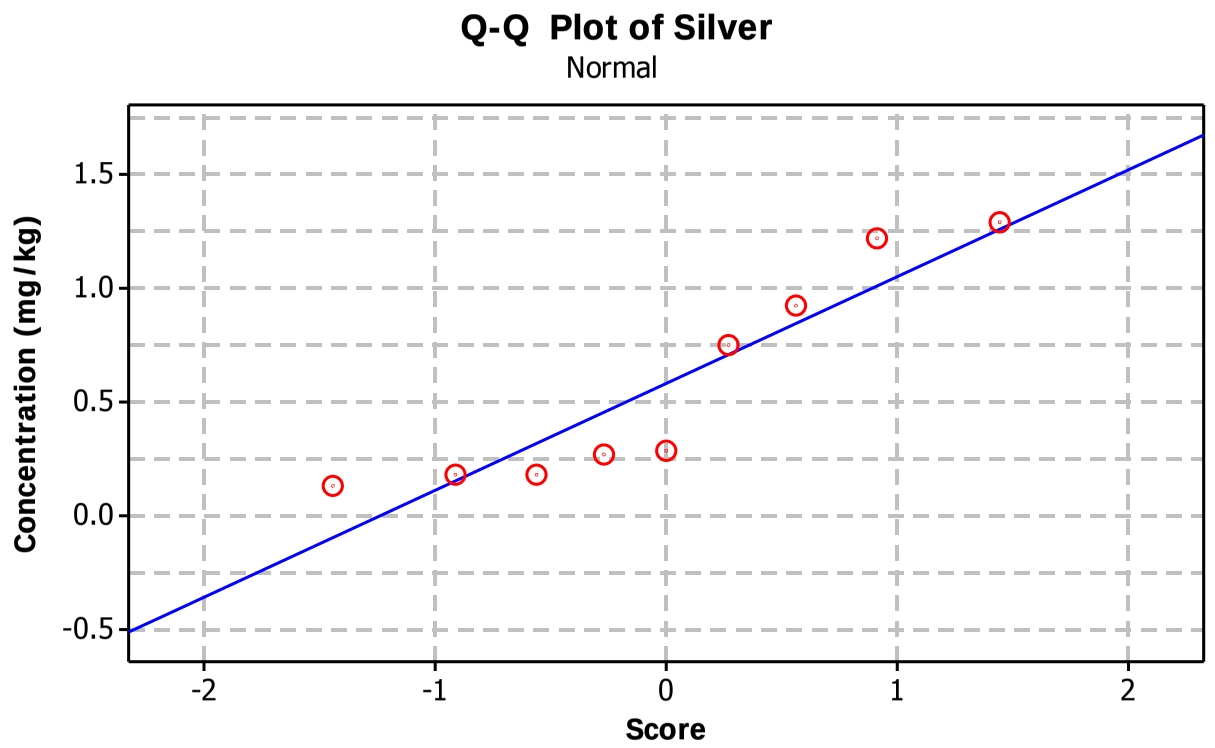
Note: Samples 99% ND (only 1 sample detected)

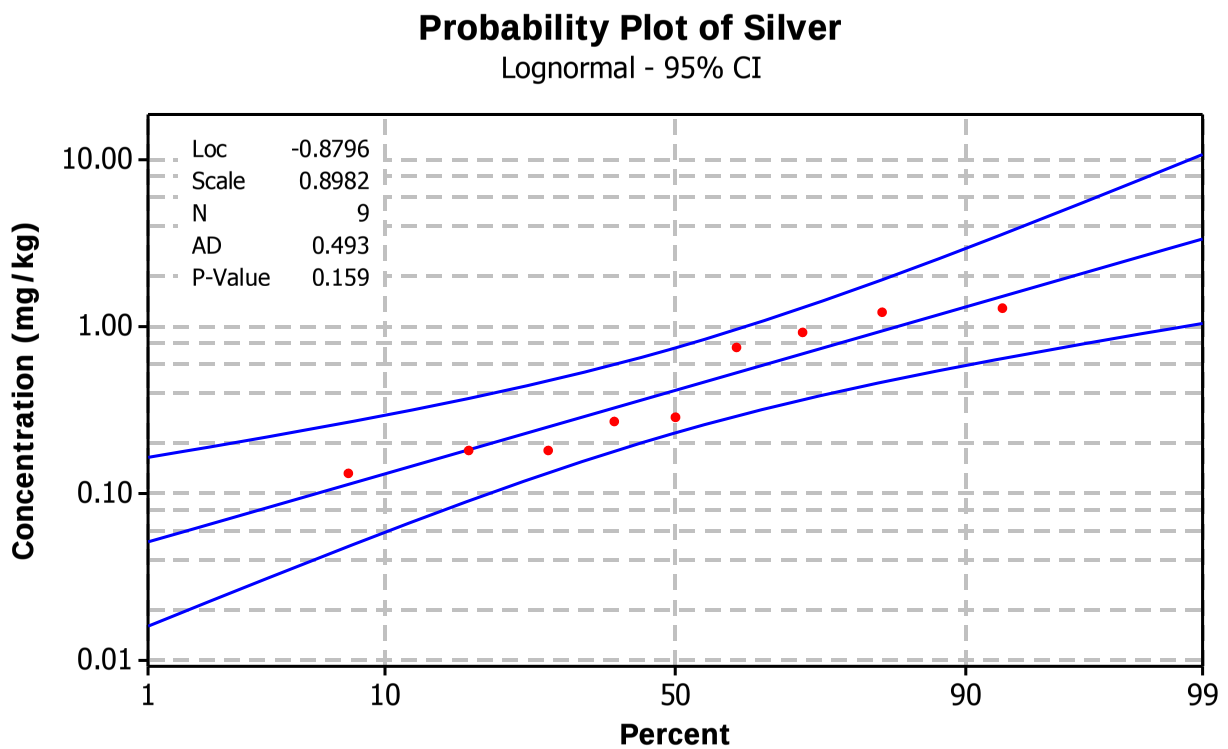
- No reliable statistical tests

- No samples were eliminated as outliers

Figure A2-4-14: Silver Outlier Evaluation







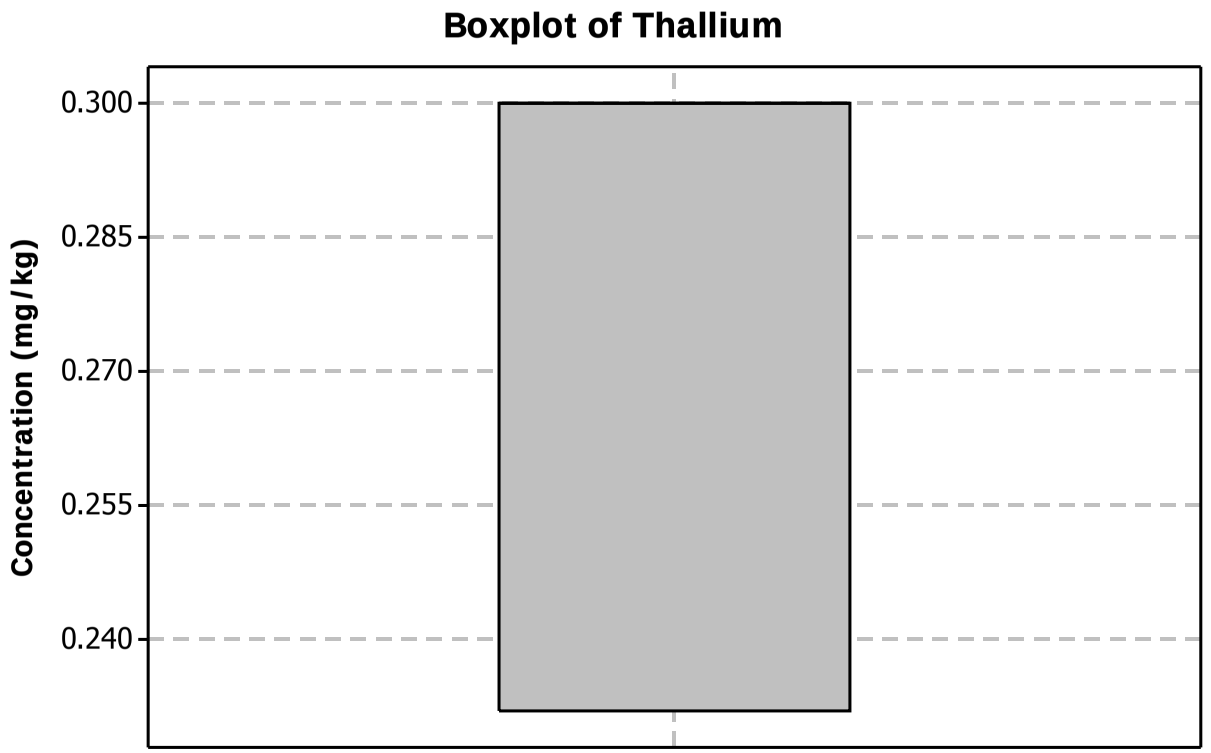
- Rosner test and 3IR suspected outliers - none

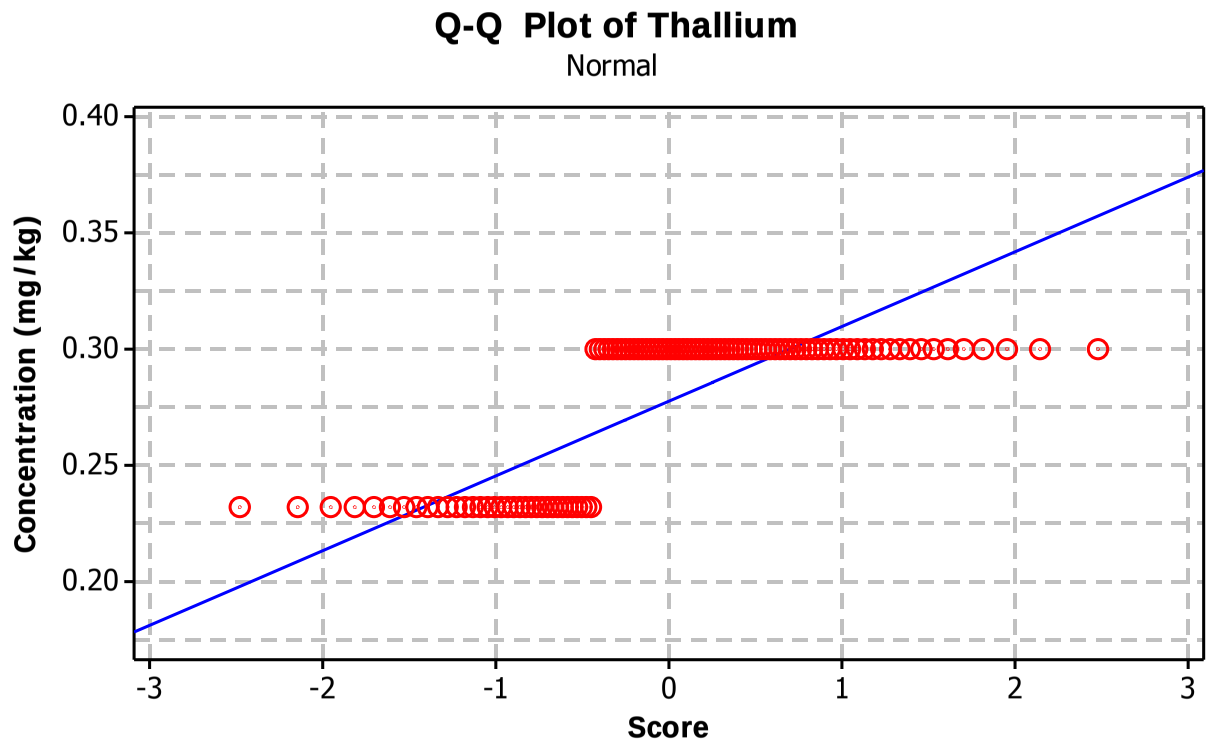
- Q-Q plot based suspected outliers - none

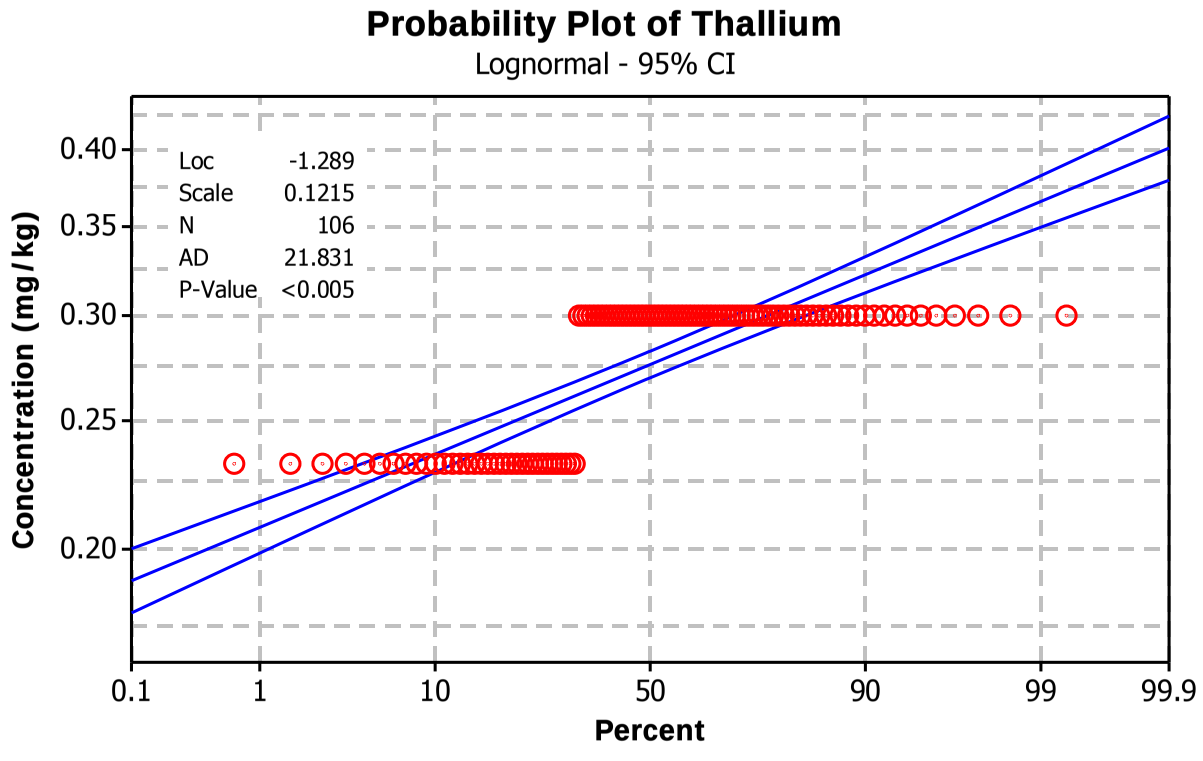
Note: %ND = 91.5%.
- Only detected values used in probability plot

- No outlier

Figure A2-4-15: Thallium Outlier Evaluation

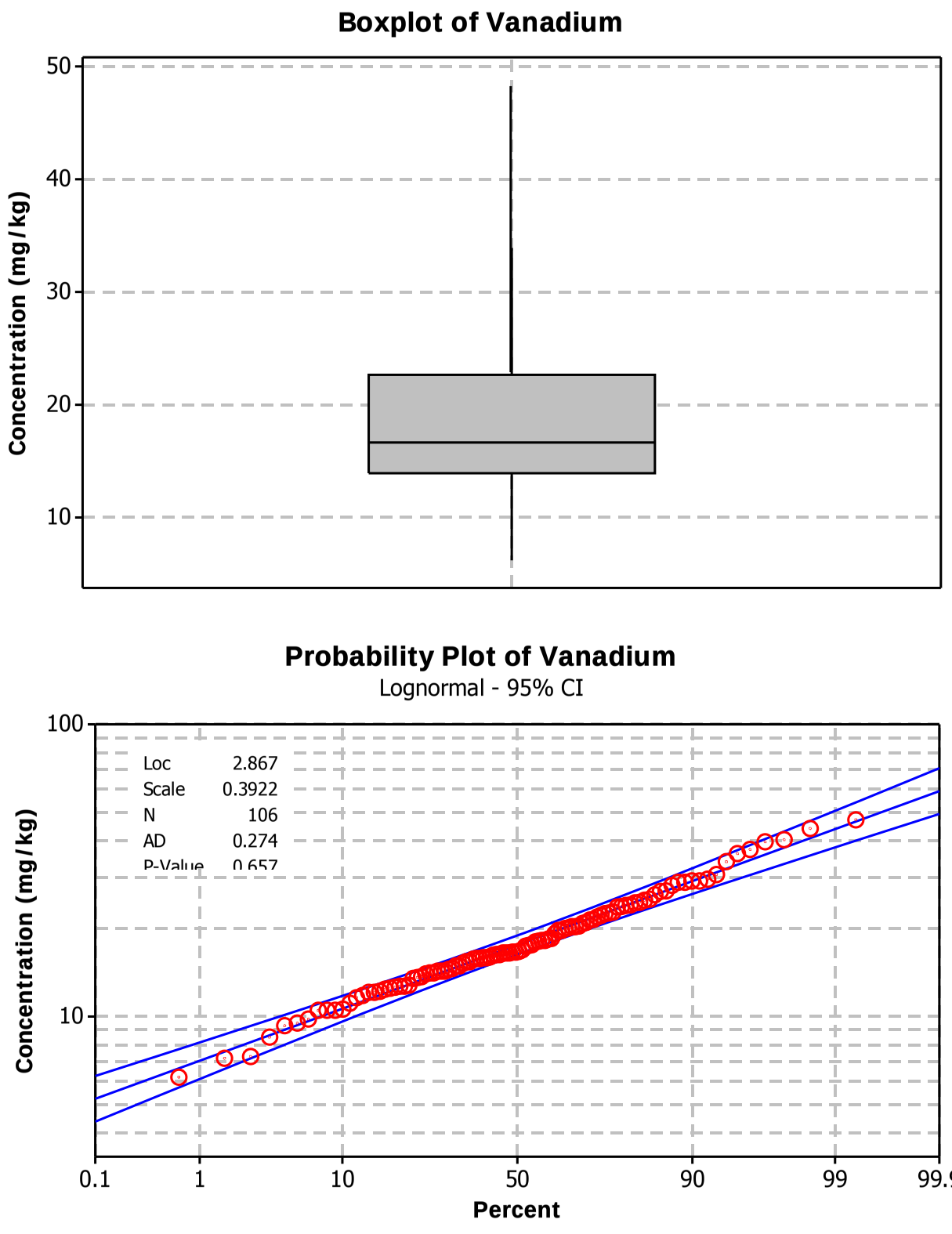


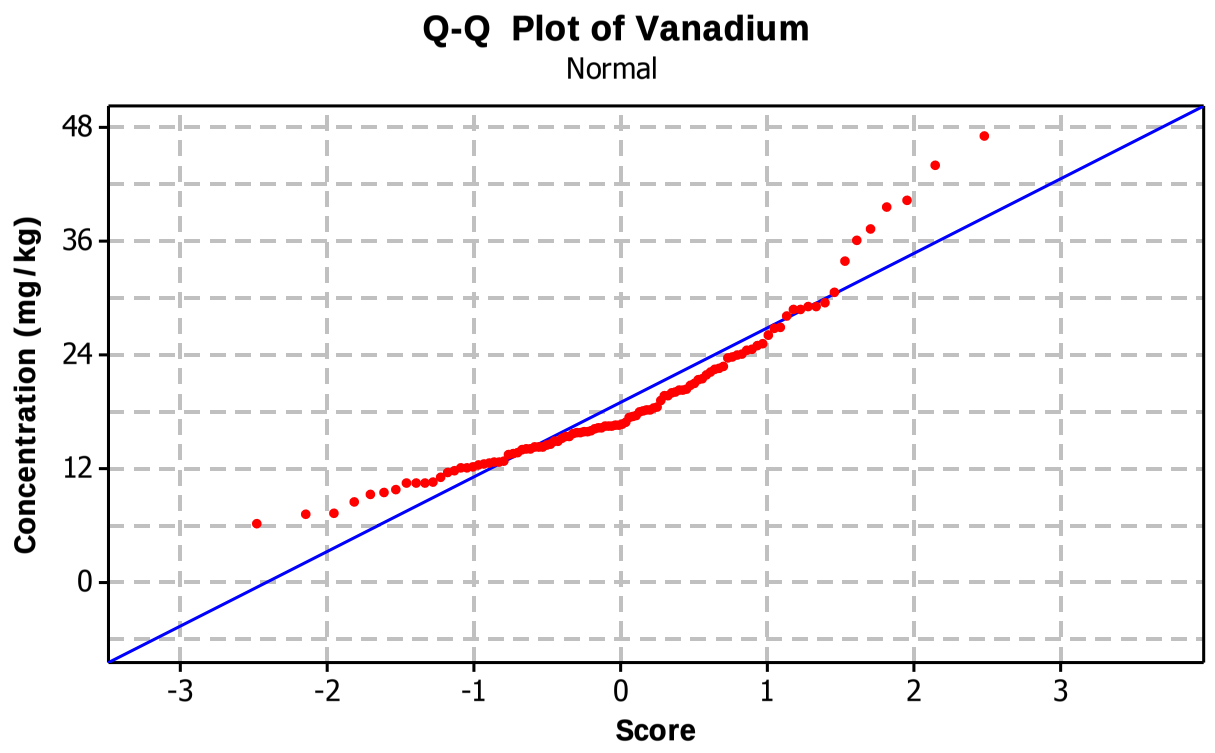




%ND = 100%

Figure A2-4-16: Vanadium Outlier Evaluation





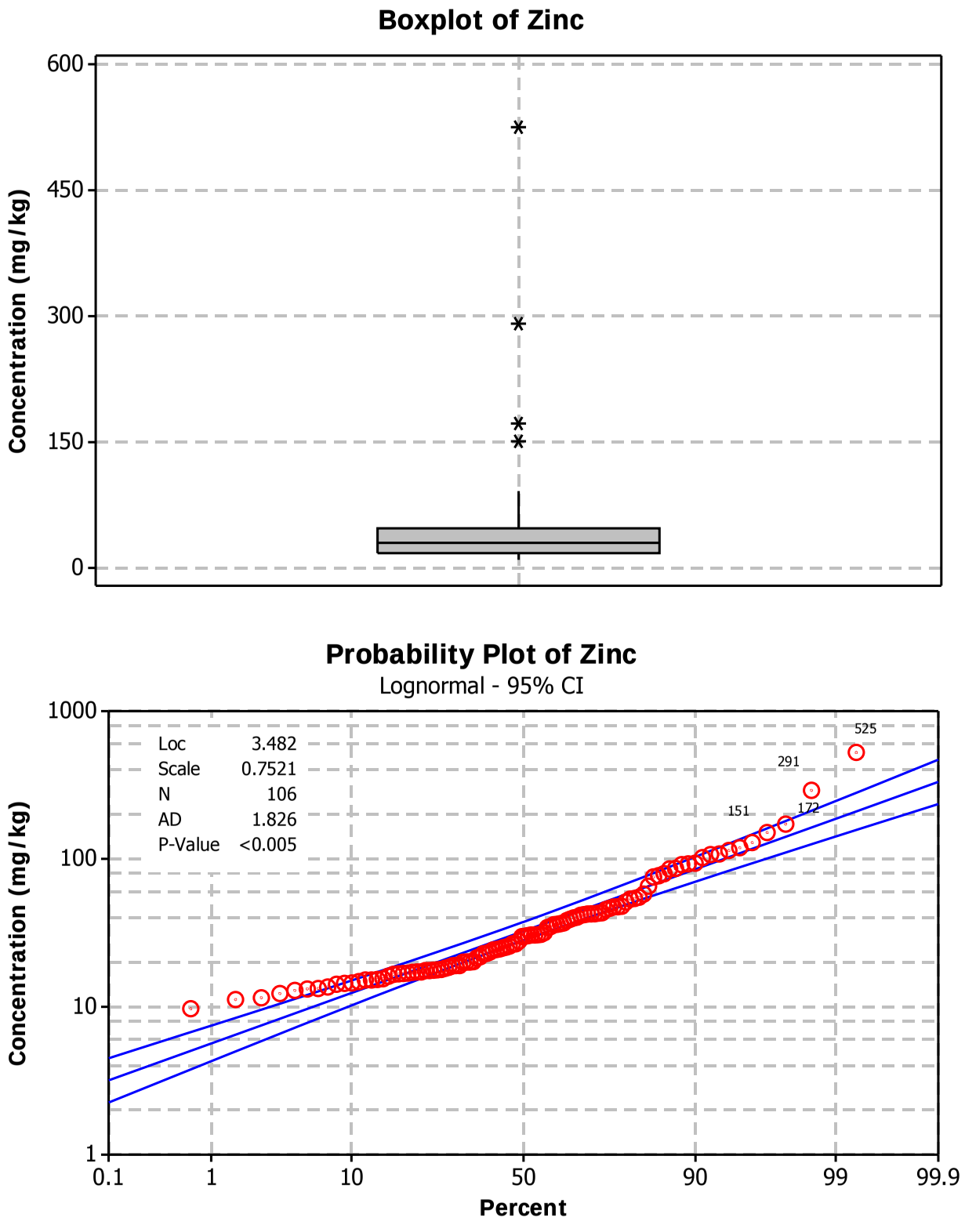
- Rosner test and 3IR suspected outliers - none

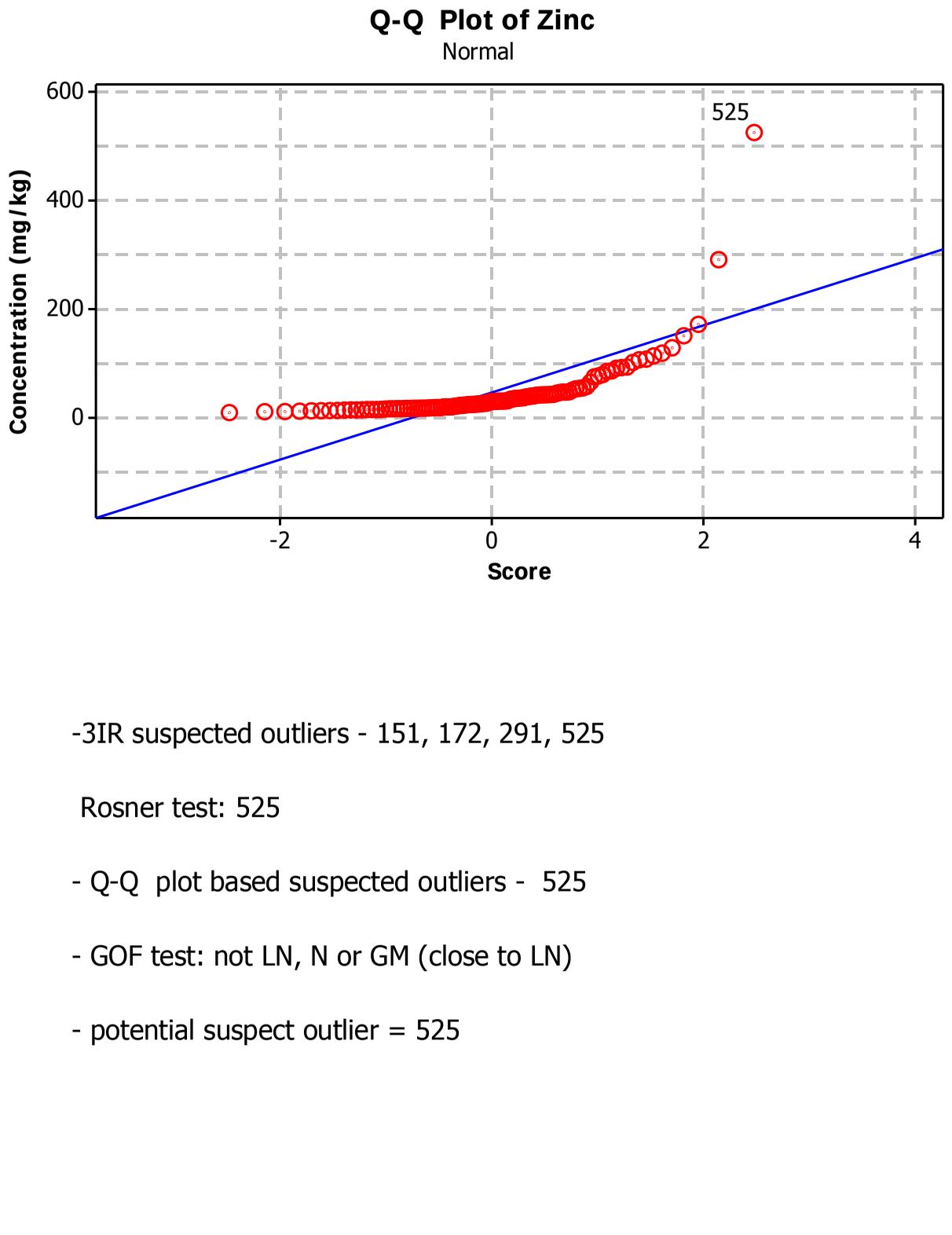
- Q-Q plot based suspected outliers - None

- GOF Test : Lognormal

- No outlier

Figure A2-4-17: Zinc Outlier Evaluation





-3IR suspected outliers - 151, 172, 291, 525

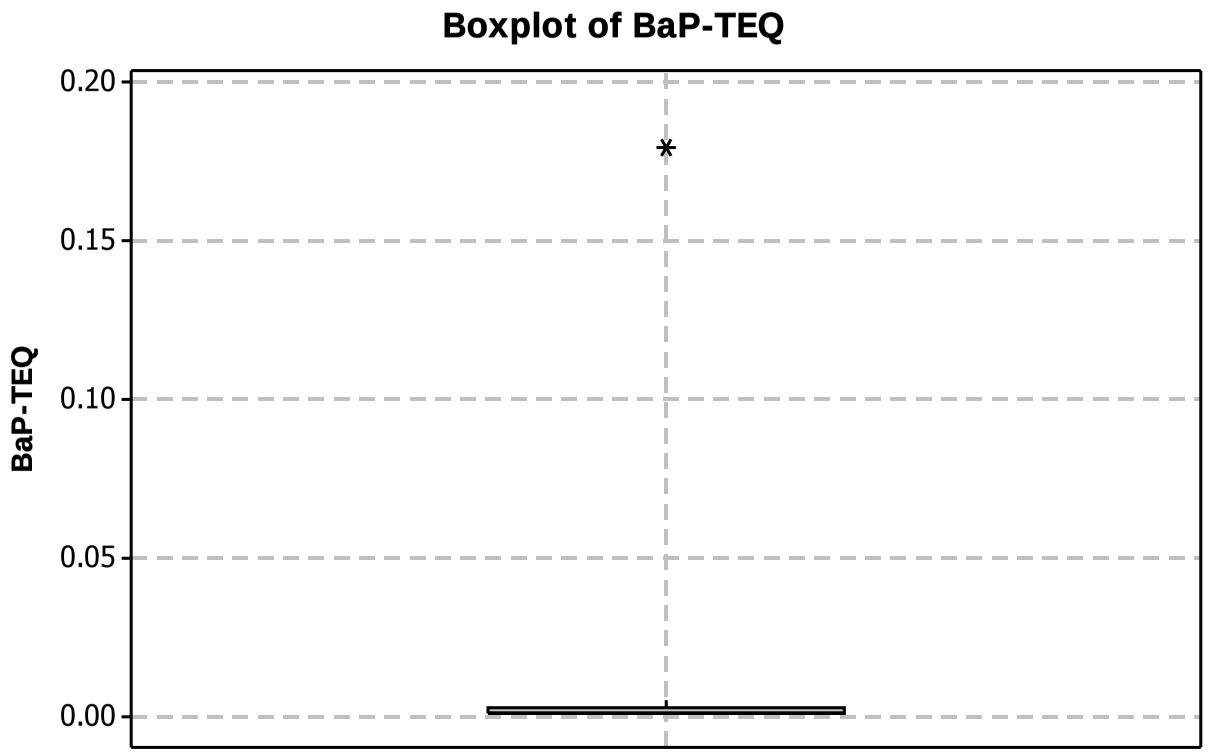
Rosner test: 525

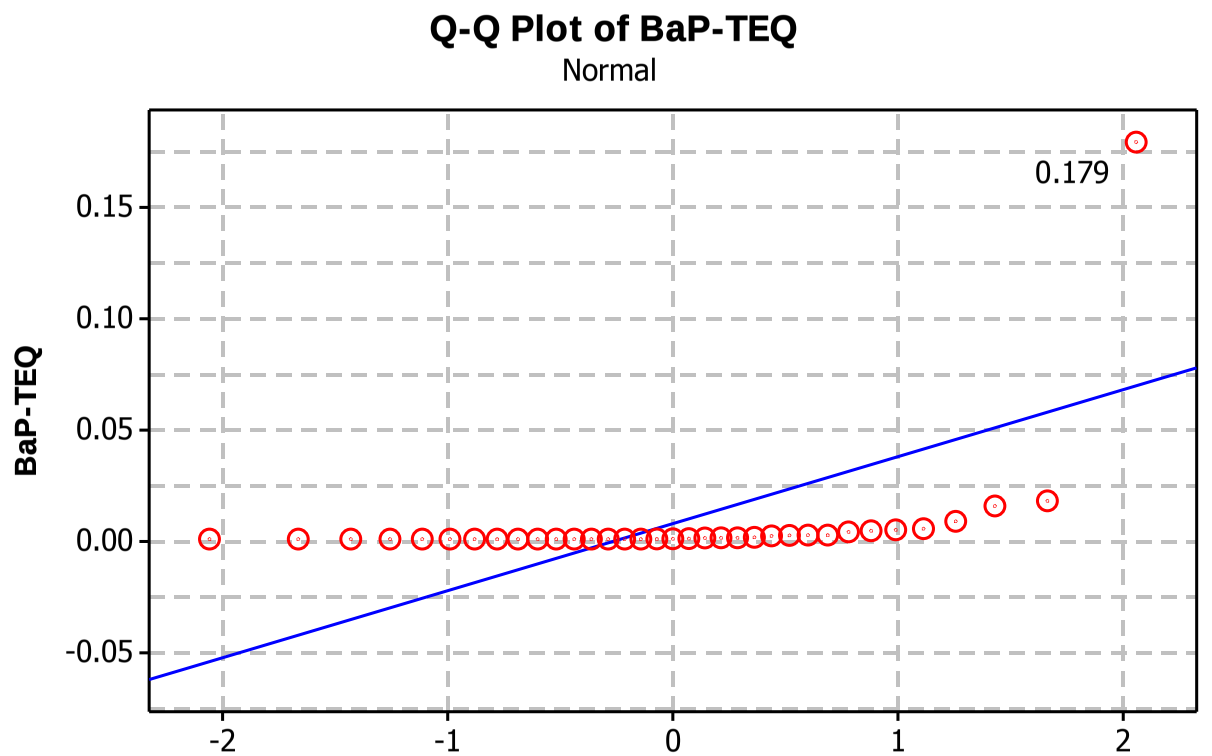
- Q-Q plot based suspected outliers - 525

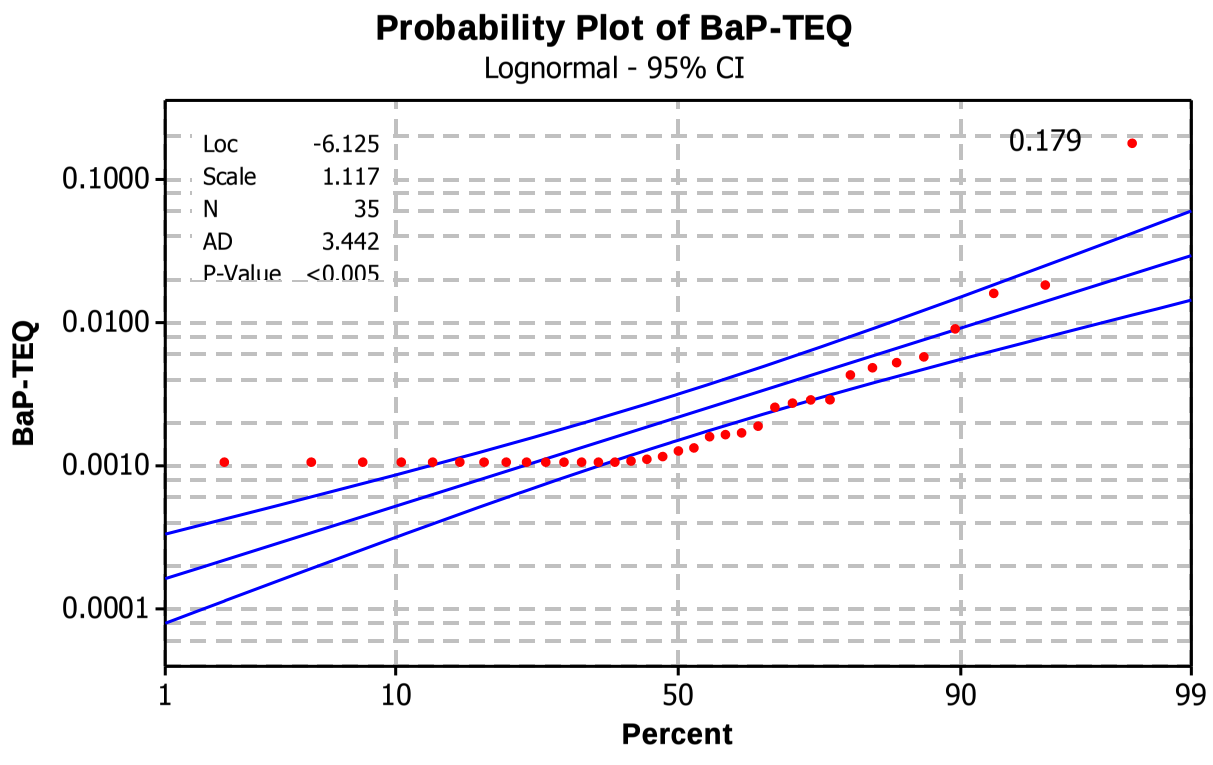
- GOF test: not LN, N or GM (close to LN)

- potential suspect outlier = 525

Figure A2-4-18: cPAH Outlier Evaluation







- 3IR suspected outliers - 0.179

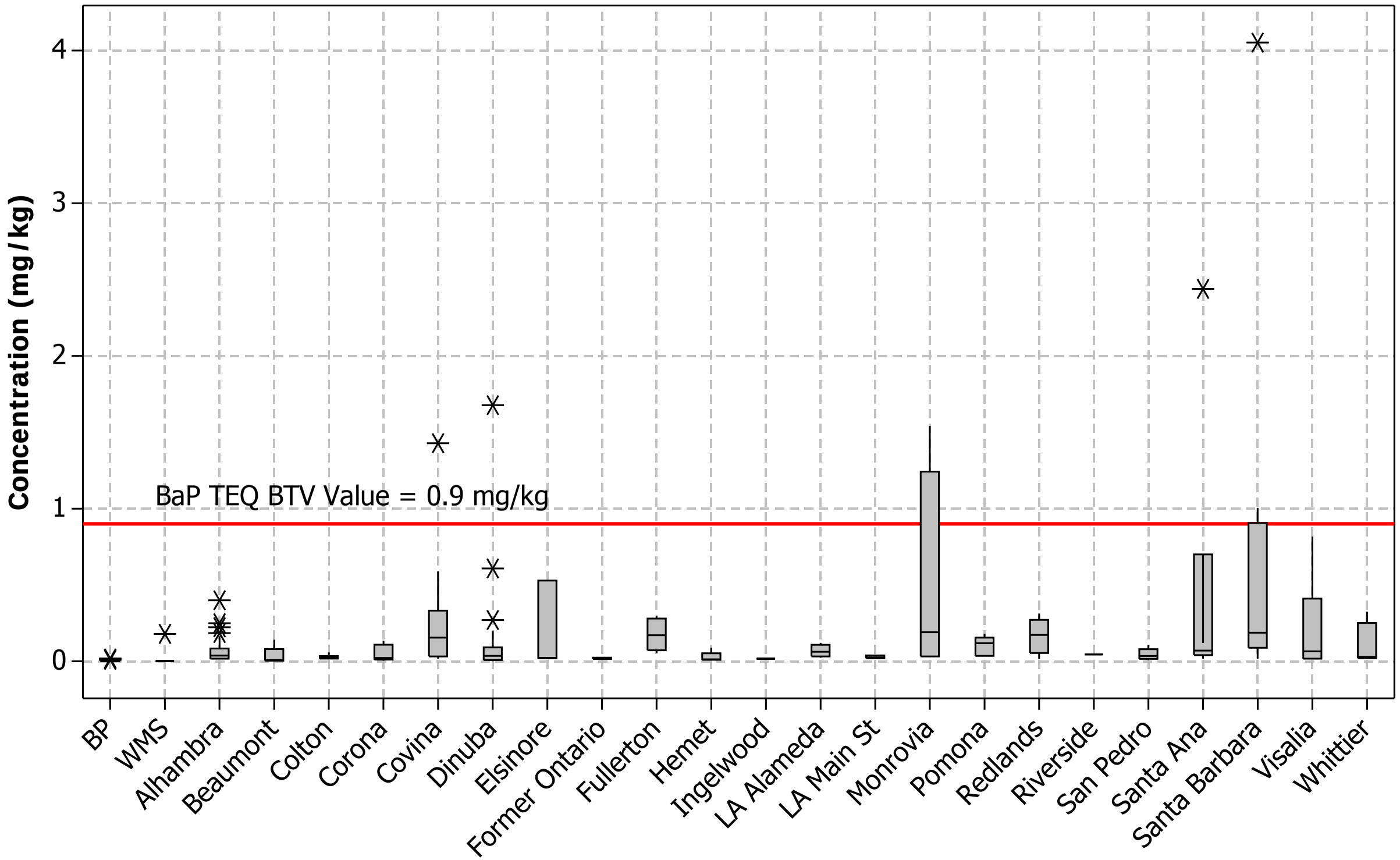
- Rosner test = 0.179

- Q-Q plot based suspected outliers - 0.179

- GOF test: No discernible distribution (not N, LN or GM)

- No outlier

Figure A2-5: Boxplots of Local Background and Southern California Background cPAH Datasets



ProUCL Output

	General Background Statistics for Data Sets with Non-Detects	
User Selected Options		
From File	WorkSheet.wst	
Full Precision	OFF	
Confidence Coefficient	95%	
Coverage	99%	
Different or Future K Values	1	
Number of Bootstrap Operations	2000	

Antimony

General Statistics

Number of Valid Data	106	Number of Detected Data	1
Number of Distinct Detected Data	1	Number of Non-Detect Data	105

Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!

It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Antimony was not processed!

Arsenic

General Statistics

Number of Valid Data	105	Number of Detected Data	102
Number of Distinct Detected Data	61	Number of Non-Detect Data	3
Tolerance Factor	2.671	Percent Non-Detects	2.86%
Number of Missing Values	1		

Raw Statistics		**Log-transformed Statistics**	
Minimum Detected	0.3	Minimum Detected	-1.204
Maximum Detected	11.9	Maximum Detected	2.477
Mean of Detected	2.041	Mean of Detected	0.542
SD of Detected	1.511	SD of Detected	0.577
Minimum Non-Detect	0.3	Minimum Non-Detect	-1.204
Maximum Non-Detect	0.3	Maximum Non-Detect	-1.204

Background Statistics

Normal Distribution Test with Detected Values Only		**Lognormal Distribution Test with Detected Values Only**	
Lilliefors Test Statistic	0.181	Lilliefors Test Statistic	0.0886
5% Lilliefors Critical Value	0.0877	5% Lilliefors Critical Value	0.0877
Data not Normal at 5% Significance Level		**Data not Lognormal at 5% Significance Level**	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.987	Mean (Log Scale)	0.472
SD	1.522	SD (Log Scale)	0.7
95% UTL 99% Coverage	6.053	95% UTL 99% Coverage	10.38
95% UPL (t)	4.526	95% UPL (t)	5.148
90% Percentile (z)	3.938	90% Percentile (z)	3.929

54				95% Percentile (z)	4.491					95% Percentile (z)	5.067
55				99% Percentile (z)	5.529					99% Percentile (z)	8.162
56											
57				Maximum Likelihood Estimate(MLE) Method						Log ROS Method	
58				Mean	1.969					Mean in Original Scale	1.995
59				SD	1.545					SD in Original Scale	1.513
60				95% UTL with 99% Coverage	6.095					95% UTL with 99% Coverage	8.536
61										95% BCA UTL with 99% Coverage	11.9
62										95% Bootstrap (%) UTL with 99% Coverage	11.9
63				95% UPL (t)	4.545					95% UPL (t)	4.605
64				90% Percentile (z)	3.949					90% Percentile (z)	3.632
65				95% Percentile (z)	4.51					95% Percentile (z)	4.542
66				99% Percentile (z)	5.563					99% Percentile (z)	6.907
67											
68	**Gamma Distribution Test with Detected Values Only**									**Data Distribution Test with Detected Values Only**	
69				k star (bias corrected)	2.978					Data do not follow a Discernable Distribution (0.05)	
70				Theta Star	0.685						
71				nu star	607.6						
72											
73				A-D Test Statistic	1.627					**Nonparametric Statistics**	
74				5% A-D Critical Value	0.758					Kaplan-Meier (KM) Method	
75				K-S Test Statistic	0.101					Mean	1.992
76				5% K-S Critical Value	0.0895					SD	1.51
77	**Data not Gamma Distributed at 5% Significance Level**									SE of Mean	0.148
78										95% KM UTL with 99% Coverage	6.025
79	**Assuming Gamma Distribution**									95% KM Chebyshev UPL	8.605
80				Gamma ROS Statistics with Extrapolated Data						95% KM UPL (t)	4.51
81				Mean	1.983					90% Percentile (z)	3.927
82				Median	1.66					95% Percentile (z)	4.476
83				SD	1.528					99% Percentile (z)	5.505
84				k star	1.015						
85				Theta star	1.953					**Gamma ROS Limits with Extrapolated Data**	
86				Nu star	213.2					95% Wilson Hilferty (WH) Approx. Gamma UPL	4.962
87				95% Percentile of Chisquare (2k)	6.051					95% Hawkins Wixley (HW) Approx. Gamma UPL	5.684
88										95% WH Approx. Gamma UTL with 99% Coverage	8.224
89				90% Percentile	4.549					95% HW Approx. Gamma UTL with 99% Coverage	10.41
90				95% Percentile	5.909						
91				99% Percentile	9.063						
92											
93	**Note: DL/2 is not a recommended method.**										
94											
95											
96	**Barium**										
97											
98						**General Statistics**						
99				Total Number of Observations	104					Number of Distinct Observations	95
100				Tolerance Factor	2.672					Number of Missing Values	2
101											
102				**Raw Statistics**						**Log-Transformed Statistics**	
103				Minimum	17.7					Minimum	2.874
104				Maximum	267					Maximum	5.587
105				Second Largest	203					Second Largest	5.313
106				First Quartile	41.25					First Quartile	3.72

107					Median	56					Median	4.025
108					Third Quartile	74.85					Third Quartile	4.315
109					Mean	61.58					Mean	4.005
110					SD	34.25					SD	0.475
111					Coefficient of Variation	0.556						
112					Skewness	2.953						
113												
114	**Background Statistics**											
115	**Normal Distribution Test**						**Lognormal Distribution Test**					
116					Lilliefors Test Statistic	0.15					Lilliefors Test Statistic	0.0764
117					Lilliefors Critical Value	0.0869					Lilliefors Critical Value	0.0869
118	**Data not Normal at 5% Significance Level**						**Data appear Lognormal at 5% Significance Level**					
119												
120	**Assuming Normal Distribution**						**Assuming Lognormal Distribution**					
121					95% UTL with 99% Coverage	153.1					95% UTL with 99% Coverage	195.4
122					95% UPL (t)	118.7					95% UPL (t)	121.2
123					90% Percentile (z)	105.5					90% Percentile (z)	100.9
124					95% Percentile (z)	117.9					95% Percentile (z)	119.9
125					99% Percentile (z)	141.3					99% Percentile (z)	165.8
126												
127	**Gamma Distribution Test**						**Data Distribution Test**					
128					k star	4.356	**Data appear Lognormal at 5% Significance Level**					
129					Theta Star	14.14						
130					MLE of Mean	61.58						
131					MLE of Standard Deviation	29.51						
132					nu star	906						
133												
134					A-D Test Statistic	0.826	**Nonparametric Statistics**					
135					5% A-D Critical Value	0.755					90% Percentile	87.05
136					K-S Test Statistic	0.091					95% Percentile	106.7
137					5% K-S Critical Value	0.0887					99% Percentile	201.6
138	**Data not Gamma Distributed at 5% Significance Level**											
139												
140	**Assuming Gamma Distribution**										95% UTL with 99% Coverage	267
141					90% Percentile	101.1					95% Percentile Bootstrap UTL with 99% Coverage	267
142					95% Percentile	116.7					95% BCA Bootstrap UTL with 99% Coverage	267
143					99% Percentile	150					95% UPL	109.5
144											95% Chebyshev UPL	211.6
145					95% WH Approx. Gamma UPL	116.6					Upper Threshold Limit Based upon IQR	125.3
146					95% HW Approx. Gamma UPL	117.3						
147					95% WH Approx. Gamma UTL with 99% Coverage	167.4						
148					95% HW Approx. Gamma UTL with 99% Coverage	172.2						
149												
150												
151												
152	**Beryllium**											
153												
154	**General Statistics**											
155					Number of Valid Data	106					Number of Detected Data	88
156					Number of Distinct Detected Data	38					Number of Non-Detect Data	18
157					Tolerance Factor	2.669					Percent Non-Detects	16.98%
158												
159	**Raw Statistics**						**Log-transformed Statistics**					

160				Minimum Detected	0.182					Minimum Detected	-1.704	
161				Maximum Detected	0.8					Maximum Detected	-0.223	
162				Mean of Detected	0.276					Mean of Detected	-1.353	
163				SD of Detected	0.119					SD of Detected	0.333	
164				Minimum Non-Detect	0.0894					Minimum Non-Detect	-2.415	
165				Maximum Non-Detect	0.1					Maximum Non-Detect	-2.303	
166												
167	**Data with Multiple Detection Limits**						**Single Detection Limit Scenario**					
168	Note: Data have multiple DLs - Use of KM Method is recommended						Number treated as Non-Detect with Single DL				18	
169	For all methods (except KM, DL/2, and ROS Methods),						Number treated as Detected with Single DL				88	
170	Observations < Largest ND are treated as NDs						Single DL Non-Detect Percentage				16.98%	
171												
172	**Background Statistics**											
173	**Normal Distribution Test with Detected Values Only**						**Lognormal Distribution Test with Detected Values Only**					
174				Lilliefors Test Statistic	0.237					Lilliefors Test Statistic	0.19	
175				5% Lilliefors Critical Value	0.0944					5% Lilliefors Critical Value	0.0944	
176	**Data not Normal at 5% Significance Level**						**Data not Lognormal at 5% Significance Level**					
177												
178	**Assuming Normal Distribution**						**Assuming Lognormal Distribution**					
179				DL/2 Substitution Method						DL/2 Substitution Method		
180				Mean	0.237					Mean (Log Scale)	-1.633	
181				SD	0.138					SD (Log Scale)	0.692	
182				95% UTL 99% Coverage	0.605					95% UTL 99% Coverage	1.238	
183				95% UPL (t)	0.467					95% UPL (t)	0.619	
184				90% Percentile (z)	0.414					90% Percentile (z)	0.474	
185				95% Percentile (z)	0.464					95% Percentile (z)	0.609	
186				99% Percentile (z)	0.558					99% Percentile (z)	0.977	
187												
188				Maximum Likelihood Estimate(MLE) Method						Log ROS Method		
189				Mean	0.232					Mean in Original Scale	0.25	
190				SD	0.147					SD in Original Scale	0.122	
191				95% UTL with 99% Coverage	0.624					95% UTL with 99% Coverage	0.687	
192										95% BCA UTL with 99% Coverage	0.795	
193										95% Bootstrap (%) UTL with 99% Coverage	0.8	
194				95% UPL (t)	0.477					95% UPL (t)	0.455	
195				90% Percentile (z)	0.42					90% Percentile (z)	0.388	
196				95% Percentile (z)	0.474					95% Percentile (z)	0.451	
197				99% Percentile (z)	0.574					99% Percentile (z)	0.597	
198												
199	**Gamma Distribution Test with Detected Values Only**						**Data Distribution Test with Detected Values Only**					
200				k star (bias corrected)	7.677		Data do not follow a Discernable Distribution (0.05)					
201				Theta Star	0.0359							
202				nu star	1351							
203												
204				A-D Test Statistic	6.767		**Nonparametric Statistics**					
205				5% A-D Critical Value	0.753					Kaplan-Meier (KM) Method		
206				K-S Test Statistic	0.201					Mean	0.26	
207				5% K-S Critical Value	0.0954					SD	0.113	
208	**Data not Gamma Distributed at 5% Significance Level**									SE of Mean	0.0111	
209										95% KM UTL with 99% Coverage	0.562	
210	**Assuming Gamma Distribution**									95% KM Chebyshev UPL	0.756	
211				Gamma ROS Statistics with Extrapolated Data						95% KM UPL (t)	0.449	
212				Mean	0.232					90% Percentile (z)	0.405	

213					Median	0.206					95% Percentile (z)	0.446
214					SD	0.145					99% Percentile (z)	0.523
215					k star	0.512						
216					Theta star	0.453	**Gamma ROS Limits with Extrapolated Data**					
217					Nu star	108.6					95% Wilson Hilferty (WH) Approx. Gamma UPL	0.742
218					95% Percentile of Chisquare (2k)	3.903					95% Hawkins Wixley (HW) Approx. Gamma UPL	0.961
219											95% WH Approx. Gamma UTL with 99% Coverage	1.379
220					90% Percentile	0.625					95% HW Approx. Gamma UTL with 99% Coverage	2.113
221					95% Percentile	0.884						
222					99% Percentile	1.52						
223												
224	**Note: DL/2 is not a recommended method.**											
225												
226												
227	**Cadmium**											
228												
229					**General Statistics**							
230					Number of Valid Data	106					Number of Detected Data	49
231					Number of Distinct Detected Data	24					Number of Non-Detect Data	57
232					Tolerance Factor	2.669					Percent Non-Detects	53.77%
233												
234					**Raw Statistics**		**Log-transformed Statistics**					
235					Minimum Detected	0.105					Minimum Detected	-2.254
236					Maximum Detected	3.81					Maximum Detected	1.338
237					Mean of Detected	0.551					Mean of Detected	-0.917
238					SD of Detected	0.599					SD of Detected	0.749
239					Minimum Non-Detect	0.0883					Minimum Non-Detect	-2.427
240					Maximum Non-Detect	0.1					Maximum Non-Detect	-2.303
241												
242					**Data with Multiple Detection Limits**		**Single Detection Limit Scenario**					
243	Note: Data have multiple DLs - Use of KM Method is recommended										Number treated as Non-Detect with Single DL	57
244	For all methods (except KM, DL/2, and ROS Methods),										Number treated as Detected with Single DL	49
245	Observations < Largest ND are treated as NDs										Single DL Non-Detect Percentage	53.77%
246												
247					**Background Statistics**							
248					**Normal Distribution Test with Detected Values Only**		**Lognormal Distribution Test with Detected Values Only**					
249					Shapiro Wilk Test Statistic	0.623					Shapiro Wilk Test Statistic	0.962
250					5% Shapiro Wilk Critical Value	0.947					5% Shapiro Wilk Critical Value	0.947
251					**Data not Normal at 5% Significance Level**		**Data appear Lognormal at 5% Significance Level**					
252												
253					**Assuming Normal Distribution**		**Assuming Lognormal Distribution**					
254					DL/2 Substitution Method						DL/2 Substitution Method	
255					Mean	0.28					Mean (Log Scale)	-2.056
256					SD	0.477					SD (Log Scale)	1.177
257					95% UTL 99% Coverage	1.554					95% UTL 99% Coverage	2.958
258					95% UPL (t)	1.076					95% UPL (t)	0.91
259					90% Percentile (z)	0.892					90% Percentile (z)	0.578
260					95% Percentile (z)	1.065					95% Percentile (z)	0.887
261					99% Percentile (z)	1.39					99% Percentile (z)	1.977
262												
263					Maximum Likelihood Estimate(MLE) Method						Log ROS Method	
264					Mean	-0.0672					Mean in Original Scale	0.288
265					SD	0.794					SD in Original Scale	0.474

266				95% UTL with 99% Coverage	2.052					95% UTL with 99% Coverage		4.055
267										95% BCA UTL with 99% Coverage		3.81
268										95% Bootstrap (%) UTL with 99% Coverage		3.81
269				95% UPL (t)	1.257					95% UPL (t)		1.114
270				90% Percentile (z)	0.95					90% Percentile (z)		0.677
271				95% Percentile (z)	1.239					95% Percentile (z)		1.082
272				99% Percentile (z)	1.78					99% Percentile (z)		2.607
273												
274				**Gamma Distribution Test with Detected Values Only**						**Data Distribution Test with Detected Values Only**		
275				k star (bias corrected)	1.62					Data appear Lognormal at 5% Significance Level		
276				Theta Star	0.34							
277				nu star	158.7							
278												
279				A-D Test Statistic	1.429					**Nonparametric Statistics**		
280				5% A-D Critical Value	0.765					Kaplan-Meier (KM) Method		
281				K-S Test Statistic	0.165					Mean		0.311
282				5% K-S Critical Value	0.129					SD		0.461
283				**Data not Gamma Distributed at 5% Significance Level**						SE of Mean		0.0452
284										95% KM UTL with 99% Coverage		1.54
285				**Assuming Gamma Distribution**						95% KM Chebyshev UPL		2.328
286				Gamma ROS Statistics with Extrapolated Data						95% KM UPL (t)		1.079
287				Mean	0.254					90% Percentile (z)		0.901
288				Median	0.000001					95% Percentile (z)		1.068
289				SD	0.49					99% Percentile (z)		1.382
290				k star	0.125							
291				Theta star	2.038					**Gamma ROS Limits with Extrapolated Data**		
292				Nu star	26.47					95% Wilson Hilferty (WH) Approx. Gamma UPL		1.083
293				95% Percentile of Chisquare (2k)	1.417					95% Hawkins Wixley (HW) Approx. Gamma UPL		1.292
294										95% WH Approx. Gamma UTL with 99% Coverage		2.919
295				90% Percentile	0.729					95% HW Approx. Gamma UTL with 99% Coverage		4.69
296				95% Percentile	1.445							
297				99% Percentile	3.609							
298												
299	**Note: DL/2 is not a recommended method.**											
300												
301												
302	**Chromium**											
303												
304				**General Statistics**								
305				Total Number of Observations	106					Number of Distinct Observations		86
306				Tolerance Factor	2.669							
307												
308				**Raw Statistics**						**Log-Transformed Statistics**		
309				Minimum	4.4					Minimum		1.482
310				Maximum	38.6					Maximum		3.653
311				Second Largest	36.5					Second Largest		3.597
312				First Quartile	8.013					First Quartile		2.081
313				Median	10.25					Median		2.327
314				Third Quartile	13.08					Third Quartile		2.571
315				Mean	11.58					Mean		2.352
316				SD	5.884					SD		0.424
317				Coefficient of Variation	0.508							
318				Skewness	2.235							

319												
320	**Background Statistics**											
321	**Normal Distribution Test**						**Lognormal Distribution Test**					
322					Lilliefors Test Statistic	0.165					Lilliefors Test Statistic	0.0696
323					Lilliefors Critical Value	0.0861					Lilliefors Critical Value	0.0861
324	**Data not Normal at 5% Significance Level**						**Data appear Lognormal at 5% Significance Level**					
325												
326	**Assuming Normal Distribution**						**Assuming Lognormal Distribution**					
327				95% UTL with	99% Coverage	27.28				95% UTL with	99% Coverage	32.54
328					95% UPL (t)	21.39					95% UPL (t)	21.29
329					90% Percentile (z)	19.12					90% Percentile (z)	18.08
330					95% Percentile (z)	21.25					95% Percentile (z)	21.09
331					99% Percentile (z)	25.26					99% Percentile (z)	28.14
332												
333	**Gamma Distribution Test**						**Data Distribution Test**					
334					k star	5.177	**Data appear Lognormal at 5% Significance Level**					
335					Theta Star	2.236						
336					MLE of Mean	11.58						
337					MLE of Standard Deviation	5.088						
338					nu star	1098						
339												
340					A-D Test Statistic	1.551	**Nonparametric Statistics**					
341					5% A-D Critical Value	0.754					90% Percentile	17.5
342					K-S Test Statistic	0.103					95% Percentile	21.5
343					5% K-S Critical Value	0.088					99% Percentile	36.14
344	**Data not Gamma Distributed at 5% Significance Level**											
345												
346	**Assuming Gamma Distribution**									95% UTL with	99% Coverage	38.6
347					90% Percentile	18.39				95% Percentile Bootstrap UTL with	99% Coverage	38.6
348					95% Percentile	21.01				95% BCA Bootstrap UTL with	99% Coverage	38.6
349					99% Percentile	26.55					95% UPL	21.6
350											95% Chebyshev UPL	37.34
351					95% WH Approx. Gamma UPL	21.01					Upper Threshold Limit Based upon IQR	20.67
352					95% HW Approx. Gamma UPL	21.04						
353				95% WH Approx. Gamma UTL with	99% Coverage	29.43						
354				95% HW Approx. Gamma UTL with	99% Coverage	30.01						
355												
356												
357												
358	**Cobalt**											
359												
360	**General Statistics**											
361					Number of Valid Data	106					Number of Detected Data	102
362					Number of Distinct Detected Data	74					Number of Non-Detect Data	4
363					Tolerance Factor	2.669					Percent Non-Detects	3.77%
364												
365	**Raw Statistics**						**Log-transformed Statistics**					
366					Minimum Detected	2.5					Minimum Detected	0.916
367					Maximum Detected	15.7					Maximum Detected	2.754
368					Mean of Detected	5.215					Mean of Detected	1.585
369					SD of Detected	2.16					SD of Detected	0.353
370					Minimum Non-Detect	2.5					Minimum Non-Detect	0.916
371					Maximum Non-Detect	2.5					Maximum Non-Detect	0.916

372												
373												
374	**Background Statistics**											
375	**Normal Distribution Test with Detected Values Only**						**Lognormal Distribution Test with Detected Values Only**					
376					Lilliefors Test Statistic	0.17					Lilliefors Test Statistic	0.0953
377					5% Lilliefors Critical Value	0.0877					5% Lilliefors Critical Value	0.0877
378	**Data not Normal at 5% Significance Level**						**Data not Lognormal at 5% Significance Level**					
379												
380	**Assuming Normal Distribution**						**Assuming Lognormal Distribution**					
381					DL/2 Substitution Method						DL/2 Substitution Method	
382					Mean	5.066					Mean (Log Scale)	1.534
383					SD	2.25					SD (Log Scale)	0.434
384					95% UTL 99% Coverage	11.07					95% UTL 99% Coverage	14.75
385					95% UPL (t)	8.818					95% UPL (t)	9.552
386					90% Percentile (z)	7.95					90% Percentile (z)	8.081
387					95% Percentile (z)	8.767					95% Percentile (z)	9.46
388					99% Percentile (z)	10.3					99% Percentile (z)	12.71
389												
390					Maximum Likelihood Estimate(MLE) Method						Log ROS Method	
391					Mean	5.071					Mean in Original Scale	5.097
392					SD	2.239					SD in Original Scale	2.202
393					95% UTL with 99% Coverage	11.05					95% UTL with 99% Coverage	13.15
394											95% BCA UTL with 99% Coverage	15.7
395											95% Bootstrap (%) UTL with 99% Coverage	15.7
396					95% UPL (t)	8.803					95% UPL (t)	8.957
397					90% Percentile (z)	7.94					90% Percentile (z)	7.725
398					95% Percentile (z)	8.753					95% Percentile (z)	8.88
399					99% Percentile (z)	10.28					99% Percentile (z)	11.53
400												
401	**Gamma Distribution Test with Detected Values Only**						**Data Distribution Test with Detected Values Only**					
402					k star (bias corrected)	7.461	Data do not follow a Discernable Distribution (0.05)					
403					Theta Star	0.699						
404					nu star	1522						
405												
406					A-D Test Statistic	1.318	**Nonparametric Statistics**					
407					5% A-D Critical Value	0.753					Kaplan-Meier (KM) Method	
408					K-S Test Statistic	0.122					Mean	5.113
409					5% K-S Critical Value	0.089					SD	2.171
410	**Data not Gamma Distributed at 5% Significance Level**										SE of Mean	0.212
411											95% KM UTL with 99% Coverage	10.91
412	**Assuming Gamma Distribution**										95% KM Chebyshev UPL	14.62
413					Gamma ROS Statistics with Extrapolated Data						95% KM UPL (t)	8.732
414					Mean	5.021					90% Percentile (z)	7.895
415					Median	4.74					95% Percentile (z)	8.684
416					SD	2.337					99% Percentile (z)	10.16
417					k star	1.125						
418					Theta star	4.464	**Gamma ROS Limits with Extrapolated Data**					
419					Nu star	238.4					95% Wilson Hilferty (WH) Approx. Gamma UPL	11.5
420					95% Percentile of Chisquare (2k)	6.466					95% Hawkins Wixley (HW) Approx. Gamma UPL	13.64
421											95% WH Approx. Gamma UTL with 99% Coverage	18.02
422					90% Percentile	11.23					95% HW Approx. Gamma UTL with 99% Coverage	23.83
423					95% Percentile	14.43						
424					99% Percentile	21.81						

	A	B	C	D	E	F	G	H	I	J	K	L
425												
426	**Note: DL/2 is not a recommended method.**											
427												
428												
429	**Copper**											
430												
431	**General Statistics**											
432	Total Number of Observations					106	Number of Distinct Observations					89
433	Tolerance Factor					2.669						
434												
435	**Raw Statistics**						**Log-Transformed Statistics**					
436	Minimum					2.69	Minimum					0.99
437	Maximum					59	Maximum					4.078
438	Second Largest					44.1	Second Largest					3.786
439	First Quartile					6.818	First Quartile					1.919
440	Median					12.15	Median					2.497
441	Third Quartile					18.35	Third Quartile					2.91
442	Mean					13.94	Mean					2.426
443	SD					9.607	SD					0.653
444	Coefficient of Variation					0.689						
445	Skewness					1.735						
446												
447	**Background Statistics**											
448	**Normal Distribution Test**						**Lognormal Distribution Test**					
449	Lilliefors Test Statistic					0.132	Lilliefors Test Statistic					0.0712
450	Lilliefors Critical Value					0.0861	Lilliefors Critical Value					0.0861
451	**Data not Normal at 5% Significance Level**						**Data appear Lognormal at 5% Significance Level**					
452												
453	**Assuming Normal Distribution**						**Assuming Lognormal Distribution**					
454	95% UTL with 99% Coverage					39.58	95% UTL with 99% Coverage					64.62
455	95% UPL (t)					29.96	95% UPL (t)					33.6
456	90% Percentile (z)					26.25	90% Percentile (z)					26.12
457	95% Percentile (z)					29.74	95% Percentile (z)					33.11
458	99% Percentile (z)					36.29	99% Percentile (z)					51.67
459												
460	**Gamma Distribution Test**						**Data Distribution Test**					
461	k star					2.482	**Data Follow Appr. Gamma Distribution at 5% Significance Level**					
462	Theta Star					5.618						
463	MLE of Mean					13.94						
464	MLE of Standard Deviation					8.85						
465	nu star					526.1						
466												
467	A-D Test Statistic					0.689	**Nonparametric Statistics**					
468	5% A-D Critical Value					0.762	90% Percentile					25.8
469	K-S Test Statistic					0.0891	95% Percentile					31.78
470	5% K-S Critical Value					0.0888	99% Percentile					43.79
471	**Data follow Appx. Gamma Distribution at 5% Significance Level**											
472												
473	**Assuming Gamma Distribution**						95% UTL with 99% Coverage					59
474	90% Percentile					25.8	95% Percentile Bootstrap UTL with 99% Coverage					59
475	95% Percentile					30.94	95% BCA Bootstrap UTL with 99% Coverage					59
476	99% Percentile					42.2	95% UPL					34.32
477							95% Chebyshev UPL					56.02

478				95% WH Approx. Gamma UPL	30.94			Upper Threshold Limit Based upon IQR				35.65
479				95% HW Approx. Gamma UPL	31.39							
480			95% WH Approx. Gamma UTL with	99% Coverage	48.4							
481			95% HW Approx. Gamma UTL with	99% Coverage	51.01							
482												
483												
484												
485	**Lead**											
486												
487					**General Statistics**							
488				Number of Valid Data	106			Number of Detected Data	100			
489				Number of Distinct Detected Data	82			Number of Non-Detect Data	6			
490				Tolerance Factor	2.669			Percent Non-Detects	5.66%			
491												
492				**Raw Statistics**				**Log-transformed Statistics**				
493				Minimum Detected	2.3			Minimum Detected	0.833			
494				Maximum Detected	112			Maximum Detected	4.718			
495				Mean of Detected	13.7			Mean of Detected	2.071			
496				SD of Detected	18.57			SD of Detected	0.94			
497				Minimum Non-Detect	2.5			Minimum Non-Detect	0.916			
498				Maximum Non-Detect	2.5			Maximum Non-Detect	0.916			
499												
500												
501					**Background Statistics**							
502				**Normal Distribution Test with Detected Values Only**				**Lognormal Distribution Test with Detected Values Only**				
503				Lilliefors Test Statistic	0.299			Lilliefors Test Statistic	0.161			
504				5% Lilliefors Critical Value	0.0886			5% Lilliefors Critical Value	0.0886			
505				**Data not Normal at 5% Significance Level**				**Data not Lognormal at 5% Significance Level**				
506												
507				**Assuming Normal Distribution**				**Assuming Lognormal Distribution**				
508				DL/2 Substitution Method				DL/2 Substitution Method				
509				Mean	13			Mean (Log Scale)	1.966			
510				SD	18.26			SD (Log Scale)	1.008			
511				95% UTL	99% Coverage	61.73		95% UTL	99% Coverage	105.4		
512				95% UPL (t)	43.44			95% UPL (t)	38.39			
513				90% Percentile (z)	36.4			90% Percentile (z)	26.02			
514				95% Percentile (z)	43.03			95% Percentile (z)	37.54			
515				99% Percentile (z)	55.47			99% Percentile (z)	74.63			
516												
517				Maximum Likelihood Estimate(MLE) Method				Log ROS Method				
518				Mean	12.27			Mean in Original Scale	12.99			
519				SD	19			SD in Original Scale	18.27			
520				95% UTL with	99% Coverage	62.97		95% UTL with	99% Coverage	111.1		
521								95% BCA UTL with	99% Coverage	112		
522								95% Bootstrap (%) UTL with	99% Coverage	112		
523				95% UPL (t)	43.95			95% UPL (t)	39.49			
524				90% Percentile (z)	36.62			90% Percentile (z)	26.51			
525				95% Percentile (z)	43.52			95% Percentile (z)	38.58			
526				99% Percentile (z)	56.47			99% Percentile (z)	77.98			
527												
528				**Gamma Distribution Test with Detected Values Only**				**Data Distribution Test with Detected Values Only**				
529				k star (bias corrected)	1.025			Data do not follow a Discernable Distribution (0.05)				
530				Theta Star	13.36							

531					nu star	205.1						
532												
533					A-D Test Statistic	7.995	**Nonparametric Statistics**					
534					5% A-D Critical Value	0.782					Kaplan-Meier (KM) Method	
535					K-S Test Statistic	0.227					Mean	13.06
536					5% K-S Critical Value	0.092					SD	18.14
537	**Data not Gamma Distributed at 5% Significance Level**										SE of Mean	1.77
538											95% KM UTL with 99% Coverage	61.46
539	**Assuming Gamma Distribution**										95% KM Chebyshev UPL	92.48
540					Gamma ROS Statistics with Extrapolated Data						95% KM UPL (t)	43.29
541					Mean	12.93					90% Percentile (z)	36.3
542					Median	5.7					95% Percentile (z)	42.89
543					SD	18.31					99% Percentile (z)	55.25
544					k star	0.456						
545					Theta star	28.32	**Gamma ROS Limits with Extrapolated Data**					
546					Nu star	96.77					95% Wilson Hilferty (WH) Approx. Gamma UPL	41.9
547					95% Percentile of Chisquare (2k)	3.622					95% Hawkins Wixley (HW) Approx. Gamma UPL	47.27
548											95% WH Approx. Gamma UTL with 99% Coverage	83.28
549					90% Percentile	35.62					95% HW Approx. Gamma UTL with 99% Coverage	107
550					95% Percentile	51.29						
551					99% Percentile	90.15						
552												
553	**Note: DL/2 is not a recommended method.**											
554												
555												
556	**Mercury**											
557												
558	**General Statistics**											
559					Number of Valid Data	106					Number of Detected Data	30
560					Number of Distinct Detected Data	28					Number of Non-Detect Data	76
561					Tolerance Factor	2.669					Percent Non-Detects	71.70%
562												
563	**Raw Statistics**						**Log-transformed Statistics**					
564					Minimum Detected	0.0175					Minimum Detected	-4.046
565					Maximum Detected	0.324					Maximum Detected	-1.127
566					Mean of Detected	0.0493					Mean of Detected	-3.342
567					SD of Detected	0.0599					SD of Detected	0.71
568					Minimum Non-Detect	0.0039					Minimum Non-Detect	-5.547
569					Maximum Non-Detect	0.1					Maximum Non-Detect	-2.303
570												
571	**Data with Multiple Detection Limits**						**Single Detection Limit Scenario**					
572	Note: Data have multiple DLs - Use of KM Method is recommended										Number treated as Non-Detect with Single DL	103
573	For all methods (except KM, DL/2, and ROS Methods),										Number treated as Detected with Single DL	3
574	Observations < Largest ND are treated as NDs										Single DL Non-Detect Percentage	97.17%
575												
576	**Background Statistics**											
577	**Normal Distribution Test with Detected Values Only**						**Lognormal Distribution Test with Detected Values Only**					
578					Shapiro Wilk Test Statistic	0.54					Shapiro Wilk Test Statistic	0.84
579					5% Shapiro Wilk Critical Value	0.927					5% Shapiro Wilk Critical Value	0.927
580	**Data not Normal at 5% Significance Level**						**Data not Lognormal at 5% Significance Level**					
581												
582	**Assuming Normal Distribution**						**Assuming Lognormal Distribution**					
583					DL/2 Substitution Method						DL/2 Substitution Method	

584				Mean	0.0475					Mean (Log Scale)	-3.247	
585				SD	0.0331					SD (Log Scale)	0.782	
586			95% UTL	99% Coverage	0.136				95% UTL	99% Coverage	0.313	
587				95% UPL (t)	0.103					95% UPL (t)	0.143	
588				90% Percentile (z)	0.0899					90% Percentile (z)	0.106	
589				95% Percentile (z)	0.102					95% Percentile (z)	0.141	
590				99% Percentile (z)	0.124					99% Percentile (z)	0.24	
591												
592			Maximum Likelihood Estimate(MLE) Method							Log ROS Method		
593				Mean	-0.368					Mean in Original Scale	0.0351	
594				SD	0.245					SD in Original Scale	0.0371	
595			95% UTL with	99% Coverage	0.286				95% UTL with	99% Coverage	0.187	
596									95% BCA UTL with	99% Coverage	0.324	
597									95% Bootstrap (%) UTL with	99% Coverage	0.324	
598				95% UPL (t)	0.0409					95% UPL (t)	0.0893	
599				90% Percentile (z)	-0.0537					90% Percentile (z)	0.0672	
600				95% Percentile (z)	0.0354					95% Percentile (z)	0.0878	
601				99% Percentile (z)	0.202					99% Percentile (z)	0.145	
602												
603	**Gamma Distribution Test with Detected Values Only**								**Data Distribution Test with Detected Values Only**			
604				k star (bias corrected)	1.511				Data do not follow a Discernable Distribution (0.05)			
605				Theta Star	0.0326							
606				nu star	90.69							
607												
608				A-D Test Statistic	2.521				**Nonparametric Statistics**			
609				5% A-D Critical Value	0.762					Kaplan-Meier (KM) Method		
610				K-S Test Statistic	0.25					Mean	0.0355	
611				5% K-S Critical Value	0.163					SD	0.0359	
612	**Data not Gamma Distributed at 5% Significance Level**									SE of Mean	0.00443	
613										95% KM UTL with	99% Coverage	0.131
614	**Assuming Gamma Distribution**									95% KM Chebyshev UPL		0.193
615			Gamma ROS Statistics with Extrapolated Data							95% KM UPL (t)		0.0953
616				Mean	0.0393					90% Percentile (z)		0.0815
617				Median	0.0284					95% Percentile (z)		0.0945
618				SD	0.0429					99% Percentile (z)		0.119
619				k star	0.283							
620				Theta star	0.139				**Gamma ROS Limits with Extrapolated Data**			
621				Nu star	59.92				95% Wilson Hilferty (WH) Approx. Gamma UPL			0.16
622				95% Percentile of Chisquare (2k)	2.635				95% Hawkins Wixley (HW) Approx. Gamma UPL			0.21
623									95% WH Approx. Gamma UTL with	99% Coverage		0.354
624				90% Percentile	0.117				95% HW Approx. Gamma UTL with	99% Coverage		0.575
625				95% Percentile	0.183							
626				99% Percentile	0.357							
627												
628	**Note: DL/2 is not a recommended method.**											
629												
630												
631	**Molybdenum**											
632												
633	**General Statistics**											
634				Number of Valid Data	106					Number of Detected Data	16	
635				Number of Distinct Detected Data	16					Number of Non-Detect Data	90	
636				Tolerance Factor	2.669					Percent Non-Detects	84.91%	

637												
638	**Raw Statistics**						**Log-transformed Statistics**					
639					Minimum Detected	0.0978					Minimum Detected	-2.325
640					Maximum Detected	0.625					Maximum Detected	-0.47
641					Mean of Detected	0.191					Mean of Detected	-1.8
642					SD of Detected	0.136					SD of Detected	0.492
643					Minimum Non-Detect	0.0777					Minimum Non-Detect	-2.555
644					Maximum Non-Detect	2.5					Maximum Non-Detect	0.916
645												
646	**Data with Multiple Detection Limits**						**Single Detection Limit Scenario**					
647	Note: Data have multiple DLs - Use of KM Method is recommended										Number treated as Non-Detect with Single DL	106
648	For all methods (except KM, DL/2, and ROS Methods),										Number treated as Detected with Single DL	0
649	Observations < Largest ND are treated as NDs										Single DL Non-Detect Percentage	100.00%
650												
651	**Background Statistics**											
652	**Normal Distribution Test with Detected Values Only**						**Lognormal Distribution Test with Detected Values Only**					
653					Shapiro Wilk Test Statistic	0.629					Shapiro Wilk Test Statistic	0.816
654					5% Shapiro Wilk Critical Value	0.887					5% Shapiro Wilk Critical Value	0.887
655	**Data not Normal at 5% Significance Level**						**Data not Lognormal at 5% Significance Level**					
656												
657	**Assuming Normal Distribution**						**Assuming Lognormal Distribution**					
658					DL/2 Substitution Method						DL/2 Substitution Method	
659					Mean	0.873					Mean (Log Scale)	-0.704
660					SD	0.544					SD (Log Scale)	1.404
661					95% UTL 99% Coverage	2.324					95% UTL 99% Coverage	20.94
662					95% UPL (t)	1.779					95% UPL (t)	5.134
663					90% Percentile (z)	1.57					90% Percentile (z)	2.987
664					95% Percentile (z)	1.767					95% Percentile (z)	4.974
665					99% Percentile (z)	2.138					99% Percentile (z)	12.95
666												
667					Maximum Likelihood Estimate(MLE) Method	N/A					Log ROS Method	
668											Mean in Original Scale	0.111
669											SD in Original Scale	0.109
670											Mean in Log Scale	-2.564
671											SD in Log Scale	0.867
672											95% UTL 99% Coverage	0.778
673											95% UPL (t)	0.327
674											90% Percentile (z)	0.234
675											95% Percentile (z)	0.32
676											99% Percentile (z)	0.578
677												
678	**Gamma Distribution Test with Detected Values Only**						**Data Distribution Test with Detected Values Only**					
679					k star (bias corrected)	2.987	Data do not follow a Discernable Distribution (0.05)					
680					Theta Star	0.0639						
681					nu star	95.57						
682												
683					A-D Test Statistic	1.555	**Nonparametric Statistics**					
684					5% A-D Critical Value	0.743					Kaplan-Meier (KM) Method	
685					K-S Test Statistic	0.264					Mean	0.14
686					5% K-S Critical Value	0.216					SD	0.101
687	**Data not Gamma Distributed at 5% Significance Level**										SE of Mean	0.0176
688											95% KM UTL with 99% Coverage	0.409
689	**Assuming Gamma Distribution**										95% KM Chebyshev UPL	0.581

690				Gamma ROS Statistics with Extrapolated Data							95% KM UPL (t)	0.308
691					Mean	0.0863					90% Percentile (z)	0.269
692					Median	0.000001					95% Percentile (z)	0.306
693					SD	0.121					99% Percentile (z)	0.374
694					k star	0.136						
695					Theta star	0.635				**Gamma ROS Limits with Extrapolated Data**		
696					Nu star	28.79				95% Wilson Hilferty (WH) Approx. Gamma UPL		0.384
697				95% Percentile of Chisquare (2k)		1.522				95% Hawkins Wixley (HW) Approx. Gamma UPL		0.465
698										95% WH Approx. Gamma UTL with 99% Coverage		1.026
699					90% Percentile	0.252				95% HW Approx. Gamma UTL with 99% Coverage		1.667
700					95% Percentile	0.483						
701					99% Percentile	1.17						
702												
703	**Note: DL/2 is not a recommended method.**											
704												
705												
706	**Nickel**											
707												
708						**General Statistics**						
709					Number of Valid Data	106				Number of Detected Data		95
710					Number of Distinct Detected Data	84				Number of Non-Detect Data		11
711					Tolerance Factor	2.669				Percent Non-Detects		10.38%
712												
713				**Raw Statistics**						**Log-transformed Statistics**		
714					Minimum Detected	3				Minimum Detected		1.099
715					Maximum Detected	27.2				Maximum Detected		3.303
716					Mean of Detected	8.186				Mean of Detected		1.976
717					SD of Detected	4.689				SD of Detected		0.484
718					Minimum Non-Detect	2.5				Minimum Non-Detect		0.916
719					Maximum Non-Detect	2.5				Maximum Non-Detect		0.916
720												
721												
722						**Background Statistics**						
723				**Normal Distribution Test with Detected Values Only**						**Lognormal Distribution Test with Detected Values Only**		
724					Lilliefors Test Statistic	0.194				Lilliefors Test Statistic		0.105
725					5% Lilliefors Critical Value	0.0909				5% Lilliefors Critical Value		0.0909
726				**Data not Normal at 5% Significance Level**						**Data not Lognormal at 5% Significance Level**		
727												
728				**Assuming Normal Distribution**						**Assuming Lognormal Distribution**		
729					DL/2 Substitution Method					DL/2 Substitution Method		
730					Mean	7.466				Mean (Log Scale)		1.794
731					SD	4.919				SD (Log Scale)		0.706
732					95% UTL 99% Coverage	20.6				95% UTL 99% Coverage		39.54
733					95% UPL (t)	15.67				95% UPL (t)		19.5
734					90% Percentile (z)	13.77				90% Percentile (z)		14.86
735					95% Percentile (z)	15.56				95% Percentile (z)		19.2
736					99% Percentile (z)	18.91				99% Percentile (z)		31.05
737												
738					Maximum Likelihood Estimate(MLE) Method					Log ROS Method		
739					Mean	7.306				Mean in Original Scale		7.586
740					SD	5.173				SD in Original Scale		4.779
741					95% UTL with 99% Coverage	21.11				95% UTL with 99% Coverage		29.75
742										95% BCA UTL with 99% Coverage		27.2

743							95% Bootstrap (%) UTL with	99% Coverage			27.2	
744					95% UPL (t)	15.93				95% UPL (t)	16.74	
745					90% Percentile (z)	13.94				90% Percentile (z)	13.41	
746					95% Percentile (z)	15.81				95% Percentile (z)	16.52	
747					99% Percentile (z)	19.34				99% Percentile (z)	24.44	
748												
749	**Gamma Distribution Test with Detected Values Only**						**Data Distribution Test with Detected Values Only**					
750					k star (bias corrected)	3.991	Data do not follow a Discernable Distribution (0.05)					
751					Theta Star	2.051						
752					nu star	758.3						
753												
754					A-D Test Statistic	2.313	**Nonparametric Statistics**					
755					5% A-D Critical Value	0.756				Kaplan-Meier (KM) Method		
756					K-S Test Statistic	0.135				Mean	7.648	
757					5% K-S Critical Value	0.0921				SD	4.69	
758	**Data not Gamma Distributed at 5% Significance Level**									SE of Mean	0.458	
759										95% KM UTL with	99% Coverage	20.17
760	**Assuming Gamma Distribution**									95% KM Chebyshev UPL		28.19
761					Gamma ROS Statistics with Extrapolated Data					95% KM UPL (t)		15.47
762					Mean	7.336				90% Percentile (z)		13.66
763					Median	6.145				95% Percentile (z)		15.36
764					SD	5.097				99% Percentile (z)		18.56
765					k star	0.393						
766					Theta star	18.68	**Gamma ROS Limits with Extrapolated Data**					
767					Nu star	83.28				95% Wilson Hilferty (WH) Approx. Gamma UPL		23.91
768					95% Percentile of Chisquare (2k)	3.285				95% Hawkins Wixley (HW) Approx. Gamma UPL		31.7
769										95% WH Approx. Gamma UTL with	99% Coverage	45
770					90% Percentile	20.79				95% HW Approx. Gamma UTL with	99% Coverage	71.44
771					95% Percentile	30.67						
772					99% Percentile	55.58						
773												
774	**Note: DL/2 is not a recommended method.**											
775												
776												
777	**Selenium**											
778												
779	**General Statistics**											
780					Number of Valid Data	106				Number of Detected Data		1
781					Number of Distinct Detected Data	1				Number of Non-Detect Data		105
782												
783	**Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!**											
784	**It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).**											
785												
786	**The data set for variable Selenium was not processed!**											
787												
788												
789												
790	**Silver**											
791												
792	**General Statistics**											
793					Number of Valid Data	106				Number of Detected Data		9
794					Number of Distinct Detected Data	8				Number of Non-Detect Data		97
795					Tolerance Factor	2.669				Percent Non-Detects		91.51%

Raw Statistics		
Minimum Detected	0.132	
Maximum Detected	1.29	
Mean of Detected	0.582	
SD of Detected	0.469	
Minimum Non-Detect	0.117	
Maximum Non-Detect	2.5	
Log-transformed Statistics		
Minimum Detected	-2.025	
Maximum Detected	0.255	
Mean of Detected	-0.88	
SD of Detected	0.898	
Minimum Non-Detect	-2.146	
Maximum Non-Detect	0.916	
Data with Multiple Detection Limits		
Note: Data have multiple DLs - Use of KM Method is recommended		
For all methods (except KM, DL/2, and ROS Methods),		
Observations < Largest ND are treated as NDs		
Single Detection Limit Scenario		
Number treated as Non-Detect with Single DL	106	
Number treated as Detected with Single DL	0	
Single DL Non-Detect Percentage	100.00%	

Warning: There are only 9 Detected Values in this data

Note: It should be noted that even though bootstrap may be performed on this data set

the resulting calculations may not be reliable enough to draw conclusions

It is recommended to have 10-15 or more distinct observations for accurate and meaningful results.

Background Statistics

Normal Distribution Test with Detected Values Only		
Shapiro Wilk Test Statistic	0.832	
5% Shapiro Wilk Critical Value	0.829	
Data appear Normal at 5% Significance Level		
Assuming Normal Distribution		
DL/2 Substitution Method		
Mean	0.901	
SD	0.533	
95% UTL 99% Coverage	2.322	
95% UPL (t)	1.789	
90% Percentile (z)	1.584	
95% Percentile (z)	1.777	
99% Percentile (z)	2.14	
Maximum Likelihood Estimate(MLE) Method	N/A	
Gamma Distribution Test with Detected Values Only		
k star (bias corrected)	1.159	
Theta Star	0.502	
nu star	20.86	
Lognormal Distribution Test with Detected Values Only		
Shapiro Wilk Test Statistic	0.878	
5% Shapiro Wilk Critical Value	0.829	
Data appear Lognormal at 5% Significance Level		
Assuming Lognormal Distribution		
DL/2 Substitution Method		
Mean (Log Scale)	-0.622	
SD (Log Scale)	1.329	
95% UTL 99% Coverage	18.65	
95% UPL (t)	4.927	
90% Percentile (z)	2.951	
95% Percentile (z)	4.782	
99% Percentile (z)	11.83	
Log ROS Method		
Mean in Original Scale	0.184	
SD in Original Scale	0.445	
Mean in Log Scale	-3.451	
SD in Log Scale	2.015	
95% UTL 99% Coverage	6.87	
95% UPL (t)	0.913	
90% Percentile (z)	0.42	
95% Percentile (z)	0.873	
99% Percentile (z)	3.445	
Data Distribution Test with Detected Values Only		
Data appear Normal at 5% Significance Level		

849				A-D Test Statistic	0.606		**Nonparametric Statistics**					
850				5% A-D Critical Value	0.733					Kaplan-Meier (KM) Method		
851				K-S Test Statistic	0.259					Mean		0.248
852				5% K-S Critical Value	0.284					SD		0.298
853				**Data appear Gamma Distributed at 5% Significance Level**						SE of Mean		0.0535
854									95% KM UTL with	99% Coverage		1.044
855				**Assuming Gamma Distribution**						95% KM Chebyshev UPL		1.554
856				Gamma ROS Statistics with Extrapolated Data						95% KM UPL (t)		0.745
857				Mean	0.147					90% Percentile (z)		0.63
858				Median	0.000001					95% Percentile (z)		0.738
859				SD	0.335					99% Percentile (z)		0.942
860				k star	0.0956							
861				Theta star	1.541		**Gamma ROS Limits with Extrapolated Data**					
862				Nu star	20.26					95% Wilson Hilferty (WH) Approx. Gamma UPL		0.481
863				95% Percentile of Chisquare (2k)	1.112					95% Hawkins Wixley (HW) Approx. Gamma UPL		0.432
864										95% WH Approx. Gamma UTL with	99% Coverage	1.475
865				90% Percentile	0.384					95% HW Approx. Gamma UTL with	99% Coverage	1.851
866				95% Percentile	0.857							
867				99% Percentile	2.393							
868												
869	**Note: DL/2 is not a recommended method.**											
870												
871												
872	**Thallium**											
873												
874					**General Statistics**							
875				Number of Valid Data	106		Number of Detected Data					0
876				Number of Distinct Detected Data	0		Number of Non-Detect Data					106
877												
878	**Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!**											
879	**Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!**											
880	**The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).**											
881												
882	**The data set for variable Thallium was not processed!**											
883												
884												
885												
886	**Vanadium**											
887												
888					**General Statistics**							
889				Total Number of Observations	106		Number of Distinct Observations					86
890				Tolerance Factor	2.669							
891												
892				**Raw Statistics**			**Log-Transformed Statistics**					
893				Minimum	6.2		Minimum					1.825
894				Maximum	47.1		Maximum					3.852
895				Second Largest	44		Second Largest					3.784
896				First Quartile	14.03		First Quartile					2.641
897				Median	16.65		Median					2.812
898				Third Quartile	22.58		Third Quartile					3.117
899				Mean	18.99		Mean					2.867
900				SD	7.863		SD					0.392
901				Coefficient of Variation	0.414							

Skewness	1.276	

Background Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.129	Lilliefors Test Statistic	0.0615
Lilliefors Critical Value	0.0861	Lilliefors Critical Value	0.0861
Data not Normal at 5% Significance Level		**Data appear Lognormal at 5% Significance Level**	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
95% UTL with 99% Coverage	39.97	95% UTL with 99% Coverage	50.07
95% UPL (t)	32.1	95% UPL (t)	33.81
90% Percentile (z)	29.07	90% Percentile (z)	29.06
95% Percentile (z)	31.92	95% Percentile (z)	33.51
99% Percentile (z)	37.28	99% Percentile (z)	43.78

Gamma Distribution Test		Data Distribution Test	
k star	6.467	**Data appear Gamma Distributed at 5% Significance Level**	
Theta Star	2.936		
MLE of Mean	18.99		
MLE of Standard Deviation	7.467		
nu star	1371		
A-D Test Statistic	0.684	**Nonparametric Statistics**	
5% A-D Critical Value	0.754	90% Percentile	28.95
K-S Test Statistic	0.086	95% Percentile	35.55
5% K-S Critical Value	0.088	99% Percentile	43.82
Data appear Gamma Distributed at 5% Significance Level			
Assuming Gamma Distribution		95% UTL with 99% Coverage	47.1
90% Percentile	28.96	95% Percentile Bootstrap UTL with 99% Coverage	47.1
95% Percentile	32.7	95% BCA Bootstrap UTL with 99% Coverage	47.1
99% Percentile	40.51	95% UPL	36.88
		95% Chebyshev UPL	53.42
95% WH Approx. Gamma UPL	32.76	Upper Threshold Limit Based upon IQR	35.4
95% HW Approx. Gamma UPL	32.96		
95% WH Approx. Gamma UTL with 99% Coverage	44.61		
95% HW Approx. Gamma UTL with 99% Coverage	45.66		

Zinc

General Statistics

Total Number of Observations	105	Number of Distinct Observations	98
Tolerance Factor	2.671	Number of Missing Values	1

Raw Statistics		Log-Transformed Statistics	
Minimum	9.7	Minimum	2.272
Maximum	291	Maximum	5.673
Second Largest	172	Second Largest	5.147
First Quartile	17.7	First Quartile	2.874
Median	29.8	Median	3.395
Third Quartile	46.4	Third Quartile	3.837

Mean	42.07	
SD	40.39	
Coefficient of Variation	0.96	
Skewness	3.14	

Mean	3.455		
SD	0.704		

Background Statistics

Normal Distribution Test

Lilliefors Test Statistic	0.224
Lilliefors Critical Value	0.0865

Data not Normal at 5% Significance Level

Lognormal Distribution Test

Lilliefors Test Statistic	0.1
Lilliefors Critical Value	0.0865

Data not Lognormal at 5% Significance Level

Assuming Normal Distribution

95% UTL with 99% Coverage	149.9
95% UPL (t)	109.4
90% Percentile (z)	93.83
95% Percentile (z)	108.5
99% Percentile (z)	136

Assuming Lognormal Distribution

95% UTL with 99% Coverage	207.6
95% UPL (t)	102.5
90% Percentile (z)	78.07
95% Percentile (z)	100.8
99% Percentile (z)	162.9

Gamma Distribution Test

k star	1.862
Theta Star	22.6
MLE of Mean	42.07
MLE of Standard Deviation	30.83
nu star	390.9
A-D Test Statistic	3.522
5% A-D Critical Value	0.766
K-S Test Statistic	0.124
5% K-S Critical Value	0.0894

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

90% Percentile	83.21
95% Percentile	102.1
99% Percentile	144.1
95% WH Approx. Gamma UPL	100.7
95% HW Approx. Gamma UPL	100.6
95% WH Approx. Gamma UTL with 99% Coverage	165.7
95% HW Approx. Gamma UTL with 99% Coverage	172.2

Data Distribution Test

Data do not follow a Discernable Distribution (0.05)

Nonparametric Statistics

90% Percentile	92.1
95% Percentile	112.8
99% Percentile	171.2
95% UTL with 99% Coverage	291
95% Percentile Bootstrap UTL with 99% Coverage	291
95% BCA Bootstrap UTL with 99% Coverage	291
95% UPL	117.5
95% Chebyshev UPL	219
Upper Threshold Limit Based upon IQR	89.45

1				**General Background Statistics for Data Sets with Non-Detects**								
2		**User Selected Options**										
3		From File		C:\Users\atesfamichael\Desktop\SB0484 KAST\Feb 2012 Analysis\July 2012 Reporting\PAH 0 to 5 wo outliers.v								
4		Full Precision		OFF								
5		Confidence Coefficient		95%								
6		Coverage		99%								
7		Different or Future K Values		1								
8		Number of Bootstrap Operations		2000								
9												
10												
11	**BaP-TEQ**											
12												
13					**General Statistics**							
14				Number of Valid Data	35			Number of Detected Data	22			
15				Number of Distinct Detected Data	22			Number of Non-Detect Data	13			
16				Tolerance Factor	2.983			Percent Non-Detects	37.14%			
17												
18				**Raw Statistics**				**Log-transformed Statistics**				
19				Minimum Detected	0.00106			Minimum Detected	-6.849			
20				Maximum Detected	0.179			Maximum Detected	-1.718			
21				Mean of Detected	0.0122			Mean of Detected	-5.696			
22				SD of Detected	0.0376			SD of Detected	1.226			
23				Minimum Non-Detect	0.00106			Minimum Non-Detect	-6.849			
24				Maximum Non-Detect	0.00106			Maximum Non-Detect	-6.849			
25												
26												
27					**Background Statistics**							
28				**Normal Distribution Test with Detected Values Only**				**Lognormal Distribution Test with Detected Values Only**				
29				Shapiro Wilk Test Statistic	0.303			Shapiro Wilk Test Statistic	0.823			
30				5% Shapiro Wilk Critical Value	0.911			5% Shapiro Wilk Critical Value	0.911			
31				**Data not Normal at 5% Significance Level**				**Data not Lognormal at 5% Significance Level**				
32												
33				**Assuming Normal Distribution**				**Assuming Lognormal Distribution**				
34				DL/2 Substitution Method				DL/2 Substitution Method				
35				Mean	0.00785			Mean (Log Scale)	-6.382			
36				SD	0.0301			SD (Log Scale)	1.322			
37				95% UTL 99% Coverage	0.0977			95% UTL 99% Coverage	0.0874			
38				95% UPL (t)	0.0595			95% UPL (t)	0.0163			
39				90% Percentile (z)	0.0464			90% Percentile (z)	0.00921			
40				95% Percentile (z)	0.0574			95% Percentile (z)	0.0149			
41				99% Percentile (z)	0.0779			99% Percentile (z)	0.0367			
42												
43				Maximum Likelihood Estimate(MLE) Method				Log ROS Method				
44				Mean	-0.00432			Mean in Original Scale	0.00774			
45				SD	0.0392			SD in Original Scale	0.0301			
46				95% UTL with 99% Coverage	0.113			95% UTL with 99% Coverage	0.267			
47								95% BCA UTL with 99% Coverage	0.179			
48								95% Bootstrap (%) UTL with 99% Coverage	0.179			
49				95% UPL (t)	0.0629			95% UPL (t)	0.0258			
50				90% Percentile (z)	0.0459			90% Percentile (z)	0.0116			
51				95% Percentile (z)	0.0601			95% Percentile (z)	0.0227			
52				99% Percentile (z)	0.0868			99% Percentile (z)	0.0796			

Gamma Distribution Test with Detected Values Only		
k star (bias corrected)	0.457	
Theta Star	0.0266	
nu star	20.11	
A-D Test Statistic	3.184	
5% A-D Critical Value	0.806	
K-S Test Statistic	0.307	
5% K-S Critical Value	0.196	
Data not Gamma Distributed at 5% Significance Level		
Assuming Gamma Distribution		
Gamma ROS Statistics with Extrapolated Data		
Mean	0.00765	
Median	0.00127	
SD	0.0302	
k star	0.195	
Theta star	0.0392	
Nu star	13.67	
95% Percentile of Chisquare (2k)	2.025	
90% Percentile	0.0231	
95% Percentile	0.0397	
99% Percentile	0.0854	

Data Distribution Test with Detected Values Only	
Data do not follow a Discernable Distribution (0.05)	
Nonparametric Statistics	
Kaplan-Meier (KM) Method	
Mean	0.00805
SD	0.0296
SE of Mean	0.00513
95% KM UTL with 99% Coverage	0.0965
95% KM Chebyshev UPL	0.139
95% KM UPL (t)	0.0589
90% Percentile (z)	0.046
95% Percentile (z)	0.0568
99% Percentile (z)	0.077
Gamma ROS Limits with Extrapolated Data	
95% Wilson Hilferty (WH) Approx. Gamma UPL	0.0259
95% Hawkins Wixley (HW) Approx. Gamma UPL	0.0269
95% WH Approx. Gamma UTL with 99% Coverage	0.0823
95% HW Approx. Gamma UTL with 99% Coverage	0.111

Note: DL/2 is not a recommended method.

Geosyntec consultants

ATTACHMENT A3

Soil Leaching to Groundwater SSCG Derivation Spreadsheets

Attachment A3
Determining Soil Cleanup Levels, LARWQCB Approach
Former Kast Property
Carson, CA

Compound: Benzene

Soil lithology:

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL MCL (mg/L): 1.0E-03

AF Calculation

			Source
Soil density (g/cm^3)	ρb	1.54	Site-specific
porosity (-)	n	0.421	Site-specific
water content (-)	qw	0.239	Site-specific
fract. Org. carbon (-)	foc	0.83%	Site-specific
Org. carbon/water Partition Coeff. (mL/g)	Koc	--	Value not used
Soil/Water Partition Coeff. (mL/g)	Kd	2.8E+01	Site-specific
Henry's Law Constant (-)	Kh	2.3E-01	USEPA RSL

Chemical-Specific Attenuation Factor	AF	180
Dilution Attenuation Factor	DAF	6

Result Table

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATION FACTOR (AFt)	SOIL CLEANUP LEVEL (mg/kg)
50	33	33	1.3E-01
45	25	25	1.0E-01
40	18	18	7.3E-02
35	16	16	6.4E-02
30	14	14	5.6E-02
25	12	12	4.7E-02
24	11	11	4.5E-02
23	11	11	4.4E-02
22	10	10	4.2E-02
21	10	10	4.0E-02
20	10	10	3.9E-02
19	9	9	3.7E-02
18	9	9	3.5E-02
17	8	8	3.3E-02
16	8	8	3.2E-02
15	7	7	3.0E-02
14	7	7	2.8E-02
13	7	7	2.6E-02
12	6	6	2.5E-02
11	6	6	2.3E-02
10	5	5	2.1E-02
5	3	3	1.3E-02
0	1	1	4.1E-03

Notes:

AF = 1 + (rb/qw)*foc*Koc +(n-qw)*KH/qw

D = Depth of Contaminant above the groundwater level

AFd = D(0.1*AF - 1)/40 + 1 - Eqn. 7. For depths less than or equal to 40 feet.

AFd = (0.9(D-40)/110+0.1)AF - Eqn. 6. For depths 40<D<150 feet.

AFt = (AFd/D)*(TGR/20+TSA/10+TSI/5+TCL) - Eqn. 12

Soil Cleanup Level = C = Af_t x MCL - Eqn. 13

Attachment A3
Determining Soil Cleanup Levels, LARWQCB Approach
Former Kast Property
Carson, CA

Compound: Naphthalene

Soil lithology:

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL CDPH NL (mg/L): 1.7E-02

AF Calculation

			Source
Soil density (g/cm^3)	ρb	1.54	Site-specific
porosity (-)	n	0.421	Site-specific
water content (-)	qw	0.239	Site-specific
fract. Org. carbon (-)	foc	0.83%	Site-specific
Org. carbon/water Partition Coeff. (mL/g)	Koc	--	Value not used
Soil/Water Partition Coeff. (mL/g)	Kd	1.1E+03	Site-specific
Henry's Law Constant (-)	Kh	1.8E-02	USEPA RSL

Chemical-Specific Attenuation Factor	AF	7,045
Dilution Attenuation Factor	DAF	6

Result Table

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATION FACTOR (AFt)	SOIL CLEANUP LEVEL (mg/kg)
50	1281	1281	8.8E+01
45	993	993	6.8E+01
40	705	705	4.9E+01
35	617	617	4.2E+01
30	529	529	3.6E+01
25	441	441	3.0E+01
24	423	423	2.9E+01
23	406	406	2.8E+01
22	388	388	2.7E+01
21	370	370	2.6E+01
20	353	353	2.4E+01
19	335	335	2.3E+01
18	318	318	2.2E+01
17	300	300	2.1E+01
16	282	282	1.9E+01
15	265	265	1.8E+01
14	247	247	1.7E+01
13	230	230	1.6E+01
12	212	212	1.5E+01
11	194	194	1.3E+01
10	177	177	1.2E+01
5	89	89	6.1E+00
0	1	1	8.1E-02

Notes:

AF = 1 + (rb/qw)*foc*Koc +(n-qw)*KH/qw

D = Depth of Contaminant above the groundwater level

AFd = D(0.1*AF - 1)/40 + 1 - Eqn. 7. For depths less than or equal to 40 feet.

AFd = (0.9(D-40)/110+0.1)AF - Eqn. 6. For depths 40<D<150 feet.

AFt = (AFd/D)*(TGR/20+TSA/10+TSI/5+TCL) - Eqn. 12

Soil Cleanup Level = C = Af_t x MCL - Eqn. 13

Attachment A3
Determining Soil Cleanup Levels, LARWQCB Approach
Former Kast Property
Carson, CA

Compound: TPH as Diesel

Soil lithology:

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL ESL-nc (mg/L): 2.0E-01

AF Calculation

			Source
Soil density (g/cm^3)	ρb	1.54	Site-specific
porosity (-)	n	0.421	Site-specific
water content (-)	qw	0.239	Site-specific
fract. Org. carbon (-)	foc	0.83%	Site-specific
Org. carbon/water Partition Coeff. (mL/g)	Koc	--	Value not used
Soil/Water Partition Coeff. (mL/g)	Kd	4.1E+03	Site-specific
Henry's Law Constant (-)	Kh	1.7E-05	TPHCWG 1997

Chemical-Specific Attenuation Factor	AF	26,540
Dilution Attenuation Factor	DAF	6

Result Table

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATION FACTOR (AFt)	SOIL CLEANUP LEVEL (mg/kg)
50	4825	4825	3.9E+03
45	3740	3740	3.0E+03
40	2654	2654	2.2E+03
35	2322	2322	1.9E+03
30	1991	1991	1.6E+03
25	1659	1659	1.3E+03
24	1593	1593	1.3E+03
23	1526	1526	1.2E+03
22	1460	1460	1.2E+03
21	1394	1394	1.1E+03
20	1327	1327	1.1E+03
19	1261	1261	1.0E+03
18	1195	1195	9.7E+02
17	1129	1129	9.1E+02
16	1062	1062	8.6E+02
15	996	996	8.1E+02
14	930	930	7.5E+02
13	863	863	7.0E+02
12	797	797	6.5E+02
11	731	731	5.9E+02
10	664	664	5.4E+02
5	333	333	2.7E+02
0	2	2	1.3E+00

Notes:

AF = 1 + (rb/qw)*foc*Koc +(n-qw)*KH/qw

D = Depth of Contaminant above the groundwater level

AFd = D(0.1*AF - 1)/40 + 1 - Eqn. 7. For depths less than or equal to 40 feet.

AFd = (0.9(D-40)/110+0.1)AF - Eqn. 6. For depths 40<D<150 feet.

AFt = (AFd/D)*(TGR/20+TSA/10+TSI/5+TCL) - Eqn. 12

Soil Cleanup Level = C = Af_t x MCL - Eqn. 13

Attachment A3
Determining Soil Cleanup Levels, LARWQCB Approach
Former Kast Property
Carson, CA

Compound: TPH as Gasoline

Soil lithology:

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL ESL-nc (mg/L): 4.1E-01

AF Calculation

			Source
Soil density (g/cm^3)	ρb	1.54	Site-specific
porosity (-)	n	0.421	Site-specific
water content (-)	qw	0.239	Site-specific
fract. Org. carbon (-)	foc	0.83%	Site-specific
Org. carbon/water Partition Coeff. (mL/g)	Koc	--	Value not used
Soil/Water Partition Coeff. (mL/g)	Kd	3.7E+02	Site-specific
Henry's Law Constant (-)	Kh	1.7E-05	TPHCWG 1997

Chemical-Specific Attenuation Factor	AF	2,410
Dilution Attenuation Factor	DAF	6

Result Table

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATION FACTOR (AFt)	SOIL CLEANUP LEVEL (mg/kg)
50	438	438	7.3E+02
45	340	340	5.6E+02
40	241	241	4.0E+02
35	211	211	3.5E+02
30	181	181	3.0E+02
25	151	151	2.5E+02
24	145	145	2.4E+02
23	139	139	2.3E+02
22	133	133	2.2E+02
21	127	127	2.1E+02
20	121	121	2.0E+02
19	115	115	1.9E+02
18	109	109	1.8E+02
17	103	103	1.7E+02
16	97	97	1.6E+02
15	91	91	1.5E+02
14	85	85	1.4E+02
13	79	79	1.3E+02
12	73	73	1.2E+02
11	67	67	1.1E+02
10	61	61	1.0E+02
5	31	31	5.2E+01
0	1	1	1.8E+00

Notes:

AF = 1 + (rb/qw)*foc*Koc +(n-qw)*KH/qw

D = Depth of Contaminant above the groundwater level

AFd = D(0.1*AF - 1)/40 + 1 - Eqn. 7. For depths less than or equal to 40 feet.

AFd = (0.9(D-40)/110+0.1)AF - Eqn. 6. For depths 40<D<150 feet.

AFt = (AFd/D)*(TGR/20+TSA/10+TSI/5+TCL) - Eqn. 12

Soil Cleanup Level = C = Af_t x MCL - Eqn. 13

Attachment A3
Determining Soil Cleanup Levels, LARWQCB Approach
Former Kast Property
Carson, CA

Compound: TPH as Motor Oil

Soil lithology:

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL ESL-nc (mg/L): 6.2E+00

AF Calculation

			Source
Soil density (g/cm^3)	ρb	1.54	Site-specific
porosity (-)	n	0.421	Site-specific
water content (-)	qw	0.239	Site-specific
fract. Org. carbon (-)	foc	0.83%	Site-specific
Org. carbon/water Partition Coeff. (mL/g)	Koc	--	Value not used
Soil/Water Partition Coeff. (mL/g)	Kd	7.0E+03	Site-specific
Henry's Law Constant (-)	Kh	1.7E-05	TPHCWG 1997

Chemical-Specific Attenuation Factor	AF	44,831
Dilution Attenuation Factor	DAF	6

Result Table

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATION FACTOR (AFt)	SOIL CLEANUP LEVEL (mg/kg)
50	8151	8151	2.0E+05
45	6317	6317	1.6E+05
40	4483	4483	1.1E+05
35	3923	3923	9.9E+04
30	3363	3363	8.4E+04
25	2802	2802	7.0E+04
24	2690	2690	6.8E+04
23	2578	2578	6.5E+04
22	2466	2466	6.2E+04
21	2354	2354	5.9E+04
20	2242	2242	5.6E+04
19	2130	2130	5.4E+04
18	2018	2018	5.1E+04
17	1906	1906	4.8E+04
16	1794	1794	4.5E+04
15	1682	1682	4.2E+04
14	1570	1570	3.9E+04
13	1458	1458	3.7E+04
12	1346	1346	3.4E+04
11	1234	1234	3.1E+04
10	1122	1122	2.8E+04
5	561	561	1.4E+04
0	2	2	5.3E+01

Notes:

AF = 1 + (rb/qw)*foc*Koc +(n-qw)*KH/qw

D = Depth of Contaminant above the groundwater level

AFd = D(0.1*AF - 1)/40 + 1 - Eqn. 7. For depths less than or equal to 40 feet.

AFd = (0.9(D-40)/110+0.1)AF - Eqn. 6. For depths 40<D<150 feet.

AFt = (AFd/D)*(TGR/20+TSA/10+TSI/5+TCL) - Eqn. 12

Soil Cleanup Level = C = Af_t x MCL - Eqn. 13

Attachment A3
Determining Soil Cleanup Levels, LARWQCB Approach
Former Kast Property
Carson, CA

Compound: 1,2,3-Trichloropropane

Soil lithology:

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL CDPH NL (mg/L): 5.0E-06

AF Calculation

			Source
Soil density (g/cm^3)	ρb	1.54	Site-specific
porosity (-)	n	0.421	Site-specific
water content (-)	qw	0.239	Site-specific
fract. Org. carbon (-)	foc	0.83%	Site-specific
Org. carbon/water Partition Coeff. (mL/g)	Koc	1.2E+02	USEPA RSL
Soil/Water Partition Coeff. (mL/g)	Kd	9.6E-01	Kd = Koc × foc
Henry's Law Constant (-)	Kh	1.4E-02	USEPA RSL

Chemical-Specific Attenuation Factor	AF	7
Dilution Attenuation Factor	DAF	6

Result Table

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	N FACTOR (AFt)	TOTAL ATTENUATIO UP LEVEL (mg/kg)	SOIL CLEAN
50	1	1	2.6E-05	
45	1	1	2.0E-05	
40	1	1	2.0E-05	
35	1	1	2.0E-05	
30	1	1	2.0E-05	
25	1	1	2.0E-05	
24	1	1	2.0E-05	
23	1	1	2.0E-05	
22	1	1	2.0E-05	
21	1	1	2.0E-05	
20	1	1	2.0E-05	
19	1	1	2.0E-05	
18	1	1	2.0E-05	
17	1	1	2.0E-05	
16	1	1	2.0E-05	
15	1	1	2.0E-05	
14	1	1	2.0E-05	
13	1	1	2.0E-05	
12	1	1	2.0E-05	
11	1	1	2.0E-05	
10	1	1	2.0E-05	
5	1	1	2.0E-05	
0	1	1	2.0E-05	

Notes:

AF = 1 + (rb/qw)*foc*Koc +(n-qw)*KH/qw

D = Depth of Contaminant above the groundwater level

AFd = D(0.1*AF - 1)/40 + 1 - Eqn. 7. For depths less than or equal to 40 feet.

AFd = (0.9(D-40)/110+0.1)AF - Eqn. 6. For depths 40<D<150 feet.

AFt = (AFd/D)*(TGR/20+TSA/10+TSI/5+TCL) - Eqn. 12

Soil Cleanup Level = C = Af_t x MCL - Eqn. 13

Attachment A3
Determining Soil Cleanup Levels, LARWQCB Approach
Former Kast Property
Carson, CA

Compound: 1,2-Dichloroethane

Soil lithology:

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL MCL (mg/L):	5.0E-04

AF Calculation

			Source
Soil density (g/cm^3)	ρb	1.54	Site-specific
porosity (-)	n	0.421	Site-specific
water content (-)	qw	0.239	Site-specific
fract. Org. carbon (-)	foc	0.83%	Site-specific
Org. carbon/water Partition Coeff. (mL/g)	Koc	4.0E+01	USEPA RSL
Soil/Water Partition Coeff. (mL/g)	Kd	3.3E-01	Kd = Koc × foc
Henry's Law Constant (-)	Kh	4.8E-02	USEPA RSL

Chemical-Specific Attenuation Factor	AF	3
Dilution Attenuation Factor	DAF	6

Result Table

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	N FACTOR (AFt)	TOTAL ATTENUATIO UP LEVEL (mg/kg)	SOIL CLEAN
50	1	1	2.0E-03	
45	1	1	2.0E-03	
40	1	1	2.0E-03	
35	1	1	2.0E-03	
30	1	1	2.0E-03	
25	1	1	2.0E-03	
24	1	1	2.0E-03	
23	1	1	2.0E-03	
22	1	1	2.0E-03	
21	1	1	2.0E-03	
20	1	1	2.0E-03	
19	1	1	2.0E-03	
18	1	1	2.0E-03	
17	1	1	2.0E-03	
16	1	1	2.0E-03	
15	1	1	2.0E-03	
14	1	1	2.0E-03	
13	1	1	2.0E-03	
12	1	1	2.0E-03	
11	1	1	2.0E-03	
10	1	1	2.0E-03	
5	1	1	2.0E-03	
0	1	1	2.0E-03	

Notes:

AF = 1 + (rb/qw)*foc*Koc +(n-qw)*KH/qw

D = Depth of Contaminant above the groundwater level

AFd = D(0.1*AF - 1)/40 + 1 - Eqn. 7. For depths less than or equal to 40 feet.

AFd = (0.9(D-40)/110+0.1)AF - Eqn. 6. For depths 40<D<150 feet.

AFt = (AFd/D)*(TGR/20+TSA/10+TSI/5+TCL) - Eqn. 12

Soil Cleanup Level = C = Af_t x MCL - Eqn. 13

Attachment A3
Determining Soil Cleanup Levels, LARWQCB Approach
Former Kast Property
Carson, CA

Compound: 1,4-Dichlorobenzene

Soil lithology:

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL MCL (mg/L): 5.0E-03

AF Calculation

			Source
Soil density (g/cm^3)	ρb	1.54	Site-specific
porosity (-)	n	0.421	Site-specific
water content (-)	qw	0.239	Site-specific
fract. Org. carbon (-)	foc	0.83%	Site-specific
Org. carbon/water Partition Coeff. (mL/g)	Koc	3.8E+02	USEPA RSL
Soil/Water Partition Coeff. (mL/g)	Kd	3.1E+00	Kd = Koc × foc
Henry's Law Constant (-)	Kh	9.9E-02	USEPA RSL

Chemical-Specific Attenuation Factor	AF	21
Dilution Attenuation Factor	DAF	6

Result Table

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATION FACTOR (AFt)	SOIL CLEANUP LEVEL (mg/kg)
50	4	4	7.7E-02
45	3	3	6.0E-02
40	2	2	4.3E-02
35	2	2	4.0E-02
30	2	2	3.7E-02
25	2	2	3.4E-02
24	2	2	3.4E-02
23	2	2	3.3E-02
22	2	2	3.3E-02
21	2	2	3.2E-02
20	2	2	3.1E-02
19	2	2	3.1E-02
18	1	1	3.0E-02
17	1	1	3.0E-02
16	1	1	2.9E-02
15	1	1	2.9E-02
14	1	1	2.8E-02
13	1	1	2.8E-02
12	1	1	2.7E-02
11	1	1	2.6E-02
10	1	1	2.6E-02
5	1	1	2.3E-02
0	1	1	2.0E-02

Notes:

AF = 1 + (rb/qw)*foc*Koc +(n-qw)*KH/qw

D = Depth of Contaminant above the groundwater level

AFd = D(0.1*AF - 1)/40 + 1 - Eqn. 7. For depths less than or equal to 40 feet.

AFd = (0.9(D-40)/110+0.1)AF - Eqn. 6. For depths 40<D<150 feet.

AFt = (AFd/D)*(TGR/20+TSA/10+TSI/5+TCL) - Eqn. 12

Soil Cleanup Level = C = Af_t x MCL - Eqn. 13

Attachment A3
Determining Soil Cleanup Levels, LARWQCB Approach
Former Kast Property
Carson, CA

Compound: cis-1,2-dichloroethylene

Soil lithology:

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL MCL (mg/L): 6.0E-03

AF Calculation

			Source
Soil density (g/cm^3)	ρb	1.54	Site-specific
porosity (-)	n	0.421	Site-specific
water content (-)	qw	0.239	Site-specific
fract. Org. carbon (-)	foc	0.83%	Site-specific
Org. carbon/water Partition Coeff. (mL/g)	Koc	4.0E+01	USEPA RSL
Soil/Water Partition Coeff. (mL/g)	Kd	3.3E-01	Kd = Koc × foc
Henry's Law Constant (-)	Kh	1.7E-01	USEPA RSL

Chemical-Specific Attenuation Factor	AF	3
Dilution Attenuation Factor	DAF	6

Result Table

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	N FACTOR (AFt)	TOTAL ATTENUATIO UP LEVEL (mg/kg)	SOIL CLEAN
50	1	1	2.4E-02	
45	1	1	2.4E-02	
40	1	1	2.4E-02	
35	1	1	2.4E-02	
30	1	1	2.4E-02	
25	1	1	2.4E-02	
24	1	1	2.4E-02	
23	1	1	2.4E-02	
22	1	1	2.4E-02	
21	1	1	2.4E-02	
20	1	1	2.4E-02	
19	1	1	2.4E-02	
18	1	1	2.4E-02	
17	1	1	2.4E-02	
16	1	1	2.4E-02	
15	1	1	2.4E-02	
14	1	1	2.4E-02	
13	1	1	2.4E-02	
12	1	1	2.4E-02	
11	1	1	2.4E-02	
10	1	1	2.4E-02	
5	1	1	2.4E-02	
0	1	1	2.4E-02	

Notes:

AF = 1 + (rb/qw)*foc*Koc +(n-qw)*KH/qw

D = Depth of Contaminant above the groundwater level

AFd = D(0.1*AF - 1)/40 + 1 - Eqn. 7. For depths less than or equal to 40 feet.

AFd = (0.9(D-40)/110+0.1)AF - Eqn. 6. For depths 40<D<150 feet.

AFt = (AFd/D)*(TGR/20+TSA/10+TSI/5+TCL) - Eqn. 12

Soil Cleanup Level = C = Af_t x MCL - Eqn. 13

Attachment A3
Determining Soil Cleanup Levels, LARWQCB Approach
Former Kast Property
Carson, CA

Compound: tert-butyl alcohol

Soil lithology:

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL CDPH NL (mg/L): 1.2E-02

AF Calculation

			Source
Soil density (g/cm^3)	ρb	1.54	Site-specific
porosity (-)	n	0.421	Site-specific
water content (-)	qw	0.239	Site-specific
fract. Org. carbon (-)	foc	0.83%	Site-specific
Org. carbon/water Partition Coeff. (mL/g)	Koc	3.7E+01	Toxnet, NIH
Soil/Water Partition Coeff. (mL/g)	Kd	3.5E-02	Kd = Koc × foc
Henry's Law Constant (-)	Kh	3.7E-04	SRC PhysProp Database

Chemical-Specific Attenuation Factor	AF	1
Dilution Attenuation Factor	DAF	6

Result Table

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	N FACTOR (AFt)	TOTAL ATTENUATIO UP LEVEL (mg/kg)	SOIL CLEAN
50	1	1	4.9E-02	
45	1	1	4.9E-02	
40	1	1	4.9E-02	
35	1	1	4.9E-02	
30	1	1	4.9E-02	
25	1	1	4.9E-02	
24	1	1	4.9E-02	
23	1	1	4.9E-02	
22	1	1	4.9E-02	
21	1	1	4.9E-02	
20	1	1	4.9E-02	
19	1	1	4.9E-02	
18	1	1	4.9E-02	
17	1	1	4.9E-02	
16	1	1	4.9E-02	
15	1	1	4.9E-02	
14	1	1	4.9E-02	
13	1	1	4.9E-02	
12	1	1	4.9E-02	
11	1	1	4.9E-02	
10	1	1	4.9E-02	
5	1	1	4.9E-02	
0	1	1	4.9E-02	

Notes:

AF = 1 + (rb/qw)*foc*Koc +(n-qw)*KH/qw

D = Depth of Contaminant above the groundwater level

AFd = D(0.1*AF - 1)/40 + 1 - Eqn. 7. For depths less than or equal to 40 feet.

AFd = (0.9(D-40)/110+0.1)AF - Eqn. 6. For depths 40<D<150 feet.

AFt = (AFd/D)*(TGR/20+TSA/10+TSI/5+TCL) - Eqn. 12

Soil Cleanup Level = C = Af_t x MCL - Eqn. 13

Attachment A3
Determining Soil Cleanup Levels, LARWQCB Approach
Former Kast Property
Carson, CA

Compound: Tetrachloroethene

Soil lithology:

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL MCL (mg/L): 5.0E-03

AF Calculation

			Source
Soil density (g/cm^3)	ρb	1.54	Site-specific
porosity (-)	n	0.421	Site-specific
water content (-)	qw	0.239	Site-specific
fract. Org. carbon (-)	foc	0.83%	Site-specific
Org. carbon/water Partition Coeff. (mL/g)	Koc	1.6E+02	USEPA RSL
Soil/Water Partition Coeff. (mL/g)	Kd	1.3E+00	Kd = Koc × foc
Henry's Law Constant (-)	Kh	7.5E-01	USEPA RSL

Chemical-Specific Attenuation Factor	AF	10
Dilution Attenuation Factor	DAF	6

Result Table

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	N FACTOR (AFt)	TOTAL ATTENUATIO UP LEVEL (AF)	SOIL CLEAN (mg/kg)
50	2	2	3.6E-02	
45	1	1	2.8E-02	
40	1	1	2.0E-02	
35	1	1	2.0E-02	
30	1	1	2.0E-02	
25	1	1	2.0E-02	
24	1	1	2.0E-02	
23	1	1	2.0E-02	
22	1	1	2.0E-02	
21	1	1	2.0E-02	
20	1	1	2.0E-02	
19	1	1	2.0E-02	
18	1	1	2.0E-02	
17	1	1	2.0E-02	
16	1	1	2.0E-02	
15	1	1	2.0E-02	
14	1	1	2.0E-02	
13	1	1	2.0E-02	
12	1	1	2.0E-02	
11	1	1	2.0E-02	
10	1	1	2.0E-02	
5	1	1	2.0E-02	
0	1	1	2.0E-02	

Notes:

AF = 1 + (rb/qw)*foc*Koc +(n-qw)*KH/qw

D = Depth of Contaminant above the groundwater level

AFd = D(0.1*AF - 1)/40 + 1 - Eqn. 7. For depths less than or equal to 40 feet.

AFd = (0.9(D-40)/110+0.1)AF - Eqn. 6. For depths 40<D<150 feet.

AFt = (AFd/D)*(TGR/20+TSA/10+TSI/5+TCL) - Eqn. 12

Soil Cleanup Level = C = Af_t x MCL - Eqn. 13

Attachment A3
Determining Soil Cleanup Levels, LARWQCB Approach
Former Kast Property
Carson, CA

Compound: Trichloroethene

Soil lithology:

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL MCL (mg/L): 5.0E-03

AF Calculation

			Source
Soil density (g/cm^3)	ρb	1.54	Site-specific
porosity (-)	n	0.421	Site-specific
water content (-)	qw	0.239	Site-specific
fract. Org. carbon (-)	foc	0.83%	Site-specific
Org. carbon/water Partition Coeff. (mL/g)	Koc	6.1E+01	USEPA RSL
Soil/Water Partition Coeff. (mL/g)	Kd	5.0E-01	Kd = Koc × foc
Henry's Law Constant (-)	Kh	4.0E-01	USEPA RSL

Chemical-Specific Attenuation Factor	AF	5
Dilution Attenuation Factor	DAF	6

Result Table

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	N FACTOR (AFt)	TOTAL ATTENUATIO UP LEVEL (mg/kg)	SOIL CLEAN
50	1	1	2.0E-02	
45	1	1	2.0E-02	
40	1	1	2.0E-02	
35	1	1	2.0E-02	
30	1	1	2.0E-02	
25	1	1	2.0E-02	
24	1	1	2.0E-02	
23	1	1	2.0E-02	
22	1	1	2.0E-02	
21	1	1	2.0E-02	
20	1	1	2.0E-02	
19	1	1	2.0E-02	
18	1	1	2.0E-02	
17	1	1	2.0E-02	
16	1	1	2.0E-02	
15	1	1	2.0E-02	
14	1	1	2.0E-02	
13	1	1	2.0E-02	
12	1	1	2.0E-02	
11	1	1	2.0E-02	
10	1	1	2.0E-02	
5	1	1	2.0E-02	
0	1	1	2.0E-02	

Notes:

AF = 1 + (rb/qw)*foc*Koc +(n-qw)*KH/qw

D = Depth of Contaminant above the groundwater level

AFd = D(0.1*AF - 1)/40 + 1 - Eqn. 7. For depths less than or equal to 40 feet.

AFd = (0.9(D-40)/110+0.1)AF - Eqn. 6. For depths 40<D<150 feet.

AFt = (AFd/D)*(TGR/20+TSA/10+TSI/5+TCL) - Eqn. 12

Soil Cleanup Level = C = Af_t x MCL - Eqn. 13

Attachment A3
Determining Soil Cleanup Levels, LARWQCB Approach
Former Kast Property
Carson, CA

Compound: Vinyl Chloride

Soil lithology:

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL MCL (mg/L): 5.0E-04

AF Calculation

			Source
Soil density (g/cm^3)	ρb	1.54	Site-specific
porosity (-)	n	0.421	Site-specific
water content (-)	qw	0.239	Site-specific
fract. Org. carbon (-)	foc	0.83%	Site-specific
Org. carbon/water Partition Coeff. (mL/g)	Koc	2.2E+01	USEPA RSL
Soil/Water Partition Coeff. (mL/g)	Kd	1.8E-01	Kd = Koc × foc
Henry's Law Constant (-)	Kh	1.1E+00	USEPA RSL

Chemical-Specific Attenuation Factor	AF	3
Dilution Attenuation Factor	DAF	6

Result Table

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	N FACTOR (AFt)	TOTAL ATTENUATIO UP (AF)	SOIL CLEAN LEVEL (mg/kg)
50	1	1		2.0E-03
45	1	1		2.0E-03
40	1	1		2.0E-03
35	1	1		2.0E-03
30	1	1		2.0E-03
25	1	1		2.0E-03
24	1	1		2.0E-03
23	1	1		2.0E-03
22	1	1		2.0E-03
21	1	1		2.0E-03
20	1	1		2.0E-03
19	1	1		2.0E-03
18	1	1		2.0E-03
17	1	1		2.0E-03
16	1	1		2.0E-03
15	1	1		2.0E-03
14	1	1		2.0E-03
13	1	1		2.0E-03
12	1	1		2.0E-03
11	1	1		2.0E-03
10	1	1		2.0E-03
5	1	1		2.0E-03
0	1	1		2.0E-03

Notes:

AF = 1 + (rb/qw)*foc*Koc +(n-qw)*KH/qw

D = Depth of Contaminant above the groundwater level

AFd = D(0.1*AF - 1)/40 + 1 - Eqn. 7. For depths less than or equal to 40 feet.

AFd = (0.9(D-40)/110+0.1)AF - Eqn. 6. For depths 40<D<150 feet.

AFt = (AFd/D)*(TGR/20+TSA/10+TSI/5+TCL) - Eqn. 12

Soil Cleanup Level = C = Af_t x MCL - Eqn. 13

Attachment A3
Determining Soil Cleanup Levels, USEPA RSL Approach
Former Kast Property
Carson, CA

Compound	C_w (µg/L)	DAF	Kd (L/kg)	θw (-)	θa (-)	K_H (-)	ρb (kg/L)	Site Cleanup Goals (mg/kg)
Antimony	6	6.2	45	0.239	0.182	1.7E-05	1.54	1.7
Arsenic	10	6.2	29	0.239	0.182	1.7E-05	1.54	1.8
Thallium	2	6.2	71	0.239	0.182	1.7E-05	1.54	0.9

Note:

$$C_{cleanup} = C_W \times \mathrm{DAF} \times \left[Kd + \frac{\theta_W + \theta_a K_H}{\rho_b} \right]$$

Cw	Groundwater quality criterion
DAF	Dilution Attenuation Factor
Kd	Soil/Water partitioning coefficient
θw	Water content
θa	Air content
H'	Dimensionless Henry's Law Constant
ρb	Soil bulk density

Prepared for:

Shell Oil Products US
20945 S. Wilmington Avenues
Carson, CA 90810

Revised Site-Specific Cleanup Goal Report

Former Kast Property
Carson, California

Prepared by:

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Project Number: SB0484-04-2

October 21, 2013

Geosyntec
consultants

REVISED SITE-SPECIFIC CLEANUP GOAL REPORT

Former Kast Property
Carson, California

Prepared for:

Shell Oil Products US

Prepared by:

Geosyntec Consultants, Inc.

Mark Grivetti, P.G., CHG
Principal Hydrogeologist

Ruth Custance
Principal

Robert Ettinger
Principal

Geosyntec
consultants

CERTIFICATION

REVISED SITE-SPECIFIC CLEANUP GOAL REPORT

FORMER KAST PROPERTY

CARSON, CALIFORNIA

I am the Project Manager for Equilon Enterprises LLC doing business as Shell Oil Products US for this project. I am informed and believe that the matters stated in the Revised Site-Specific Cleanup Goal Report dated October 21, 2013 are true, and on that ground I declare, under penalty of perjury in accordance with Water Code section 13267, that the statements contained therein are true and correct.

_____

Doug Weimer
Project Manager
Shell Oil Products US
October 21, 2013

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Vapor Intrusion Evaluation

1. INTRODUCTION

This appendix provides a detailed assessment of the vapor intrusion pathway at the former Kast Property (Site). A multiple-lines-of-evidence evaluation was conducted to assess whether volatile organic compounds (VOCs) detected in soil and soil vapor at the Site are resulting in a measureable effect on indoor air. The results of this evaluation are also used to develop site-specific cleanup goals (SSCGs) that may be used to make corrective action decisions regarding this pathway.

There are various potential sources of VOCs in indoor air, and background sources can make the interpretation of indoor air difficult. Background sources include VOCs in outdoor air or emissions from household building materials (e.g. rugs, paints), household products, or materials brought into the home. The contribution of background sources to indoor air concentrations is an important element in evaluation of the role of soil vapor to the indoor air pathway. Indoor and outdoor air concentrations measured during the Phase II Site Characterization at the Site were compared to literature values of "typical" concentrations found in indoor and outdoor air.

The Phase II Site Characterization data were further evaluated to assess the empirical correlation between soil vapor and indoor air data. Correlation, or the lack thereof, can be used to establish if subsurface soil vapor is contributing to indoor air concentrations. This analysis is used to support the development of a site-specific vapor intrusion attenuation factor that can be used for corrective action planning. The vapor intrusion attenuation factor is the ratio of indoor and subsurface vapor concentrations for constituents measured in both media assuming that the contributions from background sources are insignificant. Development of site-specific empirical attenuation factors is consistent with implementation of USEPA guidance for sites across the United States (USEPA, 2012).

2. DATA SUMMARY

Through August 31, 2013, indoor and sub-slab soil vapor data have been collected at 241 properties of the 285 properties[1]. The addresses and sampling dates for these properties are listed in **Table B-1** and the locations of these properties are shown on **Figure B-1**. To address spatial variability associated with vapor intrusion pathway evaluations, indoor and sub-slab soil vapor samples were collected at properties throughout the Site as access for the sampling activities was granted by property owners. To address questions regarding temporal variability, concomitant indoor and sub-slab soil vapor samples were collected on two separate dates at each property, and indoor and sub-slab soil vapor samples have been collected throughout the Site

[1] Sub-slab soil vapor samples were collected at an additional 24 properties, but indoor air samples were not collected at these properties as of August 31, 2013. Consequently data from these properties are not included in this evaluation.

since January 2010. **Figure B-2** shows the frequency of indoor and sub-slab soil vapor sampling during the investigation. This section summarizes the sub-slab soil vapor and indoor air data sets and describes how they are used in this evaluation.

2.1 Sub-Slab Soil Vapor

Sub-slab soil vapor samples were generally collected from three locations at each residential property: one from beneath the living area and two beneath pavement outside the building footprint. The specific locations of the sub-slab soil vapor samples varied due to the property layout and access (e.g., at some properties a sub-slab probe was installed in the garage rather than a front yard hardscape location). Generally, the sub-slab soil vapor samples were collected immediately following completion of the 24-hour indoor/outdoor air sampling for each property. Sub-slab soil vapor analytical results for the properties considered in this vapor intrusion evaluation are summarized on **Table B-2**.

Sub-slab soil vapor analytical results were compared to conservative risk-based screening levels (RBSLs) used in the human health screening risk evaluations (HHSRE) presented in the Interim, Follow-up, and Final Interim Phase II Site Characterization reports for the individual properties. For the HHSREs, the sub-slab soil vapor RBSLs were calculated by dividing the indoor air RBSLs by a generic screening-level attenuation factor of 0.01. The analysis presented in this appendix shows that the generic screening-level attenuation factor used to calculate the soil vapor RBSLs was conservative (i.e., over-estimates potential contribution of VOCs detected in soil vapor to indoor air). A summary of COCs exceeding sub-slab soil vapor RBSLs is provided in **Table B-3**. **Figures B-3 and B-4** show the sub-slab soil vapor analytical results for benzene and naphthalene, the key Site-related COCs for vapor intrusion pathway analysis. Spatial variability is evident at many properties; exceedances were infrequently or inconsistently observed at each property (**Figures B-3 and B-4**). Temporal variability is also evident in the analytical results presented in **Table B-2**.

2.2 Indoor/Outdoor Air Sampling

The indoor air sampling typically consisted of two to three indoor air samples (two primary indoor air samples and periodically a duplicate sample from one of the locations). Concurrently, an air sample from the garage and two outdoor air samples – one at the front and one at the back of the residence – were also collected. Through August 31, 2013, two rounds of indoor/outdoor/garage air sampling were conducted at 147 of the 241 properties where sub-slab soil vapor and indoor air data were collected. Indoor, garage, and outdoor air analytical results for the samples considered in this evaluation are summarized in **Table B-4**. A statistical summary of the analytical results of the air samples collected for the vapor intrusion evaluation is provided in **Table B-5**.

As reported in the Interim, Follow-up, and Final Interim Phase II Site Characterization reports, indoor, garage, and outdoor air concentrations for several constituents exceed RBSLs. However, as discussed below, background concentrations of these compounds commonly exceed these screening levels, and the measured air concentrations for samples collected at the site are within the range reported for background levels. These conclusions were discussed in the Interim and Follow-up Phase II Site Characterization reports which have been reviewed by the California Regional Water Quality Control Board – Los Angeles Region (RWQCB) and California Environmental Protection Agency Office of Environmental Health Hazard Assessment (OEHHA). The regulatory agency reviews of the Interim, Follow-up, and Final Interim Phase II Site Characterization reports have generally concurred that the VOCs detected in indoor air appear to be due to background sources.

Figures B-5 and B-6 show the indoor air analytical results for benzene and naphthalene. The figures highlight the distribution of concentrations of these constituents in indoor air and illustrate the spatial variability observed among homes across the Site. Within the homes, however, indoor air samples collected in different rooms (e.g., kitchen and bedroom) on the same date are generally similar. Temporal variability is evident in the analytical results for indoor, outdoor, and garage air samples presented in **Table B-4**.

3. BACKGROUND CONCENTRATION EVALUATION

In order to evaluate the significance of concentrations of VOCs detected in indoor air, a literature review of background levels of VOCs and other petroleum compounds was conducted. For vapor intrusion evaluations, background is defined as sources that are not due to subsurface impacts (e.g., contributions due to outdoor air or indoor sources). This section presents a review of background sources and concentrations and compares Site data to literature values.

3.1 Background Sources

There are a variety of background sources that can contribute to concentrations of VOCs in indoor air. These sources include outdoor air, sources within attached garages, indoor product use and activities, offgassing from municipal water, residential building materials (e.g., paint, carpet, vinyl flooring), and materials brought into the home (e.g., dry cleaned clothing). Outdoor air, which in urban environments contains VOCs, mixes with indoor air through open doors and windows as well as through leaks/penetrations in the building envelope (i.e., buildings are not constructed to be air tight even when doors and windows are closed). Impacted air in attached garages can migrate into indoor areas as a result of poor seals between the garage and the residential living spaces (CARB, 2005). Elevated concentrations of VOCs in indoor air are often associated with indoor product use, occupant activities (e.g., hobbies, smoking), new building materials (Van Winkle and Scheff, 2001), and off-gassing from municipal drinking water. Typical sources of these background impacts include environmental tobacco smoke from

cigarettes and cigars, gasoline- or diesel- powered equipment, paints, glues, solvents, cleaners, and natural gas.

- Environmental tobacco smoke is known to contain VOCs including benzene, toluene, xylenes, naphthalene, and styrene (Offermann et al., 1991; CARB, 2005; Jia and Batterman, 2010).

- Gasoline- and diesel-powered equipment such as automobiles and lawn mowers emit VOCs typical of petroleum products including benzene, toluene, ethylbenzene, and xylenes (BTEX), heptane, hexane, naphthalene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene (CARB, 2005).

- Municipal drinking water contains trihalomethanes (e.g., chloroform and bromodichloromethane) which is a common by-product of municipal water disinfection.

- Paints, glues, solvents, cleaners, and deodorizers contain a wide variety of VOCs and are commonly found and used in residential households. VOCs associated with these products include (but are not limited to) BTEX, naphthalene, carbon tetrachloride, tetrachloroethene (PCE), and 1,4-dichlorobenzene (CARB, 2005).

- Natural gas contains low concentrations of low molecular weight hydrocarbons (e.g., benzene) and leaking natural gas lines/connections can be a source of VOCs to indoor air.

Table B-6 summarizes common background sources of VOCs detected in indoor air and includes typical and maximum values that have been observed in air.

3.2 Indoor vs. Outdoor Concentrations

Studies have consistently shown that background concentrations of VOCs are higher in indoor air than in outdoor air (Van Winkle and Scheff, 2001; Hodgson and Levin, 2003; Sexton et al., 2004; CARB, 2005). On average, indoor concentrations were one (Jia and Batterman, 2010) to five (CARB, 2005) orders of magnitude higher than measured outdoor concentrations. This trend is likely due to two primary factors: indoor sources (as discussed above) and lower indoor ventilation compared to outdoor dispersion (Sexton et al., 2004). Studies have also shown that background levels in indoor air are building-specific due to household use and occupant activities (Van Winkle and Scheff, 2001; CARB, 2005).

3.3 Indoor Air Background Evaluation

Six studies were reviewed to evaluate VOC background concentrations in indoor air. These studies included original investigations (Van Winkle and Scheff, 2001; Sexton et al., 2004) and data compilations (Hodgson and Levin, 2003; CARB, 2005; Jia and Batterman, 2010; USEPA,

2011). A summary of the documents reviewed and the background concentrations reported is presented below.

- Van Winkle and Scheff (2001) monitored ten homes at regular intervals for just under a year to evaluate background VOC and polycyclic aromatic hydrocarbons (PAH) concentrations in indoor air. The study excluded homes with smokers. Background concentrations in this study were attributed to mothball storage, air freshener use, and cooking activities.

- Sexton et al. (2004) conducted a study to evaluate personal, indoor, and outdoor air exposures in three different neighborhoods during spring, summer, and fall of 1999. The study excluded homes with smokers and found that concentrations in indoor air were greater than concentrations in outdoor air, and that concentrations in personal air (breathing zone) were greater than concentrations in indoor air. Background concentrations in this study were attributed to outdoor sources, including industry and automotive exhaust, and indoor sources including consumer products and cooking emissions.

- Hodgson and Levin (2003) conducted a review of VOC concentrations measured in North America since 1990. Data collected from studies in which environmental tobacco smoke-specific compounds were reported were excluded from this assessment.

- In 2005, the California Air Resources Board (CARB) prepared a report on indoor air pollution in California. The report was extensive and documented the health effects, costs, sources, and concentrations of indoor air pollutants.

- Jia and Batterman (2010) conducted a review of naphthalene sources and exposures relevant to indoor and outdoor air. This study found that average naphthalene concentrations ranged from 0.02 $\mu g/m^3$ to 0.31 $\mu g/m^3$ in non-smoker's homes. Naphthalene emission sources include industry, open burning, combustion, and tailpipe emissions. The second largest source is off-gassing from products including deodorizers, repellants (including moth balls), and fumigants.

- In June 2011, the USEPA published a compilation of background indoor air VOC concentrations for North American residences from 1990 through 2005. Studies evaluated in this report were limited to those in which no known or suspected contamination was present below the ground surface unless a proven and effective vapor intrusion mitigation system was in place. The study also excluded data in which smokers were present. This technical report compiled summary statistics (e.g., 25^{th}, 50^{th}, 75^{th}, 90^{th}, and 95^{th} percentiles, number of samples, percent detection, and reporting limits) for the distribution of indoor air concentrations in thousands of residences that are not expected or known to be at risk of vapor intrusion. The study found that background

VOC concentrations in indoor air are highly variable and that the VOCs most commonly detected in indoor air due to background sources include BTEX and chlorinated solvents.

The impact of smoking was specifically excluded in the studies selected to represent background. However, smoking can greatly affect the quality of indoor air and contribute to concentrations of several petroleum-related compounds (Jenkins et al., 2000). Exclusion of smoking related background may bias the background indoor air data low.

Median indoor air background concentrations for petroleum hydrocarbons are summarized in the table below, and indoor air background concentrations reported in the USEPA study (USEPA, 2011) are shown in **Table B-7**.

Median Indoor Air Background Concentrations for Petroleum Hydrocarbons from Literature Studies
(Concentrations reported in µg/m^3)

Compound	Van Winkle (2001)	Sexton (2004)	Hodgson and Levin (2003)	USEPA (2011)
Benzene	2.9	1.9	2.78	<RL - 4.7
Ethylbenzene	9.1	1.4	2.3	1 - 3.7
Toluene	3.2	12.3	12.4	4.8 - 24
m,p-Xylene	13.5	4.8	6.1	1.5 - 14
o-Xylene	3.6	1.6	2.3	1.1 - 3.6
Naphthalene	0.47	NR	0.47	<RL - 0.4

NR – Not reported
< RL – Median concentration below method reporting limit

The indoor air concentrations measured at the Site were compared to the literature values summarized by USEPA (USEPA, 2011). The USEPA study did not include raw data for the background data sets, but robust summary statistics were provided. The percentiles calculated from the onsite indoor air concentrations were compared to the background percentile ranges provided in the USEPA report.

Table B-7 provides the summary statistics (e.g., 50th, 75th, 90th, and 95th percentiles), sample sizes, the reporting limits, and percent detections of the background indoor air concentrations

from the USEPA report. **Table B-8** summarizes the summary statistics (e.g., 25th, 50th, mean, 75th, 90th, and 95th percentiles), sample sizes, and percent detections for concentrations for indoor air samples collected at the Site[2]. These summary statistics show that indoor air concentrations from both data sets are highly variable (range spans an order of magnitude or more).

A comparison of the two data sets (USEPA, 2011 and Site data) is shown on **Figure B-7**. The box and whisker plot for each chemical shows the indoor air concentration distributions for ten compounds that were frequently detected in the indoor air samples at the Site (detection frequencies greater than 95%). The box in these figures shows the interquartile range (i.e., 25th to 75th percentile) and the bar in the middle of the box is the median value. The whiskers of the plots show the 10th and 90th percentile concentrations and outlier results are plotted to illustrate the range of detected concentrations. The colored symbols on this plot show the ranges of median, 90th percentile, and maximum indoor air concentrations reported in the USEPA report (USEPA, 2011). Open and closed symbols show the lower and upper end of the ranges for these statistics, respectively.

With the exception of 1,2-dichloroethane (1,2-DCA), the Site concentrations were within the background range reported by USEPA. Although 1,2-DCA was outside of the background range reported in the USEPA study, more current studies (Doucette et al., 2010; Kurtz et al., 2010) conclude that this compound has been detected in increasing frequency and higher concentrations since 2004 (i.e., the data considered in the USEPA study [1990 through 2005] did not reflect this more recent increase in indoor air concentrations).

The comparison of Site data with literature background values indicates that VOCs detected in indoor air are within the range of reported background concentrations. This complicates analysis of the vapor intrusion pathway as the indoor air concentrations are more likely reflective of background sources rather than related to sub-slab soil vapor concentrations.

3.4 Outdoor Air Background Evaluation

Two studies were identified that report regional background concentrations of VOCs in outdoor air (SCAQMD, 2008; DRI, 2009). Results from these studies were considered for the outdoor air background evaluation.

- The South Coast Air Quality Management District (SCAQMD) conducted a multi-year monitoring and evaluation study for the South Coast Air Basin. Sample collection and analysis for the Multiple Air Toxics Exposure Study III (MATES III) was performed between April 2004 and March 2006. Samples were collected from ten fixed monitoring stations every three days over the course of the study. Two of the monitoring stations

[2] For the comparison, Table B-8 includes only constituents that are listed in the USEPA (2011) summary and that were detected in indoor air samples collected at the Site.

(West Long Beach and North Long Beach) were located in the general area of the Site. The study provided statistics of the concentrations of detected VOCs for the individual monitoring stations.

- CARB conducted the Harbor Community Monitoring Study (HCMS) to characterize the concentrations of VOCs in the area near the Site. There were 23 monitoring locations in this study; one of these locations was located just south of the Site. Samples were collected in 2007 over four consecutive weeks during each season. The study provided statistics of the concentrations of detected VOCs for the individual monitoring stations.

Average outdoor air background concentrations for petroleum hydrocarbons are summarized in the table below, and outdoor air background concentrations for all VOCs reported in these studies are shown in **Table B-9**.

Average Outdoor Air Background Concentrations for Petroleum Hydrocarbons from Literature Studies
(Concentrations reported in µg/m^3)

Compound	**MATES III North Long Beach**		**MATES III West Long Beach**		**HCMS**
	Apr. 2004 – Mar. 2005	Apr. 2005 – Mar. 2006	Apr. 2004 – Mar. 2005	Apr. 2005 – Mar. 2006	2007
Benzene	1.79 ± 0.19	1.53 ± 0.19	1.82 ± 0.26	1.60 ± 0.22	1.50 ± 0.26
Ethylbenzene	0.95 ± 0.13	0.87 ± 0.13	1.17 ± 0.17	0.95 ± 0.13	1.65 ± 0.56
Toluene	6.03 ± 0.75	5.28 ± 0.75	7.46 ± 1.17	5.88 ± 0.87	6.03 ± 0.98
m,p-Xylene	3.69 ± 0.48	2.95 ± 0.43	4.04 ± 0.65	3.12 ± 0.48	5.25 ± 0.65†
o-Xylene	0.82 ± 0.13	0.74 ± 0.17	0.95 ± 0.17	0.82 ± 0.17	
Naphthalene	NR	0.18 ± 0.03	NR	NR	NR

NR – Not reported
† HCMS presented results for Total Xylenes (m,p-Xylene + o-Xylene)

The outdoor air concentrations measured at the Site were compared to the literature values for studies conducted in the region (SCAQMD, 2008; DRI, 2009). **Table B-10** lists the summary statistics (e.g., 25th, 50th, mean, 75th, 90th, and 95th percentiles), sample sizes, and percent

detections for concentrations for outdoor air samples collected at the Site[3]. These summary statistics show that outdoor air concentrations from both data sets are highly variable (range spans an order of magnitude or more).

A comparison of the two data sets is shown on **Figure B-8**. The box and whisker plot for each chemical shows the outdoor air concentration distributions for eleven compounds reported in the regional studies. The box in these figures shows the interquartile range (i.e., 25th to 75th percentile) and the bar in the middle of the box is the median value. The whiskers of the plots show the 10th and 90th percentile concentrations and outlier results are plotted to illustrate the range of detected concentrations. The colored symbols on this plot show the ranges of mean and maximum outdoor air concentrations reported in the regional studies (SCAQMD, 2008; DRI, 2009). Open and closed symbols show the lower and upper end of the ranges for these statistics, respectively.

The concentrations of these constituents detected in samples collected from the Site are within the reported background ranges. The comparison of Site data with literature background values indicates that VOCs detected in outdoor air are reflective of background concentrations.

4. SITE-SPECIFIC VAPOR INTRUSION PATHWAY EVALUATION

Multiple-lines-of-evidence vapor intrusion evaluations have been presented in the Interim, Follow-up, and Final Phase II Site Characterization reports for properties where indoor air data were collected. These property-specific evaluations considered the following lines of evidence to assess the sources of VOCs detected in indoor air:

- An evaluation of chemicals detected in soil vapor. If a chemical (i) is not detected in soil vapor but detected in indoor air, or (ii) the indoor air concentration is greater than the sub-slab soil vapor concentration, then the VOC detected in indoor air is likely due to a background source (ITRC, 2007).
- Comparison of indoor air and outdoor air concentrations.
- Comparison of indoor air and garage air concentrations.
- Comparison with typical indoor air values reported in the literature.

Based on the evaluations for the individual residential properties, vapor intrusion of chemicals present in the subsurface does not appear to be significant. These evaluations were conducted for each individual property to address questions regarding the spatial variability of the vapor

[3] For the comparison, Table B-10 includes only constituents that are listed in the regional studies summary and that were detected in outdoor air samples collected at the Site.

intrusion data. Additionally, data were collected throughout the investigation period during different seasons and weather conditions to address questions regarding temporal variability of the vapor intrusion data.

Both indoor air and outdoor air concentrations are within the range reported for relevant background comparison concentrations, which complicates evaluation of the vapor intrusion pathway at this site. As illustrated in **Figure B-9**, indoor air concentrations are potentially affected by (i) emissions from indoor sources, (ii) mixing with the garage air, (iii) mixing with outdoor air, and (iv) vapor intrusion. This section presents statistically rigorous approaches to determine whether an empirical relationship between indoor air and sub-slab soil vapor concentrations can be defined for the Site and supports development of a site-specific vapor intrusion attenuation factor. The relationships among the indoor, outdoor, and garage air results and sub-slab soil vapor results are analyzed using multiple linear regression. This analysis is supplemented with an evaluation of the indoor air and sub-slab soil vapor relationship using single linear regression coupled with a source-strength filtering approach similar to that presented in USEPA (2012).

4.1 Data for Statistical Analysis

The multiple regression analysis was conducted for ten compounds selected to consider a range of detection frequencies in indoor air, outdoor air, and sub-slab soil vapor samples collected at the Site. The selected compounds include petroleum hydrocarbons (BTEX [m,p-xylene was evaluated separately from o-xylene] and naphthalene), chlorinated hydrocarbons (1,2-DCA, carbon tetrachloride, and PCE) and a trihalomethane (chloroform). Seven of these compounds were detected at the Site at concentrations that exceed indoor air risk-based screening levels (toluene, m,p-xylene, and o-xylene were not detected in indoor air at concentrations exceeding risk-based screening levels). Four of these constituents (naphthalene, chloroform, benzene, and PCE) had the highest detection frequency in sub-slab soil vapor for these COCs at the Site. Statistical evaluation of these ten compounds is a representative sub-set to evaluate the potential vapor intrusion pathway at the Site. The source strength analysis used all compounds for which sub-slab soil vapor concentrations were above the detection limit.

The data sets used in the analyses met the following criteria:

- Analytical results for both air and sub-slab soil vapor samples collected from October 2010 through August 2013.

- Samples where sub-slab soil vapor and indoor air data were collected on consecutive days (typically, sub-slab soil vapor samples were collected following the completion of the 24-hour indoor air sampling event).

- For a given property and sample date, the maximum detected concentrations for (i) indoor air, (ii) garage air, (iii) outdoor air, and (iv) soil vapor were used in the statistical analysis.

The analytical data for all of the COCs for which sub-slab soil vapor concentrations were above detection are presented in **Table B-11** and summary statistics (sample size, detection frequency, minimum and maximum concentration) by COC are provided in **Table B-12**. High detection frequencies generally are reported for indoor air (98% to 100%), garage air (96% to 100%), and outdoor air (70% to 100%) for the representative compounds used in the multiple linear regression analysis. Lower detection frequencies were observed for the sub-slab soil vapor results. To limit the impact of non-detect sub-slab soil vapor results on the statistical analysis, the data sets for the multiple linear regression analysis and source strength analysis generally were limited to those with detected sub-slab soil vapor concentrations. However, for several of the compounds with low sub-slab soil vapor detection frequencies (i.e., 1,2-DCA, benzene, carbon tetrachloride, ethylbenzene, m,p-xylene, and o-xylene), the multiple regression analysis used the complete data set. If a constituent was not detected in any of the samples for a specific medium on a given sample date, the minimum analytical reporting limit was used in the analysis.

4.2 Multiple Linear Regression Approach

Multiple linear regression, as depicted in **Figure B-9**, was used to model the relationship between a variable of interest (called a response variable, which in this case is indoor air concentration) and explanatory variables (in this case, sub-slab soil vapor, garage air, and outdoor air concentrations). The relationship between the response and explanatory variables is fit to a linear equation using the observed data. Implicit in this approach is that the response variable is assumed to be linearly related to the explanatory variables. The assumption of linearity is reasonable considering indoor air concentrations resulting from mixing with external air (outdoor, garage, and sub-slab) can be estimated using simple algebraic relationships. Thus, a linear correlation is expected between indoor air and any of the explanatory (outdoor air, garage air, or sub-slab soil vapor concentrations) that are responsible for the observed indoor air concentrations. An additional term is included in the multiple linear regression equation to account for emissions from indoor air sources. More formally, the multiple linear regression equation for each compound is:

$$Y = \beta_0 + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \epsilon,$$

where

Y is the log-transformed indoor air concentration;

X_1 is the log-transformed garage concentration;

X_2 is the log-transformed outdoor air concentration;

X_3 is the log-transformed sub-slab soil vapor concentration;

β_0 is the intercept term, or the mean value of indoor air concentration when all explanatory variables are set to zero, and is representative of indoor sources;

β_1 represents the effect of a 1% increase in garage concentration on the mean indoor air concentration, while holding outdoor air and soil gas concentrations fixed;

β_2 represents the effect of a 1% increase in outdoor air concentration on the mean indoor air concentration, while holding garage and soil gas concentrations fixed;

β_3 represents the effect of a 1% increase in soil gas concentration on the mean indoor air concentration, while holding garage and outdoor air concentrations fixed; and

ϵ represents the residual or error term which quantifies the deviations of the observed value from the predicted value obtained from the linear regression equation.

Note that ϵ is assumed to be independent and identically distributed with mean zero and constant variance**.**

Since the regression coefficients (β parameters) associated with each explanatory variable are unknown, they are estimated using a method of least squares. Statistical tests, known as hypothesis tests, are then conducted to determine whether these estimates are statistically different from zero. If the estimate is statistically significant (i.e., the estimate is statistically different from zero), then the value and sign of the estimate represent the magnitude and direction of the effect of that explanatory variable on the mean indoor air concentration.

Additionally, the coefficient of determination (R^2 value) is a measure of the linear association between the response variable and the explanatory variables and is used to assess the model fit. Essentially, the R^2 value quantifies the overall proportion of variability in indoor air concentrations that can be explained by garage, outdoor air, and soil gas concentrations. The greater the R^2 value, the stronger the association between the indoor air concentration and the garage, outdoor air, and soil gas concentrations and the better the linear regression model fit. Conversely, if the R^2 value is low, then there is generally a poor correlation between the indoor air concentration and the garage, outdoor air, and soil gas concentrations, and we would conclude that the variability in indoor air concentrations is due to variability in contributions from indoor sources (i.e., variability in β_0).

For each compound, a multiple linear regression was performed on the log-transformed data sets. Log-transformation addresses the underlying distribution of the data and improves the statistical properties of the hypothesis testing since the variables themselves will exhibit normality, and

will ensure that the other model assumptions (i.e., errors are normally distributed and have constant variance) are better met. Log transforms of environmental data are frequently required because environmental data are often log-normally distributed (Gilbert, 1987).

4.3 Multiple Linear Regression Results

The multiple linear regression analysis statistically evaluated the log-transformed data sets to calculate coefficient estimates which characterize the log-linear relationship between the paired concentrations (e.g., increases in outdoor air concentrations result in an increase in indoor air concentrations). **Attachment A** contains the correlation plots for the log-transformed data sets for each compound. The top rows of these figures show the correlation plots of indoor air concentrations to (i) garage air concentrations, (ii) outdoor air concentrations, and (iii) sub-slab soil vapor concentrations. These plots can be used to qualitatively assess the relationships between measured concentrations in the different media.

- For the six compounds with low detection frequencies in sub-slab soil vapor (1,2 dichloroethane, benzene, carbon tetrachloride, ethylbenzene, m,p-xylene, and o-xylene), the sub-slab soil vapor versus indoor air correlation plots are predominantly comprised of results where the COC was not detected in sub-slab soil vapor (shown in these figures as low concentration soil vapor concentration bands). Since the COC was not detected in sub-slab soil vapor for these points, the indoor air concentrations are representative of background levels.

- For constituents with higher detection frequencies (chloroform, naphthalene, tetrachloroethene, and toluene), indoor air concentrations are representative of background levels Note that the ranges of indoor air concentrations for samples with low sub-slab soil vapor concentrations are similar to those when higher sub-slab soil vapor concentrations were detected.

These figures indicate ranges of background concentrations for each COC that are likely due to variability in outdoor air concentrations and/or property-specific product use. Consequently, it is concluded that the measured indoor air concentrations at the Site are indistinguishable from background, even for properties with higher sub-slab soil vapor concentrations.

The multiple linear regression results are shown in **Table B-13**. The coefficient estimates for β_1 (garage air to indoor air) and β_2 (outdoor air to indoor air) were statistically significant, indicating that the indoor air concentrations are related to the garage and outdoor air concentrations[4]. The coefficient estimates for β_3 (sub-slab soil vapor to indoor air) were not statistically significant for most compounds, but statistically significant coefficient estimates

[4] Note that the outdoor air to garage air coefficient estimate for 1,2-DCA is not statistically significant.

were seen for chloroform and naphthalene. Note that the sub-slab soil vapor to indoor air correlation coefficient for naphthalene is less than 0. This indicates an inverse relationship between measured concentrations in these media. The calculated coefficient of -0.10 for naphthalene indicates that the contribution to indoor air would be lower for cases with higher sub-slab soil vapor concentrations. This inverse relationship is not consistent with the vapor intrusion conceptual model, and consequently, it is concluded that the correlation between the sub-slab soil vapor and indoor air concentrations for naphthalene is not a result of vapor intrusion.

The magnitude of the coefficient estimate indicates the relative contribution to indoor air concentrations from the different explanatory variables. For example, for carbon tetrachloride, the outdoor air coefficient was higher than that for garage air; this indicates that carbon tetrachloride detected in outdoor air has a larger effect on indoor air concentrations than contributions of this compound detected in garage air. Conversely, 1,2-DCA has a higher coefficient for garage air and no significant correlation for outdoor air, which indicates that 1,2-DCA detected in garage air has a larger effect on indoor air concentrations than contributions from outdoor air. Also, note that the sub-slab soil vapor to indoor air correlation coefficient for naphthalene is much less than the garage air to indoor air and outdoor air to indoor air correlation coefficients, indicating that the inverse relationship for sub-slab soil vapor to indoor air identified for naphthalene is small relative to the garage or outdoor air concentrations.

The amount of variability (R^2) in indoor air concentrations explained by garage, outdoor air, and soil vapor concentrations ranged from 18% (chloroform) to 78% (carbon tetrachloride) (**Table B-13**). The regressions for benzene and carbon tetrachloride showed the highest R^2 values (64% to 78%, respectively). Therefore, a majority of the variability of indoor air concentrations for these compounds is explained by the garage air and outdoor air concentrations. The regressions performed for the remaining compounds included in the multiple linear regression analysis ranged from 18% to 47%; this suggests that indoor sources have a larger effect on the variability of indoor air concentrations for these constituents. Note that the R^2 values for chloroform and naphthalene were the lowest for the COCs evaluated. Even though a statistically significant sub-slab soil vapor to indoor air coefficient was identified for these constituents, the low R^2 values indicate that the multiple linear regression model does not provide a good fit for these data (i.e., the indoor air concentrations for these compounds are not well characterized by garage, outdoor air, and soil vapor concentrations, and are predominantly influenced by indoor sources).

Overall, the multiple linear regression analysis indicates that there is a poor correlation between sub-slab soil vapor and indoor air concentrations. Statistically significant correlations between sub-slab soil vapor and indoor air concentrations are not shown for most of the COCs included in the evaluation. Statistically significant sub-slab soil vapor to indoor air coefficients are shown for chloroform and naphthalene; however, based on the low R^2 value and negative coefficient calculated for naphthalene, the contribution of sub-slab soil vapor to indoor air concentrations are not considered to be significant for these compounds.

Finally, model selection methods were used to evaluate the appropriateness of the selected linear regression model. For the COCs where the multiple linear regression analysis concluded that the soil vapor variables were not statistically significant, the data were re-fit using a reduced model which excludes the soil gas term (i.e., indoor air concentrations were modeled as a function of garage and outdoor air only or $Y = \beta_0 + \beta_1 X_1 + \beta_2 X_2 + \epsilon$). In order to evaluate the effect of the removal of this variable, a statistical test (an F-test) was conducted to compare the multiple linear regression analysis results using the full and reduced models. This reduced-model test was not conducted for chloroform or naphthalene, because the full model indicated that the sub-slab soil vapor coefficient was statistically significant. **Table B-14** provides a summary of the full and reduced model fits and the results of the F-test for the comparison of the two models. The regression coefficients and R^2 values for the reduced models are almost identical to those of the full model. Additionally, the results of the F-tests indicate that the reduced model (i.e., excluding sub-slab soil vapor concentrations as an explanatory variable) provide the same fit as the full model. In other words, for the COCs evaluated with the reduced model, the sub-slab soil vapor concentrations do not appear to be a significant influence on indoor air concentrations.

The multiple regression analysis results indicate that indoor air concentrations are generally correlated with outdoor or garage air concentrations and/or largely influenced by indoor sources. The statistical analysis indicates that the sub-slab soil vapor concentrations do not have a significant effect on indoor air concentrations as compared to these other sources. This evaluation corroborates the results of the comparison of indoor and outdoor air concentrations to the reported ranges of background air concentrations.

4.4 Source Strength Analysis Approach

The source strength analysis approach presented in this section was used to determine if an empirical relationship between indoor air and sub-slab soil vapor concentrations can be defined when background influences on the indoor air concentrations are accounted for and minimized. This requires considering how background indoor air concentrations influence the empirical attenuation factor, which is shown in the equation below (USEPA, 2012):

$$AF_{EMP} = \frac{\left(C_{IA-VI} + C_{IA-BKGD}\right)}{C_{SS}} = AF_{VI} + \frac{C_{IA-BKGD}}{C_{SS}}$$

where

AF_{EMP} represents the empirical attenuation factor,

AF_{VI} represents the attenuation factor for vapor intrusion in the absence of indoor sources,

$C_{IA\text{-}BKGD}$ represents the indoor air concentration due to background indoor sources,

$C_{IA\text{-}VI}$ represents the indoor air concentration due to vapor intrusion, and

C_{SS} represents the sub-slab soil vapor concentration.

When background indoor air concentrations are equivalent to or greater than the concentration contributed by vapor intrusion, the empirical attenuation factor will be biased high relative to the vapor intrusion attenuation factor, AF_{VI}, by the contribution of background sources to indoor air. The bias varies in proportion to the relative contribution of background sources to the total indoor air concentration. This equation shows that the empirical attenuation factor is most likely to represent the attenuation due to vapor intrusion when the indoor air concentration from vapor intrusion is substantially greater than the background indoor air concentration, which is most likely to occur when subsurface vapor concentrations are high. As the background due to outdoor ambient air was quantified in this study, the outdoor air concentration was subtracted from the indoor air concentration when evaluating the sub-slab soil vapor to indoor air relationship.

4.5 Source Strength Analysis Results

Figure B-10 shows the relationship between the empirical attenuation factor and source strength (i.e., sub-slab soil vapor concentration) for all compounds detected in sub-slab soil vapor[5]. This figure shows significant scatter in the empirical attenuation factors, particularly at low source concentrations (including values greater than 1) which is a result of background effects. Empirical attenuation factors for non-chlorinated solvents (including compounds such as acetone, ethanol, and isopropyl alcohol) are higher than values for chlorinated and petroleum compounds. Due to the higher indoor air background concentrations for these common solvents, the empirical attenuation factors for these compounds are significantly impacted by background sources even for cases with higher source strengths.

As shown in **Figure B-11**, there is less variability for the results for sample pairs with higher sub-slab soil vapor concentrations (i.e., greater than 100 µg/m^3). The trends for petroleum and chlorinated compounds are similar and indicate empirical attenuation factors less than 0.001 with increasing source strength. A decreasing trend is evident in these data. This indicates that background sources are still affecting the empirical attenuation factor. However, this analysis suggests that a conservative attenuation factor of 0.001 may be used as a bounding estimate for corrective action planning.

An alternate approach to filter out background effects on the vapor intrusion data is to identify a data set of paired indoor air (corrected for outdoor air) and sub-slab soil vapor concentrations that show a statistically significant linear relationship. The rationale for this approach is that background sources result in a non-linear relationship between indoor air and sub-slab soil vapor.

[5] Results for three samples with high sub-slab soil vapor concentrations (>2,000 µg/m^3) are not shown on this figure. The empirical attenuation factors for these three samples range from 5E-5 to 3E-4.

Plots of the relationships and correlations between indoor air and sub-slab soil vapor concentrations are shown in Attachment B and the calculated linear regression correlation coefficients are summarized in the table below.

Correlation Coefficients for
Compounds with Detected Sub-slab Soil Vapor Concentrations

Compound Type	All Data	AF_{EMP} 0.01	AF_{EMP} 0.005	AF_{EMP} 0.002	AF_{EMP} 0.001
All Compounds	-0.07	0.29	0.34	0.65	0.72
Chlorinated Compounds	-0.13	0.25	0.49	0.67	0.78
Petroleum Compounds	-0.15	0.33	0.34	0.64	INS
Non-Chlorinated Solvents	-0.18	-1.7	-0.91	INS	INS

INS – Insufficient Data

Correlation is obtained only for high sub-slab soil vapor concentrations, at attenuation factors of 0.001 or less. Higher correlation coefficients are calculated for chlorinated compounds and slightly lower values for petroleum compounds. However, the correlations for non-chlorinated compounds are poor. These results are consistent with the conclusion that $AF_{VI} = 0.001$ may be used as a conservative upper-bound estimate of the vapor intrusion attenuation factor that was obtained by evaluating the attenuation factor as a function of sub-slab soil vapor concentration.

5. SUMMARY

The results of this multiple-lines-of-evidence evaluation of the vapor intrusion pathway at the Site indicate:

- Indoor air and outdoor air concentrations of VOCs detected at the properties evaluated are generally indistinguishable from background and within the typical ranges of background concentrations reported in the literature.

- The multiple regression analysis results indicate that indoor air concentrations are generally correlated with outdoor or garage air concentrations and/or largely influenced by indoor sources. The statistical analysis indicates that the sub-slab soil vapor

concentrations do not have a significant effect on indoor air concentrations as compared to these other sources.

- Spatial and temporal variability are evident in the indoor air results. Such variability is typically observed in vapor intrusion data owing to differences in building characteristics, owner/occupant habits, and seasonal variations in temperature and other climatic conditions. This analysis also indicates that the presence of indoor sources of VOCs likely contributes to the variability in indoor air concentrations detected at the Site.

- The multiple linear regression analyses for benzene and carbon tetrachloride showed the highest correlation values, indicating that a large proportion of the variability in indoor air concentrations for those constituents can be explained by garage and outdoor air concentrations. The regressions for other constituents showed lower correlation values and, therefore, weaker linear relationships with garage and outdoor air concentrations and sub-slab soil vapor, which suggests that the variability in indoor air concentrations is predominantly due to indoor sources.

- Evaluation of the relationship between the empirical attenuation factor and sub-slab soil vapor concentrations (i.e., source strength) shows that there is less variability in the results for sample pairs with higher sub-slab soil vapor concentrations (i.e., greater than 100 $\mu g/m^3$); although a decreasing trend with increasing source strength is evident even at these higher sub-slab soil vapor concentrations. By minimizing the influence of background sources on indoor air concentrations, a linear trend is observed between indoor air and increasing sub-slab soil vapor concentrations for petroleum and chlorinated compounds for empirical attenuation factors less than 0.001. This analysis suggests that an attenuation factor of 0.001 may be used as a conservative upper-bound estimate for corrective action planning.

6. REFERENCES

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Tables

Figures

Attachments

APPENDIX B
Vapor Intrusion Evaluation

TABLES

Table B-1
Indoor Air Sample Locations Through August 31, 2013
Former Kast Property
Carson, California

Address	Sample Date	
24401 MARBELLA AVE	3/28/2012	
24402 NEPTUNE AVE	10/3/2012	4/24/2013
24402 PANAMA AVE	12/20/2012	5/13/2013
24402 RAVENNA AVE	12/8/2010	5/24/2012
24403 NEPTUNE AVE	11/8/2012	4/23/2013
24403 RAVENNA AVE	3/27/2013	
24405 MARBELLA AVE	3/21/2012	
24406 MARBELLA AVE	3/8/2012	8/14/2013
24406 NEPTUNE AVE	11/12/2010	1/25/2012
24406 PANAMA AVE	8/15/2012	6/6/2013
24409 NEPTUNE AVE	5/3/2012	7/10/2013
24409 RAVENNA AVE	3/20/2013	8/8/2013
24410 PANAMA AVE	7/18/2012	
24411 MARBELLA AVE	4/26/2012	
24411 PANAMA AVE	12/13/2012	5/6/2013
24413 NEPTUNE AVE	10/10/2012	5/30/2013
24413 RAVENNA AVE	9/19/2012	5/9/2013
24416 NEPTUNE AVE	7/12/2012	
24416 PANAMA AVE	5/17/2012	
24416 RAVENNA AVE	1/31/2013	7/18/2013
24419 NEPTUNE AVE	8/2/2012	5/28/2013
24419 RAVENNA AVE	6/14/2012	4/11/2013
24420 PANAMA AVE	12/6/2012	7/31/2013
24421 PANAMA AVE	3/13/2013	7/22/2013
24422 MARBELLA AVE	7/11/2012	
24422 NEPTUNE AVE	1/19/2011	8/7/2013
24422 RAVENNA AVE	12/19/2012	6/20/2013
24423 MARBELLA AVE	6/20/2012	
24423 NEPTUNE AVE	10/11/2012	5/7/2013
24423 RAVENNA AVE	10/25/2012	7/17/2013
24426 MARBELLA AVE	2/23/2012	
24426 NEPTUNE AVE	10/29/2010	4/18/2013
24426 PANAMA AVE	12/5/2012	6/13/2013
24426 RAVENNA AVE	2/27/2013	7/16/2013
24427 MARBELLA AVE	4/5/2012	
24427 PANAMA AVE	5/23/2013	
24429 NEPTUNE AVE	1/13/2011	8/6/2013
24429 RAVENNA AVE	7/29/2013	
24430 PANAMA AVE	11/29/2012	5/6/2013
24431 PANAMA AVE	1/16/2013	5/28/2013
24432 MARBELLA AVE	3/15/2012	
24433 MARBELLA AVE	3/1/2012	
24436 PANAMA AVE	6/27/2012	

Table B-1
Indoor Air Sample Locations Through August 31, 2013
Former Kast Property
Carson, California

Address	Sample Date	
24502 MARBELLA AVE	5/3/2012	8/15/2013
24502 NEPTUNE AVE	1/24/2013	7/11/2013
24502 PANAMA AVE	1/17/2013	
24502 RAVENNA AVE	10/6/2010	7/25/2012
24503 MARBELLA AVE	3/29/2012	
24503 NEPTUNE AVE	4/12/2012	6/26/2013
24503 PANAMA AVE	8/9/2012	
24503 RAVENNA AVE	11/7/2012	
24506 MARBELLA AVE	3/14/2012	7/1/2013
24508 NEPTUNE AVE	1/27/2011	
24508 PANAMA AVE	4/25/2012	
24508 RAVENNA AVE	3/28/2013	
24509 NEPTUNE AVE	7/5/2012	3/13/2013
24509 PANAMA AVE	2/6/2013	6/27/2013
24509 RAVENNA AVE	4/11/2012	8/14/2013
24512 MARBELLA AVE	1/19/2012	
24512 NEPTUNE AVE	7/25/2013	
24512 PANAMA AVE	11/14/2012	6/12/2013
24513 NEPTUNE AVE	8/1/2012	6/4/2013
24513 RAVENNA AVE	5/24/2012	7/24/2013
24516 MARBELLA AVE	5/23/2012	
24517 MARBELLA AVE	3/23/2012	8/19/2013
24518 NEPTUNE AVE	4/25/2013	7/15/2013
24518 RAVENNA AVE	7/11/2012	
24519 NEPTUNE AVE	6/28/2012	
24519 PANAMA AVE	6/5/2013	
24522 MARBELLA AVE	4/19/2012	
24522 NEPTUNE AVE	4/4/2012	6/5/2013
24522 PANAMA AVE	3/21/2013	
24522 RAVENNA AVE	8/22/2012	5/20/2013
24523 MARBELLA AVE	4/26/2012	8/27/2013
24523 NEPTUNE AVE	10/3/2012	2/21/2013
24523 RAVENNA AVE	8/23/2010	3/24/2011
24526 MARBELLA AVE	4/18/2012	
24528 NEPTUNE AVE	3/7/2012	8/19/2013
24529 NEPTUNE AVE	3/1/2012	8/22/2013
24529 PANAMA AVE	5/16/2012	
24529 RAVENNA AVE	8/17/2011	8/1/2013
24532 MARBELLA AVE	4/4/2012	8/22/2013
24532 NEPTUNE AVE	2/28/2013	6/18/2013
24532 PANAMA AVE	5/9/2012	8/20/2013
24532 RAVENNA AVE	11/15/2012	7/30/2013
24533 NEPTUNE AVE	3/6/2013	7/2/2013

Table B-1
Indoor Air Sample Locations Through August 31, 2013
Former Kast Property
Carson, California

Address	Sample Date	
24533 PANAMA AVE	9/19/2012	7/23/2013
24533 RAVENNA AVE	9/26/2012	8/26/2013
24602 MARBELLA AVE	5/31/2012	8/26/2013
24602 NEPTUNE AVE	3/3/2011	6/28/2012
24602 RAVENNA AVE	10/4/2012	4/9/2013
24603 MARBELLA AVE	1/14/2010	10/14/2010
24603 NEPTUNE AVE	3/6/2013	7/17/2013
24603 PANAMA AVE	10/18/2012	
24603 RAVENNA AVE	5/31/2012	
24606 MARBELLA AVE	1/12/2012	
24608 NEPTUNE AVE	5/17/2012	8/29/2013
24608 PANAMA AVE	4/5/2012	
24608 RAVENNA AVE	5/16/2012	8/21/2013
24609 NEPTUNE AVE	12/9/2010	5/2/2013
24609 PANAMA AVE	2/17/2011	
24609 RAVENNA AVE	9/20/2012	4/29/2013
24612 MARBELLA AVE	5/9/2012	
24612 NEPTUNE AVE	3/10/2011	8/12/2013
24612 PANAMA AVE	1/24/2013	5/16/2013
24612 RAVENNA AVE	10/31/2012	6/24/2013
24613 MARBELLA AVE	10/10/2012	4/18/2013
24613 NEPTUNE AVE	5/10/2012	8/28/2013
24613 PANAMA AVE	2/9/2011	9/12/2012
24613 RAVENNA AVE	5/19/2011	
24616 MARBELLA AVE	3/17/2011	8/5/2013
24617 MARBELLA AVE	5/2/2012	
24618 NEPTUNE AVE	1/26/2011	7/26/2012
24618 PANAMA AVE	4/18/2012	
24618 RAVENNA AVE	2/14/2013	6/24/2013
24619 NEPTUNE AVE	7/12/2012	
24619 PANAMA AVE	2/10/2011	12/7/2011
24619 RAVENNA AVE	2/28/2013	7/18/2013
24622 MARBELLA AVE	11/15/2012	6/6/2013
24622 NEPTUNE AVE	3/29/2012	8/20/2013
24623 MARBELLA AVE	1/27/2011	
24623 NEPTUNE AVE	3/30/2011	
24627 MARBELLA AVE	5/10/2012	
24628 MARBELLA AVE	6/22/2011	10/26/2011
24628 NEPTUNE AVE	2/6/2013	6/18/2013
24629 NEPTUNE AVE	2/2/2011	
24632 NEPTUNE AVE	2/7/2013	8/8/2013
24700 MARBELLA AVE	3/14/2013	
24702 PANAMA AVE	2/23/2011	6/11/2013

Table B-1
Indoor Air Sample Locations Through August 31, 2013
Former Kast Property
Carson, California

Address	Sample Date	
24703 MARBELLA AVE	4/19/2012	7/10/2013
24703 NEPTUNE AVE	4/25/2013	
24703 RAVENNA AVE	3/7/2013	7/23/2013
24706 MARBELLA AVE	2/20/2013	6/25/2013
24706 RAVENNA AVE	4/24/2013	
24707 MARBELLA AVE	9/6/2012	4/17/2013
24708 PANAMA AVE	8/15/2012	5/14/2013
24709 NEPTUNE AVE	8/9/2012	5/21/2013
24709 PANAMA AVE	3/7/2012	6/26/2013
24709 RAVENNA AVE	3/20/2013	8/13/2013
24710 MARBELLA AVE	5/2/2012	
24712 NEPTUNE AVE	1/17/2013	6/11/2013
24712 PANAMA AVE	2/24/2011	
24712 RAVENNA AVE	6/9/2011	
24713 MARBELLA AVE	3/7/2013	7/29/2013
24713 PANAMA AVE	4/4/2013	
24713 RAVENNA AVE	7/31/2013	
24715 NEPTUNE AVE	2/17/2011	8/6/2013
24716 MARBELLA AVE	5/23/2012	7/24/2013
24716 RAVENNA AVE	2/29/2012	
24717 MARBELLA AVE	7/25/2012	5/22/2013
24718 NEPTUNE AVE	2/23/2012	
24718 PANAMA AVE	10/17/2012	5/15/2013
24719 NEPTUNE AVE	7/18/2012	
24719 PANAMA AVE	9/27/2012	
24719 RAVENNA AVE	11/28/2012	
24722 MARBELLA AVE	6/6/2012	4/10/2013
24722 NEPTUNE AVE	4/12/2012	
24722 PANAMA AVE	4/25/2012	
24722 RAVENNA AVE	11/8/2012	5/1/2013
24723 MARBELLA AVE	6/20/2012	
24723 RAVENNA AVE	11/7/2012	4/22/2013
24725 NEPTUNE AVE	6/21/2012	
24726 MARBELLA AVE	12/13/2012	
24726 RAVENNA AVE	12/19/2012	
24728 NEPTUNE AVE	5/30/2013	
24728 PANAMA AVE	11/1/2012	6/17/2013
24729 NEPTUNE AVE	10/18/2012	
24729 RAVENNA AVE	8/23/2012	6/19/2013
24732 MARBELLA AVE	1/10/2013	5/22/2013
24732 NEPTUNE AVE	3/9/2011	
24732 PANAMA AVE	6/13/2012	
24732 RAVENNA AVE	6/21/2012	

Table B-1
Indoor Air Sample Locations Through August 31, 2013
Former Kast Property
Carson, California

Address	Sample Date	
24733 MARBELLA AVE	6/7/2012	4/3/2013
24733 PANAMA AVE	2/20/2013	7/22/2013
24733 RAVENNA AVE	7/26/2012	
24735 NEPTUNE AVE	11/14/2012	6/10/2013
24736 RAVENNA AVE	6/3/2013	
24737 MARBELLA AVE	12/6/2012	5/23/2013
24738 NEPTUNE AVE	2/22/2012	8/27/2013
24738 PANAMA AVE	9/6/2012	6/10/2013
24739 NEPTUNE AVE	9/20/2012	4/29/2013
24739 PANAMA AVE	10/25/2012	6/12/2013
24739 RAVENNA AVE	3/2/2011	7/2/2013
24741 MARBELLA AVE	6/14/2012	
24743 RAVENNA AVE	2/13/2013	7/9/2013
24744 MARBELLA AVE	3/14/2012	
24748 RAVENNA AVE	9/13/2012	4/15/2013
24749 RAVENNA AVE	12/16/2010	8/5/2013
24752 RAVENNA AVE	7/19/2012	
24803 NEPTUNE AVE	1/31/2013	7/11/2013
24803 PANAMA AVE	1/30/2013	8/7/2013
24809 NEPTUNE AVE	7/19/2012	
24809 PANAMA AVE	3/23/2012	
24812 PANAMA AVE	12/5/2012	4/30/2013
24813 PANAMA AVE	8/22/2012	6/3/2013
24815 NEPTUNE AVE	3/28/2012	
24818 PANAMA AVE	6/7/2012	3/28/2013
24819 PANAMA AVE	4/20/2011	8/21/2013
24822 PANAMA AVE	6/19/2013	
24828 PANAMA AVE	9/12/2012	4/15/2013
24829 PANAMA AVE	5/8/2013	
24832 PANAMA AVE	9/27/2012	5/15/2013
24833 PANAMA AVE	11/28/2012	5/8/2013
24838 PANAMA AVE	5/7/2013	
24904 NEPTUNE AVE	9/13/2012	6/17/2013
24912 NEPTUNE AVE	3/15/2012	
301 244TH ST	1/30/2013	6/25/2013
305 244TH ST	10/17/2012	4/23/2013
317 244TH ST	3/23/2011	
321 244TH ST	3/21/2013	8/1/2013
327 244TH ST	2/13/2013	7/30/2013
331 244TH ST	8/29/2012	4/30/2013
337 244TH ST	11/11/2010	
341 244TH ST	8/1/2012	6/4/2013
344 249TH ST	1/23/2013	5/13/2013

Table B-1
Indoor Air Sample Locations Through August 31, 2013
Former Kast Property
Carson, California

Address	Sample Date	
345 249TH ST	11/1/2012	4/22/2013
347 244TH ST	12/20/2012	5/9/2013
348 248TH ST	8/25/2010	1/12/2011
348 249TH ST	8/16/2012	
351 244TH ST	10/22/2010	4/11/2013
352 249TH ST	2/9/2011	
353 249TH ST	2/3/2011	7/9/2013
354 248TH ST	6/13/2012	
357 244TH ST	11/29/2012	6/20/2013
357 249TH ST	8/2/2012	6/13/2013
358 249TH ST	3/8/2012	8/28/2013
360 248TH ST	7/5/2012	
361 244TH ST	11/11/2010	8/13/2013
362 249TH ST	2/27/2013	
363 249TH ST	7/25/2013	
364 248TH ST	4/3/2013	
367 249TH ST	10/24/2012	5/1/2013
368 249TH ST	8/8/2012	5/20/2013
373 249TH ST	4/11/2012	
374 248TH ST	10/4/2012	4/8/2013
377 244TH ST	6/27/2012	
377 249TH ST	8/23/2012	5/14/2013
378 249TH ST	5/11/2011	2/23/2012
383 249TH ST	6/6/2012	4/17/2013
402 249TH ST	3/21/2012	7/1/2013
412 249TH ST	9/26/2012	5/21/2013

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
					Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
					Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
M24401 SVH	24401 MARBELLA AVE	2010-07-29	09:17	House	21		0.09	25	< 6	15	4	< 5.6	170	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 3.6
M24401 SVG	24401 MARBELLA AVE	2010-07-29	10:15	Garage	20		0.085	34	< 6.2	14	3.9	< 5.7	< 7.9	< 4.4	5.9	< 5.8	< 0.00023	< 0.12	< 3.6
M24401 SVB	24401 MARBELLA AVE	2010-07-29	10:52	Back	21		0.076	29	< 7.2	< 10	14	< 6.7	< 9.2	< 5.1	< 4.4	< 6.8	< 0.00027	< 0.14	< 4.2
M24401SVH	24401 MARBELLA AVE	2012-03-29	14:46	House	21		0.085	21	0.65 J, b	< 6.1	< 9.6	< 4	17	5.4	< 2.6	< 4	< 0.00016	< 0.082	< 10
M24401SVB	24401 MARBELLA AVE	2012-03-29	15:03	Back	21		0.15	30	0.45 J, b	< 5.7	< 9	< 3.7	< 5.2	< 2.9	< 2.4	5.5	< 0.00015	< 0.076	< 9.5
M24401SVG	24401 MARBELLA AVE	2012-03-29	15:14	Garage	20		1.1	23	0.91 J, b	< 6.2	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4.1	< 0.00016	< 0.082	< 10
M24401SVGD	24401 MARBELLA AVE	2012-03-29	15:14	Garage	20		1.1	38	1.3 J, b	< 6.2	< 9.7	4.2	9	< 3.1	< 2.6	< 4.1	< 0.00016	< 0.082	< 10
N24402SVH	24402 NEPTUNE AVE	2010-07-01	14:03	House	20		0.48	110	< 2.3	15	16	< 5.7	< 7.9	4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24402SVB	24402 NEPTUNE AVE	2010-07-01	14:47	Back	20		< 0.022	25	2.3 J	8.6	< 3.3	< 5.5	< 7.6	14	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
N24402SVG	24402 NEPTUNE AVE	2010-07-01	15:31	Garage	20		0.23	30	< 2.3	10	4.2	< 5.6	< 7.8	< 4.3	5.1	< 5.7	< 0.00023	< 0.11	< 3.6
N24402SVB	24402 NEPTUNE AVE	2012-10-04	15:08	Back	20		0.46	< 33	< 0.7	< 11	< 17	< 6.9	< 9.6	< 5.3	< 4.5	< 7	< 0.00028	< 0.14	< 18
N24402SVH	24402 NEPTUNE AVE	2012-10-04	15:13	House	20		0.85	< 28	< 0.59	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	0.35	< 15
N24402SVG	24402 NEPTUNE AVE	2012-10-04	16:03	Garage	20		0.52	< 29	2.7 J, b	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
N24402SVGD	24402 NEPTUNE AVE	2012-10-04	16:03	Garage	20		0.54	< 29	< 0.61	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
N24402SVHA	24402 NEPTUNE AVE	2013-04-25	10:07	House	22		0.087	29	0.69 J, b	< 7.9	< 12	< 5.1	< 7.1	43	< 3.3	< 5.2	< 0.00041	0.24	< 13
N24402SVB	24402 NEPTUNE AVE	2013-04-25	10:09	Back	22		0.9	< 26	0.6 J, b	< 8.4	< 13	< 5.4	< 7.5	< 4.2	< 3.5	< 5.5	< 0.00022	< 0.11	< 14
N24402SVBD	24402 NEPTUNE AVE	2013-04-25	10:09	Back	21		0.89	< 26	0.55 J, b	< 8.3	< 13	< 5.4	< 7.5	< 4.1	< 3.5	< 5.4	< 0.00022	< 0.11	< 14
N24402SVG	24402 NEPTUNE AVE	2013-04-25	10:35	Garage	22		0.41	< 28	< 0.58	< 8.9	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
P24402SVB	24402 PANAMA AVE	2010-11-16	09:03	Back	19		< 0.022	48	1.1 J, b	< 8.4	< 3.3	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
P24402SVG	24402 PANAMA AVE	2010-11-16	09:36	Garage	21		< 0.022	15	0.73 J, b	< 8.4	< 3.3	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
P24402SVH	24402 PANAMA AVE	2010-11-16	10:18	House	18		0.46	16	< 0.34	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
P24402SVH	24402 PANAMA AVE	2012-12-21	09:47	House	18		2.4	< 29	3.5 J, b	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
P24402SVG	24402 PANAMA AVE	2012-12-21	10:08	Garage	21		0.21	< 28	1.1 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24402SVB	24402 PANAMA AVE	2012-12-21	10:14	Back	18		0.048	< 28	2.1 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24402SVH	24402 PANAMA AVE	2013-05-14	14:48	House	19		2.5	< 32	11 J, b	< 10	< 16	< 6.7	< 9.2	< 5.1	< 4.4	< 6.8	< 0.00027	0.2	< 17
P24402SVB	24402 PANAMA AVE	2013-05-14	14:52	Back	18		0.076	< 30	< 11	< 9.5	< 15	7.2	< 8.6	< 4.8	< 4	< 6.2	< 0.00025	< 0.13	< 16
P24402SVG	24402 PANAMA AVE	2013-05-14	15:24	Garage	22		0.26	< 28	0.59 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24402SVB	24402 RAVENNA AVE	2009-10-02	15:36	Back	18		2.1	17	< 2.9	< 8.7	< 3.4	240	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023		< 3.6
R24402SVF	24402 RAVENNA AVE	2009-10-02	16:44	Front	18		1.6	32	< 3	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024		< 3.7
R24402SVB	24402 RAVENNA AVE	2010-12-09	11:14	Back	20		1.2	15	0.55 J, b	< 8.9	< 3.5	17	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
R24402SVF	24402 RAVENNA AVE	2010-12-09	11:54	Front	20		1.1	< 11	0.44 J, b	< 8.7	< 3.4	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
R24402SVFS	24402 RAVENNA AVE	2010-12-09	11:54	Front		20.6	1.11	< 17	< 1.3	< 17	< 17	1.7	< 1.7	3	< 1.7	2.6	< 0.15		< 17
R24402SVH	24402 RAVENNA AVE	2010-12-13	13:44	House	21		0.48	52	1 J, b	< 8.4	6.6	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	0.00024	< 0.11	< 3.5
R24402SVB	24402 RAVENNA AVE	2012-05-25	09:55	Back	21		0.99	< 20	< 0.33	< 6.2	< 9.8	16	< 5.6	< 3.1	< 2.6	< 4.1	< 0.00017	< 0.083	< 10
R24402SVBD	24402 RAVENNA AVE	2012-05-25	09:55	Back	21		1.1	< 20	< 0.33	< 6.2	< 9.8	16	< 5.6	< 3.1	< 2.6	< 4.1	< 0.00017	< 0.083	< 10
R24402SVF	24402 RAVENNA AVE	2012-05-25	10:28	Front	20		1.8	< 18	< 0.3	< 5.7	< 8.9	4.2	< 5.1	< 2.8	< 2.4	< 3.7	< 0.00015	< 0.076	< 9.4
R24402SVH	24402 RAVENNA AVE	2012-05-25	10:54	House	22		0.62	31	0.32 J, b	11	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
N24403SVF	24403 NEPTUNE AVE	2010-06-25	09:26	Front	18		1.9	33	< 2.3 UJ	11	< 3.4	7.1	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24403SVH	24403 NEPTUNE AVE	2010-06-25	10:04	House	20		0.095	26	< 2.4 UJ	16	4.6	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	21
N24403SVB	24403 NEPTUNE AVE	2010-06-25	11:12	Back	20		0.096	58	< 2.2 UJ	18	21	< 5.5	< 7.7	< 4.2	< 3.6	< 5.6	< 0.00023	< 0.11	< 3.5
N24403SVH	24403 NEPTUNE AVE	2012-11-09	09:48	House	21		0.19	< 28	1.3 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24403SVB	24403 NEPTUNE AVE	2012-11-09	10:18	Back	22		0.23	< 28	< 0.59	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
N24403SVBD	24403 NEPTUNE AVE	2012-11-09	10:18	Back	21		0.22	< 28	3.9 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24403SVF	24403 NEPTUNE AVE	2012-11-09	10:31	Front	19		1.5	< 28	< 0.58	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24403SVB	24403 NEPTUNE AVE	2013-04-24	10:19	Back	21		0.15	< 26	0.91 J, b	< 8.4	< 13	< 5.4	< 7.5	< 4.2	< 3.5	< 5.5	< 0.00022	< 0.11	< 14
N24403SVH	24403 NEPTUNE AVE	2013-04-24	10:29	House	22		0.18	< 28	2.1 J, b	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
N24403SVF	24403 NEPTUNE AVE	2013-04-24	10:49	Front	20		0.98	28	0.81 J, b	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
R24403SVH	24403 RAVENNA AVE	2010-06-14	14:21	House	19		1.2	< 12	< 2.6	< 9.8	< 3.8	< 6.4	< 8.8	< 4.9	< 4.2	< 6.4	< 0.00026	0.14	4.7
R24403SVF	24403 RAVENNA AVE	2010-06-14	14:26	Front	20		0.38	< 12	< 2.5	< 9.3	< 3.6	< 6	< 8.4	< 4.7	< 4	< 6.1	< 0.00025	< 0.12	< 3.9
R24403SVB	24403 RAVENNA AVE	2010-06-14	15:03	Back	19		1.4	15 b	< 2.3	< 8.8	< 3.5	< 5.7	< 8	< 4.4	5.9	< 5.8	< 0.00024	< 0.12	< 3.6
R24403SVB	24403 RAVENNA AVE	2013-03-28	09:55	Back	20		1.4	< 30	1.3 J, b	< 9.4	< 15	< 6.1	< 8.4	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 16
R24403SVBS	24403 RAVENNA AVE	2013-03-28	09:55	Back		20.2	1.29	23	< 0.84 U	< 20 U	< 20 U	< 2 U	< 2 U	3.4	< 2 U	< 2 U	< 0.16 U		< 20 U

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
					Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
					Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
R24403SVF	24403 RAVENNA AVE	2013-03-28	10:26	Front	21		0.27	58	1.2 J, b	< 9.1	30	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 15
R24403SVFS	24403 RAVENNA AVE	2013-03-28	10:26	Front		21.7	0.29	< 20 U	< 0.85 U	< 20 U	< 20 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 0.16 U		< 20 U
M24405SVF	24405 MARBELLA AVE	2010-11-10	12:36	Front	21		< 0.025	24	0.91 J, b	< 9.3	< 3.6	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 3.8
M24405SVH	24405 MARBELLA AVE	2010-11-10	14:10	House	21		0.024	21	0.43 J, b	< 8.8	< 3.5	< 5.7	120	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
M24405 SVF	24405 MARBELLA AVE	2012-03-22	15:21	Front	21		0.03	22	0.87 J, b	< 6.3	< 9.9	< 4.1	< 5.7	< 3.2	< 2.7	< 4.2	< 0.00017	< 0.084	< 10
M24405 SVH	24405 MARBELLA AVE	2012-03-22	15:27	House	21		0.1	< 17	6.3 J, b	< 5.5	< 8.6	< 3.6	19	< 2.8	< 2.3	3.8	< 0.00015	< 0.073	< 9.1
M24406SVB	24406 MARBELLA AVE	2010-09-17	08:58	Back	18		1.2	25	1.4 J, b	< 8.9	3.9	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24406SVG	24406 MARBELLA AVE	2010-09-17	09:39	Garage	20		< 0.023	89	1.6 J, b	11	5.2	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24406SVGD	24406 MARBELLA AVE	2010-09-17	09:39	Garage	20		< 0.023	140	1.7 J, b	20	11	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24406SVH	24406 MARBELLA AVE	2010-09-17	10:22	House	18		1.1	20	1.4 J, b	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	8.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24406SVG	24406 MARBELLA AVE	2012-03-09	15:13	Garage	21		0.24	< 19	1.8 J, b	< 6.1	< 9.5	4	< 5.5	< 3	< 2.6	< 4	< 0.00021	< 0.1	< 10
M24406SVH	24406 MARBELLA AVE	2012-03-09	15:40	House	21		0.44	< 19	1.4 J, b	< 6.2	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4	< 0.00021	< 0.1	< 10
M24406SVB	24406 MARBELLA AVE	2012-03-09	16:07	Back	21		1	27	1.6 J, b	12	< 8.8	< 3.6	< 5	22 j	< 2.4	< 3.7	< 0.00021	< 0.11	< 9.3
M24406SVBD	24406 MARBELLA AVE	2012-03-09	16:07	Back	20		1.2	< 19	1.6 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00022	< 0.11	< 9.8
M24406SVB	24406 MARBELLA AVE	2013-08-15	13:41	Back	20		2	30	0.97 J, b	< 9.4	< 15	< 6.1	< 8.4	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 16
M24406SVH	24406 MARBELLA AVE	2013-08-15	13:53	House	19		1.2	< 27	1.5 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
M24406SVG	24406 MARBELLA AVE	2013-08-15	14:22	Garage	21		0.37	< 28	1.2 J, b	< 9	< 14	6.4	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
N24406SVH	24406 NEPTUNE AVE	2010-04-29	13:45	House	21		0.11	16	< 6.2	27 b	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	7
N24406SVF	24406 NEPTUNE AVE	2010-04-29	14:31	Front	21		0.045	22	< 6.4	33 b	4.4	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	0.59	< 3.8
N24406SVFD	24406 NEPTUNE AVE	2010-04-29	14:31	Front	21		0.042	89	6.7 J	1200 E, b	210	< 5.9	< 8.2	9.4	< 3.8	< 6	< 0.00024	0.57	18
N24406SVB	24406 NEPTUNE AVE	2010-04-29	15:22	Back	21		< 0.024	98	80 j	25 b	< 3.6	42	< 8.2	6.4	7.6	< 6	< 0.00024	< 0.12	< 3.8
N24406SVH	24406 NEPTUNE AVE	2010-11-12	11:08	House	21		0.21	< 11	0.71 J, b	< 8.6	< 3.4	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
N24406SVB	24406 NEPTUNE AVE	2010-11-12	12:22	Back	21		0.099	< 14	0.73 J, b	< 11	< 4.3	< 7	< 9.8	< 5.4	< 4.6	< 7.1	< 0.00029	< 0.14	< 4.5
N24406SVBS	24406 NEPTUNE AVE	2010-11-12	12:22	Back		21.7	< 0.2	< 21	< 1.6	< 21	< 21	< 2.1	< 2.1	2.2	< 2.1	2.3	< 0.2		< 21
N24406SVH	24406 NEPTUNE AVE	2012-01-26	11:02	House	22		0.17	30	0.71 J, b	6.5	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	0.00017	< 0.08	< 10
N24406SVG	24406 NEPTUNE AVE	2012-01-26	11:44	Garage	23		0.08	38	< 0.41	15	< 12	< 5.1	< 7	< 3.9	< 3.3	< 5.1	0.00021	< 0.094	< 13
N24406SVB	24406 NEPTUNE AVE	2012-01-26	11:59	Back	22		0.087	19	< 0.32	< 6.2	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4	0.00017	< 0.082	< 10
N24406SVBS	24406 NEPTUNE AVE	2012-01-26	11:59	Back		21.6	< 0.17 U	23	< 1 U	< 18 U	< 18 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	3.3	< 0.17 U		< 18 U
P24406SVB	24406 PANAMA AVE	2009-09-17	11:47	Back	18		0.2	42	< 3.2	< 9.7	5.1	< 6.3	< 8.7	< 4.8	< 4.1	< 6.4	< 0.00026		< 4
P24406SVB-D	24406 PANAMA AVE	2009-09-17	11:47	Back	18		0.2	38	6 J	< 9.9	4.1	< 6.4	< 9	< 5	< 4.2	< 6.5	< 0.00026		< 4.1
P24406SVF	24406 PANAMA AVE	2009-09-17	13:22	Front	19		0.74	130	< 2.9	< 8.7	11	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023		< 3.6
P24406SVB	24406 PANAMA AVE	2010-07-21	09:22	Back	19		2.2	25	< 6	< 8.6	7.8	< 5.6	< 7.8	4.4 b	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
P24406SVH	24406 PANAMA AVE	2010-07-21	10:50	House	20		0.7	18	< 6.2	9	< 3.4	6.4	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	4.5
P24406SVB	24406 PANAMA AVE	2011-02-14	10:31	Back	20		1.4	38	< 0.32	< 8.5	7.6	< 5.5	< 7.7	< 4.2	< 3.6	< 5.6	< 0.00023	< 0.11	< 3.5
P24406SVH	24406 PANAMA AVE	2011-02-14	11:14	House	21		1	< 11	< 0.34	< 8.9	< 3.5	< 5.8	< 8	< 4.5	< 3.8	10	< 0.00024	< 0.12	< 3.7
P24406SVH	24406 PANAMA AVE	2012-08-16	15:05	House	19		1.2	< 19	3.9 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	4.9	< 0.00016	< 0.079	< 9.8
P24406SVF2	24406 PANAMA AVE	2012-08-16	15:24	Front	20		0.45	43	2.2 J, b	420	< 10	< 4.3	< 5.9	6.6	< 2.8	< 4.3	< 0.00018	< 0.088	< 11
P24406SVB	24406 PANAMA AVE	2012-08-16	15:48	Back	18		2.8	23	1.4 J, b	11	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
P24406SVB D	24406 PANAMA AVE	2012-08-16	15:48	Back	18		2.8	22	1.5 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
P24406SVH	24406 PANAMA AVE	2013-06-07	14:42	House	20		1.2	< 30	5.6 J, b	< 9.4	< 15	< 6.1	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 16
P24406SVF2	24406 PANAMA AVE	2013-06-07	14:46	Front	20		0.47	30	2.7 J, b	< 8.8	< 14	< 5.7	< 8	5.9	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
P24406SVB	24406 PANAMA AVE	2013-06-07	15:14	Back	18		2.4	< 27	< 2.5	< 8.6	< 13	< 5.5	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
N24409SVG	24409 NEPTUNE AVE	2010-07-16	09:09	Garage	20		0.17	41	< 6	16	9.9	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
N24409SVB	24409 NEPTUNE AVE	2010-07-16	10:03	Back	18		0.26	34	< 6.4	14	5	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	5.7
N24409SVBD	24409 NEPTUNE AVE	2010-07-16	10:03	Back	18		0.26	50	< 6.4	18	17	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
N24409SVH	24409 NEPTUNE AVE	2012-05-04	09:58	House	21		< 0.016	36	4.7 J, b	19	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	0.1	< 9.8
N24409SVG	24409 NEPTUNE AVE	2012-05-04	10:05	Garage	21		0.61	< 18	0.78 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
N24409SVGS	24409 NEPTUNE AVE	2012-05-04	10:05	Garage		21.1	0.595	< 17 U	< 0.73 U	< 17 U	< 17 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	2.2	< 0.16 U		< 17 U
N24409SVB	24409 NEPTUNE AVE	2012-05-04	10:39	Back	20		0.75	< 18	0.58 J, b	< 5.6	< 8.8	< 3.6	< 5	< 2.8	< 2.4	< 3.7	< 0.00015	< 0.074	< 9.3
N24409SVBS	24409 NEPTUNE AVE	2012-05-04	10:39	Back		20	0.773	< 16 U	< 0.69 U	< 16 U	< 16 U	1.7	< 1.6 U	< 1.6 U	< 1.6 U	2.2	< 0.15 U		< 16 U
N24409SVB	24409 NEPTUNE AVE	2013-07-11	15:40	Back	20		0.82	51	< 0.86	< 9.6	< 15	< 6.2	< 8.6	< 4.8	< 4	< 6.3	< 0.00025	< 0.13	< 16
N24409SVH	24409 NEPTUNE AVE	2013-07-11	15:43	House	21		0.96	< 29	< 0.83	< 9.2	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
					Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
					Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
N24409SVG	24409 NEPTUNE AVE	2013-07-11	16:02	Garage	21		1.1	< 28	< 0.79	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
R24409SVH	24409 RAVENNA AVE	2010-08-04	09:03	House	19		0.96	19	< 6.1	< 8.7	3.4	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
R24409SVB	24409 RAVENNA AVE	2010-08-04	09:44	Back	20		0.4	18	< 6.4	< 9.2	< 3.6	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
R24409SVG	24409 RAVENNA AVE	2010-08-04	10:21	Garage	20		< 0.023	22	< 6.1	< 8.7	< 3.4	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
R24409SVH	24409 RAVENNA AVE	2013-03-21	14:41	House	20		0.84	< 29	< 0.61 PF	< 9.3	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
R24409SVG	24409 RAVENNA AVE	2013-03-21	14:53	Garage	21		0.15	< 28	< 0.58 PF	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
R24409SVGD	24409 RAVENNA AVE	2013-03-21	14:53	Garage	21		0.15	< 28	< 0.58 PF	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
R24409SVB	24409 RAVENNA AVE	2013-03-21	15:04	Back	20		0.22	35	< 0.61 PF	< 9.3	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
R24409SVH	24409 RAVENNA AVE	2013-08-09	14:35	House	20		1.7	< 27	1.4 J, b	< 8.7	< 14	9.8	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
R24409SVB	24409 RAVENNA AVE	2013-08-09	15:04	Back	21		0.31	< 30	0.87 J, b	< 9.6	< 15	< 6.2	< 8.6	< 4.8	< 4.1	< 6.3	< 0.00026	< 0.13	< 16
R24409SVG	24409 RAVENNA AVE	2013-08-09	15:08	Garage	21		0.26	< 28	1.5 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
P24410SVH	24410 PANAMA AVE	2010-07-30	14:06	House	20		1	18 b	< 6.2	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24410SVB	24410 PANAMA AVE	2010-07-30	14:58	Back	19		1.1	18 b	< 6.4	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
P24410SVG	24410 PANAMA AVE	2010-07-30	15:02	Garage	19		1.8	20 b	< 6.2	17	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24410SVGS	24410 PANAMA AVE	2010-07-30	15:02	Garage		21.2	1.23	< 17	< 1.4	< 17	< 17	< 1.7	1.9	< 1.7	< 1.7	2.2	< 0.16		< 17
P24410SVH	24410 PANAMA AVE	2012-07-19	09:52	House	20		0.89	< 19	< 3 PF	< 6.1	< 9.6	< 4	< 5.5	< 3.1	< 2.6	< 4	< 0.00016	< 0.082	< 10
P24410SVG	24410 PANAMA AVE	2012-07-19	09:53	Garage	17		2.7	< 20	< 3.1 PF	< 6.2	< 9.8	< 4	< 5.6	< 3.1	< 2.6	< 4.1	< 0.00017	< 0.083	< 10
P24410SVGD	24410 PANAMA AVE	2012-07-19	09:53	Garage	18		2.8	< 20	< 3.1 PF	< 6.2	< 9.8	< 4	< 5.6	< 3.1	< 2.6	< 4.1	< 0.00017	< 0.083	< 10
P24410SVB	24410 PANAMA AVE	2012-07-19	10:25	Back	19		1.8	< 18	< 2.8 PF	< 5.6	< 8.8	4.2	< 5.1	< 2.8	< 2.4	< 3.7	< 0.00015	< 0.075	< 9.3
M24411SVH	24411 MARBELLA AVE	2010-09-13	13:36	House	21		0.044	44	2.2 J	23	11	< 5.8	19	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	5.1
M24411SVF	24411 MARBELLA AVE	2010-09-13	14:19	Front	21		< 0.025	69	2.8 J	22	6.8	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	6.4
M 24411 SVB2	24411 MARBELLA AVE	2011-02-03	13:41	Back	21		< 0.024	13	25 b	< 8.9	< 3.5	< 5.8	< 8	48	8.4	< 5.9	< 0.00024	< 0.12	< 3.7
M24411SVF	24411 MARBELLA AVE	2012-04-27	13:58	Front	21		< 0.02	24	1.4 J, b	< 5.9	< 9.2	< 3.8	< 5.3	< 2.9	< 2.5	< 3.8	< 0.0002	< 0.098	< 9.7
M24411SVFD	24411 MARBELLA AVE	2012-04-27	13:58	Front	22		< 0.02	< 18	0.91 J, b	< 5.9	< 9.2	< 3.8	< 5.3	< 2.9	< 2.5	< 3.8	< 0.0002	< 0.1	< 9.7
M24411SVB2	24411 MARBELLA AVE	2012-04-27	14:24	Back	21		0.041	21	2 J, b	< 5.5	< 8.6	< 3.6	< 5	< 2.8	< 2.3	< 3.6	< 0.0002	< 0.098	< 9.1
P24411SVH	24411 PANAMA AVE	2010-07-06	09:31	House	17		2.7	56	< 2.3 Q	11	5	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	66
P24411SVG	24411 PANAMA AVE	2010-07-06	10:24	Garage	19		1.9	16	2.7 J,Q, b	< 8.8	< 3.4	< 5.7	74	190	34	< 5.8	< 0.00023	< 0.12	< 3.6
P24411SVB	24411 PANAMA AVE	2010-07-06	11:08	Back	19		1.2	21	< 2.3 Q	< 8.8	< 3.4	< 5.7	8.5	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24411SVH	24411 PANAMA AVE	2012-12-14	10:07	House	18		3.6	< 27	1 J, b	< 8.4	< 13	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	0.18	< 14
P24411SVB	24411 PANAMA AVE	2012-12-14	10:13	Back	17		3.3	< 29	1.6 J, b	< 9.3	< 15	< 6	< 8.4	< 4.7	< 4	< 6.1	< 0.00025	< 0.12	< 15
P24411SVBD	24411 PANAMA AVE	2012-12-14	10:13	Back	18		3.1	< 28	1.1 J, b	< 8.9	< 14	< 5.8	< 8	6.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24411SVG	24411 PANAMA AVE	2012-12-14	10:50	Garage	20		1.7	< 27	1.9 J, b	< 8.5	< 13	< 5.5	48	< 4.2	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
P24411SVG	24411 PANAMA AVE	2013-05-07	10:15	Garage	20		1.9	< 28	3.2 J, b	< 8.7	< 14	< 5.7	71	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
P24411SVHA	24411 PANAMA AVE	2013-05-07	10:35	House	19		0.41	220	3.7 J, b	< 8.9	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
P24411SVB	24411 PANAMA AVE	2013-05-07	10:55	Back	19		2.2	37	2.2 J, b	< 8.5	< 13	< 5.5	< 7.6	< 4.2	< 3.6	< 5.6	< 0.00022	< 0.11	< 14
P24411SVBD	24411 PANAMA AVE	2013-05-07	10:55	Back	19		2.2	< 27	1.3 J, b	< 8.4	< 13	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
N24413SVH	24413 NEPTUNE AVE	2010-11-01	09:20	House	19		2.5	20	< 1.4	11	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24413SVHD	24413 NEPTUNE AVE	2010-11-01	09:20	House	19		2.5	15	< 1.4	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24413SVF	24413 NEPTUNE AVE	2010-11-01	10:01	Front	20		0.18	120	< 1.4	< 9	< 3.5	< 5.8	< 8.1	4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24413SVB	24413 NEPTUNE AVE	2010-11-01	10:34	Back	20		0.89	< 11	< 1.4	12	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
N24413SVB	24413 NEPTUNE AVE	2012-10-11	14:59	Back	20		1.2	< 29	< 0.61	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
N24413SVH	24413 NEPTUNE AVE	2012-10-11	15:15	House	18		2.3	< 29	< 0.6	< 9.1	< 14	< 5.9	< 8.2	< 4.6	3.9	< 6	< 0.00024	< 0.12	< 15
N24413SVHD	24413 NEPTUNE AVE	2012-10-11	15:15	House	18		2.4	< 29	< 0.6	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
N24413SVF	24413 NEPTUNE AVE	2012-10-11	15:34	Front	20		0.96	100	3.4 J, b	< 9.7	< 15	< 6.3	< 8.8	1200	< 4.1	< 6.4	< 0.00026	< 0.13	< 16
N24413 SVH	24413 NEPTUNE AVE	2013-05-31	14:46	House	20		1.2	33	6.3 J, b	< 8.9	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
N24413SVHS	24413 NEPTUNE AVE	2013-05-31	14:46	House		21	1.2	24	< 0.71 U	< 20 U	< 20 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 0.16 U		< 20 U
N24413 SVB	24413 NEPTUNE AVE	2013-05-31	15:09	Back	19		2	110	3 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
N24413 SVF	24413 NEPTUNE AVE	2013-05-31	15:22	Front	20		1.7	82	3.2 J, b	< 9.6	< 15	< 6.2	< 8.6	56	< 4	< 6.3	< 0.00025	< 0.13	< 16
R24413SVH	24413 RAVENNA AVE	2010-07-12	09:12	House	19		1.2	18	< 2.4 Q	< 9.1	< 3.6	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 3.8
R24413SVG	24413 RAVENNA AVE	2010-07-12	09:55	Garage	20		0.086	43	< 2.4 Q	11	7.2	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 3.8
R24413SVB	24413 RAVENNA AVE	2010-07-12	10:38	Back	10		12	< 11	< 2.3 Q	< 8.7	< 3.4	< 5.6	< 7.8	< 4.3	4.1	< 5.7	< 0.00023	< 0.12	< 3.6
R24413SVG	24413 RAVENNA AVE	2012-09-20	14:50	Garage	19		1.7	< 29	1.9 J, b	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
R24413SVGD	24413 RAVENNA AVE	2012-09-20	14:50	Garage	19		1.7	< 29	0.83 J, b	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
R24413SVH	24413 RAVENNA AVE	2012-09-20	15:06	House	15		4.9	< 28	1 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24413SVB	24413 RAVENNA AVE	2012-09-20	15:31	Back	12		9.8	34	1 J, b	11	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
R24413SVG	24413 RAVENNA AVE	2013-05-10	14:45	Garage	21		1	46	1.8 J, b	< 8.7	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
R24413SVH	24413 RAVENNA AVE	2013-05-10	14:45	House	18		4.6	30	8 J, b	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00055		< 15
R24413SVB	24413 RAVENNA AVE	2013-05-10	15:14	Back	10		13	< 31	1.4 J, b	< 9.8	< 15	< 6.4	< 8.8	< 4.9	< 4.2	< 6.4	< 0.00026	< 0.13	< 16
N24416SVBA	24416 NEPTUNE AVE	2011-01-21	09:15	Back	20		< 0.023	36	< 1.3	< 8.8	< 3.4	8	< 7.9	< 4.4	< 3.7	< 5.8	0.0014	< 0.12	< 3.6
N24416SVF	24416 NEPTUNE AVE	2011-01-21	10:01	Front	20		0.042	21	< 1.3	< 8.6	< 3.4	5.8	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
N24416SVFD	24416 NEPTUNE AVE	2011-01-21	10:01	Front	20		0.036	24	2 J	< 8.6	< 3.4	8.4	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
N24416SVH	24416 NEPTUNE AVE	2011-01-21	11:00	House	19		0.42	71	2.1 J	< 9.1	7.7	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
N24416SVH	24416 NEPTUNE AVE	2012-07-13	15:12	House	14		4.2	< 20	< 3.2	< 6.4	< 10	5.2	< 5.8	< 3.2	< 2.7	< 4.2	< 0.00017	< 0.086	< 11
N24416SVF	24416 NEPTUNE AVE	2012-07-13	15:37	Front	20		0.55	22	< 3.1	< 6.2	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4	< 0.00016	< 0.082	< 10
P24416SVH	24416 PANAMA AVE	2010-09-13	08:57	House	17		3.7	25	2.8 J	< 8.3	5.4	< 5.4	< 7.5	< 4.1	< 3.5	< 5.4	< 0.00022	< 0.11	< 3.4
P24416SVF	24416 PANAMA AVE	2010-09-13	09:32	Front	21		0.19	< 11	7.5 J	17	< 3.4	< 5.6	< 7.8	13	27	< 5.7	< 0.00023	< 0.11	< 3.6
P24416SVFS	24416 PANAMA AVE	2010-09-13	09:32	Front		21.6	0.2	25	0.86 J	< 17	< 17	< 1.7	< 1.7	< 1.7	< 1.7	2.3	< 0.15		< 17
P24416SVB	24416 PANAMA AVE	2010-09-13	10:13	Back	20		0.13	31	1.6 J	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
P24416SVF	24416 PANAMA AVE	2012-05-18	09:55	Front	21		0.29	< 20	0.68 J, b	< 6.2	< 9.8	< 4	< 5.6	< 3.1	< 2.6	< 4.1	< 0.00017	< 0.083	< 10
P24416SVFD	24416 PANAMA AVE	2012-05-18	09:55	Front	21		0.28	< 20	0.61 J, b	< 6.2	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4.1	< 0.00016	< 0.082	< 10
P24416SVH	24416 PANAMA AVE	2012-05-18	10:15	House	18		3.4	< 18	0.6 J, b	< 5.8	< 9	< 3.7	< 5.2	< 2.9	< 2.4	< 3.8	< 0.00017	< 0.083	< 9.5
P24416SVB	24416 PANAMA AVE	2012-05-18	10:44	Back	21		0.74	< 19	0.42 J, b	< 5.9	< 9.2	< 3.8	< 5.3	< 3	< 2.5	< 3.9	< 0.00016	< 0.078	< 9.8
R24416SVF	24416 RAVENNA AVE	2009-09-19	14:20	Front	17		1.9	18	5.8 J	280	3.7	< 4.5	< 6.3	8.2	< 3	< 4.6	< 0.00019		< 2.9
R24416SVB	24416 RAVENNA AVE	2009-09-19	15:16	Back	21		0.18	< 11	< 2.8	< 8.5	< 3.3	< 5.5	< 7.7	< 4.2	< 3.6	< 5.6	< 0.00023		< 3.5
R24416SVB	24416 RAVENNA AVE	2010-07-26	09:24	Back	20		0.38	14	9.3 J, b	100	12	< 5.7	< 7.9	9.5	< 3.7	< 5.8	< 0.00023	< 0.12	14
R24416SVH	24416 RAVENNA AVE	2010-07-26	10:00	House	20		0.2	30	< 6	< 8.6	3.8	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
R24416SVF	24416 RAVENNA AVE	2010-07-26	10:40	Front	16		3.1	260	5.8 J, b	31	19	< 4.9	< 6.8	< 3.8	220	< 5	< 0.0002	< 0.1	< 3.1
R24416SVF	24416 RAVENNA AVE	2010-10-29	10:10	Front	21		< 0.024	28	< 1.4	< 8.9	4.1	< 5.8	< 8	< 4.5	< 3.8	< 5.9	0.00024	< 0.12	< 3.7
R24416SVH	24416 RAVENNA AVE	2013-02-01	09:44	House	20		0.79	< 28	2.3 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00036	< 0.18	< 14
R24416SVB	24416 RAVENNA AVE	2013-02-01	09:54	Back	22		0.16	36	1.6 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24416SVBD	24416 RAVENNA AVE	2013-02-01	09:54	Back	21		0.16	41	0.81 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24416SVF2	24416 RAVENNA AVE	2013-02-01	10:17	Front	21		0.19	< 28	0.74 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24416SVH	24416 RAVENNA AVE	2013-07-19	09:41	House	20		0.87	< 28	1.6 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24416SVF2	24416 RAVENNA AVE	2013-07-19	09:45	Front	19		1.6	< 30	1.4 J, b	< 9.5	< 15	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16
R24416SVF2D	24416 RAVENNA AVE	2013-07-19	09:45	Front	19		1.5	< 30	1.3 J, b	< 9.5	< 15	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16
R24416SVB	24416 RAVENNA AVE	2013-07-19	10:23	Back	21		0.39	1300 E	1 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24419SVH	24419 NEPTUNE AVE	2010-06-16	09:13	House	21		0.17	53	< 2.4	14	13	< 5.8	< 8	< 4.5	8.9	< 5.9	< 0.00024	< 0.12	< 3.7
N24419SVF	24419 NEPTUNE AVE	2010-06-16	10:13	Front	20		0.16	32	< 2.4	< 8.9	< 3.5	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24419SVB	24419 NEPTUNE AVE	2010-06-16	11:03	Back	19		0.1	30	< 2.4	10	4	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
N24419SVH	24419 NEPTUNE AVE	2012-08-03	09:46	House	21		0.21	23	< 3	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
N24419SVF	24419 NEPTUNE AVE	2012-08-03	10:11	Front	20		2.2	< 26	< 4.1	92 j	< 13	< 5.3	< 7.4	< 4.1	< 3.5	< 5.4	< 0.00017	< 0.084	< 14
N24419SVFS	24419 NEPTUNE AVE	2012-08-03	10:11	Front		20.2	2.26	< 21 U	< 0.88 U	< 21 U	< 21 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.17 U		< 21 U
N24419SVB	24419 NEPTUNE AVE	2012-08-03	10:31	Back	19		2.5	< 19	< 3	< 6	< 9.3	1400	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
N24419SVBS	24419 NEPTUNE AVE	2012-08-03	10:31	Back		19.4	2.64	< 21 U	< 0.86 U	< 21 U	< 21 U	1100 D	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.16 U		< 21 U
N24419SVH	24419 NEPTUNE AVE	2013-05-29	14:50	House	22		0.16	42	< 1.7	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.4	< 3.8	< 0.00021	< 0.1	< 9.6
N24419SVB	24419 NEPTUNE AVE	2013-05-29	14:52	Back	20		2.5	39	< 2.5	< 8.7	< 14	160	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
N24419SVBS	24419 NEPTUNE AVE	2013-05-29	14:52	Back		19.9	2.49	23	< 0.71 U	< 20 U	< 20 U	130	< 2 U	< 2 U	< 2 U	< 2 U	< 0.16 U		< 20 U
N24419SVF	24419 NEPTUNE AVE	2013-05-29	15:14	Front	20		1.7	33	< 2.6	10	< 14	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 15
R24419SVB	24419 RAVENNA AVE	2009-09-21	15:24	Back	21		0.2	< 7.4	< 1.9	< 5.8	< 2.3	20	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016		< 2.4
R24419SVF	24419 RAVENNA AVE	2009-09-21	16:49	Front	21		< 0.019	< 9.1	< 2.4	< 7.2	< 2.8	20	< 6.5	< 3.6	3.2	< 4.7	< 0.00019	< 0.096	< 3
R24419SVF	24419 RAVENNA AVE	2010-07-12	14:47	Front	21		0.043	18	< 2.4 Q	< 9.1	< 3.6	18	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
R24419SVB	24419 RAVENNA AVE	2010-07-12	15:27	Back	21		0.37	39	< 2.4 Q	15	13	6.1	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 3.8
R24419 SVHA	24419 RAVENNA AVE	2011-02-09	14:06	House	20		0.26	< 11	1.6 J, b	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
R24419 SVF	24419 RAVENNA AVE	2011-02-09	14:38	Front	21		0.053	< 11	1.2 J, b	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
					Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
					Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
R24419 SVB	24419 RAVENNA AVE	2011-02-09	15:19	Back	21		0.24	< 11	0.55 J, b	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
R24419SVF	24419 RAVENNA AVE	2012-06-15	14:37	Front	21		0.067	< 19	< 0.31	< 5.9	< 9.2	11	< 5.3	< 3	< 2.5	< 3.9	< 0.00016	< 0.078	< 9.8
R24419SVFD	24419 RAVENNA AVE	2012-06-15	14:37	Front	21		0.063	< 19	< 0.31	< 5.9	< 9.2	12	< 5.3	< 3	< 2.5	< 3.9	< 0.00016	< 0.078	< 9.8
R24419SVB	24419 RAVENNA AVE	2012-06-15	14:54	Back	20		0.41	< 20	< 0.32	< 6.2	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4.1	< 0.00016	< 0.082	< 10
R24419SVHA	24419 RAVENNA AVE	2012-06-15	15:19	House	20		0.9	< 19	< 0.32	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
R24419SVHA	24419 RAVENNA AVE	2013-04-12	14:47	House	20		0.81	< 28	< 0.58	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
R24419SVF	24419 RAVENNA AVE	2013-04-12	14:52	Front	22		0.06	< 28	< 0.59	< 9	< 14	25	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24419SVB	24419 RAVENNA AVE	2013-04-12	15:19	Back	21		0.33	< 28	0.61 J, b	< 8.9	< 14	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24420SVB	24420 PANAMA AVE	2010-09-15	14:19	Back	18		1.2	< 11	< 1.3	10	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24420SVFA	24420 PANAMA AVE	2011-02-17	13:51	Front	21		0.058	< 11	< 0.33	< 8.7	< 3.4	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
P24420SVB	24420 PANAMA AVE	2011-02-17	14:25	Back	21		0.35	26	< 0.34	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24420SVBD	24420 PANAMA AVE	2011-02-17	14:25	Back	20		0.34	< 11	< 0.34	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24420SVB	24420 PANAMA AVE	2012-12-07	10:00	Back	21		0.52	53	2.6 J, b	< 8.8	18	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	0.00028	< 0.12	< 14
P24420SVHA	24420 PANAMA AVE	2012-12-07	10:23	House	21		0.38	< 27	1.4 J, b	34	< 13	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
P24420SVFA	24420 PANAMA AVE	2012-12-07	10:56	Front	20		0.3	< 28	1.2 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
P24420SVB	24420 PANAMA AVE	2013-08-01	09:57	Back	19		1.9	< 29	< 0.81	< 9.1	< 14	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 15
P24420SVBS	24420 PANAMA AVE	2013-08-01	09:57	Back		20.3	1.99	< 21 U	< 0.74 U	< 21 U	< 21 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.16 U		< 21 U
P24420SVHA	24420 PANAMA AVE	2013-08-01	10:03	House	20		0.58	< 27	< 0.76	< 8.5	< 13	< 5.5	< 7.6	< 4.2	< 3.6	< 5.6	< 0.00022	< 0.11	< 14
P24420SVFA	24420 PANAMA AVE	2013-08-01	10:26	Front	20		0.22	48	1.6 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24421SVB	24421 PANAMA AVE	2010-10-19	13:50	Back	19		1.1	< 11	< 1.4	11	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
P24421SVBD	24421 PANAMA AVE	2010-10-19	13:50	Back	19		1.1	16	< 1.4	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
P24421SVF	24421 PANAMA AVE	2010-10-19	14:27	Front	18		1.5	13	< 1.3	8.4	< 3.3	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
P24421SVHA	24421 PANAMA AVE	2011-03-03	13:34	House	20		0.19	20	2 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	0.12	< 15
P24421SVB	24421 PANAMA AVE	2011-03-03	15:03	Back	21		0.31	< 11	1 J, b	< 8.4	< 13	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
P24421SVB	24421 PANAMA AVE	2013-03-14	09:48	Back	20		0.76	< 28	0.88 J, b	< 8.9	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
P24421SVBS	24421 PANAMA AVE	2013-03-14	09:48	Back		21.2	0.798	< 20 U	< 0.86 U	< 20 U	< 20 U	< 2 U	2.3	< 2 U	< 2 U	< 2 U	< 0.16 U		< 20 U
P24421SVHA	24421 PANAMA AVE	2013-03-14	10:02	House	21		0.46	< 26	0.76 J, b	< 8.2	< 13	< 5.3	< 7.4	< 4.1	< 3.5	< 5.4	< 0.00022	0.13	< 14
P24421SVF	24421 PANAMA AVE	2013-03-14	10:29	Front	21		0.36	< 27	0.77 J, b	< 8.6	< 13	< 5.5	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
P24421SVFS	24421 PANAMA AVE	2013-03-14	10:29	Front		21.7	0.371	< 19 U	< 0.81 U	< 19 U	< 19 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	2.1	< 0.16 U		< 19 U
P24421SVB	24421 PANAMA AVE	2013-08-02	11:25	Back	20		1.3	34	< 0.83	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
P24421SVHA	24421 PANAMA AVE	2013-08-02	11:51	House	20		0.59	< 28	< 0.78	< 8.7	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	0.16	< 14
P24421SVF	24421 PANAMA AVE	2013-08-02	12:15	Front	20		1	< 28	< 0.81	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
M24422SVB	24422 MARBELLA AVE	2010-09-15	09:47	Back	20		0.064	22	< 1.4	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00045	< 0.23	< 3.7
M24422SVF	24422 MARBELLA AVE	2010-09-15	10:20	Front	19		0.86	< 11	< 1.4	13	< 3.5	18	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00053	< 0.26	< 3.7
M24422SVFS	24422 MARBELLA AVE	2010-09-15	10:20	Front		20.4	1.05	23	< 1.4	< 17	< 17	14	< 1.7	< 1.7	< 1.7	2.3	< 0.16		< 17
M24422SVH	24422 MARBELLA AVE	2010-09-15	11:34	House	20		0.29	< 11	4.6 J, b	< 8.7	< 3.4	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
M24422SVH	24422 MARBELLA AVE	2012-07-12	10:05	House	21		0.46	< 19	< 3	6.1	< 9.5	< 3.9	< 5.5	4.6	< 2.6	< 4	< 0.00016	< 0.08	< 10
M24422SVB	24422 MARBELLA AVE	2012-07-12	10:13	Back	21		0.16	< 19	< 3.1	< 6.2	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4	< 0.00016	< 0.082	< 10
M24422SVBS	24422 MARBELLA AVE	2012-07-12	10:13	Back		21.5	0.177	< 21 U	< 0.87 U	< 21 U	< 21 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.17 U		< 21 U
M24422SVF	24422 MARBELLA AVE	2012-07-12	10:57	Front	19		1.9	< 19	< 3	< 6	< 9.3	4.5	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
M24422SVFS	24422 MARBELLA AVE	2012-07-12	10:57	Front		19.6	1.94	< 20 U	< 0.82 U	< 20 U	< 20 U	3.8	< 2 U	< 2 U	< 2 U	< 2 U	< 0.16 U		< 20 U
N24422SVB	24422 NEPTUNE AVE	2009-09-21	11:40	Back	16		< 0.026	16	< 3.3	< 9.9	< 3.9	48	< 9	< 5	< 4.2	< 6.5	< 0.00026		< 4.1
N24422SVF	24422 NEPTUNE AVE	2009-09-21	12:50	Front	18		2.5	< 11	< 3	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024		< 3.8
N24422SVH	24422 NEPTUNE AVE	2010-07-09	09:27	House	17		0.94	< 11	< 2.3 Q, uj	< 8.8	< 3.4	< 5.7	< 7.9	17	3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24422SVF	24422 NEPTUNE AVE	2010-07-09	10:12	Front	19		1.8	18	< 2.4 Q, uj	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24422SVB	24422 NEPTUNE AVE	2010-07-09	10:51	Back	18		0.093	21	< 2.4 Q, uj	< 9	< 3.5	11	< 8.1	< 4.5	5.8	< 5.9	0.00031	< 0.12	< 3.7
N24422SVB	24422 NEPTUNE AVE	2011-01-20	15:21	Back	21		< 0.025	13	< 1.4	13	< 3.7	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 3.9
N24422SVBD	24422 NEPTUNE AVE	2011-01-20	15:21	Back	21		< 0.025	< 12	< 1.4	20	< 3.7	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 3.9
N24422SVH	24422 NEPTUNE AVE	2011-01-20	15:38	House	19		0.64	15	< 1.3	15	< 3.4	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 3.6
N24422SVF	24422 NEPTUNE AVE	2011-01-20	15:58	Front	21		0.29	< 11	< 1.3	10	< 3.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
N24422SVH	24422 NEPTUNE AVE	2013-08-08	09:54	House	17		2	32	< 0.77	< 8.6	< 13	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
N24422SVB	24422 NEPTUNE AVE	2013-08-08	09:58	Back	20		0.98	< 30	< 0.86	< 9.6	< 15	13	< 8.6	< 4.8	< 4.1	< 6.3	< 0.00026	< 0.13	< 16

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

Sample ID	Address	Sample Date	Sample Time	Location	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
Analyte					Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
Units					MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
Frequency of Detection					100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
N24422SVBS	24422 NEPTUNE AVE	2013-08-08	09:58	Back		20.5	1	< 22 U	< 0.77 U	< 22 U	< 22 U	12	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 0.17 U		< 22 U
N24422SVF	24422 NEPTUNE AVE	2013-08-08	10:22	Front	19		1.8	< 29	< 0.82	< 9.2	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24422SVH	24422 RAVENNA AVE	2011-01-19	09:32	House	18		1	< 15	2 J, b	< 12	< 4.7	< 7.9	< 11	< 6.1	< 5.1	< 8	< 0.00032	< 0.16	< 5
R24422SVBA	24422 RAVENNA AVE	2011-01-19	10:20	Back	20		0.076	79	2 J, b	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	0.0025	< 0.12	< 3.8
R24422SVF	24422 RAVENNA AVE	2011-01-19	10:57	Front	21		< 0.023	17	< 1.3	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24422SVFD	24422 RAVENNA AVE	2011-01-19	10:57	Front	21		< 0.023	23	< 1.3	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24422SVBA	24422 RAVENNA AVE	2012-12-20	09:57	Back	21		0.54	< 58	2.2 J, b	< 18	< 29	< 12	< 16	< 9.1	< 7.7	< 12	< 0.00048	< 0.24	< 30
R24422SVBAD	24422 RAVENNA AVE	2012-12-20	09:57	Back	21		0.53	< 28	0.63 J, b	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
R24422SVH	24422 RAVENNA AVE	2012-12-20	10:11	House	19		1.7	59	0.64 J, b	10	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24422SVF	24422 RAVENNA AVE	2012-12-20	10:35	Front	21		0.038	< 27	< 0.56	< 8.6	< 13	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
R24422SVBA	24422 RAVENNA AVE	2013-06-21	09:45	Back	20		1.3	30	1 J, b	< 9.4	< 15	< 6.1	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 16
R24422SVBAD	24422 RAVENNA AVE	2013-06-21	09:45	Back	20		1.3	< 30	0.94 J, b	< 9.6	< 15	< 6.2	< 8.6	< 4.8	< 4.1	< 6.3	< 0.00026	< 0.13	< 16
R24422SVH	24422 RAVENNA AVE	2013-06-21	09:45	House	18		1.9	< 27	0.78 J, b	< 8.5	< 13	< 5.5	< 7.7	< 4.2	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
R24422SVF	24422 RAVENNA AVE	2013-06-21	10:11	Front	21		0.058	34	< 0.8	< 8.9	< 14	< 5.8	< 8	78	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
M24423SVH	24423 MARBELLA AVE	2010-06-02	13:55	House	21		0.03	26	< 4	< 8.6	4.9	< 5.6	150	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
M24423SVB	24423 MARBELLA AVE	2010-06-02	14:36	Back	20		0.034	19	< 4.2	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
M24423SVG	24423 MARBELLA AVE	2010-06-02	15:41	Garage	20		< 0.024	34	< 4.2	< 9.1	3.9	< 5.9	< 8.2	< 4.6	5.6	< 6	< 0.00024	< 0.12	< 3.8
M24423SVG	24423 MARBELLA AVE	2012-06-21	10:00	Garage	22		0.047	< 19	1.2 J, b	< 6.1 PF	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	0.00018	< 0.08	< 10
M24423SVGS	24423 MARBELLA AVE	2012-06-21	10:00	Garage		21.6	< 0.17 U	< 18 U	< 0.76 U	< 18 U	< 18 U	< 1.8 U	3.3	< 1.8 U	< 1.8 U	2.1	< 0.17 U		< 18 U
M24423SVH	24423 MARBELLA AVE	2012-06-21	10:06	House	22		0.12	< 18	0.88 J, b	< 5.8 PF	< 9.1	< 3.8	260 PE	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
M24423SVB	24423 MARBELLA AVE	2012-06-21	10:52	Back	22		0.033	< 19	0.54 J, b	< 6.1 PF	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00022	< 0.11	< 10
M24423SVBS	24423 MARBELLA AVE	2012-06-21	10:52	Back		21.5	< 0.16 U	< 17 U	< 0.72 U	29 j	< 17 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	2.1	< 0.16 U		27
N24423SVH	24423 NEPTUNE AVE	2010-09-23	14:34	House	1.7		14	93	< 15	< 21	13	930	< 19	180	16	< 14	17	< 0.11	81
N24423SVF	24423 NEPTUNE AVE	2010-09-23	15:18	Front	20		< 0.023	99	< 6.2	9.5	7.8	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24423SVB	24423 NEPTUNE AVE	2010-09-23	16:01	Back	18		0.025	20	< 6	< 8.6	< 3.4	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	0.037	< 0.11	< 3.6
N24423SVH	24423 NEPTUNE AVE	2011-01-12	11:21	House	4.9		12	12	< 1.8	20	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	0.083	< 0.12	< 3.8
N24423SVHD	24423 NEPTUNE AVE	2011-01-12	11:21	House	4.9		12	18	< 1.8	22	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	0.086	< 0.12	< 3.8
N24423SVF	24423 NEPTUNE AVE	2011-10-26	12:54	Front	21		0.25	< 8	1 J, b	< 6.4	< 10	< 4.1	< 5.7	< 3.2	< 2.7	< 4.2	< 0.00017	< 0.084	< 10
N24423SVH	24423 NEPTUNE AVE	2011-10-26	13:44	House	7.6		11	27	2.8 J, b	12	< 9.3	9.2	< 5.4	23	4.5	< 3.9	< 0.00016	< 0.079	< 9.8
N24423SVHD	24423 NEPTUNE AVE	2011-10-26	13:44	House	7.7		10	16	0.97 J, b	< 6	< 9.4	8.1	< 5.4	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
N24423SVB	24423 NEPTUNE AVE	2011-10-26	14:24	Back	20		0.1	9.9	0.6 J, b	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
N24423SVH	24423 NEPTUNE AVE	2012-10-12	15:02	House	19		1.7	33	< 0.59	20	< 14	6.5	< 8.1	6.5	< 3.8	< 5.9	< 0.00024	0.14	< 15
N24423SVB	24423 NEPTUNE AVE	2012-10-12	15:21	Back	18		0.06	< 29	< 0.6	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	0.00082 j	< 0.12	< 15
N24423SVBD	24423 NEPTUNE AVE	2012-10-12	15:21	Back	18		0.058	< 29	< 0.6	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
N24423SVF	24423 NEPTUNE AVE	2012-10-12	15:43	Front	21		0.38	< 28	< 0.59	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	0.27	< 15
N24423SVB	24423 NEPTUNE AVE	2013-05-08	14:55	Back	20		0.035	< 28	2.2 J, b	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
N24423SVH	24423 NEPTUNE AVE	2013-05-08	15:20	House	21		1.2	< 32	2 J, b	< 10	< 16	8.6	< 9.1	< 5.1	< 4.3	< 6.6	< 0.00027	0.15	< 17
N24423SVF	24423 NEPTUNE AVE	2013-05-08	15:28	Front	21		0.34	< 28	2.1 J, b	< 8.9	< 14	< 5.8	< 8	4.6	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
R24423SVB	24423 RAVENNA AVE	2009-09-24	09:10	Back	20		< 0.023	52	3 J	< 8.6	5.9	100	< 7.8	< 4.3	3.9	< 5.7	< 0.00023		< 3.6
R24423SVF	24423 RAVENNA AVE	2009-09-24	10:25	Front	20		0.53	52	< 3.2	< 9.5	5.4	< 6.2	< 8.6	< 4.8	< 4	< 6.2	< 0.00025		< 3.9
R24423SVFD	24423 RAVENNA AVE	2009-09-24	10:25	Front	20		0.52	50	< 3.2	< 9.5	4	< 6.2	< 8.6	< 4.8	< 4	< 6.2	< 0.00025		< 3.9
R24423SVB	24423 RAVENNA AVE	2012-10-26	14:39	Back	19		0.72	< 30	5.8 J, b	< 9.7	< 15	9.4	< 8.7	< 4.8	< 4.1	< 6.4	< 0.00026	< 0.13	< 16
R24423SVH	24423 RAVENNA AVE	2012-10-26	14:55	House	18		1.3	< 28	2.6 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24423SVF	24423 RAVENNA AVE	2012-10-26	15:08	Front	20		0.39	< 27	1.5 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
R24423SVB	24423 RAVENNA AVE	2013-07-18	09:44	Back	21		0.7	< 26	< 0.75	< 8.4	< 13	9.7	< 7.5	< 4.2	< 3.5	< 5.5	< 0.00022	< 0.11	< 14
R24423SVBD	24423 RAVENNA AVE	2013-07-18	09:44	Back	21		0.7	< 26	< 0.75	< 8.4	< 13	10	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
R24423SVH	24423 RAVENNA AVE	2013-07-18	09:49	House	20		1.2	130	< 0.78	< 8.7	< 14	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
R24423SVF	24423 RAVENNA AVE	2013-07-18	10:04	Front	21		0.6	< 29	< 0.84	< 9.3	< 15	< 6	< 8.4	< 4.7	< 4	< 6.1	< 0.00025	< 0.12	< 15
M24426SVB	24426 MARBELLA AVE	2009-09-18	12:32	Back	20		0.041	45	7.4 J	< 11	6	< 7	< 9.8	< 5.4	< 4.6	< 7.1	< 0.00029		5.7
M24426SVF	24426 MARBELLA AVE	2009-09-21	10:04	Front	21		< 0.024	< 11	4.6 J	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024		< 3.7
M24426SVH	24426 MARBELLA AVE	2011-10-06	13:43	House	19		1.4	18	0.63 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
M24426SVHD	24426 MARBELLA AVE	2011-10-06	13:43	House	19		1.4	13	< 0.48	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
M24426SVF	24426 MARBELLA AVE	2011-10-06	14:23	Front	21		0.15	< 12	< 0.49	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
M24426SVB	24426 MARBELLA AVE	2011-10-06	14:53	Back	21		0.27	< 11	< 0.46	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
M24426SVH	24426 MARBELLA AVE	2012-02-23	14:59	House	18		2	14	1.8 J, b	< 6.3	< 9.9	< 4.1	< 5.7	< 3.2	< 2.7	< 4.2	< 0.00017	< 0.084	< 10
M24426SVF	24426 MARBELLA AVE	2012-02-23	15:36	Front	21		0.11	14	14 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
M24426SVFD	24426 MARBELLA AVE	2012-02-23	15:36	Front	21		0.11	11	0.47 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
M24426SVB	24426 MARBELLA AVE	2012-02-23	16:17	Back	21		0.45	19	0.55 J, b	< 5.7	< 9	< 3.7	19	< 2.9	< 2.4	< 3.8	< 0.00015	< 0.076	< 9.5
N24426SVB	24426 NEPTUNE AVE	2009-09-17	09:22	Back	21		0.025	47	5.2 J	< 8.7	6.6	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023		< 3.6
N24426SVF	24426 NEPTUNE AVE	2009-09-17	10:19	Front	18		3.6	< 11	< 2.8	< 8.4	< 3.3	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022		< 3.5
N24426SVB	24426 NEPTUNE AVE	2010-06-25	15:03	Back	21		0.23	34	< 2.3	9.6	3.6	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	5.5
N24426SVH	24426 NEPTUNE AVE	2010-06-25	16:13	House	20		0.51	210	< 2.4	8.8 J	3.5	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24426SVF	24426 NEPTUNE AVE	2010-07-07	10:03	Front	16		4.7	53	< 2.3 Q, uj	< 8.8	4.4	< 5.7	< 7.9	< 4.4	17	< 5.8	0.00033	< 0.12	< 3.6
N24426SVF	24426 NEPTUNE AVE	2010-09-15	09:27	Front	16		4.2	44	< 1.4	< 9.1	3.8	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	0.36	< 3.8
N24426SVH	24426 NEPTUNE AVE	2010-10-29	14:46	House	20		0.67	< 11	< 1.3	< 8.5	< 3.3	< 5.5	< 7.7	< 4.2	< 3.6	< 5.6	< 0.00023	< 0.11	6.3
N24426SVB	24426 NEPTUNE AVE	2010-10-29	15:02	Back	21		0.11	16	< 1.3	< 8.7	< 3.4	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	13
N24426SVBD	24426 NEPTUNE AVE	2010-10-29	15:02	Back	21		0.1	14	< 1.3	< 8.7	< 3.4	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
N24426SVF	24426 NEPTUNE AVE	2010-10-29	15:31	Front	18		2.3	15	< 1.3	< 8.7	< 3.4	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	0.19	< 3.6
N24426SVH	24426 NEPTUNE AVE	2013-04-19	14:46	House	22		0.38	< 28	0.65 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
N24426SVG	24426 NEPTUNE AVE	2013-04-19	15:14	Garage	20		0.51	34	< 0.6 PF	< 9.2	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24426SVH	24426 PANAMA AVE	2010-08-05	09:15	House	19		0.54	31	< 6.4	< 9.1	5.8	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
P24426SVG	24426 PANAMA AVE	2010-08-05	10:08	Garage	19		0.073	37	< 6	11	4.2	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
P24426SVB	24426 PANAMA AVE	2010-08-05	10:47	Back	20		0.034	43	< 6.2	10	9.7	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24426SVH	24426 PANAMA AVE	2012-12-06	09:54	House	19		1.3	< 29	0.67 J, b	12	< 14	< 5.9	< 8.2	24	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24426SVG	24426 PANAMA AVE	2012-12-06	10:23	Garage	20		1.6	< 29	0.73 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24426SVGD	24426 PANAMA AVE	2012-12-06	10:23	Garage	20		1.6	42	0.65 J, b	9.3	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24426SVB	24426 PANAMA AVE	2012-12-10	13:45	Back	21		0.31	< 27	2.1 J, b	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
P24426SVH	24426 PANAMA AVE	2013-06-14	19:29	House	20		1.2	32	< 2.7	< 9.2 PF	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24426SVB	24426 PANAMA AVE	2013-06-14	19:31	Back	19		1.1	< 27	< 2.5	< 8.6 PF	< 13	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
P24426SVG	24426 PANAMA AVE	2013-06-14	20:05	Garage	20		1.5	< 27	< 2.5	< 8.6 PF	< 13	< 5.5	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
R24426SVH	24426 RAVENNA AVE	2010-06-22	09:13	House	20		0.29	23	< 2.3	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	0.00052	< 0.12	< 3.6
R24426SVF	24426 RAVENNA AVE	2010-06-22	09:55	Front	20		0.061	42	< 2.5	< 9.3	7.2	< 6	< 8.4	< 4.7	< 4	< 6.1	< 0.00025	< 0.12	< 3.9
R24426SVB	24426 RAVENNA AVE	2010-06-22	10:45	Back	19		1.7	19	26	< 8.8	< 3.4	< 5.7	< 7.9	13	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24426SVB	24426 RAVENNA AVE	2013-02-28	14:51	Back	21		0.33	< 27	1.2 J, b	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
R24426SVBD	24426 RAVENNA AVE	2013-02-28	14:51	Back	22		0.36	< 28	3.9 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24426SVH	24426 RAVENNA AVE	2013-02-28	14:57	House	21		0.3	< 28	0.83 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24426SVF	24426 RAVENNA AVE	2013-02-28	15:36	Front	21		0.14	< 30	0.78 J, b	< 9.5	< 15	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16
R24426SVH	24426 RAVENNA AVE	2013-07-17	14:50	House	20		0.72	28	< 0.76	8.9	< 13	< 5.5	< 7.7	5.1	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
R24426SVB	24426 RAVENNA AVE	2013-07-17	14:55	Back	21		0.84	< 29	1.6 J, b	< 9.3	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
R24426SVBD	24426 RAVENNA AVE	2013-07-17	14:55	Back	21		0.84	< 30	1.1 J, b	< 9.6	< 15	< 6.2	< 8.6	< 4.8	< 4	< 6.3	< 0.00025	< 0.13	< 16
R24426SVF	24426 RAVENNA AVE	2013-07-17	15:22	Front	20		0.56	52	1.6 J, b	< 8.9	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
M24427SVH	24427 MARBELLA AVE	2010-05-26	10:10	House	21		< 0.023	44	< 2.3	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24427SVB	24427 MARBELLA AVE	2010-05-26	11:01	Back	21		< 0.024	< 11	< 2.4	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
M24427SVG	24427 MARBELLA AVE	2010-05-26	11:42	Garage	21		< 0.023	< 11	< 2.3	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24427SVG	24427 MARBELLA AVE	2012-04-06	10:19	Garage	20		0.048	18 J	1.3 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00024	< 0.12	< 9.6
M24427SVH	24427 MARBELLA AVE	2012-04-06	10:21	House	20		0.046	< 18	1 J, b	< 5.6	< 8.8	< 3.6	5.1	< 2.8	< 2.4	< 3.7	< 0.00024	< 0.12	< 9.3
M24427SVB	24427 MARBELLA AVE	2012-04-06	10:57	Back	20		0.036	63 j	1.4 J, b	< 5.7	13	< 3.7	< 5.2	< 2.9	< 2.4	< 3.8	< 0.00024	< 0.12	< 9.5
M24427SVBD	24427 MARBELLA AVE	2012-04-06	10:57	Back	21		0.038	< 18	1.6 J, b	19 j	< 9	< 3.7	< 5.2	< 2.9	< 2.4	< 3.8	< 0.00024	< 0.12	< 9.5
P24427SVB	24427 PANAMA AVE	2010-06-04	09:06	Back	20		0.069	50	< 2.3	< 8.6	6.6	13	< 7.8	< 4.3	6.7	< 5.7	< 0.00023	< 0.11	< 3.6
P24427SVF	24427 PANAMA AVE	2010-06-04	09:40	Front	20		< 0.022	28	< 2.2	< 8.4	< 3.3	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
P24427SVH	24427 PANAMA AVE	2010-06-04	10:12	House	20		0.26	30	< 2.3	< 8.8	5.9	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24427SVH	24427 PANAMA AVE	2013-05-24	15:00	House	21		1.1	< 28	< 2.6	< 9 PF	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	0.26	< 15
P24427SVB	24427 PANAMA AVE	2013-05-24	15:07	Back	20		0.94	< 29	< 2.7	< 9.2 PF	< 14	28	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24427SVF	24427 PANAMA AVE	2013-05-24	15:21	Front	21		0.49	< 28	< 2.5	< 8.7 PF	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
N24429SVB	24429 NEPTUNE AVE	2010-04-30	00:00	Back	21		0.11	16	< 6.3	40	5.5	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24429SVH	24429 NEPTUNE AVE	2010-04-30	13:27	House	21		0.046	< 11	< 6.2	< 8.8	< 3.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
N24429SVF	24429 NEPTUNE AVE	2010-04-30	14:40	Front	21		0.09	16	< 6.3	31	4.2	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24429SVB	24429 NEPTUNE AVE	2011-01-14	15:08	Back	21		0.28	100	< 1.1	18	6.2	< 4.8	< 6.7	33	< 3.2	< 4.9	< 0.0002	< 0.1	< 3.1
N24429SVF	24429 NEPTUNE AVE	2011-01-14	15:34	Front	21		0.18	< 11	< 1.3	< 8.6	< 3.4	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
N24429SVH	24429 NEPTUNE AVE	2011-01-14	16:00	House	20		0.2	110	1.4 J, b	< 8.8	40	< 5.7	360	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24429SVH	24429 NEPTUNE AVE	2013-08-07	09:47	House	20		0.71	250	< 0.79	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
N24429SVF	24429 NEPTUNE AVE	2013-08-07	10:09	Front	19		1.6	< 29	< 0.82	< 9.2	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
N24429SVFS	24429 NEPTUNE AVE	2013-08-07	10:09	Front		20.1	1.67	< 20 U	< 0.73 U	< 20 U	< 20 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 0.16 U		< 20 U
N24429SVB	24429 NEPTUNE AVE	2013-08-07	10:26	Back	21		0.55	< 26	< 0.75	< 8.4	< 13	< 5.4	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
R24429SVG	24429 RAVENNA AVE	2010-09-17	13:46	Garage	20		0.18	13	1.6 J, b	< 8.6	3.8	24	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 3.6
R24429SVH	24429 RAVENNA AVE	2010-10-14	10:17	House	18		0.78	19	< 1.5	< 10	7.8	< 6.5	< 9	< 5	< 4.2	9	< 0.00027	< 0.13	< 4.1
R24429SVB	24429 RAVENNA AVE	2010-10-14	11:26	Back	19		0.34	15	< 1.4	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	7
R24429SVB	24429 RAVENNA AVE	2013-07-30	10:04	Back	21		0.75	< 29	< 0.82	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24429SVBD	24429 RAVENNA AVE	2013-07-30	10:04	Back	21		0.75	< 29	< 0.83	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
R24429SVH	24429 RAVENNA AVE	2013-07-30	10:09	House	20		0.84	< 28	1.1 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	0.00039	0.12	< 14
R24429SVG	24429 RAVENNA AVE	2013-07-30	10:36	Garage	20		0.98	< 28	0.88 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
P24430SVB	24430 PANAMA AVE	2009-10-01	09:28	Back	20		0.41	39	< 3.7	< 11	6.1	< 7.1	< 9.9	< 5.5	< 4.6	< 7.2	< 0.00029		< 4.5
P24430SVBD	24430 PANAMA AVE	2009-10-01	09:28	Back	20		0.41	38	8.6 J	< 11	6.2	< 7	< 9.7	31	< 4.6	< 7.1	< 0.00029		17
P24430SVF	24430 PANAMA AVE	2009-10-01	10:54	Front	20		0.87	45	6.7 J	< 8.6	59	< 5.6	21	< 4.3	< 3.6	< 5.6	< 0.00023		< 3.6
P24430SVH	24430 PANAMA AVE	2010-06-14	09:42	House	20		0.29	37 b	3 J	37	4.4 b	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	0.25	< 3.8
P24430SVB	24430 PANAMA AVE	2010-06-14	10:48	Back	20		0.34	37 b	< 2.3	8.7 J	11 b	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
P24430SVF	24430 PANAMA AVE	2010-06-14	11:46	Front	20		0.63	56 b	< 2.3	17	9.5 b	< 5.7	14	< 4.4	5.8	< 5.8	< 0.00023	< 0.12	< 3.6
P24430SVF	24430 PANAMA AVE	2012-11-30	15:16	Front	20		0.72	32	2.3 J, b	< 8.4	< 13	< 5.5	12	< 4.2	< 3.6	< 5.5	< 0.00022	0.21	< 14
P24430SVHA	24430 PANAMA AVE	2013-05-07	15:25	House	20		1.4	< 30	11 J, b	< 9.4	< 15	< 6.1	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 16
P24430SVB	24430 PANAMA AVE	2013-05-07	15:31	Back	21		0.16	< 29	5.6 J, b	< 9.3	< 15	< 6	< 8.4	< 4.7	< 4	< 6.1	< 0.00025	< 0.12	< 15
P24430SVF	24430 PANAMA AVE	2013-05-07	15:56	Front	20		0.8	< 29	3.6 J, b	< 9.1	< 14	< 5.9	18	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 15
P24431SVF	24431 PANAMA AVE	2010-09-20	09:59	Front	20		< 0.026	15	3.8 J	< 9.7	< 3.8	< 6.3	< 8.8	< 4.9	< 4.1	< 6.4	< 0.00026	< 0.13	< 4
P24431SVFD	24431 PANAMA AVE	2010-09-20	09:59	Front	20		< 0.026	20	2.5 J	< 9.7	4.6	< 6.3	< 8.8	< 4.9	< 4.1	< 6.4	< 0.00026	< 0.13	< 4
P24431SVB	24431 PANAMA AVE	2010-09-20	11:22	Back	18		1.5	20	2.2 J	< 8.8	6.2	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24431SVH2	24431 PANAMA AVE	2010-10-13	14:31	House	16		4	20	4.3 J	9.7	< 3.5	< 5.7	< 8	21	< 3.8	< 5.8	< 0.00024	0.17	< 3.6
P24431SVB	24431 PANAMA AVE	2013-01-17	10:12	Back	20		1.1	< 27	0.87 J, b	< 8.6	< 13	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
P24431SVH2	24431 PANAMA AVE	2013-01-17	10:12	House	19		1.7	< 26	0.76 J, b	< 8.3	< 13	< 5.4	< 7.5	< 4.2	< 3.5	< 5.5	< 0.00022	< 0.11	< 14
P24431SVF	24431 PANAMA AVE	2013-01-17	10:43	Front	21		0.11	< 29	0.71 J, b	< 9.3	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
P24431SVB	24431 PANAMA AVE	2013-05-29	09:47	Back	20		1.3	29	< 2.5	< 8.6	< 13	< 5.5	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
P24431SVBD	24431 PANAMA AVE	2013-05-29	09:47	Back	20		1.3	32	< 2.4	< 8.2	< 13	< 5.3	< 7.4	< 4.1	< 3.5	< 5.4	< 0.00022	< 0.11	< 14
P24431SVH2	24431 PANAMA AVE	2013-05-29	09:48	House	20		1.8	120	< 2.6	< 8.9	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
P24431SVF	24431 PANAMA AVE	2013-05-29	10:21	Front	22		0.092	30	< 2.6	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
M24432SVH	24432 MARBELLA AVE	2010-11-01	09:18	House	20		1.6	120	< 1.4	< 8.9	11	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24432SVF	24432 MARBELLA AVE	2010-11-01	09:53	Front	20		0.75	< 11	< 1.4	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
M24432SVB	24432 MARBELLA AVE	2010-11-01	10:38	Back	20		0.64	230	< 1.3	9.9	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24432SVH	24432 MARBELLA AVE	2011-01-27	14:09	House	20		1.1	< 11	0.58 J, b	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24432SVB	24432 MARBELLA AVE	2011-01-27	14:55	Back	21		0.93	< 10	< 0.32	< 8.4	< 3.3	< 5.4	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
M24432SVF	24432 MARBELLA AVE	2011-01-27	15:34	Front	21		0.85	16	0.39 J, b	< 8.4	4.8	< 5.5	< 7.6	41	8.3	< 5.5	< 0.00022	< 0.11	< 3.5
M24432SVH	24432 MARBELLA AVE	2012-03-16	10:24	House	20		1.1	21	5.7 J, b	< 6	< 9.3	14	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
M24432SVF	24432 MARBELLA AVE	2012-03-16	11:04	Front	21		0.82	20	0.68 J, b	< 5.4	< 8.5	< 3.5	< 4.9	< 2.7	< 2.3	< 3.6	< 0.00014	< 0.072	< 9
M24432SVB	24432 MARBELLA AVE	2012-03-16	11:28	Back	21		0.58	< 18	0.71 J, b	18	< 9	< 3.7	< 5.2	< 2.9	< 2.4	< 3.8	< 0.00015	< 0.076	< 9.5
M24432SVBD	24432 MARBELLA AVE	2012-03-16	11:28	Back	21		0.58	< 18	5.9 J, b	< 5.7	< 9	< 3.7	< 5.2	< 2.9	< 2.4	< 3.8	< 0.00015	< 0.076	< 9.5
M24433SVB	24433 MARBELLA AVE	2009-09-16	13:05	Back	21		0.027	< 11	< 2.8	< 8.5	< 3.3	< 5.5	< 7.7	< 4.2	5.8	< 5.6	< 0.00023		< 3.5
M24433SVF	24433 MARBELLA AVE	2009-09-16	14:14	Front	21		0.15	15	3 J	< 7.9	< 3.1	6.7	< 7.1	< 3.9	3.4	< 5.2	< 0.00021		< 3.2
M24433SVB2	24433 MARBELLA AVE	2009-09-18	15:39	Back	21		< 0.029	220	31	< 11	19	< 7	200	9.3	< 4.6	< 7.1	< 0.00029		< 4.5
M24433SVH	24433 MARBELLA AVE	2011-02-14	13:51	House	21		< 0.024	14	2.8 J, b	11	< 3.5	< 5.7	24	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
M24433SVB2	24433 MARBELLA AVE	2011-02-14	14:11	Back	21		0.09	64	< 0.35	< 9.3	< 3.6	7.1	150	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 3.8
M24433SVB	24433 MARBELLA AVE	2011-02-14	14:29	Back	21		0.043	21	< 0.35	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
M24433SVBD	24433 MARBELLA AVE	2011-02-14	14:29	Back	21		0.045	< 11	< 0.35	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
M24433SVF	24433 MARBELLA AVE	2011-02-14	14:57	Front	21		0.23	< 11	< 0.34	< 8.9	< 3.5	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24433SVF	24433 MARBELLA AVE	2012-03-02	15:00	Front	22		0.18	< 20	4.6 J, b	< 6.2	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4.1	< 0.00015	< 0.076	< 10
M24433SVFD	24433 MARBELLA AVE	2012-03-02	15:00	Front	22		0.17	< 20	3 J, b	< 6.2	< 9.8	< 4	< 5.6	< 3.1	< 2.6	< 4.1	< 0.00015	< 0.076	< 10
M24433SVH	24433 MARBELLA AVE	2012-03-02	15:13	House	21		0.061	26	6.5 J, b	26	< 10	< 4.4	7.9	< 3.4	< 2.8	< 4.4	0.00018	< 0.08	< 11
M24433SVB	24433 MARBELLA AVE	2012-03-02	15:46	Back	22		0.049	< 20	4.5 J, b	< 6.4	< 10	< 4.2	< 5.8	< 3.2	< 2.7	< 4.2	0.0002	< 0.079	< 10
M24433SVB2	24433 MARBELLA AVE	2012-03-02	15:48	Back	21		0.17	< 21	3.4 J, b	< 6.7	< 10	< 4.3	< 6	< 3.3	< 2.8	< 4.4	< 0.00016	< 0.08	< 11
P24436SVH	24436 PANAMA AVE	2010-06-24	09:51	House	18		2.1	47	< 2.4	< 8.9	8.5	< 5.8	< 8	< 4.5	7.1	< 5.9	< 0.00024	0.14	< 3.7
P24436SVF	24436 PANAMA AVE	2010-06-24	11:55	Front	21		< 0.023	69	< 2.3	< 8.7	5.6	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
P24436SVHA	24436 PANAMA AVE	2012-06-28	09:55	House	20		0.56	80	< 3	12	36	< 3.9	9.6	< 3	< 2.6	< 4	< 0.00016	0.23	< 10
P24436SVF	24436 PANAMA AVE	2012-06-28	10:03	Front	22		0.11	< 19	< 3	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00022	< 0.11	< 10
P24436SVFS	24436 PANAMA AVE	2012-06-28	10:03	Front		21.5	< 0.16 U	< 18 U	< 0.74 U	< 18 U	< 18 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	2	< 0.16 U		< 18 U
P24436SVBA	24436 PANAMA AVE	2012-06-28	10:39	Back	21		0.21	37	< 3.1	< 6.3	< 9.9	< 4.1	< 5.7	< 3.2	< 2.7	< 4.2	< 0.00022	< 0.11	< 10
P24436SVBAS	24436 PANAMA AVE	2012-06-28	10:39	Back		21.1	0.222	22	< 0.82 U	< 19 U	< 19 U	3.2	< 1.9 U	< 1.9 U	< 1.9 U	2	< 0.18 U		< 19 U
M24502SVH	24502 MARBELLA AVE	2010-09-20	09:49	House	19		1.1	20	1.5 J, b	16	3.4	< 5.1	< 7.1	< 3.9	< 3.3	< 5.2	< 0.00021	< 0.1	< 3.2
M24502SVG	24502 MARBELLA AVE	2010-09-20	10:39	Garage	16		1.3	31	2.8 J, b	17	6	45	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24502SVB	24502 MARBELLA AVE	2010-09-20	11:20	Back	19		0.78	24	1.3 J, b	24	4.3	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24502SVG	24502 MARBELLA AVE	2012-05-04	14:34	Garage	17		4	< 21	1.7 J, b	< 6.6	< 10	11	< 5.9	< 3.3	< 2.8	< 4.3	< 0.00018	< 0.088	< 11
M24502SVGD	24502 MARBELLA AVE	2012-05-04	14:34	Garage	17		3.9	< 21	1.2 J, b	< 6.6	< 10	10	< 5.9	< 3.3	< 2.8	< 4.3	< 0.00018	< 0.088	< 11
M24502SVH	24502 MARBELLA AVE	2012-05-04	14:56	House	19		1.4	< 18	1.6 J, b	< 5.6	< 8.8	< 3.6	< 5	< 2.8	< 2.4	< 3.7	< 0.00015	< 0.074	< 9.3
M24502SVB	24502 MARBELLA AVE	2012-05-04	15:13	Back	19		1.3	< 18	3.4 J, b	< 5.8	< 9.1	3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
M24502SVH	24502 MARBELLA AVE	2013-08-16	09:53	House	18		2.1	< 27	1.5 J, b	< 8.5	< 13	< 5.5	< 7.6	< 4.2	< 3.6	< 5.6	< 0.00022	< 0.11	< 14
M24502SVB	24502 MARBELLA AVE	2013-08-16	10:17	Back	19		1.3	< 30	1.1 J, b	< 9.4	< 15	83	< 8.4	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 16
M24502SVBS	24502 MARBELLA AVE	2013-08-16	10:17	Back		20.3	1.3	< 21 U	< 0.76 U	< 21 U	< 21 U	80	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.17 U		< 21 U
M24502SVG	24502 MARBELLA AVE	2013-08-16	10:25	Garage	16		5.1	< 28	1.1 J, b	< 8.9	< 14	8.9	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
N24502SVB	24502 NEPTUNE AVE	2009-09-23	12:48	Back	16		3.8	< 12	< 3.1	< 9.3	< 3.6	52	< 8.4	< 4.7	< 4	< 6.1	< 0.00025		< 3.9
N24502SVF	24502 NEPTUNE AVE	2009-09-23	13:59	Front	14		9	14	8.8 J	< 8.8	< 3.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024		< 3.6
N24502SVH	24502 NEPTUNE AVE	2011-02-17	09:25	House	21		< 0.023	24	< 0.33	< 8.7	< 3.4	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
N24502SVF	24502 NEPTUNE AVE	2011-02-17	10:12	Front	15		4.3	33	< 0.34	11	< 3.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
N24502SVFD	24502 NEPTUNE AVE	2011-02-17	10:12	Front	14		4.2	< 11	< 0.34	< 8.8	< 3.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
N24502SVB	24502 NEPTUNE AVE	2011-02-17	10:59	Back	18		2.3	< 11	< 0.33	< 8.7	< 3.4	8.2	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
N24502SVH	24502 NEPTUNE AVE	2013-01-25	14:55	House	21		0.38	< 28	1.7 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24502SVF	24502 NEPTUNE AVE	2013-01-25	15:00	Front	12		6.5	< 29	1.1 J, b	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
N24502SVFD	24502 NEPTUNE AVE	2013-01-25	15:00	Front	12		6.5	< 29	1.3 J, b	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
N24502SVB	24502 NEPTUNE AVE	2013-07-12	09:39	Back	15		4.9	< 29	1.2 J, b	< 9.3	< 15	510	< 8.4	< 4.7	< 4	< 6.1	< 0.00025	< 0.12	< 15
N24502SVBD	24502 NEPTUNE AVE	2013-07-12	09:39	Back	15		4.8	< 29	1.2 J, b	< 9.1	< 14	520	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
N24502SVH	24502 NEPTUNE AVE	2013-07-12	09:41	House	21		0.47	53	2.9 J, b	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
N24502SVF	24502 NEPTUNE AVE	2013-07-12	10:08	Front	15		9.2	< 29	0.91 J, b	< 9.3	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00023	< 0.12	< 15
P24502SVB	24502 PANAMA AVE	2009-09-25	09:24	Back	20		0.1	13	12 J	< 8.8	< 3.5	< 5.7	< 8	25	4.9	< 5.8	< 0.00024		< 3.6
P24502SVF	24502 PANAMA AVE	2009-09-25	10:26	Front	20		0.11	24	7.2 J	< 8.7	4.1	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023		< 3.6
P24502SVF	24502 PANAMA AVE	2010-06-01	10:06	Front	21		0.32	12	< 4	< 8.7	< 3.4	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
P24502SVB	24502 PANAMA AVE	2010-06-01	11:14	Back	21		0.12	< 11	< 4.2	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
P24502SVBD	24502 PANAMA AVE	2010-06-01	11:14	Back	21		0.12	< 11	< 4.2	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
P24502SVH2	24502 PANAMA AVE	2010-09-02	08:52	House	21		0.37	15	1.4 J	< 8.8	< 3.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00034	< 0.17	< 3.6
P24502SVH2	24502 PANAMA AVE	2013-01-18	10:09	House	21		0.44	< 27	1.3 J, b	< 8.4	< 13	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	0.22	< 14
P24502SVF	24502 PANAMA AVE	2013-01-18	10:19	Front	21		0.34	< 28	0.83 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24502SVFD	24502 PANAMA AVE	2013-01-18	10:19	Front	18		0.3	< 28	0.84 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24502SVB	24502 PANAMA AVE	2013-01-18	10:45	Back	20		0.15	< 28	0.76 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24502SVB	24502 RAVENNA AVE	2010-04-22	10:39	Back	21		< 0.023	29	< 2.3	21	12	< 5.7	13	< 4.4	9.6	< 5.8	< 0.00023	< 0.12	< 3.6
R24502SVF	24502 RAVENNA AVE	2010-04-22	12:16	Front	20		0.1	68	3.8 J, b	13	22	< 5.9	< 8.2	< 4.6	8.7	< 6	0.0031	< 0.12	< 3.8

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
					Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
					Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
R24502SVH	24502 RAVENNA AVE	2010-04-22	13:38	House	21		0.15	130	2.5 J, b	39	13	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
R24502SVH	24502 RAVENNA AVE	2010-10-07	11:07	House	20		0.3	19	< 1.3	< 8.4	< 3.3	7.7	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
R24502SVB	24502 RAVENNA AVE	2010-10-07	11:58	Back	20		0.056	29	< 1.3	< 8.8	4.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24502SVF	24502 RAVENNA AVE	2010-10-07	12:58	Front	20		0.31	12	< 1.4	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
R24502SVH	24502 RAVENNA AVE	2010-10-11	14:40	House	19		0.29	33	< 1.3	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	5.7
R24502SVB	24502 RAVENNA AVE	2010-10-11	15:17	Back	20		0.058	18	< 1.3	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24502SVF	24502 RAVENNA AVE	2010-10-11	16:14	Front	19		0.44	12	< 1.4	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
R24502SVH	24502 RAVENNA AVE	2012-07-26	15:07	House	21		0.23	< 19	< 3	< 6	< 9.3	7.5	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
R24502SVB	24502 RAVENNA AVE	2012-07-26	15:20	Back	21		0.063	< 19	< 3	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
R24502SVF	24502 RAVENNA AVE	2012-07-26	15:51	Front	21		0.59	< 19	< 3.1	< 6.2	< 9.7	4.2	< 5.6	< 3.1	< 2.6	< 4	0.00028	< 0.082	< 10
M24503SVF	24503 MARBELLA AVE	2010-05-28	08:58	Front	21		< 0.024	22	< 4.1	< 8.9	< 3.5	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24503SVB	24503 MARBELLA AVE	2010-05-28	09:40	Back	21		0.05	< 11	< 4	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24503SVH	24503 MARBELLA AVE	2010-05-28	10:22	House	21		0.16	62	< 4.5	< 9.7	8.7	< 6.3	220	< 4.8	< 4.1	< 6.4	< 0.00026	0.28	< 4
M24503SVH	24503 MARBELLA AVE	2012-03-30	14:54	House	21		0.43	< 19	2.3 J, b	< 6	< 9.3	< 3.8	140	< 3	< 2.5	< 3.9	< 0.00016	0.11	< 9.8
M24503SVF	24503 MARBELLA AVE	2012-03-30	15:12	Front	21		0.056	< 19	3.5 J, b	< 5.9	< 9.2	< 3.8	< 5.3	< 3	< 2.5	< 3.9	< 0.00016	< 0.078	< 9.8
M24503SVFD	24503 MARBELLA AVE	2012-03-30	15:12	Front	21		0.053	33	1.4 J, b	6	< 9.3	< 3.8	6.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
M24503SVB	24503 MARBELLA AVE	2012-03-30	15:40	Back	22		0.051	< 18	0.72 J, b	< 5.9	< 9.2	< 3.8	< 5.3	< 2.9	< 2.5	< 3.8	0.0002	< 0.078	< 9.7
N24503SVF	24503 NEPTUNE AVE	2010-06-18	09:48	Front	20		0.32	< 11	< 2.4	< 9	< 3.5	< 5.8	< 8.1	< 4.5	4.1	< 5.9	< 0.00024	< 0.12	< 3.7
N24503SVB	24503 NEPTUNE AVE	2010-06-18	10:30	Back	14		4.3	< 11	< 2.3	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24503SVHA	24503 NEPTUNE AVE	2011-02-02	09:46	House	21		< 0.022	26	3.2 J, b	8.3	4.7	< 5.4	< 7.5	21	< 3.5	< 5.5	< 0.00022	< 0.11	< 3.4
N24503SVHA	24503 NEPTUNE AVE	2012-04-13	10:30	House	22		0.062	< 19	1.1 J, b	< 6.2	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4	< 0.00025	< 0.13	< 10
N24503SVF	24503 NEPTUNE AVE	2012-04-13	10:46	Front	21		0.34	22	1 J, b	7	< 9.3	< 3.8	< 5.4	16 j	< 2.5	< 3.9	< 0.00024	< 0.12	< 9.8
N24503SVFD	24503 NEPTUNE AVE	2012-04-13	10:46	Front	22		0.39	< 19	0.99 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00024	< 0.12	< 9.8
N24503SVHA	24503 NEPTUNE AVE	2013-06-27	14:37	House	21		0.23	< 28	1.1 J, b	< 8.7	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
N24503SVB	24503 NEPTUNE AVE	2013-06-27	14:46	Back	17		4.3	30	< 0.82	< 9.2	< 14	1100	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
N24503SVF	24503 NEPTUNE AVE	2013-06-27	15:10	Front	21		0.67	39	< 0.85	< 9.5	< 15	7.5	< 8.6	< 4.8	< 4	< 6.2	< 0.00025	< 0.13	< 16
P24503SVB	24503 PANAMA AVE	2011-04-04	14:05	Back	20		< 0.026	78	0.92 J, b	< 9.8	< 15	18	< 8.8	27	< 4.2	< 6.4	< 0.00026	< 0.13	< 16
P24503SVH	24503 PANAMA AVE	2011-04-04	14:55	House	17		2.7	< 12	0.47 J, b	< 9.5	< 15	< 6.2	23	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16
P24503SVG	24503 PANAMA AVE	2011-04-04	15:31	Garage	22		0.11	< 12	0.61 J, b	< 9.8	< 15	< 6.4	< 8.8	< 4.9	< 4.2	< 6.4	< 0.00054	< 0.27	< 16
P24503SVH	24503 PANAMA AVE	2012-08-10	14:54	House	11		7.2	< 20	< 3.1	< 6.2	< 9.8	< 4	< 5.6	< 3.1	< 2.6	< 4.1	< 0.00017	< 0.083	< 10
P24503SVB	24503 PANAMA AVE	2012-08-10	15:31	Back	16		3.4	57	2.2 J, b	170	< 13	15	< 7.5	4.6	< 3.5	< 5.5	< 0.00017	< 0.083	< 14
P24503SVBD	24503 PANAMA AVE	2012-08-10	15:31	Back	16		3.3	< 40	4.5 J, b	290	< 20	14	< 12	< 6.4	< 5.4	< 8.4	< 0.00017	< 0.083	< 21
P24503SVG	24503 PANAMA AVE	2012-08-10	15:34	Garage	20		1.1	26	< 3	22	< 9.6	< 4	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.081	< 10
R24503SVH	24503 RAVENNA AVE	2010-08-09	09:13	House	19		0.88	16	< 6.4	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	0.00032	< 0.12	< 3.8
R24503SVG	24503 RAVENNA AVE	2010-08-09	10:01	Garage	17		3.6	38	< 6.2	12	11	13	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24503SVB	24503 RAVENNA AVE	2010-08-09	11:01	Back	19		0.62	32	< 6.2	< 8.8	5.7	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	9.5
R24503SVG	24503 RAVENNA AVE	2012-11-08	14:58	Garage	15		5.2	< 28	< 0.58	< 8.8	< 14	< 5.7	19	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24503SVH	24503 RAVENNA AVE	2012-11-08	15:09	House	19		1.3	< 28	0.6 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24503SVB	24503 RAVENNA AVE	2012-11-08	15:33	Back	22		0.98	< 29	< 0.6	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
M24506SVH	24506 MARBELLA AVE	2010-04-21	09:55	House	18		2.8	17	< 2.3	35	9	< 5.7	< 7.9	400	130	< 5.8	< 0.00023	< 0.12	< 3.6
M24506SVF	24506 MARBELLA AVE	2010-04-21	10:11	Front	20		0.23	230	< 2.4	10	19	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24506SVB2	24506 MARBELLA AVE	2010-08-10	09:00	Back	19		< 0.023	21	< 6.1	< 8.7	< 3.4	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
M24506SVH	24506 MARBELLA AVE	2011-01-26	10:01	House	17		2.5	< 11	1.6 J, b	< 8.6	< 3.4	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 3.6
M24506SVF	24506 MARBELLA AVE	2011-01-26	10:45	Front	21		0.16	< 11	1.1 J, b	< 8.9	< 3.5	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24506SVFD	24506 MARBELLA AVE	2011-01-26	10:45	Front	21		0.16	< 11	0.53 J, b	< 8.9	< 3.5	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24506SVB2	24506 MARBELLA AVE	2011-01-26	11:36	Back	20		< 0.023	< 11	0.88 J, b	< 8.8	< 3.4	< 5.7	< 7.9	7.7	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24506 SVF	24506 MARBELLA AVE	2012-03-15	10:29	Front	22		0.11	< 33	3.1 J, b	< 10	< 16	< 6.8	< 9.4	< 5.2	< 4.4	< 6.9	< 0.00016	< 0.079	< 17
M24506SVFS	24506 MARBELLA AVE	2012-03-15	10:29	Front		21.5	< 0.16 U	< 18 U	< 1 U	< 18 U	< 18 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	2.6	< 0.16 U		< 18 U
M24506 SVH	24506 MARBELLA AVE	2012-03-15	10:29	House	18		2.9	< 19	0.71 J, b	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
M24506 SVB2	24506 MARBELLA AVE	2012-03-15	11:23	Back	21		< 0.016	< 32	3.8 J, b	< 10	< 16	< 6.6	< 9.2	< 5.1	< 4.3	< 6.7	< 0.00016	< 0.078	< 17
M24506SVB2	24506 MARBELLA AVE	2013-07-02	14:47	Back	20		< 0.025	< 30	0.93 J, b	< 9.4	< 15	< 6.1	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 16
M24506SVB2D	24506 MARBELLA AVE	2013-07-02	14:47	Back	20		< 0.024	37	< 0.83	< 9.2	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

			Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
			Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
			Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**														
M24506SVH	24506 MARBELLA AVE	2013-07-02	14:55	House	17		3.8	40	0.8 J, b	< 8.9	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
M24506SVF	24506 MARBELLA AVE	2013-07-02	15:12	Front	21		0.4	< 30	< 0.86	< 9.6	< 15	< 6.2	< 8.7	< 4.8	< 4.1	< 6.3	< 0.00026	< 0.13	< 16
N24508SVH	24508 NEPTUNE AVE	2010-06-11	09:06	House	20		0.45	37	< 2.2	20	10	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
N24508SVB	24508 NEPTUNE AVE	2010-06-11	10:01	Back	20		< 0.023	50	< 2.3	11	7	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24508SVF	24508 NEPTUNE AVE	2010-06-11	10:45	Front	20		0.063	37	< 2.5	9.9	6.9	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 3.8
N24508SVF	24508 NEPTUNE AVE	2011-01-28	10:23	Front	21		0.098	< 11	0.74 J, b	< 8.4	< 3.3	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
N24508SVH	24508 NEPTUNE AVE	2011-01-28	11:03	House	20		0.46	37	0.6 J, b	< 8.4	< 3.3	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
N24508SVB	24508 NEPTUNE AVE	2011-01-28	11:35	Back	21		0.39	< 11	0.76 J, b	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24508SVBS	24508 NEPTUNE AVE	2011-01-28	11:35	Back		21.8	0.438	< 18	< 1.4	< 18	< 18	< 1.8	< 1.8	< 1.8	< 1.8	2.6	< 0.16		< 18
P24508SVF	24508 PANAMA AVE	2010-05-19	09:43	Front	21		0.71	17	< 6.2	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24508SVH	24508 PANAMA AVE	2010-05-19	10:26	House	21		0.19	59	180	17	9.2	< 5.8	< 8	< 4.5	9.9	6	< 0.00024	0.12	< 3.7
P24508SVB	24508 PANAMA AVE	2010-05-19	11:06	Back	21		0.052	34	17 J	9	< 3.5	< 5.8	< 8	< 4.5	3.7 J	< 5.9	< 0.00024	< 0.12	< 3.7
P24508SVH	24508 PANAMA AVE	2012-04-26	15:00	House	21		0.42	< 19	2.3 J, b	< 6.1	< 9.5	< 3.9	< 5.5	3.4	< 2.6	< 4	< 0.00021	0.19	< 10
P24508SVF	24508 PANAMA AVE	2012-04-26	15:07	Front	20		0.72	< 19	1.8 J, b	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
P24508SVFD	24508 PANAMA AVE	2012-04-26	15:07	Front	21		0.77	21	5.2 J, b	< 6.1	11	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00021	< 0.1	< 10
P24508SVB	24508 PANAMA AVE	2012-04-26	15:34	Back	21		0.44	110	1.6 J, b	< 6	16	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
R24508SVHA	24508 RAVENNA AVE	2011-01-31	09:42	House	21		0.11	11	0.97 J, b	< 8.4	< 3.3	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
R24508SVF	24508 RAVENNA AVE	2011-01-31	10:21	Front	21		< 0.023	16	0.45 J, b	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24508SVB	24508 RAVENNA AVE	2011-01-31	11:00	Back	21		< 0.022	21	1.3 J, b	< 8.4	< 3.3	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
R24508SVHA	24508 RAVENNA AVE	2013-03-29	10:00	House	21		0.42	< 28	0.77 J	< 8.9	< 14	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	0.15	< 15
R24508SVB	24508 RAVENNA AVE	2013-03-29	10:14	Back	20		1	< 28	0.59 J	< 8.7	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
R24508SVBS	24508 RAVENNA AVE	2013-03-29	10:14	Back		20.5	0.587	< 22 U	< 0.92 U	< 22 U	< 22 U	3.7	< 2.2 U	< 2.2 U	< 2.2 U	2.3	< 0.18 U		< 22 U
R24508SVF	24508 RAVENNA AVE	2013-03-29	10:49	Front	22		0.088	31	< 0.59	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24508SVFD	24508 RAVENNA AVE	2013-03-29	10:49	Front	22		0.091	51	< 0.58	12	16	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
N24509SVH	24509 NEPTUNE AVE	2010-05-04	13:45	House	20		0.39	21	< 6.4	26	< 3.6	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 3.8
N24509SVF	24509 NEPTUNE AVE	2010-05-04	15:44	Front	21		0.026	31	< 6.6	< 9.4	< 3.7	< 6.1	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	0.16	< 3.9
N24509SVB2	24509 NEPTUNE AVE	2010-07-30	09:30	Back	20		0.88	90 b	< 6.2	14	8.2	< 5.7	< 7.9	< 4.4	4.4	< 5.8	< 0.00023	< 0.12	< 3.6
N24509SVB2S	24509 NEPTUNE AVE	2010-07-30	09:30	Back		21.3	0.805	< 17	< 1.3	< 17	< 17	< 1.7	< 1.7	< 1.7	4.2	2.2	< 0.16		< 17
N24509SVH	24509 NEPTUNE AVE	2012-07-06	10:10	House	20		0.84	19	< 2.8	< 5.7	< 9	< 3.7	< 5.2	< 2.9	< 2.4	< 3.8	< 0.00015	< 0.076	< 9.5
N24509SVB2	24509 NEPTUNE AVE	2012-07-06	10:12	Back	21		0.54	21	< 2.7	8.7	< 8.6	< 3.5	< 4.9	13	< 2.3	< 3.6	< 0.00014	< 0.072	< 9
N24509SVF	24509 NEPTUNE AVE	2012-07-06	11:02	Front	21		0.46	25	< 2.9	< 5.8	< 9	< 3.7	< 5.2	< 2.9	< 2.4	< 3.8	< 0.00015	< 0.076	< 9.5
N24509SVFS	24509 NEPTUNE AVE	2012-07-06	11:02	Front		21.1	0.455	< 17 U	< 0.72 U	< 17 U	< 17 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	2.3	< 0.16 U		< 17 U
N24509SVB2	24509 NEPTUNE AVE	2013-03-14	14:44	Back	21		0.29	32	1.6 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
N24509SVB2D	24509 NEPTUNE AVE	2013-03-14	14:44	Back	21		0.3	28	1.3 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24509SVH	24509 NEPTUNE AVE	2013-03-14	14:52	House	20		0.65	41	1 J, b	< 8.7	16	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
N24509SVF	24509 NEPTUNE AVE	2013-03-14	15:14	Front	20		0.32	65	2.6 J, b	9.4	21	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 15
P24509SVH	24509 PANAMA AVE	2010-11-12	13:31	House	13		5	12	2.2 J, b	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	4
P24509SVF	24509 PANAMA AVE	2010-11-12	14:13	Front	20		1.1	< 11	1.1 J, b	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	0.19	< 3.7
P24509SVB	24509 PANAMA AVE	2010-11-12	14:44	Back	19		1.6	13	1.1 J, b	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
P24509SVH	24509 PANAMA AVE	2013-02-07	09:44	House	18		3.3	< 29	1.2 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24509SVB	24509 PANAMA AVE	2013-02-07	09:50	Back	21		1.6	< 60	< 1.2	< 19	< 30	< 12	< 17	< 9.6	< 8.1	< 12	< 0.00051	0.51	< 32
P24509SVBD	24509 PANAMA AVE	2013-02-07	09:50	Back	20		1.6	< 29	< 0.6	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24509SVH	24509 PANAMA AVE	2013-06-28	10:31	House	14		5.4	< 30	3.4 J, b	< 9.4	< 15	< 6.1	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 16
P24509SVB	24509 PANAMA AVE	2013-06-28	10:34	Back	17		4.1	< 28	1.1 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24509SVBD	24509 PANAMA AVE	2013-06-28	10:34	Back	17		4.1	< 28	1.2 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24509SVFA	24509 PANAMA AVE	2013-06-28	10:54	Front	21		< 0.024	40	3.7 J, b	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
R24509SVH	24509 RAVENNA AVE	2010-06-21	10:03	House	20		0.44	27	< 2.4	11	< 3.5	< 5.8	< 8.1	52	< 3.8	< 5.9	< 0.00024	< 0.12	51
R24509SVB	24509 RAVENNA AVE	2010-06-21	10:50	Back	20		0.12	54	< 2.3	10	5.2	20	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24509SVG	24509 RAVENNA AVE	2010-10-15	12:12	Garage	20		0.78	46	< 1.4	< 9	11	< 5.8	10	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
R24509SVG	24509 RAVENNA AVE	2012-04-12	15:49	Garage	20		0.58	54	0.77 J, b	< 6	< 9.3	< 3.8	10	< 3	< 2.5	< 3.9	< 0.00026	< 0.13	< 9.8
R24509SVB	24509 RAVENNA AVE	2013-08-15	10:06	Back	17		2	< 28	0.99 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24509SVBS	24509 RAVENNA AVE	2013-08-15	10:06	Back		17.8	2.1	< 19 U	< 0.69 U	< 19 U	< 19 U	4.5	< 1.9 U	< 1.9 U	< 1.9 U	2.1	< 0.15 U		< 19 U

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
R24509SVHA	24509 RAVENNA AVE	2013-08-15	10:13	House	20		0.46	< 29	5.1 J, b	< 9.2	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24509SVG	24509 RAVENNA AVE	2013-08-15	10:34	Garage	21		0.77	< 28	1.3 J, b	< 8.9	< 14	< 5.8	13	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
M24512SVB	24512 MARBELLA AVE	2011-04-28	08:53	Back	21		0.085	21	4.5 J, b	< 9.9	< 16	< 6.4	< 9	< 5	< 4.2	< 6.5	0.00032	< 0.13	< 16
M24512SVBS	24512 MARBELLA AVE	2011-04-28	08:53	Back		22.1	< 0.17	23	< 1.1	< 19	< 19	< 1.9	< 1.9	< 1.9	< 1.9	2.5	< 0.17		< 19
M24512SVH	24512 MARBELLA AVE	2011-04-28	09:34	House	21		0.085	< 11	2.4 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.0005	< 0.25	< 15
M24512SVF	24512 MARBELLA AVE	2011-04-28	10:12	Front	20		0.055	19	1.3 J, b	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
M24512SVFS	24512 MARBELLA AVE	2011-04-28	10:12	Front		21.7	< 0.19	< 20	< 1.2	< 20	< 20	2.3	< 2	< 2	< 2	2.8	< 0.19		< 20
M24512SVH	24512 MARBELLA AVE	2012-01-20	09:53	House	20		1	< 7.2	0.92 J, b	< 5.7	< 9	< 3.7	< 5.2	< 2.9	< 2.4	< 3.8	< 0.00015	< 0.076	< 9.5
M24512SVF	24512 MARBELLA AVE	2012-01-20	11:36	Front	21		0.72	10	0.46 J, b	< 5.7	< 9	< 3.7	< 5.2	< 2.9	< 2.4	< 3.8	< 0.00015	< 0.076	< 9.5
M24512SVFS	24512 MARBELLA AVE	2012-01-20	11:36	Front		21.4	0.775	< 17 U	< 0.99 U	< 17 U	< 17 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	2.1	< 0.16 U		< 17 U
M24512SVB	24512 MARBELLA AVE	2012-01-20	12:28	Back	21		0.12	9.8	0.42 J, b	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	0.00018	< 0.08	< 10
N24512SVH	24512 NEPTUNE AVE	2013-07-26	14:42	House	20		0.76	< 28	2.2 J, b	< 8.8	< 14	< 5.7	< 7.9	8.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24512SVB	24512 NEPTUNE AVE	2013-07-26	14:49	Back	21		0.14	77	1.3 J, b	56	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
N24512SVF	24512 NEPTUNE AVE	2013-07-26	15:09	Front	20		0.21	62	4.4 J, b	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
P24512SVH	24512 PANAMA AVE	2010-11-08	09:27	House	20		0.89	< 11	0.85 J, b	< 8.8 UJ	< 3.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
P24512SVF	24512 PANAMA AVE	2010-11-08	10:01	Front	19		0.45	450	1.1 J, b	63 J	24	19	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
P24512SVFS	24512 PANAMA AVE	2010-11-08	10:01	Front		19.9	0.529	500	0.91 J	110	40	16	< 2.7	< 2.7	< 2.7	< 2.7	< 0.15		< 27
P24512SVB	24512 PANAMA AVE	2010-11-08	10:43	Back	21		< 0.025	16	1.2 J, b	< 9.3 UJ	< 3.6	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 3.8
P24512SVH	24512 PANAMA AVE	2012-11-15	15:43	House	23		1.1	< 28	3 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00031	< 0.16	< 14
P24512SVF	24512 PANAMA AVE	2012-11-15	15:46	Front	19		2.1	< 27	1.8 J, b	< 8.4	< 13	12	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
P24512SVB	24512 PANAMA AVE	2012-11-15	16:26	Back	21		0.16	< 27	2.5 J, b	9.2	< 14	< 5.6	< 7.8	5.5	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
P24512SVH	24512 PANAMA AVE	2013-06-13	09:49	House	20		1.2	< 26	< 2.4	< 8.2	< 13	< 5.3	< 7.4	< 4.1	< 3.5	< 5.4	< 0.00022	< 0.11	< 14
P24512SVF	24512 PANAMA AVE	2013-06-13	10:01	Front	20		2.1	< 29	< 2.7	< 9.3	< 15	< 6	< 8.4	< 4.7	< 4	< 6.1	< 0.00025	< 0.12	< 15
P24512SVFS	24512 PANAMA AVE	2013-06-13	10:01	Front		20.2	2.11	< 20 U	< 0.73 U	< 20 U	< 20 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 0.16 U		< 20 U
P24512SVB	24512 PANAMA AVE	2013-06-13	10:25	Back	22		0.18	36	< 2.7	< 9.4	< 15	< 6.1	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 16
N24513SVH	24513 NEPTUNE AVE	2010-08-05	09:03	House	18		1.9	32	10 J	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24513SVB	24513 NEPTUNE AVE	2010-08-05	09:41	Back	20		< 0.023	51	< 6.2	< 8.8	3.5	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24513SVBD	24513 NEPTUNE AVE	2010-08-05	09:41	Back	20		< 0.023	73	< 6.2	9.9	5.8	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	5.6
N24513SVF	24513 NEPTUNE AVE	2010-08-05	10:21	Front	20		< 0.023	73	< 6.2	10	9.9	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24513SVF	24513 NEPTUNE AVE	2012-08-02	15:00	Front	20		0.88	< 20	< 3.1	< 6.3	< 9.9	< 4.1	< 5.7	< 3.2	< 2.7	< 4.2	< 0.00017	< 0.084	< 10
N24513SVFD	24513 NEPTUNE AVE	2012-08-02	15:00	Front	20		0.84	< 20	< 3.1	< 6.3	< 9.9	< 4.1	< 5.7	< 3.2	< 2.7	< 4.2	< 0.00017	< 0.084	< 10
N24513SVH	24513 NEPTUNE AVE	2012-08-02	15:26	House	18		2.5	< 25	< 3.9	< 7.8	< 12	< 5.1	< 7	< 3.9	< 3.3	< 5.1	< 0.00016	< 0.078	< 13
N24513SVB	24513 NEPTUNE AVE	2012-08-02	15:30	Back	19		2.7	< 18	< 2.9	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
N24513SVB	24513 NEPTUNE AVE	2013-06-05	14:57	Back	19		2.9	< 30	< 2.8	< 9.6	< 15	< 6.2	< 8.7	< 4.8	< 4.1	< 6.3	< 0.00026	< 0.13	< 16
N24513SVBS	24513 NEPTUNE AVE	2013-06-05	14:57	Back		19.3	2.86	< 23 U	< 0.82 U	< 23 U	< 23 U	< 2.3 U	< 2.3 U	< 2.3 U	< 2.3 U	< 2.3 U	< 0.18 U		< 23 U
N24513SVH	24513 NEPTUNE AVE	2013-06-05	15:16	House	19		3	37	3.1 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
N24513SVF	24513 NEPTUNE AVE	2013-06-05	15:25	Front	21		1.4	< 29	< 2.6	< 9.1	< 14	< 5.9	< 8.2	5.9 b	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24513SVB	24513 RAVENNA AVE	2010-04-23	12:51	Back	20		0.66	29	< 2.3	8.4 J	4.1	< 5.6	< 7.8	< 4.3	9.3	< 5.7	< 0.00023	< 0.11	< 3.6
R24513SVH	24513 RAVENNA AVE	2010-04-23	14:30	House	18		1.2	150	3 J, b	110	22	< 5.7	< 7.9	11	57	< 5.8	< 0.00023	< 0.12	< 3.6
R24513SVF	24513 RAVENNA AVE	2010-04-23	15:45	Front	20		0.16	180	< 2.3	19	5.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24513SVH	24513 RAVENNA AVE	2010-08-19	13:44	House	15		3.4	14	< 1.4	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
R24513SVF	24513 RAVENNA AVE	2010-08-19	14:33	Front	20		1.3	15	< 1.4	< 9	4.2	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
R24513SVB	24513 RAVENNA AVE	2010-08-19	15:14	Back	18		1.9	25	< 1.3	< 8.8	8.3	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24513SVF	24513 RAVENNA AVE	2012-05-25	14:44	Front	21		0.86	< 19	< 0.31	< 6	< 9.4	< 3.9	< 5.4	< 3	< 2.6	< 4	< 0.00016	< 0.078	< 10
R24513SVFD	24513 RAVENNA AVE	2012-05-25	14:44	Front	21		0.89	< 19	< 0.31	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
R24513SVB	24513 RAVENNA AVE	2012-05-25	15:00	Back	20		1.4	< 18	0.38 J, b	< 5.6	< 8.8	< 3.7	< 5.1	< 2.8	< 2.4	< 3.7	< 0.00015	< 0.075	< 9.3
R24513SVHA	24513 RAVENNA AVE	2013-07-25	14:42	House	21		0.14	< 28	1.2 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	0.19	< 15
R24513SVB	24513 RAVENNA AVE	2013-07-25	14:51	Back	18		1.8	< 29	1.6 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24513SVF	24513 RAVENNA AVE	2013-07-25	15:15	Front	20		1	36	0.92 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
M24516SVH	24516 MARBELLA AVE	2010-05-27	09:16	House	18		2.3	110	14 J	87	14	< 5.7	< 7.9	10	3.7	< 5.8	< 0.00023	< 0.12	5
M24516SVB	24516 MARBELLA AVE	2010-05-27	10:11	Back	19		1.4	30	< 7	11	6	< 5.8	< 8.1	< 4.5	9.2	< 5.9	< 0.00024	< 0.12	< 3.7
M24516SVG	24516 MARBELLA AVE	2010-05-27	10:55	Garage	20		0.22	19	< 7	< 9	< 3.5	< 5.8	< 8.1	< 4.5	3.8	< 5.9	< 0.00024	< 0.12	< 3.7

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
					Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
					Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
M24516SVH	24516 MARBELLA AVE	2012-05-24	14:57	House	18		2.7	< 18	1.6 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
M24516SVG	24516 MARBELLA AVE	2012-05-24	15:14	Garage	21		0.55	< 18	0.71 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
M24516SVGD	24516 MARBELLA AVE	2012-05-24	15:14	Garage	21		0.56	< 18	0.66 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
M24516SVB	24516 MARBELLA AVE	2012-05-24	15:39	Back	19		2.3	< 18	0.7 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
M24517SVF	24517 MARBELLA AVE	2009-10-06	13:40	Front	21		0.068	120	4.8 J	14	6.9	< 5.6	7.9	< 4.3	< 3.7	< 5.7	< 0.00023		42
M24517SVB	24517 MARBELLA AVE	2009-10-06	17:16	Back	21		0.028	< 11	< 2.9	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023		< 3.6
M24517SVBD	24517 MARBELLA AVE	2009-10-06	17:16	Back	21		0.029	< 11	< 2.9	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023		< 3.6
M24517SVH	24517 MARBELLA AVE	2011-02-08	09:42	House	20		< 0.024	15	0.92 J, b	< 9.1	< 3.6	< 5.9	15	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
M24517SVH	24517 MARBELLA AVE	2011-10-11	13:46	House	22		0.08	10	< 0.31	< 6	< 9.4	< 3.9	32	< 3	< 2.6	< 4	< 0.00021	< 0.1	< 10
M24517SVF	24517 MARBELLA AVE	2011-10-11	14:20	Front	20		1.1	19	< 0.33	66	< 9.9	< 4.1	17	< 3.2	< 2.7	< 4.2	< 0.00022	< 0.11	< 10
M24517SVFD	24517 MARBELLA AVE	2011-10-11	14:20	Front	20		1.1	9.1	< 0.33	< 6.4	< 10	< 4.1	9.9	< 3.2	< 2.7	< 4.2	< 0.00022	< 0.11	< 10
M24517SVB	24517 MARBELLA AVE	2011-10-11	14:57	Back	22		0.13	8.3	< 0.31	< 5.9	< 9.2	< 3.8	66	< 2.9	< 2.5	< 3.8	< 0.0002	< 0.1	< 9.7
M24517SVBD	24517 MARBELLA AVE	2011-10-11	14:57	Back	21		0.14	8.4	< 0.31	< 5.9	< 9.2	< 3.8	66	< 2.9	< 2.5	< 3.8	< 0.0002	< 0.1	< 9.7
M24517SVB	24517 MARBELLA AVE	2012-03-23	15:05	Back	21		0.055	< 18	0.49 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
M24517SVBD	24517 MARBELLA AVE	2012-03-23	15:05	Back	21		0.054	68 j	2.5 J, b	5.9 b	30 j	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
M24517SVF	24517 MARBELLA AVE	2012-03-23	15:16	Front	21		0.74	22	1.6 J, b	< 5.8	26	< 3.8	5.7	45	6.4	< 3.8	< 0.00016	< 0.078	< 9.6
M24517SVB	24517 MARBELLA AVE	2013-08-20	14:42	Back	21		0.054	< 27	3.4 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
M24517SVH	24517 MARBELLA AVE	2013-08-20	14:57	House	20		0.077	92	3.4 J, b	< 9	< 14	< 5.8	9.6	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
M24517SVF	24517 MARBELLA AVE	2013-08-20	15:02	Front	20		1	< 27	1.5 J, b	< 8.6	< 13	< 5.6	15	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
N24518SVB	24518 NEPTUNE AVE	2010-07-28	10:05	Back	20		< 0.024	40	< 6.4	12	5.5	57	< 8.2	< 4.6	18	< 6	< 0.00024	< 0.12	< 3.8
N24518SVH	24518 NEPTUNE AVE	2010-07-28	11:06	House	20		0.6	82	< 6.1	15	10	< 5.6	< 7.8	< 4.3	5	< 5.7	< 0.00023	< 0.12	< 3.6
N24518SVG	24518 NEPTUNE AVE	2010-07-28	12:10	Garage	20		1.7	24	< 6.2	< 8.8	4.2	< 5.7	< 7.9	< 4.4	4.4	< 5.8	< 0.00023	< 0.12	< 3.6
N24518SVH	24518 NEPTUNE AVE	2013-04-26	09:59	House	21		0.92	< 26	1 J, b	< 8.1	< 13	< 5.3	< 7.3	< 4.1	< 3.4	< 5.3	< 0.00022	< 0.11	< 13
N24518SVG	24518 NEPTUNE AVE	2013-04-26	10:29	Garage	20		1.4	< 27	1.2 J, b	< 8.6	< 13	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
N24518SVB	24518 NEPTUNE AVE	2013-04-26	10:32	Back	20		0.94	< 30	0.8 J, b	< 9.4	< 15	910	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 16
N24518SVBD	24518 NEPTUNE AVE	2013-04-26	10:32	Back	20		0.96	35	0.91 J, b	< 9.4	< 15	970	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 16
N24518SVB	24518 NEPTUNE AVE	2013-07-16	14:56	Back	18		1.8	39	< 0.83	< 9.3	< 14	930	9.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
N24518SVBD	24518 NEPTUNE AVE	2013-07-16	14:56	Back	18		1.8	< 30	< 0.84	< 9.4	< 15	910	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 16
N24518SVH	24518 NEPTUNE AVE	2013-07-16	15:35	House	20		2	31	4 J, b	< 9.7	< 15	< 6.3	< 8.8	< 4.9	< 4.1	< 6.4	< 0.00026	< 0.13	< 16
N24518SVG	24518 NEPTUNE AVE	2013-07-16	15:38	Garage	20		1	40	2.4 J, b	< 9	< 14	< 5.8	< 8.1	5.2	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24518SVH2	24518 RAVENNA AVE	2010-04-26	14:09	House	20		0.47	120	< 6.2	11	11	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24518SVH1	24518 RAVENNA AVE	2010-04-26	15:09	House	20		1.3	12	< 6.4	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
R24518SVF	24518 RAVENNA AVE	2010-04-26	16:04	Front	20		0.78	13	< 5.9	< 8.4	< 3.3	< 5.4	37	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
R24518SVF	24518 RAVENNA AVE	2012-07-12	14:58	Front	20		0.74	< 17	< 2.7	< 5.4	< 8.5	< 3.5	< 4.9	< 2.7	< 2.3	< 3.6	< 0.00014	< 0.072	< 9
R24518SVFD	24518 RAVENNA AVE	2012-07-12	14:58	Front	20		0.79	< 17	< 2.7	< 5.4	< 8.5	< 3.5	< 4.9	< 2.7	< 2.3	< 3.6	< 0.00014	< 0.072	< 9
R24518SVH1	24518 RAVENNA AVE	2012-07-12	15:08	House	19		1.4	< 19	< 3	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
R24518SVH2	24518 RAVENNA AVE	2012-07-12	15:49	House	19		2.2	26	< 3.1	8.2	< 9.9	< 4.1	< 5.7	< 3.2	< 2.7	< 4.2	< 0.00017	< 0.084	< 10
N24519SVB	24519 NEPTUNE AVE	2010-08-10	09:01	Back	19		1.8	14	< 6.2	< 8.8	< 3.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
N24519SVH	24519 NEPTUNE AVE	2010-08-10	09:59	House	16		2.7	15	< 6.2	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24519SVF	24519 NEPTUNE AVE	2010-08-10	10:47	Front	18		0.8	39	< 6.4	11	15	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
N24519SVB	24519 NEPTUNE AVE	2012-06-29	14:47	Back	19		2	< 20	< 3.1	< 6.3	< 9.9	< 4.1	< 5.7	< 3.2	< 2.7	< 4.2	< 0.00017	< 0.084	< 10
N24519SVBD	24519 NEPTUNE AVE	2012-06-29	14:47	Back	19		2.1	< 19	< 3.1	< 6.2	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4	< 0.00016	< 0.082	< 10
N24519SVH	24519 NEPTUNE AVE	2012-06-29	14:56	House	20		2.1	< 18	< 2.9	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
N24519SVF	24519 NEPTUNE AVE	2012-06-29	15:26	Front	19		1.7	23	< 3.1	< 6.3	< 9.9	< 4.1	< 5.7	< 3.2	< 2.7	< 4.2	< 0.00017	< 0.084	< 10
P24519SVH	24519 PANAMA AVE	2010-10-18	00:00	House	18		0.29	14	< 1.3	< 8.8	< 3.4	9.3	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24519SVF	24519 PANAMA AVE	2010-10-18	13:31	Front	20		< 0.023	13	< 1.3	< 8.6	< 3.4	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
P24519SVFS	24519 PANAMA AVE	2010-10-18	13:31	Front		20.8	< 0.15	16	0.5 J	< 16	< 16	< 1.6	< 1.6	1.9	< 1.6	2.2	< 0.15		< 16
P24519SVB	24519 PANAMA AVE	2010-10-18	14:14	Back	19		1	15	< 1.3	< 8.6	< 3.4	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
P24519SVBS	24519 PANAMA AVE	2010-10-18	14:14	Back		20.2	1.26	< 17	< 1.3	< 17	< 17	< 1.7	< 1.7	< 1.7	< 1.7	2.1	< 0.15		< 17
P24519SVB	24519 PANAMA AVE	2013-06-06	14:48	Back	20		1.7	28	< 2.5	< 8.6	< 13	< 5.5	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
P24519SVH	24519 PANAMA AVE	2013-06-06	14:48	House	19		1.7	< 29	< 2.7	< 9.3	< 15	< 6	< 8.4	18	< 4	< 6.1	< 0.00025	< 0.12	< 15
P24519SVF	24519 PANAMA AVE	2013-06-06	15:10	Front	21		0.79	< 29	< 2.7	< 9.2	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
M24522SVH	24522 MARBELLA AVE	2010-04-30	09:04	House	21		0.23	< 11	< 6.1	< 8.7	< 3.4	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
M24522SVB	24522 MARBELLA AVE	2010-04-30	09:57	Back	18		1.1	26	< 6.4	18	14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
M24522SVF	24522 MARBELLA AVE	2010-04-30	10:58	Front	21		0.042	47	< 6.3	11	< 3.5	< 5.8	< 8.1	< 4.5	13	< 5.9	< 0.00024	< 0.12	< 3.7
M24522SVFD	24522 MARBELLA AVE	2010-04-30	10:58	Front	21		0.04	45	< 6.3	< 8.9	3.7	< 5.8	< 8	< 4.5	4.2	< 5.9	< 0.00024	< 0.12	< 3.7
M24522SVG	24522 MARBELLA AVE	2010-10-13	09:08	Front	20		0.91	17	< 1.3	< 8.7	< 3.4	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
M24522SVH	24522 MARBELLA AVE	2010-10-13	10:04	House	20		0.8	10	< 1.2	8.1	< 3.2	< 5.2	< 7.3	< 4	< 3.4	< 5.3	< 0.00022	< 0.11	< 3.3
M24522SVB	24522 MARBELLA AVE	2010-10-13	11:35	Back	16		2	19	< 1.5	14	< 3.8	< 6.3	< 8.8	< 4.9	< 4.1	< 6.4	< 0.00026	< 0.13	< 4
M24522SVF	24522 MARBELLA AVE	2012-04-20	10:30	Front	21		0.53	< 24	1.2 J, b	< 7.5	< 12	< 4.8	< 6.7	< 3.7	< 3.2	< 4.9	< 0.00015	< 0.076	< 12
M24522SVH	24522 MARBELLA AVE	2012-04-20	10:32	House	20		0.98	< 18	1.5 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
M24522SVB	24522 MARBELLA AVE	2012-04-20	11:11	Back	18		1.7	69 j	2.3 J, b	< 6.4	< 10	< 4.2	< 5.8	< 3.2	< 2.7	< 4.2	< 0.00017	< 0.086	< 11
M24522SVBD	24522 MARBELLA AVE	2012-04-20	11:11	Back	18		1.7	< 20	1 J, b	< 6.3	< 9.9	< 4.1	< 5.7	< 3.2	< 2.7	< 4.2	< 0.00017	< 0.084	< 10
N24522SVH	24522 NEPTUNE AVE	2010-06-15	14:13	House	19		1.7	11 b	< 2.2	15	4.2	< 5.5	< 7.7	< 4.2	< 3.6	< 5.6	< 0.00023	< 0.11	< 3.5
N24522SVF	24522 NEPTUNE AVE	2010-06-15	14:59	Front	20		0.045	28 b	< 2.4	12	4.7	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	8.9
N24522SVH	24522 NEPTUNE AVE	2011-02-02	13:54	House	20		1.4	< 11	0.98 J, b	< 8.4	< 3.3	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
N24522SVBA	24522 NEPTUNE AVE	2011-02-02	14:25	Back	22		< 0.022	58	1.4 J, b	< 8.3	6.8	< 5.4	< 7.5	< 4.2	< 3.5	< 5.5	< 0.00022	< 0.11	< 3.4
N24522SVF	24522 NEPTUNE AVE	2011-02-02	14:57	Front	21		0.055	< 11	2.3 J, b	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	11
N24522SVH	24522 NEPTUNE AVE	2012-04-05	09:57	House	20		1.2	< 20	1.6 J, b	< 6.3	< 9.9	< 4.1	< 5.7	< 3.2	< 2.7	< 4.2	< 0.00026	< 0.13	< 10
N24522SVF	24522 NEPTUNE AVE	2012-04-05	09:59	Front	21		0.042	20	1 J, b	< 6.3	< 9.9	< 4.1	< 5.7	< 3.2	< 2.7	< 4.2	< 0.00026	< 0.13	< 10
N24522SVFD	24522 NEPTUNE AVE	2012-04-05	09:59	Front	21		0.04	< 20	0.97 J, b	< 6.3	< 9.9	< 4.1	< 5.7	< 3.2	< 2.7	< 4.2	< 0.00026	< 0.13	< 10
N24522SVBA	24522 NEPTUNE AVE	2012-04-05	10:55	Back	21		< 0.027	< 20	1.1 J, b	< 6.4	< 10	< 4.2	< 5.8	< 3.2	< 2.7	< 4.2	< 0.00027	< 0.14	< 11
N24522SVH	24522 NEPTUNE AVE	2013-06-06	09:52	House	20		1.4	< 30	< 2.7	< 9.4	< 15	< 6.1	< 8.4	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 16
N24522SVBA	24522 NEPTUNE AVE	2013-06-06	10:09	Back	21		0.074	< 27	< 2.5	< 8.6	< 13	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
N24522SVBAS	24522 NEPTUNE AVE	2013-06-06	10:09	Back		21.7	< 0.16 U	< 19 U	< 0.7 U	< 19 U	< 19 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	2	< 0.16 U		< 19 U
N24522SVFS	24522 NEPTUNE AVE	2013-06-06	10:20	Front		22	< 0.15 U	< 19 U	< 0.69 U	< 19 U	< 19 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	2	< 0.15 U		< 19 U
P24522SVG	24522 PANAMA AVE	2010-06-09	12:59	Garage	17		0.29	23	< 2.5	< 9.3	3.8	< 6	< 8.4	< 4.7	< 4	< 6.1	< 0.00025	< 0.12	< 3.9
P24522SVB	24522 PANAMA AVE	2010-06-09	14:01	Back	18		< 0.024	52	< 2.4	9.4	10	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
P24522SVH	24522 PANAMA AVE	2010-06-17	12:25	House	19		0.93	26	< 2.4	< 9.1	6.1	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
P24522SVHS	24522 PANAMA AVE	2010-06-17	12:25	House		20.5	1.08	18	< 1.4	< 18	< 18	< 1.8	< 1.8	< 1.8	< 1.8	2.2	< 0.16		< 18
P24522SVB	24522 PANAMA AVE	2013-03-22	15:11	Back	20		0.49	< 28	1.1 J, b	< 8.9 PF	< 14	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24522SVBD	24522 PANAMA AVE	2013-03-22	15:11	Back	20		0.51	32	0.94 J, b	< 9.1 PF	< 14	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 15
P24522SVH	24522 PANAMA AVE	2013-03-22	15:19	House	19		1	64	0.8 J, b	< 8.8 PF	16	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
P24522SVG	24522 PANAMA AVE	2013-03-22	15:54	Garage	20		0.91	38	< 0.55 PF	< 8.4 PF	< 13	< 5.4	< 7.5	< 4.2	< 3.5	< 5.5	< 0.00022	< 0.11	< 14
R24522SVH	24522 RAVENNA AVE	2010-11-01	13:28	House	11		1.8	20	< 1.3	< 8.6	< 3.4	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
R24522SVG	24522 RAVENNA AVE	2010-11-01	14:02	Garage	20		0.026	< 11	< 1.4	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
R24522SVB	24522 RAVENNA AVE	2010-11-01	14:41	Back	19		1	< 11	< 1.3	< 8.8	< 3.4	21	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24522SVG	24522 RAVENNA AVE	2012-08-23	15:00	Garage	20		0.92	< 30	< 0.5	< 9.5	< 15	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16
R24522SVH	24522 RAVENNA AVE	2012-08-23	15:08	House	13		4.6	42	0.71 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24522SVB	24522 RAVENNA AVE	2012-08-23	15:29	Back	19		1.5	< 31	1.3 J, b	< 9.7	< 15	< 6.3	< 8.8	< 4.9	< 4.1	< 6.4	< 0.00026	< 0.13	< 16
R24522SVH	24522 RAVENNA AVE	2013-05-21	09:54	House	16		4.7	< 27	< 2.5	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
R24522SVB	24522 RAVENNA AVE	2013-05-21	09:59	Back	21		1.1	220 j	< 2.6	< 9.1	< 14	6.6	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24522SVBD	24522 RAVENNA AVE	2013-05-21	09:59	Back	21		1.1	38 j	< 2.6	< 9	< 14	6.6	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24522SVG	24522 RAVENNA AVE	2013-05-21	10:33	Garage	21		0.67	76	< 2.6	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
M24523SVH	24523 MARBELLA AVE	2010-11-11	14:28	House	32		0.4	73	1.5 J	11	8.3	< 5.9	190	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
M24523SVG	24523 MARBELLA AVE	2010-11-11	15:24	Garage	21		0.19	< 11	0.41 J	< 8.5	< 3.3	< 5.5	9.2	7.9	< 3.6	< 5.6	< 0.00023	< 0.11	< 3.5
M24523SVB	24523 MARBELLA AVE	2010-11-11	15:51	Back	21		< 0.025	24	0.37 J	< 9.3	< 3.6	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 3.8
M24523SVB	24523 MARBELLA AVE	2012-04-24	14:30	Back				< 19	8.5 J, b	< 6	< 9.3	< 3.8	9.6	< 3	< 2.5	< 3.9			< 9.8
M24523SVG	24523 MARBELLA AVE	2012-04-27	10:08	Garage	20		0.78	< 18	2.6 J, b	< 5.7	< 9	< 3.7	10	< 2.9	< 2.4	< 3.8	< 0.0002	< 0.1	< 9.5
M24523SVGD	24523 MARBELLA AVE	2012-04-27	10:08	Garage	20		0.75	22	1.9 J, b	< 5.7	< 9	< 3.7	9.9	3.1	< 2.4	< 3.8	< 0.0002	< 0.1	< 9.5
M24523SVH	24523 MARBELLA AVE	2012-04-27	10:09	House	20		0.26	< 18	4.3 J, b	< 5.6	< 8.8	< 3.6	45	< 2.8	< 2.4	< 3.7	< 0.00015	< 0.074	< 9.3
M24523SVB	24523 MARBELLA AVE	2012-04-27	10:46	Back	21		0.2	< 18	1.6 J, b	< 5.7	< 9	< 3.7	6.9	< 2.9	< 2.4	< 3.8	< 0.00019	< 0.096	< 9.5
M24523SVH	24523 MARBELLA AVE	2013-08-28	09:42	House	21		0.19	< 28	1.2 J, b	< 8.8 PF	< 14	< 5.7	14	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
M24523SVB	24523 MARBELLA AVE	2013-08-28	09:43	Back	21		0.18	44	1.4 J, b	< 8.4 PF	< 13	< 5.4	< 7.5	< 4.2	< 3.5	< 5.5	< 0.00022	< 0.11	< 14

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

			Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
			Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
			Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**														
M24523SVG	24523 MARBELLA AVE	2013-08-28	10:08	Garage	20		0.7	< 28	0.86 J, b	< 8.9 PF	< 14	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
N24523SVH	24523 NEPTUNE AVE	2010-04-07	14:40	House	19		2.4	16	< 2.3	14 J	< 3.4	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
N24523SVF	24523 NEPTUNE AVE	2010-04-07	15:41	Front	20		0.3	46	< 2.4	10 J	20	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 3.8
N24523SVB	24523 NEPTUNE AVE	2010-04-07	16:36	Back	21		0.12	11	< 2.4	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
N24523SVH	24523 NEPTUNE AVE	2012-10-04	09:56	House	18		2.9	< 28	< 0.59	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
N24523SVF	24523 NEPTUNE AVE	2012-10-04	10:37	Front	17		4	< 25	< 0.52	< 8	< 12	< 5.2	< 7.2	< 4	< 3.4	< 5.2	< 0.00021	0.11	< 13
N24523SVB	24523 NEPTUNE AVE	2012-10-04	10:50	Back	21		0.2	27	1.7 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
N24523SVBS	24523 NEPTUNE AVE	2012-10-04	10:50	Back		21.3	0.191	< 20 U	< 0.85 U	< 20 U	< 20 U	< 2 U	< 2 U	< 2 U	< 2 U	2.3	< 0.16 U		< 20 U
N24523SVH	24523 NEPTUNE AVE	2013-02-22	10:20	House	18		2.2	< 29	3.7 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
N24523SVHS	24523 NEPTUNE AVE	2013-02-22	10:20	House		19.7	2.16	< 20 U	< 0.85 U	< 20 U	< 20 U	< 2 U	< 2 U	< 2 U	< 2 U	2.8	< 0.16 U		< 20 U
N24523SVB	24523 NEPTUNE AVE	2013-02-22	10:36	Back	20		0.069	28	1.8 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24523SVBS	24523 NEPTUNE AVE	2013-02-22	10:36	Back		21.9	< 0.16 U	< 20 U	< 0.83 U	< 20 U	< 20 U	< 2 U	< 2 U	< 2 U	< 2 U	3.3	< 0.16 U		< 20 U
N24523SVF	24523 NEPTUNE AVE	2013-02-22	11:09	Front	20		0.66	< 28	1.5 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24523SVFD	24523 NEPTUNE AVE	2013-02-22	11:09	Front	20		0.72	< 28	1.1 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24523SVF	24523 RAVENNA AVE	2009-11-08	10:58	Front	21		0.036	42	8.9 J,B, b	< 8.1	6.3	< 5.3	< 7.3	< 4.1	< 3.4	< 5.3	0.00052		< 3.4
R24523SVFS	24523 RAVENNA AVE	2009-11-08	10:58	Front		22	< 0.11	22	1.2 J	13 J	4.4	3.9	< 1.9	< 1.9	0.8 J	2.4	< 0.11		< 1.9
R24523SVBa	24523 RAVENNA AVE	2009-12-03	16:11	Back	17		3.1	30	2.6 J,B, b	< 8	6.6	7.6	< 7.2	< 4	26	< 5.3	0.0018	< 0.11	< 3.3
R24523SVH	24523 RAVENNA AVE	2010-08-24	09:54	House	19		0.83	44	2.2 J, b	16	20	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
R24523SVF	24523 RAVENNA AVE	2010-08-24	10:58	Front	20		0.24	43	< 1.3	< 8.7	7.1	6.9	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
R24523SVB	24523 RAVENNA AVE	2010-08-24	11:00	Back	17		2.3	20	< 1.4	< 9	4.9	680	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
R24523SVH	24523 RAVENNA AVE	2011-03-25	09:23	House	20		1.1	< 11	2.5 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
M24526SVH	24526 MARBELLA AVE	2010-10-13	13:28	House	20		0.35	28	< 1.4	< 8.9	< 3.5	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24526SVG	24526 MARBELLA AVE	2010-10-13	14:08	Garage	21		0.3	21	< 1.2	< 7.6	3.6	< 4.9	< 6.8	5.2	6.5	< 5	< 0.0002	< 0.1	< 3.1
M24526SVB	24526 MARBELLA AVE	2010-10-13	14:51	Back	21		0.23	36	< 1.3	19	4.2	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24526SVH	24526 MARBELLA AVE	2012-04-19	10:00	House	21		0.23	< 19	2.7 J, b	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00022	< 0.11	< 10
M24526SVG	24526 MARBELLA AVE	2012-04-19	10:36	Garage	21		0.26	< 18	1.7 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00021	< 0.1	< 9.6
M24526SVGD	24526 MARBELLA AVE	2012-04-19	10:36	Garage	21		0.26	< 18	1.4 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00021	< 0.1	< 9.6
M24526SVB	24526 MARBELLA AVE	2012-04-19	10:41	Back	21		0.23	< 20	2.5 J, b	< 6.3	< 9.9	< 4.1	< 5.7	< 3.2	< 2.7	< 4.2	< 0.00022	< 0.11	< 10
N24528SVH	24528 NEPTUNE AVE	2010-11-03	09:42	House	19		1.8	24	< 1.4	27	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24528SVG	24528 NEPTUNE AVE	2010-11-03	10:25	Garage	17		2.8	35	< 1.4	< 8.9	4.5	< 5.8	11	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24528SVB	24528 NEPTUNE AVE	2010-11-03	11:34	Back	21		< 0.023	23	< 1.3	< 8.6	< 3.4	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 3.6
N24528SVH	24528 NEPTUNE AVE	2012-03-08	10:40	House	21		1.5	< 17	10 J, b	< 5.5	< 8.6	< 3.6	< 5	< 2.8	< 2.3	< 3.6	0.00016	< 0.073	< 9.1
N24528SVG	24528 NEPTUNE AVE	2012-03-08	11:17	Garage	19		2.9	< 19	9.6 J, b	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
N24528SVGD	24528 NEPTUNE AVE	2012-03-08	11:17	Garage	19		3	< 19	7.5 J, b	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
N24528SVH	24528 NEPTUNE AVE	2013-08-20	10:26	House	19		2.3	< 27	1.3 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
N24528SVBA	24528 NEPTUNE AVE	2013-08-20	10:39	Back	20		0.052	30	2.4 J, b	< 8.6	< 14	6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
N24528SVBAS	24528 NEPTUNE AVE	2013-08-20	10:39	Back		20.9	< 0.16 U	25	< 0.7 U	< 19 U	< 19 U	4.7	< 1.9 U	< 1.9 U	< 1.9 U	2	< 0.16 U		< 19 U
N24528SVG	24528 NEPTUNE AVE	2013-08-20	10:48	Garage	16		5	< 28	1.3 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24529SVH	24529 NEPTUNE AVE	2010-11-19	12:48	House	19		1.1	110	6 J, b	< 9.3	3.8	57	< 8.4	< 4.6	< 3.9	< 6.1	0.00028	< 0.12	< 3.8
N24529SVF	24529 NEPTUNE AVE	2010-11-19	13:22	Front	20		< 0.023	21	4.4 J, b	< 8.6	< 3.4	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
N24529SVH	24529 NEPTUNE AVE	2011-03-07	10:32	House	21		0.36	16	0.63 J, b	12	< 13	25	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
N24529SVF	24529 NEPTUNE AVE	2011-03-07	11:12	Front	20		0.31	< 11	0.38 J, b	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
N24529SVF	24529 NEPTUNE AVE	2012-03-02	09:58	Front	21		0.46	37	5.2 J, b	< 6.1	10	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
N24529SVFD	24529 NEPTUNE AVE	2012-03-02	09:58	Front	21		0.47	66	7.7 J, b	< 6.1	< 9.5	4.3	82	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
N24529SVP	24529 NEPTUNE AVE	2012-03-02	10:19	Parking	21		1.2	< 20	2.7 J, b	< 6.4	< 10	9.7	< 5.8	< 3.2	< 2.7	< 4.2	< 0.00015	< 0.076	< 10
N24529SVH	24529 NEPTUNE AVE	2012-03-02	10:41	House	21		0.6	44	3.2 J, b	18	38	14	< 6	< 3.3	< 2.8	< 4.4	0.0002	< 0.08	< 11
N24529SVH	24529 NEPTUNE AVE	2013-08-23	09:45	House	19		1.5	42	3.3 J, b	< 8.8	< 14	13	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24529SVF	24529 NEPTUNE AVE	2013-08-23	09:53	Front	19		1.2	< 30	1 J, b	< 9.5	< 15	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16
N24529SVFS	24529 NEPTUNE AVE	2013-08-23	09:53	Front		19.9	1.15	23	< 0.78 U	< 22 U	< 22 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 0.17 U		< 22 U
N24529SVP	24529 NEPTUNE AVE	2013-08-23	10:32	Parking	19		2	< 27	1 J, b	< 8.5	< 13	7.2	< 7.7	< 4.2	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
P24529SVB	24529 PANAMA AVE	2012-05-17	10:17	Back	20		0.69	< 19	0.88 J, b	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
P24529SVBS	24529 PANAMA AVE	2012-05-17	10:17	Back		20.7	0.752	< 19 U	< 0.78 U	< 19 U	< 19 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	2.1	< 0.17 U		< 19 U

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
					Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
					Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
P24529SVF	24529 PANAMA AVE	2012-05-17	10:37	Front	21		0.65	< 20	0.77 J, b	< 6.3	< 9.9	< 4.1	< 5.7	< 3.2	< 2.7	< 4.2	< 0.00022	< 0.11	< 10
P24529SVFS	24529 PANAMA AVE	2012-05-17	10:37	Front		21	0.742	< 20 U	< 0.83 U	< 20 U	< 20 U	< 2 U	< 2 U	< 2 U	< 2 U	2.2	< 0.19 U		< 20 U
P24529SVHA	24529 PANAMA AVE	2012-05-31	08:20	House	20		0.34	< 19	1.5 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	0.075	< 9.8
R24529SVF	24529 RAVENNA AVE	2011-08-18	14:54	Front	20		0.055	< 11	2.5 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24529SVFS	24529 RAVENNA AVE	2011-08-18	14:54	Front		21.5	< 0.157 U	19	< 1 U	< 17 U	< 17 U	< 1.7 U	3.6	< 1.7 U	< 1.7 U	2	< 0.157 U		< 17 U
R24529SVH	24529 RAVENNA AVE	2011-08-18	15:25	House	19		2.5	< 11	0.65 J, b	< 8.9	< 14	< 5.8	9.5	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24529SVHS	24529 RAVENNA AVE	2011-08-18	15:25	House		19.7	2.8	< 18 U	< 1 U	< 18 U	< 18 U	< 1.8 U	6.5	< 1.8 U	< 1.8 U	2.1	< 0.162 U		< 18 U
R24529SVB	24529 RAVENNA AVE	2011-08-18	16:24	Back	17		3.8	< 11	1.8 J, b	< 9.1	< 14	17	< 8.2	< 4.6	< 3.9	< 6	0.014	< 0.12	< 15
R24529SVBS	24529 RAVENNA AVE	2011-08-18	16:24	Back		18.2	4.29	< 18 U	1.9	< 18 U	< 18 U	12	2.9	< 1.8 U	< 1.8 U	1.9	< 0.162 U		< 18 U
R24529SVH	24529 RAVENNA AVE	2013-08-02	14:48	House	19		1.3	< 27	2.9 J, b	< 8.6	< 13	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
R24529SVB	24529 RAVENNA AVE	2013-08-02	14:54	Back	17		4.5	50	4.2 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 15
R24529SVF	24529 RAVENNA AVE	2013-08-02	15:18	Front	20		1.2	42	0.98 J, b	< 8.7	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
M24532SVB	24532 MARBELLA AVE	2009-10-09	10:05	Back	21		0.17	20	< 2.2	< 8.6	< 3.4	< 5.6	< 7.7	< 4.3	12	< 5.6	< 0.00023		< 3.6
M24532SVBS	24532 MARBELLA AVE	2009-10-09	10:05	Back		21.9	0.201	16 J	0.72 J	11 J	2.7	1.8 J	< 2.3	1.9 J	1.2 J	2.3	< 0.12		< 2.3
M24532SVF	24532 MARBELLA AVE	2009-10-09	11:40	Front	20		0.82	15	< 2.1	< 8.4	< 3.3	6.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00045		4.9
M24532SVFS	24532 MARBELLA AVE	2009-10-09	11:40	Front		20.7	0.863	15 J	0.57 J	3 J	3.7	5	3.5	< 2	0.53 J	2.3	< 0.12		0.79 J
M24532 SVH	24532 MARBELLA AVE	2011-09-23	08:33	House	19		0.11	13	0.92 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
M24532 SVF	24532 MARBELLA AVE	2011-09-23	09:04	Front	19		1.3	29	0.56 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
M24532 SVF D	24532 MARBELLA AVE	2011-09-23	09:04	Front	19		1.3	20	< 0.47	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
M24532 SVB	24532 MARBELLA AVE	2011-09-23	09:37	Back	21		0.24	15	< 0.46	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
M24532SVH	24532 MARBELLA AVE	2012-04-05	15:17	House	20		1.4	< 19	0.92 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00025	< 0.12	< 9.8
M24532SVF	24532 MARBELLA AVE	2012-04-05	15:24	Front	20		0.68	< 18	0.81 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00027	< 0.14	< 9.6
M24532SVB	24532 MARBELLA AVE	2012-04-05	15:56	Back	21		0.12	< 18	0.77 J, b	< 5.6	< 8.8	< 3.6	< 5	< 2.8	< 2.4	< 3.7	< 0.00024	< 0.12	< 9.3
M24532SVBD	24532 MARBELLA AVE	2012-04-05	15:56	Back	21		0.12	< 18	0.78 J, b	16	< 8.8	< 3.6	< 5	< 2.8	< 2.4	< 3.7	< 0.00024	< 0.12	< 9.3
M24532SVH	24532 MARBELLA AVE	2013-08-23	13:48	House	18		2.5	< 27	0.98 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
M24532SVF	24532 MARBELLA AVE	2013-08-23	13:54	Front	18		1.9	160	1.2 J, b	< 9.7	< 15	< 6.3	< 8.7	< 4.8	< 4.1	< 6.4	< 0.00026	< 0.13	< 16
M24532SVB	24532 MARBELLA AVE	2013-08-23	14:18	Back	20		0.4	< 29	1.1 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
N24532SVG	24532 NEPTUNE AVE	2010-05-19	14:06	Garage	21		< 0.027	56	< 7.2	26	< 4	< 6.7	< 9.2	110	28	< 6.8	< 0.00027	< 0.14	< 4.2
N24532SVH	24532 NEPTUNE AVE	2010-05-19	14:56	House	21		0.034	220	< 6.2	130	18	< 5.7	< 7.9	64	7.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24532SVB2	24532 NEPTUNE AVE	2010-09-03	13:33	Back	21		< 0.023	25	< 1.4	32	< 3.4	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
N24532SVB2D	24532 NEPTUNE AVE	2010-09-03	13:33	Back	21		< 0.023	23	< 1.4	< 8.6	< 3.4	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
N24532SVB2	24532 NEPTUNE AVE	2013-03-01	15:21	Back	21		0.056	< 28	4.6 J, b	< 8.9	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
N24532SVB2D	24532 NEPTUNE AVE	2013-03-01	15:21	Back	21		0.052	< 28	2.9 J, b	< 8.9	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
N24532SVG	24532 NEPTUNE AVE	2013-03-01	15:59	Garage	21		0.066	< 29	3.7 J, b	< 9.2	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
N24532SVHB	24532 NEPTUNE AVE	2013-06-19	10:01	House	21		< 0.024	79	4.1 J, b	29	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	0.17	< 15
N24532SVB2	24532 NEPTUNE AVE	2013-06-19	10:05	Back			0.075	< 27	< 0.77	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.0003	< 0.15	< 14
N24532SVB2D	24532 NEPTUNE AVE	2013-06-19	10:05	Back	22		0.068	< 28	< 0.8	< 8.9	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00032	< 0.16	< 15
N24532SVG	24532 NEPTUNE AVE	2013-06-19	10:33	Garage	21		0.095	< 28	< 0.8	< 8.9	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
P24532SVG	24532 PANAMA AVE	2012-05-10	09:54	Garage	19		0.11	< 19	0.76 J	< 6.2	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4	< 0.00016	< 0.082	< 10
P24532SVGS	24532 PANAMA AVE	2012-05-10	09:54	Garage		19.8	0.11 K	21	< 0.78 U	< 19 U	< 19 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	2.2	< 0.17 U		< 19 U
P24532SVH	24532 PANAMA AVE	2012-05-10	09:54	House	20		0.52	< 19	< 0.31 PF	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	0.2	< 9.8
P24532SVB	24532 PANAMA AVE	2012-05-10	10:23	Back	20		0.17	< 18	< 0.29 PF	< 5.6	< 8.8	46	< 5	< 2.8	< 2.4	< 3.7	< 0.00015	< 0.074	< 9.3
P24532SVBS	24532 PANAMA AVE	2012-05-10	10:23	Back		20.7	0.193	< 17 U	< 0.73 U	< 17 U	< 17 U	45	< 1.7 U	< 1.7 U	< 1.7 U	2.2	< 0.16 U		< 17 U
P24532SVB	24532 PANAMA AVE	2013-08-21	14:40	Back	18		1.9	< 28	5.7 J, b	< 9	< 14	61	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24532SVG	24532 PANAMA AVE	2013-08-21	15:11	Garage	18		3.1	< 28	2.3 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
P24532SVH	24532 PANAMA AVE	2013-08-21	15:51	House	19		0.86	58	1.6 J, b	11	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	0.14	< 15
R24532SVB	24532 RAVENNA AVE	2010-08-18	13:25	Back	20		< 0.023	66	< 1.3	11	7.3	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	4.3
R24532SVF	24532 RAVENNA AVE	2010-08-18	13:58	Front	19		0.59	< 12	< 1.4	< 9.4	< 3.7	< 6.1	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 3.9
R24532SVB	24532 RAVENNA AVE	2011-05-11	14:05	Back	21		0.2	< 11	1.4 J, b	< 8.9	< 14	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24532SVF	24532 RAVENNA AVE	2011-05-11	15:02	Front	21		0.53	< 13	2.6 J, b	< 10	< 16	< 6.7	< 9.4	< 5.2	< 4.4	8.4	< 0.00028	< 0.14	< 17
R24532SVFD	24532 RAVENNA AVE	2011-05-11	15:02	Front	21		0.52	< 13	< 0.39 uj	< 10	< 16	< 6.7	< 9.2	< 5.1	< 4.4	9.8	< 0.00027	< 0.14	< 17
R24532SVH	24532 RAVENNA AVE	2011-05-11	15:48	House	21		0.14	51	0.41 J, b	20	< 14	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	0.14	< 14

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
					Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
					Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
R24532SVHD	24532 RAVENNA AVE	2011-05-11	15:48	House	21		0.14	52	0.94 J, b	21	< 14	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	0.16	< 14
R24532SVB	24532 RAVENNA AVE	2012-11-16	14:54	Back	20		0.55	< 28	1.8 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24532SVF	24532 RAVENNA AVE	2012-11-16	15:37	Front	20		0.81	< 29	0.95 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24532SVB	24532 RAVENNA AVE	2013-07-31	14:41	Back	21		0.47	< 30	0.98 J, b	< 9.4	< 15	< 6.1	< 8.4	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 16
R24532SVF	24532 RAVENNA AVE	2013-07-31	15:31	Front	20		0.79	40	0.86 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
R24532SVH	24532 RAVENNA AVE	2013-07-31	15:48	House	20		0.44	< 27	< 0.78	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	0.2	< 14
N24533SVH	24533 NEPTUNE AVE	2010-07-12	13:52	House	19		0.083	76	< 2.3 Q, uj	< 8.8	18	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24533SVF	24533 NEPTUNE AVE	2010-07-12	14:26	Front	19		0.5	22	< 2.4 Q, uj	< 9	< 3.5	89	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24533SVB	24533 NEPTUNE AVE	2010-07-12	15:01	Back	20		0.61	< 11	< 2.3 Q, uj	< 8.7	< 3.4	20	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
N24533SVB	24533 NEPTUNE AVE	2013-03-07	09:58	Back	21		0.52	< 28	1.2 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
N24533SVBS	24533 NEPTUNE AVE	2013-03-07	09:58	Back		21	0.497	< 20 U	< 0.82 U	< 20 U	< 20 U	2.9	< 2 U	< 2 U	< 2 U	2.1	< 0.16 U		< 20 U
N24533SVH	24533 NEPTUNE AVE	2013-03-07	10:00	House	20		1.3	< 28	0.79 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24533SVF	24533 NEPTUNE AVE	2013-03-07	10:33	Front	18		1.2	< 28	1.4 J, b	< 8.7	< 14	12	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
N24533SVFS	24533 NEPTUNE AVE	2013-03-07	10:33	Front		18.7	1.17	< 20 U	< 0.83 U	< 20 U	< 20 U	14	< 2 U	< 2 U	< 2 U	2.6	< 0.16 U		< 20 U
N24533SVB	24533 NEPTUNE AVE	2013-07-03	09:44	Back	21		0.49	40	< 0.79	< 8.8	< 14	30	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24533SVBD	24533 NEPTUNE AVE	2013-07-03	09:44	Back	21		0.5	< 28	< 0.8	< 9	< 14	31	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
N24533SVH	24533 NEPTUNE AVE	2013-07-03	10:00	House	19		1.7	< 29	< 0.81	< 9.1	< 14	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 15
N24533SVF	24533 NEPTUNE AVE	2013-07-03	10:10	Front	20		1.6	< 28	0.8 J, b	< 8.8	< 14	23	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
P24533SVH	24533 PANAMA AVE	2011-03-18	13:41	House	19		1.3	< 11	1.7 J, b	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
P24533SVBA	24533 PANAMA AVE	2011-03-18	14:10	Back	21		0.052	32	< 0.34	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
P24533SVFA	24533 PANAMA AVE	2011-03-18	14:44	Front	21		0.072	13	< 0.33	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
P24533SVFAD	24533 PANAMA AVE	2011-03-18	14:44	Front	21		0.072	18	< 0.33	< 8.7	< 14	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
P24533SVFA	24533 PANAMA AVE	2012-09-20	10:33	Front	20		1.1	< 29	2.9 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24533SVFAS	24533 PANAMA AVE	2012-09-20	10:33	Front		20.6	1.13	< 20 U	< 0.83 U	< 20 U	< 20 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 0.16 U		< 20 U
P24533SVH	24533 PANAMA AVE	2012-09-20	10:44	House	17		2.6	30	2 J, b	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
P24533SVBA	24533 PANAMA AVE	2012-09-20	11:28	Back	21		0.096	< 30	1.2 J, b	< 9.5	< 15	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16
P24533SVBA	24533 PANAMA AVE	2013-07-24	14:42	Back	21		0.077	33	1.4 J, b	< 9.5	< 15	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16
P24533SVH	24533 PANAMA AVE	2013-07-24	14:47	House	18		2.9	610	1.2 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24533SVFA	24533 PANAMA AVE	2013-07-24	15:05	Front	20		0.86	100	0.92 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24533SVG	24533 RAVENNA AVE	2010-09-07	09:26	Garage	20		< 0.027	14	< 1.6	< 10	< 4	< 6.6	< 9.1	< 5.1	< 4.3	17	< 0.00027	0.15	< 4.2
R24533SVH	24533 RAVENNA AVE	2010-09-07	10:05	House	20		0.15	20	< 1.5	< 9.3	< 3.6	< 6	< 8.4	< 4.6	< 3.9	74	< 0.00025	< 0.12	< 3.8
R24533SVB	24533 RAVENNA AVE	2010-09-07	11:04	Back	20		< 0.024	26	< 6.4	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	7	< 0.00024	< 0.12	< 3.8
R 24 533 SVH	24533 RAVENNA AVE	2012-09-27	10:16	House	21		0.2	< 28	< 0.59	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R 24 533 SVG	24533 RAVENNA AVE	2012-09-27	10:18	Garage	17		0.34	29	0.63 J, b	< 8.1	< 13	< 5.3	< 7.3	< 4.1	< 3.4	16	< 0.00022	< 0.11	< 13
R 24 533 SVB	24533 RAVENNA AVE	2012-09-27	11:05	Back	20		0.29	< 28	< 0.58	< 8.9	< 14	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00048	< 0.24	< 15
R24533SVHA	24533 RAVENNA AVE	2013-08-27	09:49	House	21		0.19	94	8.2 J, b	15 PF	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24533SVB	24533 RAVENNA AVE	2013-08-27	09:55	Back	20		0.45	30	1.4 J, b	< 8.4 PF	< 13	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
R24533SVBS	24533 RAVENNA AVE	2013-08-27	09:55	Back		21.4	0.484	51	< 0.69 U	< 19 U	< 19 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	2.2	< 0.15 U		< 19 U
R24533SVG	24533 RAVENNA AVE	2013-08-27	10:20	Garage	20		0.45	< 29	1.7 J, b	< 9.3 PF	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
M24602SVF	24602 MARBELLA AVE	2010-11-04	13:10	Front	21		0.76	15	< 1.3	< 8.7	< 3.4	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
M24602SVB	24602 MARBELLA AVE	2010-11-04	13:54	Back	20		0.31	30	< 1.4	< 9.5	4.1	14	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 3.9
M24602SVH	24602 MARBELLA AVE	2012-06-01	09:55	House	21		0.072	< 18	1.5 J, b	< 5.7	< 9	< 3.7	< 5.2	32	< 2.4	< 3.8	< 0.00015	< 0.076	< 9.5
M24602SVF	24602 MARBELLA AVE	2012-06-01	10:05	Front	20		0.79	< 18	1 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	3.4	< 3.8	< 0.00016	< 0.078	< 9.6
M24602SVFS	24602 MARBELLA AVE	2012-06-01	10:05	Front		20.5	0.796	21	< 0.7 U	< 17 U	< 17 U	2.8	< 1.7 U	< 1.7 U	3.6	2.2	< 0.15 U		< 17 U
M24602SVB	24602 MARBELLA AVE	2012-06-01	10:29	Back	21		0.25	< 19	0.75 J, b	< 6.1	< 9.6	< 4	< 5.5	< 3	< 2.6	< 4	0.00016	< 0.081	< 10
M24602SVBS	24602 MARBELLA AVE	2012-06-01	10:29	Back		21.4	0.274	< 18 U	< 0.74 U	< 18 U	< 18 U	2.6	< 1.8 U	< 1.8 U	< 1.8 U	2.1	< 0.16 U		< 18 U
M24602SVB	24602 MARBELLA AVE	2013-08-27	14:57	Back	20		1	66	0.56 J, b	< 9.2 PF	< 14	8.4	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
M24602SVH	24602 MARBELLA AVE	2013-08-27	15:00	House	20		0.81	< 28	0.53 J, b	< 9 PF	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
M24602SVF	24602 MARBELLA AVE	2013-08-27	15:24	Front	20		0.66	35	1.1 J, b	< 9.5 PF	< 15	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00023	< 0.12	< 16
N24602SVH	24602 NEPTUNE AVE	2010-07-27	09:30	House	20		0.22	31 b	< 6	< 8.6	4.4 b	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
N24602SVB	24602 NEPTUNE AVE	2010-07-27	10:10	Back	20		< 0.023	64 b	< 6.2	< 8.8	9.5 b	< 5.7	< 7.9	< 4.4	9.2	< 5.8	< 0.00023	< 0.12	< 3.6
N24602SVF	24602 NEPTUNE AVE	2010-07-27	11:00	Front	20		< 0.023	59 b	< 6.2	< 8.8	5.3 b	< 5.7	< 7.9	< 4.4	8.4	< 5.8	< 0.00023	< 0.12	< 3.6

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
N24602SVB	24602 NEPTUNE AVE	2011-03-04	15:08	Back	21		0.17	29	0.95 J, b	< 8.6	< 13	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
N24602SVF	24602 NEPTUNE AVE	2011-03-04	15:22	Front	21		< 0.024	20	1.6 J, b	10	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
N24602SVFD	24602 NEPTUNE AVE	2011-03-04	15:22	Front	21		< 0.023	14	0.74 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24602SVH	24602 NEPTUNE AVE	2011-03-04	15:56	House	21		0.19	13	0.79 J, b	< 8.6	< 13	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
N24602SVB	24602 NEPTUNE AVE	2012-06-29	09:59	Back	23		0.21	< 20	< 3.1	< 6.3	< 9.9	< 4.1	< 5.7	< 3.2	< 2.7	< 4.2	< 0.00022	< 0.11	< 10
N24602SVBS	24602 NEPTUNE AVE	2012-06-29	09:59	Back		21.4	0.221	< 18 U	< 0.75 U	< 18 U	< 18 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	2.3	< 0.17 U		< 18 U
N24602SVH	24602 NEPTUNE AVE	2012-06-29	10:05	House	21		0.26	< 18	< 2.9	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.0002	< 0.1	< 9.6
N24602SVF	24602 NEPTUNE AVE	2012-06-29	10:34	Front	22		0.042	< 20	< 3.1	< 6.3	< 9.9	< 4.1	< 5.7	< 3.2	< 2.7	< 4.2	< 0.00022	< 0.11	< 10
N24602SVFS	24602 NEPTUNE AVE	2012-06-29	10:34	Front		21.5	< 0.16 U	18	< 0.73 U	< 17 U	< 17 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	2.1	< 0.16 U		< 17 U
R24602SVB	24602 RAVENNA AVE	2012-10-05	09:57	Back	21		0.28	41	1.8 J, b	13	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24602SVF	24602 RAVENNA AVE	2012-10-05	09:57	Front	20		0.68	< 31	5 J, b	< 9.9	< 16	< 6.4	< 9	< 5	< 4.2	< 6.5	< 0.00026	< 0.13	< 16
R24602SVFS	24602 RAVENNA AVE	2012-10-05	09:57	Front		20.9	0.689	< 26 U	< 1.1 U	< 26 U	< 26 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U	< 0.21 U		< 26 U
R24602SVH	24602 RAVENNA AVE	2012-10-05	10:57	House	20		1.1	< 29	1 J, b	< 9.3	< 14	< 6	14	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
R24602SVB	24602 RAVENNA AVE	2013-04-10	10:04	Back	21		0.41	< 29	0.72 J, b	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
R24602SVH	24602 RAVENNA AVE	2013-04-10	10:09	House	21		0.92	< 28	0.69 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24602SVF	24602 RAVENNA AVE	2013-04-10	10:35	Front	21		0.45	< 27	0.67 J, b	< 8.4	< 13	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
M24603SVB	24603 MARBELLA AVE	2009-09-24	11:29	Back	20		0.43	270	13 J	< 30	64	65	< 27	700	4500	< 20	< 0.00024		< 12
M24603SVF	24603 MARBELLA AVE	2009-09-24	12:22	Front	21		0.2	13	< 2.9	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023		< 3.6
M24603SVH	24603 MARBELLA AVE	2010-01-15	11:00	House	20		0.61	< 11	< 2.2	< 8.4	< 3.3	< 5.5	11	< 4.2	< 3.6	< 5.5	< 0.00022	0.17	< 3.5
M24603SVF	24603 MARBELLA AVE	2010-01-15	11:56	Front	21		0.2	< 10	< 2.1	< 8	< 3.1	11	< 7.2	< 4	< 3.4	< 5.3	< 0.00021	< 0.11	< 3.3
M24603SVB	24603 MARBELLA AVE	2010-01-15	12:34	Back	19		0.92	30	< 2.4	9.7	13	24	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24603SVH	24603 MARBELLA AVE	2010-10-15	13:37	House	20		0.8	38	1.8 J, b	25	< 3.4	< 5.6	14	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
M24603SVHS	24603 MARBELLA AVE	2010-10-15	13:37	House		20.8	0.888	23	< 1.4	< 18	< 18	< 1.8	13	< 1.8	< 1.8	2	< 0.16		< 18
M24603SVF	24603 MARBELLA AVE	2010-10-15	13:45	Front	20		0.93	36	< 1.3	< 8.8	< 3.4	9.6	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24603SVB	24603 MARBELLA AVE	2010-10-15	14:17	Back	19		0.95	18	< 1.4	< 9.3	< 3.6	140	< 8.4	< 4.7	< 4	< 6.1	< 0.00025	< 0.12	< 3.9
N24603SVH	24603 NEPTUNE AVE	2010-11-04	09:20	House	15		5.4	14	< 1.2	< 7.9	< 3.1	< 5.1	< 7.1	5.6	< 3.4	< 5.2	0.00024	< 0.1	< 3.3
N24603SVG	24603 NEPTUNE AVE	2010-11-04	09:59	Garage	19		1.7	< 11	< 1.3	< 8.7	< 3.4	< 5.6	< 7.8	6.1	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
N24603SVB	24603 NEPTUNE AVE	2010-11-04	10:35	Back	17		4.4	< 11	< 1.3	< 8.8	< 3.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
N24603SVBD	24603 NEPTUNE AVE	2010-11-04	10:35	Back	17		4.5	< 11	< 1.3	< 8.8	< 3.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
N24603SVB	24603 NEPTUNE AVE	2013-03-07	14:51	Back	18		1.4	< 28	1.4 J, b	< 8.7	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
N24603SVBD	24603 NEPTUNE AVE	2013-03-07	14:51	Back	19		1.4	< 28	1.5 J, b	< 8.7	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
N24603SVH	24603 NEPTUNE AVE	2013-03-07	14:54	House				< 28	2.2 J, b	< 8.9	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8			< 15
N24603SVG	24603 NEPTUNE AVE	2013-03-07	15:25	Garage	19		1.6	29	0.99 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24603SVH	24603 NEPTUNE AVE	2013-07-18	15:02	House	15		5.9	< 25	1.1 J, b	< 8	< 12	< 5.2	< 7.2	< 4	< 3.4	< 5.2	< 0.00021	< 0.11	< 13
N24603SVB	24603 NEPTUNE AVE	2013-07-18	15:13	Back	20		0.92	65	< 0.82	< 9.2	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
N24603SVG	24603 NEPTUNE AVE	2013-07-18	15:26	Garage	17		3.4	360	< 0.79	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
P24603SVH	24603 PANAMA AVE	2011-02-10	08:56	House	20		< 0.023	64	3.9 J, b	< 8.6	6.5	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	4.8
P24603SVF	24603 PANAMA AVE	2011-02-10	09:30	Front	16		3.8	12	2.3 J, b	< 8.4	< 3.3	6.9	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
P24603SVG	24603 PANAMA AVE	2011-02-10	10:09	Garage	21		< 0.023	14	1.1 J, b	< 8.6	< 3.4	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
P24603SVGS	24603 PANAMA AVE	2011-02-10	10:09	Garage		21.7	< 0.17	18	< 1.4	< 18	< 18	< 1.8	< 1.8	< 1.8	< 1.8	2.4	< 0.17		< 18
P24603SVH	24603 PANAMA AVE	2012-10-19	09:43	House	18		0.64	36	< 0.59 PF	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24603SVF	24603 PANAMA AVE	2012-10-19	10:08	Front	16		4.9	< 29	< 0.61 PF	< 9.3	< 14	17	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
P24603SVFD	24603 PANAMA AVE	2012-10-19	10:08	Front	16		4.8	< 29	< 0.6 PF	< 9.1	< 14	17	< 8.2	6.8	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24603SVG	24603 PANAMA AVE	2012-10-19	10:16	Garage	19		1.5	< 28	< 0.59 PF	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24603SVB	24603 RAVENNA AVE	2009-09-19	10:49	Back	20		2	11	< 2.8	< 8.5	< 3.3	< 5.5	< 7.7	< 4.2	< 3.6	< 5.6	< 0.00023		< 3.5
R24603SVF	24603 RAVENNA AVE	2009-09-19	11:36	Front	21		0.14	36	< 3.3	< 9.9	4.8	< 6.4	< 9	< 5	< 4.2	< 6.5	< 0.00026		< 4.1
R24603SVH	24603 RAVENNA AVE	2011-02-24	09:28	House	21		0.13	210	4.8 J, b	12	40	< 5.4	< 7.5	87	< 3.5	< 5.5	< 0.00022	0.13	< 14
R24603SVF	24603 RAVENNA AVE	2011-02-24	10:10	Front	21		0.53	18	0.58 J, b	< 8.8	< 14	< 5.7	< 8	17	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
R24603SVB	24603 RAVENNA AVE	2011-02-24	11:07	Back	20		1.6	< 11	< 0.33	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
R24603SVBS	24603 RAVENNA AVE	2011-02-24	11:07	Back		20.6	1.63	< 15	< 0.89	< 15	< 15	< 1.5	< 1.5	1.6	< 1.5	2	< 0.14		< 15
R24603SVH	24603 RAVENNA AVE	2012-06-01	15:50	House	21		0.24	20	0.81 J, b	< 6	< 9.4	< 3.9	< 5.4	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
R24603SVB	24603 RAVENNA AVE	2012-06-01	15:51	Back	17		4.5	< 19	0.55 J, b	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
R24603SVBD	24603 RAVENNA AVE	2012-06-01	15:51	Back	17		4.7	< 19	0.53 J, b	< 6.1	< 9.6	< 4	< 5.5	< 3.1	< 2.6	< 4	< 0.00016	< 0.082	< 10
R24603SVF	24603 RAVENNA AVE	2012-06-01	16:24	Front	20		1.4	28	0.94 J, b	< 5.9	< 9.2	< 3.8	< 5.3	4.3	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.7
R24603SVFD	24603 RAVENNA AVE	2012-06-01	16:24	Front	20		1.4	< 19	0.73 J, b	< 5.9	< 9.2	< 3.8	< 5.3	< 3	< 2.5	< 3.9	< 0.00016	< 0.078	< 9.8
M24606SVB	24606 MARBELLA AVE	2010-04-20	14:37	Back	20		0.19	26	5.2 J, b	< 8.8	< 3.4	< 5.7	8.6	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24606SVF	24606 MARBELLA AVE	2010-04-20	15:41	Front	12		2.7	38	3.8 J, b	< 8.8	6.6	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	7
M24606SVH	24606 MARBELLA AVE	2010-04-20	16:40	House	19		1.4	16	< 2.3	< 8.7	4	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	0.54	< 3.6
M24606SVF	24606 MARBELLA AVE	2012-01-13	12:28	Front	18		3.2	15	0.76 J, b	12	< 9.1	< 3.8	< 5.2	14	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
M24606SVFS	24606 MARBELLA AVE	2012-01-13	12:28	Front		18.1	3.36	< 17 U	< 0.99 U	< 17 U	< 17 U	< 1.7 U	< 1.7 U	2.3	< 1.7 U	2.5	< 0.16 U		< 17 U
M24606SVH	24606 MARBELLA AVE	2012-01-13	13:17	House	17		3.4	21	0.76 J, b	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	0.00016	0.37	< 10
M24606SVHS	24606 MARBELLA AVE	2012-01-13	13:17	House		18	3.56	< 18 U	< 1 U	< 18 U	< 18 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	2.4	< 0.17 U		< 18 U
M24606SVB	24606 MARBELLA AVE	2012-01-13	13:54	Back	20		1	27	0.38 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
M24606SVBS	24606 MARBELLA AVE	2012-01-13	13:54	Back		20.1	1.09	< 18 U	< 1 U	< 18 U	< 18 U	< 1.8 U	2.2	< 1.8 U	< 1.8 U	2.5	< 0.16 U		< 18 U
N24608SVF	24608 NEPTUNE AVE	2010-04-29	15:18	Front	12		8.4	93	< 6.1	19 b	4.7	< 5.6	< 7.8	< 4.4	12	< 5.7	< 0.00023	< 0.12	< 3.6
N24608SVB	24608 NEPTUNE AVE	2010-04-29	16:18	Back	19		1.6	190	< 6.2	170 b	5.8	52	< 7.9	31	53	< 5.8	< 0.00023	< 0.12	6
N24608SVH	24608 NEPTUNE AVE	2010-07-09	13:17	House	20		0.4	21	< 2.3 Q, uj	< 8.8	8.6	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24608SVH	24608 NEPTUNE AVE	2010-09-08	13:44	House	20		0.58	16	1.7 J	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24608SVF	24608 NEPTUNE AVE	2010-09-08	14:15	Front	8.4		11	18	< 1.4	11	< 3.6	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
N24608SVB	24608 NEPTUNE AVE	2010-09-08	15:06	Back	19		1.7	11	< 1.3	< 8.8	< 3.4	48	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24608SVH	24608 NEPTUNE AVE	2012-05-18	14:50	House	21		0.56	< 18	0.77 J, b	< 5.9	< 9.2	< 3.8	< 5.3	< 2.9	< 2.5	< 3.8	< 0.00016	0.081	< 9.7
N24608SVF	24608 NEPTUNE AVE	2012-05-18	15:04	Front	12		7.9	< 20	0.57 J, b	< 6.2	< 9.8	< 4	< 5.6	< 3.1	< 2.6	< 4.1	< 0.00017	< 0.083	< 10
N24608SVFD	24608 NEPTUNE AVE	2012-05-18	15:04	Front	12		7.7	< 20	0.64 J, b	< 6.3	< 9.9	< 4.1	< 5.7	< 3.2	< 2.7	< 4.2	< 0.00017	< 0.084	< 10
N24608SVB	24608 NEPTUNE AVE	2012-05-18	15:22	Back	19		1.6	< 19	0.41 J, b	< 6.1	< 9.6	19	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.081	< 10
N24608SVH	24608 NEPTUNE AVE	2013-08-30	15:02	House	20		0.82	98	3.6 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
N24608SVB	24608 NEPTUNE AVE	2013-08-30	15:18	Back	19		2.6	200	1.8 J, b	< 9	< 14	36	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
N24608SVF	24608 NEPTUNE AVE	2013-08-30	15:41	Front	11		9.7	< 29	1.7 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 15
P24608SVB	24608 PANAMA AVE	2010-08-12	14:47	Back	18		2.6	60 b	16 J	11 b	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24608SVF	24608 PANAMA AVE	2010-08-12	15:23	Front	15		3.6	32 b	< 6.3	9.8 b	6.5	42	< 8.1	< 4.5	9.6	< 5.9	< 0.00024	< 0.12	< 3.7
P24608SVB	24608 PANAMA AVE	2012-04-06	15:43	Back	19		1.9	< 18	2.2 J, b	< 5.8	< 9.1	120	< 5.2	< 2.9	< 2.5	< 3.8	0.00079	< 0.12	< 9.6
P24608SVBD	24608 PANAMA AVE	2012-04-06	15:43	Back	19		1.9	< 18	4.2 J, b	< 5.8	< 9.1	110	< 5.2	3.7	< 2.5	< 3.8	0.0008	< 0.12	< 9.6
P24608SVF	24608 PANAMA AVE	2012-04-06	16:26	Front	17		3.4	< 18	2.6 J, b	< 5.7	< 9	110	98	< 2.9	< 2.4	< 3.8	< 0.00024	< 0.12	< 9.5
P24608SVHA	24608 PANAMA AVE	2012-04-27	11:38	House	19		1.1	< 19	1.1 J, b	< 5.9	< 9.2	1100	< 5.3	< 3	< 2.5	< 3.9	0.0031	0.4	< 9.8
R24608SVB	24608 RAVENNA AVE	2010-04-08	11:15	Back	18		3.2	27	< 2.3	12 J	4.8	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
R24608SVF	24608 RAVENNA AVE	2010-04-08	12:14	Front	20		0.17	46	< 2.4	13 J	8.2	6.7	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	72
R24608SVG	24608 RAVENNA AVE	2010-08-04	13:23	Garage	19		1.2	22	< 6.2	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	21	< 5.8	< 0.00023	< 0.12	< 3.6
R24608SVG	24608 RAVENNA AVE	2012-05-17	15:13	Garage	21		0.81	< 20	< 0.33 PF	< 6.3	< 9.9	< 4.1	< 5.7	< 3.2	< 2.7	< 4.2	< 0.00023	< 0.11	< 10
R24608SVGD	24608 RAVENNA AVE	2012-05-17	15:13	Garage	20		0.8	< 20	0.46 J, b	< 6.2	< 9.7	< 4	< 5.6	3.3	< 2.6	< 4.1	< 0.00022	< 0.11	< 10
R24608SVB	24608 RAVENNA AVE	2012-05-17	15:25	Back	19		2	< 19	< 0.31 PF	< 5.9	< 9.2	5.4	< 5.3	< 3	< 2.5	< 3.9	0.00035	< 0.11	< 9.8
R24608SVF	24608 RAVENNA AVE	2012-05-17	16:01	Front	20		0.63	< 19	< 0.31 PF	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00021	< 0.11	< 9.8
R24608SVG	24608 RAVENNA AVE	2013-08-22	10:02	Garage	20		1.6	36	2.1 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
R24608SVB	24608 RAVENNA AVE	2013-08-22	10:04	Back	18		3.4	< 29	1.4 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24608SVF	24608 RAVENNA AVE	2013-08-22	10:33	Front	19		1.1	32	1.5 J, b	< 9.2	< 14	13	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24608SVFS	24608 RAVENNA AVE	2013-08-22	10:33	Front		20.5	1.09	31 M1	< 0.73 U	< 20 U	< 20 U	11	< 2 U	< 2 U	< 2 U	< 2 U	< 0.16 U		< 20 U
N24609SVH	24609 NEPTUNE AVE	2010-04-28	14:09	House	17		4	< 11	< 2.4	< 8.9	< 3.5	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24609SVF	24609 NEPTUNE AVE	2010-04-28	15:06	Front	21		< 0.024	12	< 2.4	30	< 3.6	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 3.8
N24609SVFS	24609 NEPTUNE AVE	2010-04-28	15:06	Front		21.9	< 0.16	24	0.71 J	77	< 17	< 1.7	< 1.7	< 1.7	< 1.7	2.2	< 0.16		< 17
N24609SVB	24609 NEPTUNE AVE	2010-04-28	15:48	Back	21		< 0.024	32	< 2.3	13	< 3.5	6.4	< 8	< 4.4	4.9	< 5.8	< 0.00024	< 0.12	< 3.6
N24609SVF	24609 NEPTUNE AVE	2010-08-20	13:35	Front	20		0.71	17	< 1.3	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24609SVH	24609 NEPTUNE AVE	2010-08-20	14:03	House	14		5.6	26	< 1.4	< 9.3	5.1	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 3.8
N24609SVB	24609 NEPTUNE AVE	2010-08-20	14:30	Back	21		0.35	38	< 1.3	< 8.6	4.9	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	6.7
N24609SVH	24609 NEPTUNE AVE	2010-12-10	15:19	House	16		4.9	< 11	1.6 J, b	< 8.7	< 3.4	< 5.6	< 7.8	< 4.3	5.2	< 5.7	< 0.00023	< 0.12	< 3.6
N24609SVB	24609 NEPTUNE AVE	2010-12-10	15:42	Back	21		0.23	< 10	1.4 J, b	< 8.3	< 3.2	< 5.4	< 7.5	< 4.2	< 3.5	< 5.5	< 0.00022	< 0.11	< 3.4
N24609SVBD	24609 NEPTUNE AVE	2010-12-10	15:42	Back	21		0.23	< 10	0.97 J, b	< 8.3	< 3.2	< 5.4	< 7.5	< 4.2	< 3.5	< 5.5	< 0.00022	< 0.11	< 3.4

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
N24609SVF	24609 NEPTUNE AVE	2010-12-10	15:52	Front	21		0.51	< 11	1.9 J, b	< 8.4	< 3.3	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
N24609SVH	24609 NEPTUNE AVE	2013-05-03	10:11	House	16		5.2	< 24	2.1 J, b	< 7.7	< 12	< 5	< 6.9	< 3.8	< 3.2	< 5	< 0.0002	< 0.1	< 13
N24609SVB	24609 NEPTUNE AVE	2013-05-03	10:33	Back	21		0.7	< 28	< 0.58	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
N24609SVF	24609 NEPTUNE AVE	2013-05-03	10:55	Front	20		0.42	< 31	2.1 J, b	< 9.8	< 15	< 6.3	< 8.8	< 4.9	< 4.2	< 6.4	< 0.00026	0.14	< 16
P24609SVH	24609 PANAMA AVE	2010-04-30	13:27	House	20		0.55	33	< 6.2	54	8.8	< 5.7	39	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24609SVF	24609 PANAMA AVE	2010-04-30	14:39	Front	21		0.045	36	6.4 J	32	4.9	29	< 7.9	10	< 3.7	< 5.8	< 0.00023	< 0.12	6
P24609SVB	24609 PANAMA AVE	2010-04-30	15:33	Back	20		1.3	15	30	20	< 3.6	8.3	< 8.2	< 4.6	5.7	< 6	< 0.00024	< 0.12	< 3.8
P24609SVH	24609 PANAMA AVE	2010-10-25	09:26	House	18		2.6	< 12	< 1.4	< 9.2	< 3.6	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
P24609SVF	24609 PANAMA AVE	2010-10-25	10:11	Front	21		0.48	12	< 1.1	19	< 2.9	< 4.8	< 6.7	6.1	< 3.2	< 4.9	< 0.0002	< 0.1	< 3.1
P24609SVB	24609 PANAMA AVE	2010-10-25	10:56	Back	19		2.2	16	< 1.4	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
P24609SVBS	24609 PANAMA AVE	2010-10-25	10:56	Back		19.1	2.41	21	< 1.6	< 20	< 20	2.3	< 2	< 2	< 2	< 2	< 0.19		< 20
P24609SVF	24609 PANAMA AVE	2011-02-18	10:08	Front	20		0.22	< 11	3.2 J, b	< 8.4	< 3.3	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
P24609SVFS	24609 PANAMA AVE	2011-02-18	10:08	Front		22.1	0.244	< 17	< 1.3	< 17	< 17	< 1.7	< 1.7	< 1.7	< 1.7	3.2	< 0.15		< 17
P24609SVH	24609 PANAMA AVE	2011-02-18	10:31	House	21		1.3	< 11	< 0.32	< 8.4	< 3.3	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
P24609SVB	24609 PANAMA AVE	2011-02-18	11:28	Back	19		1.9	< 12	0.44 J, b	< 9.2	< 3.6	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
R24609SVH	24609 RAVENNA AVE	2010-11-09	09:25	House	20		0.2	18	1.2 J, b	< 8.8	< 3.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
R24609SVG	24609 RAVENNA AVE	2010-11-09	09:59	Garage	21		0.22	26	1.2 J, b	18	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24609SVB	24609 RAVENNA AVE	2010-11-09	10:31	Back	21		0.031	< 10	2.3 J, b	< 8.4	< 3.3	< 5.4	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	5.2
R24609SVH	24609 RAVENNA AVE	2012-09-21	15:01	House	20		0.39	< 29	0.8 J, b	14	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00031	0.28	< 15
R24609SVG	24609 RAVENNA AVE	2012-09-21	15:02	Garage	19		1.4	< 31	0.92 J, b	< 9.9	< 16	< 6.4	< 9	< 5	< 4.2	< 6.5	< 0.00026	< 0.13	< 16
R24609SVB	24609 RAVENNA AVE	2012-09-21	15:34	Back	20		0.43	54	0.75 J, b	12	< 13	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
R24609SVH	24609 RAVENNA AVE	2013-04-30	14:54	House	20		0.38	28	1.5 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	0.36	< 15
R24609SVB	24609 RAVENNA AVE	2013-04-30	15:08	Back	22		0.41	< 30	1.5 J, b	< 9.4	< 15	< 6.1	< 8.5	< 4.7	< 4	< 6.2	< 0.00032	< 0.16	< 16
R24609SVG	24609 RAVENNA AVE	2013-04-30	15:22	Garage	20		0.94	< 29	0.99 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
M24612SVH	24612 MARBELLA AVE	2010-08-13	09:15	House	19		0.2	29	< 6	26	< 3.4	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
M24612SVB	24612 MARBELLA AVE	2010-08-13	10:03	Back	20		0.093	38	< 6.2	< 8.8	11	32	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24612SVG	24612 MARBELLA AVE	2010-08-13	10:48	Garage	18		1.3	21	< 6.3	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24612SVH	24612 MARBELLA AVE	2012-05-10	14:39	House	20		0.79	< 18	< 0.3 PF	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
M24612SVG	24612 MARBELLA AVE	2012-05-10	14:53	Garage	19		2.4	< 19	< 0.31 PF	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
M24612SVGD	24612 MARBELLA AVE	2012-05-10	14:53	Garage	19		2.3	< 19	< 0.31 PF	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
M24612SVB	24612 MARBELLA AVE	2012-05-10	15:17	Back	20		0.71	< 18	< 0.3 PF	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
N24612SVH	24612 NEPTUNE AVE	2010-11-11	09:14	House	18		2.6	24	1 J	< 8.9	< 3.5	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24612SVF	24612 NEPTUNE AVE	2010-11-11	09:44	Front	20		< 0.024	18	1.1 J	< 8.9	< 3.5	6.2	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24612SVFD	24612 NEPTUNE AVE	2010-11-11	09:44	Front	20		< 0.024	21	1.4 J	< 8.9	< 3.5	5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24612SVBA	24612 NEPTUNE AVE	2011-02-07	09:21	Back	21		0.62	< 10	< 0.31	< 8.1	< 3.2	< 5.3	< 7.3	< 4.1	< 3.4	< 5.3	< 0.00022	< 0.11	< 3.4
N24612SVBAS	24612 NEPTUNE AVE	2011-02-07	09:21	Back		21.4	0.737	< 16	< 1.3	< 16	< 16	3.8	< 1.6	< 1.6	< 1.6	2.5	< 0.15		< 16
N24612SVF	24612 NEPTUNE AVE	2011-03-11	14:50	Front	20		1.1	24	1.6 J, b	< 8.8	< 14	6.4	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24612SVH	24612 NEPTUNE AVE	2011-03-11	15:17	House	19		1.9	< 11	1.6 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
N24612SVBA	24612 NEPTUNE AVE	2011-03-11	15:27	Back	21		0.4	13	2 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
N24612SVH	24612 NEPTUNE AVE	2013-08-13	14:56	House	19		1.2	27	1.2 J, b	< 8.6	< 13	< 5.5	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
N24612SVF	24612 NEPTUNE AVE	2013-08-13	15:31	Front	20		0.31	50	< 0.82 PF	< 9.2	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
N24612SVBA	24612 NEPTUNE AVE	2013-08-13	15:48	Back	20		1.3	120	1.1 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24612SVB	24612 PANAMA AVE	2013-01-25	10:24	Back	21		0.51	< 27	2 J, b	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
P24612SVG	24612 PANAMA AVE	2013-01-25	10:58	Garage	21		0.11	< 26	0.69 J, b	< 8.1	< 13	< 5.3	< 7.3	< 4.1	< 3.4	< 5.3	< 0.00022	< 0.11	< 13
P24612SVHA	24612 PANAMA AVE	2013-02-06	15:34	House	20		0.26	< 28	1.2 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	0.32	< 14
P24612SVHA	24612 PANAMA AVE	2013-05-17	14:51	House	21		0.79	< 30	0.94 J, b	16	< 15	< 6.1	< 8.5	26	< 4	< 6.2	< 0.00025	0.16	< 16
P24612SVB	24612 PANAMA AVE	2013-05-17	15:28	Back	21		0.8	36	0.78 J, b	< 9.2	< 14	9.5	< 8.3	7.2 j	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24612SVBD	24612 PANAMA AVE	2013-05-17	15:28	Back	21		0.86	35	1.1 J, b	< 9.3	< 15	10	< 8.4	50 j	< 4	< 6.1	< 0.00025	< 0.12	< 15
P24612SVG	24612 PANAMA AVE	2013-05-17	15:34	Garage	21		0.14	76	0.75 J, b	12	22	< 5.7	< 8	260	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
R24612SVH	24612 RAVENNA AVE	2011-01-14	10:04	House	20		1.1	12	< 1.3	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	0.00061	< 0.12	< 3.6
R24612SVG	24612 RAVENNA AVE	2011-01-14	10:51	Garage	21		< 0.023	27	< 1.3	< 8.6	4.9	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
R24612SVBB	24612 RAVENNA AVE	2011-01-14	11:35	Back	20		0.19	39	< 1.4	< 9	< 3.5	8.6	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
					Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
					Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
R24612SVBB	24612 RAVENNA AVE	2012-11-01	14:46	Back	20		1.4	< 28	2.5 J, b	< 8.8	< 14	8.6	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24612SVBBD	24612 RAVENNA AVE	2012-11-01	14:46	Back	20		1.3	< 28	2.6 J, b	< 8.8	< 14	8.4	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
R24612SVH	24612 RAVENNA AVE	2012-11-01	14:49	House	18		1.8	< 27	3.7 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	0.00028	< 0.12	< 14
R24612SVG	24612 RAVENNA AVE	2012-11-01	15:32	Garage	20		0.99	26	5.5 J, b	8.9	< 13	< 5.3	< 7.4	5.3	< 3.5	< 5.4	< 0.00022	< 0.11	< 14
R24612SVBB	24612 RAVENNA AVE	2013-06-25	14:50	Back	20		1	< 29	0.99 J, b	< 9.3	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
R24612SVH	24612 RAVENNA AVE	2013-06-25	14:53	House	19		1.6	< 28	0.85 J, b	< 8.7	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
R24612SVG	24612 RAVENNA AVE	2013-06-25	15:18	Garage	20		1.1	36	< 0.79	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
M24613SVH	24613 MARBELLA AVE	2010-05-26	09:03	House	20		0.7	26	< 2.3	14	9.8	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	100
M24613SVG	24613 MARBELLA AVE	2010-05-26	10:01	Garage	21		< 0.024	16	22 J	< 8.8	< 3.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
M24613SVB	24613 MARBELLA AVE	2010-05-26	10:49	Back	21		< 0.024	< 11	< 2.3	< 8.8	< 3.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
M24613SVG	24613 MARBELLA AVE	2012-10-11	11:01	Garage	21		0.42	< 29	3.3 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
M24613SVGS	24613 MARBELLA AVE	2012-10-11	11:01	Garage		21.2	0.465	23	< 0.77 U	< 18 U	< 18 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	2.1	< 0.17 U		< 18 U
M24613SVB	24613 MARBELLA AVE	2012-10-11	11:41	Back	24		0.17	40	1.5 J, b	8.7	< 13	< 5.3	< 7.3	< 4.1	< 3.4	< 5.3	< 0.00029	< 0.14	< 13
M24613SVHA	24613 MARBELLA AVE	2012-10-24	12:14	House	18		1.8	41	2.3 J, b	28	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
M24613SVHA	24613 MARBELLA AVE	2013-04-19	10:01	House	20		2.3	37	2.4 J, b	< 8.4	< 13	< 5.4	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
M24613SVB	24613 MARBELLA AVE	2013-04-19	10:10	Back	22		0.13	< 29	1.8 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 15
M24613SVBD	24613 MARBELLA AVE	2013-04-19	10:10	Back	22		0.13	< 29	0.71 J, b	< 9.3	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
M24613SVG	24613 MARBELLA AVE	2013-04-19	10:35	Garage	21		0.24	< 26	0.58 J, b	< 8.2	< 13	< 5.3	< 7.4	< 4.1	< 3.5	< 5.4	< 0.00022	< 0.11	< 14
N24613SVB	24613 NEPTUNE AVE	2010-08-09	13:59	Back	20		< 0.024	47	< 6.4	< 9.1	11	11	< 8.2	< 4.6	< 3.9	< 6	0.007	< 0.12	27
N24613SVF	24613 NEPTUNE AVE	2010-08-09	14:44	Front	20		0.1	100	< 6.3	< 9	5.9	< 5.8	< 8.1	< 4.5	4.7	< 5.9	0.00034	< 0.12	150
N24613SVH	24613 NEPTUNE AVE	2012-05-11	09:55	House	19		1.1	< 18	< 2.8 PF	< 5.7	< 9	< 3.7	< 5.2	< 2.9	< 2.4	5.6	< 0.0002	< 0.098	< 9.5
N24613SVF	24613 NEPTUNE AVE	2012-05-11	10:04	Front	21		0.64	< 19	< 3.1 PF	< 6.2	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4	< 0.0002	< 0.1	< 10
N24613SVFS	24613 NEPTUNE AVE	2012-05-11	10:04	Front		21.1	0.655	< 19 U	< 0.79 U	< 19 U	< 19 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	2.8	< 0.18 U		< 19 U
N24613SVB	24613 NEPTUNE AVE	2012-05-11	10:42	Back	20		0.1	< 19	< 3 PF	< 6	< 9.3	8.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00021	< 0.1	< 9.8
N24613SVBS	24613 NEPTUNE AVE	2012-05-11	10:42	Back		21.1	< 0.16 U	< 18 U	< 0.74 U	< 18 U	< 18 U	7.3	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 0.16 U		< 18 U
N24613SVB	24613 NEPTUNE AVE	2013-08-29	09:42	Back	20		0.29	< 31	0.95 J, b	< 9.8 PF	< 15	< 6.3	< 8.8	< 4.9	< 4.1	< 6.4	0.00034	< 0.13	< 16
N24613SVBD	24613 NEPTUNE AVE	2013-08-29	09:42	Back	20		0.29	33	1.3 J, b	< 9.8 PF	< 15	< 6.3	< 8.8	< 4.9	< 4.1	< 6.4	0.00034	< 0.13	< 16
N24613SVH	24613 NEPTUNE AVE	2013-08-29	09:47	House	18		2.4	< 31	1 J, b	< 9.7 PF	< 15	< 6.3	< 8.8	< 4.9	< 4.1	< 6.4	< 0.00026	< 0.13	< 16
P24613SVF	24613 PANAMA AVE	2010-06-25	14:07	Front	21		< 0.024	49	< 2.4 UJ	13	8.4	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 3.8
P24613SVH	24613 PANAMA AVE	2010-06-25	14:43	House	20		0.16	140	< 2.4 UJ	65	22	6.4	97	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	20
P24613SVB	24613 PANAMA AVE	2010-06-25	15:25	Back	20		0.096	48	< 2.3 UJ	13	4.4	< 5.7	120	< 4.4	6.6	< 5.8	< 0.00024	< 0.12	230
P24613SVH	24613 PANAMA AVE	2011-02-10	10:10	House	21		0.33	18	0.8 J, b	< 8.4	< 3.3	< 5.5	120	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
P24613SVF	24613 PANAMA AVE	2011-02-10	10:48	Front	21		0.064	< 11	0.65 J, b	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24613SVB	24613 PANAMA AVE	2011-02-10	10:59	Back	21		0.11	< 11	0.64 J, b	< 9	< 3.5	< 5.8	16	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
P24613SVB	24613 PANAMA AVE	2012-09-13	14:58	Back	20		0.15	56	2.3 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24613SVBD	24613 PANAMA AVE	2012-09-13	14:58	Back	20		0.16	44	2.5 J, b	9	< 14	< 5.8	23 j	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24613SVF	24613 PANAMA AVE	2012-09-13	15:05	Front	20		0.12	38	4.5 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24613SVH	24613 PANAMA AVE	2012-09-13	15:45	House	19		0.6	< 29	1.8 J, b	< 9.1	< 14	< 5.9	190	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24613SVH	24613 RAVENNA AVE	2009-12-31	13:46	House	21		0.96	51	< 2.4	16 J	4.5	< 5.9	< 8.2	< 4.6	4.2	< 6	< 0.00024	< 0.12	< 3.8
R24613SVF	24613 RAVENNA AVE	2009-12-31	14:22	Front	21		0.3	31	< 2.4	24 J	10	< 6	45	35	< 3.9	< 6	< 0.00024	< 0.12	5.8
R24613SVFS	24613 RAVENNA AVE	2009-12-31	14:22	Front		21.8	0.3	49	< 1.6	< 21	4.8 J	1.5 J	< 2.1	< 2.1	1.5 J	2.5	< 0.13		2.2 J
R24613SVB	24613 RAVENNA AVE	2009-12-31	15:07	Back	19		< 0.024	35	< 2.4	12 J	< 3.6	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 3.8
R24613SVH	24613 RAVENNA AVE	2011-05-20	10:20	House	20		0.64	< 11	1.2 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	0.00029	< 0.12	< 14
R24613SVF	24613 RAVENNA AVE	2011-05-20	10:26	Front	21		1.1	< 22	2.8 J, b	< 17	< 27	< 11	< 15	17	< 7.2	< 11	< 0.00045	< 0.23	< 28
R24613SVFS	24613 RAVENNA AVE	2011-05-20	10:26	Front		21.7	1.3	< 17 U	< 0.99 U	< 17 U	< 17 U	3.8	< 1.7 U	< 1.7 U	< 1.7 U	2.5	< 0.15 U		< 17 U
R24613SVB	24613 RAVENNA AVE	2011-05-20	10:55	Back	21		0.47	< 11	0.99 J, b	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
R24613SVBS	24613 RAVENNA AVE	2011-05-20	10:55	Back		22.1	0.485	< 18 U	< 1 U	< 18 U	< 18 U	2	< 1.8 U	< 1.8 U	< 1.8 U	2.4	< 0.16 U		< 18 U
M24616SVH	24616 MARBELLA AVE	2010-04-22	15:26	House	19		1.2	46	5.6 J, b	14	12	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	0.00062	0.15	< 3.6
M24616SVB	24616 MARBELLA AVE	2010-04-22	16:44	Back	21		< 0.023	130	9.6 J, b	33	22	< 11	< 16	< 8.6	< 7.3	< 11	< 0.00023	< 0.11	< 7.1
M24616SVF	24616 MARBELLA AVE	2010-04-23	11:55	Front	21		0.029	20	2.9 J, b	< 8.6	3.4	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	4.2
M24616SVFD	24616 MARBELLA AVE	2010-04-23	11:55	Front	21		0.026	16	< 2.3	< 8.6	4	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
M24616SVH	24616 MARBELLA AVE	2010-08-25	09:07	House	18		1.8	23	1.7 J, b	11	4.3	13	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	0.12	< 3.6

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
M24616SVB	24616 MARBELLA AVE	2010-08-25	09:52	Back	19		1.2	25	2.5 J, b	< 9.1	< 3.6	190	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
M24616SVF	24616 MARBELLA AVE	2010-08-25	10:30	Front	20		0.23	200	2.2 J, b	19	52	< 5.8	9.4	7.2	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24616SVH	24616 MARBELLA AVE	2011-03-18	15:10	House	20		1.3	< 11	0.94 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
M24616SVF	24616 MARBELLA AVE	2011-03-18	15:25	Front	21		0.15	17	0.89 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
M24616SVFD	24616 MARBELLA AVE	2011-03-18	15:25	Front	21		0.15	< 11	0.38 J, b	< 8.9	< 14	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
M24616SVB	24616 MARBELLA AVE	2011-03-18	15:52	Back	20		1	< 11	0.38 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
M24616SVB	24616 MARBELLA AVE	2013-08-06	14:48	Back	19		1.9	31	5.5 J, b	< 9.4	< 15	< 6.1	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 16
M24616SVH	24616 MARBELLA AVE	2013-08-06	14:48	House	18		2.6	< 28	2 J, b	< 8.7	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
M24616SVF	24616 MARBELLA AVE	2013-08-06	15:10	Front	21		0.25	28	1.2 J, b	< 8.7	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
M24617SVB	24617 MARBELLA AVE	2010-08-03	09:05	Back	21		0.085	11 b	< 5.4	< 7.7	3	< 5	< 7	< 3.9	< 3.3	< 5.1	< 0.0002	< 0.1	6.8
M24617SVG	24617 MARBELLA AVE	2010-08-03	10:01	Garage	19		0.25	< 11	< 6.2	22	< 3.4	< 5.7	24	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24617SVB	24617 MARBELLA AVE	2012-05-03	10:00	Back	22		0.076	< 18	3.7 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.0002	< 0.1	< 9.6
M24617SVBS	24617 MARBELLA AVE	2012-05-03	10:00	Back		21.6	< 0.17 U	< 18 U	< 0.77 U	< 18 U	< 18 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	2	< 0.17 U		< 18 U
M24617SVH	24617 MARBELLA AVE	2012-05-03	10:20	House	22		0.2	< 18	4.7 J, b	< 5.6	< 8.8	< 3.7	39	< 2.8	< 2.4	< 3.7	< 0.0002	< 0.1	< 9.3
M24617SVG	24617 MARBELLA AVE	2012-05-03	10:41	Garage	21		0.38	< 19	2.3 J, b	< 6.1	< 9.5	< 3.9	22	5.5	< 2.6	< 4	< 0.00021	< 0.1	< 10
M24617SVGS	24617 MARBELLA AVE	2012-05-03	10:41	Garage		21.1	0.401	< 18 U	< 0.74 U	< 18 U	< 18 U	< 1.8 U	8.6	< 1.8 U	< 1.8 U	1.8	< 0.16 U		< 18 U
N24618SVH	24618 NEPTUNE AVE	2010-05-19	09:19	House	20		0.14	32	< 6.4	77	< 3.6	24	< 8.2	< 4.6	7	< 6	< 0.00024	< 0.12	5.2
N24618SVB	24618 NEPTUNE AVE	2010-05-19	10:10	Back	20		0.37	14	< 6.4	< 9.1	< 3.6	16	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
N24618SVF	24618 NEPTUNE AVE	2010-05-19	11:06	Front	21		0.34	40	< 5.9	39	7.5	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	18
N24618SVH	24618 NEPTUNE AVE	2010-09-08	13:39	House	20		1.2	22	< 1.3	13	< 3.3	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
N24618SVF	24618 NEPTUNE AVE	2010-09-08	14:22	Front	20		0.52	14	2.4 J	< 9	< 3.5	< 5.8	< 8.1	< 4.5	4.1	< 5.9	< 0.00024	< 0.12	< 3.7
N24618SVB	24618 NEPTUNE AVE	2010-09-08	15:07	Back	20		1.1	< 11	< 1.3	< 8.8	< 3.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
N24618SVF	24618 NEPTUNE AVE	2011-01-27	14:57	Front	21		0.3	< 11	1.4 J, b	< 8.9	< 3.5	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24618SVH	24618 NEPTUNE AVE	2011-01-27	15:40	House	20		0.6	< 11	0.8 J, b	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
N24618SVHD	24618 NEPTUNE AVE	2011-01-27	15:40	House	21		0.59	< 11	0.58 J, b	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
N24618SVB	24618 NEPTUNE AVE	2011-01-27	16:17	Back	20		0.86	< 11	0.8 J, b	< 8.8	< 3.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
N24618SVH	24618 NEPTUNE AVE	2012-07-27	14:51	House	20		1.3	< 18	< 2.9	< 5.8	< 9.1	4.3	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
N24618SVF	24618 NEPTUNE AVE	2012-07-27	14:59	Front	21		0.4	< 19	< 3	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
N24618SVB	24618 NEPTUNE AVE	2012-07-27	15:29	Back	20		1.8	21	< 3	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
P24618SVF	24618 PANAMA AVE	2010-05-14	09:40	Front	21		< 0.024	38	< 6.3	18	13	7.1	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
P24618SVG	24618 PANAMA AVE	2010-05-14	12:01	Garage	20		< 0.024	52	< 6.4	18	12	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
P24618SVGD	24618 PANAMA AVE	2010-05-14	12:01	Garage	19		< 0.031	46	< 8.1	16	10	< 7.5	< 10	< 5.8	< 4.9	< 7.6	< 0.00031	< 0.15	< 4.8
P24618SVB	24618 PANAMA AVE	2010-08-11	10:08	Back	18		2.6	< 11	< 6.2	< 8.8	< 3.5	6.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
P24618SVG	24618 PANAMA AVE	2012-04-19	15:22	Garage	21		0.8	< 30	2 J, b	< 9.7	< 15	< 6.3	< 8.7	< 4.8	< 4.1	< 6.4	< 0.00034	< 0.17	< 16
P24618SVGD	24618 PANAMA AVE	2012-04-19	15:22	Garage	21		0.82	< 19	1.5 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00021	< 0.11	< 9.8
P24618SVF	24618 PANAMA AVE	2012-04-19	15:45	Front	21		0.5	< 18	1.2 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00021	< 0.1	< 9.6
R24618SVG	24618 RAVENNA AVE	2013-02-15	09:50	Garage	21		1.2	< 50	1.4 J, b	< 16	< 25	< 10	< 14	< 8	< 6.8	< 10	< 0.00079	< 0.4	< 26
R24618SVB	24618 RAVENNA AVE	2013-02-15	10:21	Back	20		0.4	< 29	2.4 J, b	< 9.1	< 14	190	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24618SVBD	24618 RAVENNA AVE	2013-02-15	10:21	Back	21		0.4	< 29	1.4 J, b	< 9.3	< 14	190	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
R24618SVHA	24618 RAVENNA AVE	2013-02-27	14:57	House	21		0.03	130	5.8 J, b	15	< 15	39	< 8.4	25	< 4	< 6.1	< 0.00025	< 0.12	< 15
R24618SVG	24618 RAVENNA AVE	2013-06-25	09:55	Garage	20		1.5	< 26	< 0.74	< 8.2	< 13	< 5.3	< 7.4	< 4.1	< 3.5	< 5.4	< 0.00022	< 0.11	< 14
R24618SVGD	24618 RAVENNA AVE	2013-06-25	09:55	Garage	20		1.6	< 27	< 0.76	< 8.6	< 13	< 5.5	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
R24618SVHA	24618 RAVENNA AVE	2013-06-25	10:24	House	21		0.4	41	3.8 J, b	< 9.2	< 14	10	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24618SVB	24618 RAVENNA AVE	2013-06-25	10:37	Back	20		0.74	< 29	< 0.82	< 9.2	< 14	65	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
N24619SVH	24619 NEPTUNE AVE	2010-06-17	09:36	House	19		1.6	< 11	< 2.4	< 8.9	< 3.5	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24619SVB	24619 NEPTUNE AVE	2010-06-17	10:26	Back	21		< 0.024	18	< 2.4	< 8.9	< 3.5	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24619SVF	24619 NEPTUNE AVE	2010-06-17	11:07	Front	21		< 0.024	23	< 2.4	10	< 3.5	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24619SVH	24619 NEPTUNE AVE	2012-07-13	10:14	House	19		1.6	< 19	< 3.1	9.7	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4	< 0.00016	< 0.082	< 10
N24619SVHS	24619 NEPTUNE AVE	2012-07-13	10:14	House		19.8	1.56	21	< 0.86 U	< 21 U	< 21 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	2.1	< 0.16 U		< 21 U
N24619SVF	24619 NEPTUNE AVE	2012-07-13	10:46	Front	20		0.72	< 20	< 3.2	< 6.4	< 10	< 4.2	< 5.8	< 3.2	< 2.7	< 4.2	< 0.00017	< 0.086	< 11
N24619SVFS	24619 NEPTUNE AVE	2012-07-13	10:46	Front		20.8	0.755	< 21 U	< 0.89 U	< 21 U	< 21 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	2.1	< 0.17 U		< 21 U
N24619SVB	24619 NEPTUNE AVE	2012-07-13	11:01	Back	21		0.023	< 19	< 3.1	< 6.2	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4	< 0.00016	< 0.082	< 10

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
					Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
					Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
P24619SVH	24619 PANAMA AVE	2010-04-27	14:34	House	17		3.7	92	< 5.9	61	14	< 5.5	< 7.6	< 4.2	3.8	< 5.5	< 0.00041	< 0.21	< 3.5
P24619SVB	24619 PANAMA AVE	2010-04-27	15:08	Back	18		3.1	23	< 6.3	< 9	< 3.5	< 5.8	< 8.1	< 4.5	5.9	< 5.9	< 0.00048	< 0.24	< 3.7
P24619SVBD	24619 PANAMA AVE	2010-04-27	15:08	Back	18		3.1	45	< 6.3	< 9	18	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
P24619SVF	24619 PANAMA AVE	2010-04-27	15:58	Front	21		1.2	140	< 6.3	16	6.9	< 5.8	< 8.1	< 4.5	19	< 5.9	< 0.00048	< 0.24	< 3.7
P24619SVH	24619 PANAMA AVE	2010-05-25	13:59	House	18		3.6	14	6.8 J	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	0.38	< 3.8
P24619SVH	24619 PANAMA AVE	2010-10-11	14:30	House	16		4.2	14	< 1.4	< 9.3	< 3.6	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	0.13	< 3.8
P24619SVF	24619 PANAMA AVE	2010-10-11	15:09	Front	19		1.2	14	< 1.4	< 9	3.6	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
P24619SVB	24619 PANAMA AVE	2010-10-11	15:57	Back	15		4.4	17	< 1.4	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
P24619SVBS	24619 PANAMA AVE	2010-10-11	15:57	Back		17.2	4.72	18	< 1.3	< 17	< 17	< 1.7	< 1.7	1.8	< 1.7	2.2	< 0.16		< 17
P24619SVF	24619 PANAMA AVE	2011-02-11	14:43	Front	20		0.78	14	0.4 J, b	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
P24619SVB	24619 PANAMA AVE	2011-02-11	15:10	Back	18		2.7	27	2.4 J, b	16	3.5	< 5.8	< 8.1	9.7	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
P24619SVHA	24619 PANAMA AVE	2011-12-08	15:10	House	20		1.8	22	< 0.27	< 5.7	14	< 3.7	< 5.2	< 2.9	< 2.4	< 3.8	< 0.00015	< 0.076	< 9.5
P24619SVF	24619 PANAMA AVE	2011-12-08	15:39	Front	20		0.89	15	0.31 J, b	< 6.2	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4	< 0.00016	< 0.082	< 10
P24619SVFS	24619 PANAMA AVE	2011-12-08	15:39	Front		21.5	0.986	< 18 U	< 1.1 U	< 18 U	< 18 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	2.1	< 0.17 U		< 18 U
P24619SVB	24619 PANAMA AVE	2011-12-08	16:09	Back	18		3.8	14	0.46 J, b	< 5.8	< 9.1	< 3.8	< 5.2	3.4	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
P24619SVBS	24619 PANAMA AVE	2011-12-08	16:09	Back		18.4	4.06	< 17 U	< 0.98 U	< 17 U	< 17 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	2	< 0.15 U		< 17 U
R24619SVF	24619 RAVENNA AVE	2010-08-30	13:40	Front	20		0.31	15	2.2 J	9.4	< 3.7	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 3.9
R24619SVB	24619 RAVENNA AVE	2010-08-30	14:24	Back	19		0.86	19	< 1.4	< 9.2	< 3.6	< 6	21	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
R24619SVBD	24619 RAVENNA AVE	2010-08-30	14:24	Back	19		0.85	20	< 1.8	< 12	< 4.7	< 7.8	20	< 6	< 5.1	< 7.9	< 0.00024	< 0.12	< 5
R24619SVF	24619 RAVENNA AVE	2013-03-01	09:58	Front	21		0.16	< 29	3.3 J, b	< 9.2	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24619SVFS	24619 RAVENNA AVE	2013-03-01	09:58	Front		21.8	< 0.18 U	< 17 U	< 0.7 U	< 17 U	< 17 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	2.7	< 0.18 U		< 17 U
R24619SVB	24619 RAVENNA AVE	2013-03-01	10:28	Back	20		0.66	< 28	1.7 J, b	< 8.8	< 14	< 5.7	10	5.1 j	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24619SVBS	24619 RAVENNA AVE	2013-03-01	10:28	Back		21.2	0.698	17	< 0.7 U	< 17 U	< 17 U	< 1.7 U	9.7	2.9 j	< 1.7 U	2.8	< 0.18 U		< 17 U
R24619SVHA	24619 RAVENNA AVE	2013-03-15	09:41	House	21		0.36	32	2.1 J, b	< 8.8	180	< 5.7	15	14	< 3.7	< 5.8	< 0.00024	0.16	< 14
R24619SVHA	24619 RAVENNA AVE	2013-07-19	14:47	House	20		0.76	< 26	1.1 J, b	< 8.1	< 13	< 5.3	19	< 4.1	< 3.4	< 5.3	< 0.00022	< 0.11	< 13
R24619SVB	24619 RAVENNA AVE	2013-07-19	14:49	Back	18		1.6	55	1.1 J, b	< 8.8	< 14	< 5.7	17	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24619SVF	24619 RAVENNA AVE	2013-07-19	15:24	Front	20		0.4	210	1.4 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
M24622SVH	24622 MARBELLA AVE	2010-05-28	13:48	House	20		0.6	76	< 4	< 8.7	15	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
M24622SVB	24622 MARBELLA AVE	2010-05-28	14:26	Back	21		< 0.022	23	< 3.9	< 8.4	3.7	12	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	12
M24622SVG	24622 MARBELLA AVE	2010-05-28	15:27	Garage	14		4.7	13	< 4	< 8.7	< 3.4	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
M24622SVH	24622 MARBELLA AVE	2012-11-16	09:57	House	16		3.3	< 27	< 0.55	< 8.4	< 13	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
M24622SVG	24622 MARBELLA AVE	2012-11-16	10:05	Garage	15		6.8	< 28	< 0.58	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
M24622SVB	24622 MARBELLA AVE	2012-11-16	10:41	Back	21		0.63	< 27	< 0.55	< 8.4	< 13	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
M24622SVB	24622 MARBELLA AVE	2013-06-07	09:45	Back	21		0.47	< 28	< 2.6	< 8.9	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
M24622SVBS	24622 MARBELLA AVE	2013-06-07	09:45	Back		21.6	0.471	< 20 U	< 0.72 U	< 20 U	< 20 U	< 2 U	< 2 U	< 2 U	< 2 U	2	< 0.16 U		< 20 U
M24622SVH	24622 MARBELLA AVE	2013-06-07	09:47	House	19		2.7	< 27	< 2.5	< 8.7	< 14	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
M24622SVG	24622 MARBELLA AVE	2013-06-07	10:09	Garage	16		5.8	< 28	< 2.6	< 8.9	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
M24622SVGS	24622 MARBELLA AVE	2013-06-07	10:09	Garage		15.7	6.11	< 20 U	< 0.72 U	< 20 U	< 20 U	< 2 U	3.8	< 2 U	< 2 U	< 2 U	< 0.16 U		< 20 U
N24622SVB	24622 NEPTUNE AVE	2010-08-19	09:33	Back	9.8		7.1	26	5.2 J, b	< 8.7	< 3.4	11	< 7.8	< 4.3	< 3.7	< 5.7	0.00024	< 0.12	< 3.6
N24622SVH	24622 NEPTUNE AVE	2010-08-19	10:18	House	20		0.75	44	< 1.3	< 8.8	8.1	< 5.7	< 7.9	< 4.4	7	< 5.8	< 0.00023	< 0.12	< 3.6
N24622SVF	24622 NEPTUNE AVE	2010-08-19	11:03	Front	20		0.072	24	1.5 J, b	10	< 3.6	6.3	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	4
N24622SVF	24622 NEPTUNE AVE	2011-02-01	09:40	Front	21		0.14	< 11	0.53 J, b	< 8.7	< 3.4	12	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
N24622SVB	24622 NEPTUNE AVE	2011-02-01	10:25	Back	17		1.2	< 12	< 0.36	< 9.5	< 3.7	< 6.2	< 8.5	< 4.7	< 4	< 6.2	0.00056	< 0.13	< 3.9
N24622SVH	24622 NEPTUNE AVE	2011-02-01	11:06	House	20		0.5	43	0.99 J, b	16	5.4	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
N24622SVH	24622 NEPTUNE AVE	2012-03-30	10:57	House	20		0.56	20	3.1 J, b	< 5.9	< 9.2	< 3.8	< 5.3	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.7
N24622SVF	24622 NEPTUNE AVE	2013-08-21	10:21	Front	20		1	39	2 J, b	< 9.2	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
N24622SVFS	24622 NEPTUNE AVE	2013-08-21	10:21	Front		21	1.1	35 M1	< 0.76 U	< 21 U	< 21 U	4.3	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.17 U		< 21 U
N24622SVB	24622 NEPTUNE AVE	2013-08-21	10:40	Back	14		6.5	< 30	1.5 J, b	< 9.6	< 15	28	< 8.6	< 4.8	< 4.1	< 6.3	< 0.00026	< 0.13	< 16
N24622SVHA	24622 NEPTUNE AVE	2013-08-23	12:34	House	20		0.081	59	2.9 J, b	13	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
M24623SVH	24623 MARBELLA AVE	2010-08-03	13:50	House	19		0.54	150 b	< 6.2	12	11	< 5.7	< 7.9	< 4.4	130	< 5.8	< 0.00023	< 0.12	< 3.6
M24623SVG	24623 MARBELLA AVE	2010-08-03	14:07	Garage	15		6.1	22 b	< 6.3	< 9	4.2	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24623SVGD	24623 MARBELLA AVE	2010-08-03	14:07	Garage	16		6.2	22 b	< 6.4	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
					Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
					Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
M24623SVB	24623 MARBELLA AVE	2010-08-03	14:37	Back	19		0.92	15 b	< 6.5	19	< 3.6	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	5
M24623SVG	24623 MARBELLA AVE	2011-01-28	15:15	Garage	18		2.1	13	0.94 J, b	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
M24623SVH	24623 MARBELLA AVE	2011-01-28	15:21	House	20		0.47	< 11	0.94 J, b	< 8.6	< 3.4	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
M24623SVB	24623 MARBELLA AVE	2011-01-28	15:53	Back	21		0.45	< 12	0.96 J, b	< 9.5	< 3.7	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 3.9
N24623SVH	24623 NEPTUNE AVE	2010-06-11	13:58	House	18		0.59	79	3.1 J, b	21	25	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24623SVF	24623 NEPTUNE AVE	2010-06-11	14:50	Front	18		1.9	16	< 2.4	< 9	< 3.5	6.5	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24623SVB	24623 NEPTUNE AVE	2011-02-16	09:43	Back	17		3	12	1.3 J, b	< 8.6	< 3.4	< 5.6	< 7.7	5	< 3.6	< 5.6	< 0.00023	< 0.11	< 3.6
N24623SVF	24623 NEPTUNE AVE	2011-02-16	10:20	Front	20		1	< 11	0.85 J, b	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
N24623SVFD	24623 NEPTUNE AVE	2011-02-16	10:20	Front	20		1	< 11	5.4 J, b	< 9.1	< 3.6	< 5.9	< 8.2	8.2	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
N24623SVH	24623 NEPTUNE AVE	2011-02-16	11:08	House	20		1.6	< 11	0.86 J, b	14	< 3.5	< 5.8	< 8	110	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24623SVF	24623 NEPTUNE AVE	2011-03-31	10:49	Front	20		0.4	< 11	0.55 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24623SVFS	24623 NEPTUNE AVE	2011-03-31	10:49	Front		21.3	0.457	< 18	< 1	< 18	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	2.2	< 0.17		< 18
N24623SVH	24623 NEPTUNE AVE	2011-03-31	11:07	House	20		1.4	19	0.35 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24623SVB	24623 NEPTUNE AVE	2011-03-31	11:39	Back	15		2.5	< 11	< 0.33 UJ	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
N24623SVBS	24623 NEPTUNE AVE	2011-03-31	11:39	Back		16.4	2.9	< 18	< 1.1	< 18	< 18	< 1.8	< 1.8	< 1.8	< 1.8	2.4	< 0.17		< 18
M24627SVH	24627 MARBELLA AVE	2010-07-19	13:48	House	20		1.2	24	7.2 J	< 8.8	4.1	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	0.00031	0.17	6.2
M24627SVG	24627 MARBELLA AVE	2010-07-19	14:24	Garage	20		1.6	32	< 6.2	10	< 3.4	< 5.7	10	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24627SVB	24627 MARBELLA AVE	2010-07-19	15:05	Back	20		0.57	39	< 6.7	14	5.8	< 6.2	< 8.6	< 4.8	< 4	< 6.2	< 0.00025	< 0.13	9.7
M24627SVH	24627 MARBELLA AVE	2012-05-11	14:43	House	20		1	< 18	< 2.9 PF	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	0.085	< 9.6
M24627SVG	24627 MARBELLA AVE	2012-05-11	14:49	Garage	20		0.9	< 19	< 3.1 PF	< 6.2	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4	< 0.00016	0.084	< 10
M24627SVGD	24627 MARBELLA AVE	2012-05-11	14:49	Garage	20		0.9	< 19	< 3.1 PF	< 6.2	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4	< 0.00016	0.099	< 10
M24627SVB	24627 MARBELLA AVE	2012-05-11	15:21	Back	20		0.86	< 19	< 3.1 PF	< 6.2	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4	< 0.00016	< 0.082	< 10
M24628SVF	24628 MARBELLA AVE	2010-12-03	13:44	Front	17		1.4	32	1.6 J, b	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24628SVFD	24628 MARBELLA AVE	2010-12-03	13:44	Front	17		1.4	24	0.54 J, b	< 9	4.1	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24628SVB	24628 MARBELLA AVE	2010-12-03	14:31	Back	15		3.1	15	< 0.34	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24628SVH	24628 MARBELLA AVE	2011-06-23	10:40	House	11		8.1	< 11	1.2 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
M24628SVHS	24628 MARBELLA AVE	2011-06-23	10:40	House		12.1	8.78	< 18 U	< 1 U	< 18 U	< 18 U	< 1.8 U	1.9	< 1.8 U	< 1.8 U	1.8	< 0.16 U		< 18 U
M24628SVB	24628 MARBELLA AVE	2011-06-23	11:24	Back	13		9	< 11	< 0.34	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
M24628SVBS	24628 MARBELLA AVE	2011-06-23	11:24	Back		13.6	10.1	< 18 U	< 1 U	< 18 U	< 18 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	1.9	< 0.16 U		< 18 U
M24628SVF	24628 MARBELLA AVE	2011-06-23	12:12	Front	19		1.9	< 11	< 0.34	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00047	< 0.24	< 14
M24628SVFD	24628 MARBELLA AVE	2011-06-23	12:12	Front	18		1.9	< 11	< 0.34	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
M24628SVF	24628 MARBELLA AVE	2011-10-27	13:09	Front	18		2.3	11	0.47 J, b	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
M24628SVFS	24628 MARBELLA AVE	2011-10-27	13:09	Front		18.5	2.48	< 18 U	< 1 U	< 18 U	< 18 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	2.1	< 0.16 U		< 18 U
M24628SVH	24628 MARBELLA AVE	2011-10-27	14:12	House	10		10	10	0.51 J, b	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
M24628SVHS	24628 MARBELLA AVE	2011-10-27	14:12	House		11.5	11.2	< 18 U	< 1 U	< 18 U	< 18 U	< 1.8 U	< 1.8 U	5.4	< 1.8 U	2	< 0.17 U		< 18 U
M24628SVB	24628 MARBELLA AVE	2011-10-27	14:55	Back	15		5.1	8.4	0.49 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
M24628SVBS	24628 MARBELLA AVE	2011-10-27	14:55	Back		15.9	5.66	< 17 U	< 1 U	< 17 U	< 17 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	2.1	< 0.16 U		< 17 U
N24628SVH	24628 NEPTUNE AVE	2010-10-27	13:02	House	21		0.36	290	< 1.4	43	46	320	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24628SVG2	24628 NEPTUNE AVE	2010-10-27	13:35	Garage	21		< 0.023	30	< 1.3	32	3.4	940	< 7.7	< 4.2	< 3.6	< 5.6	< 0.00023	< 0.11	< 3.5
N24628SVH	24628 NEPTUNE AVE	2013-02-07	14:34	House	21		0.38	38	3.2 J, b	< 9.3	< 14	10	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	0.13	< 15
N24628SVBA	24628 NEPTUNE AVE	2013-02-07	14:35	Back	22		< 0.053	140	1.8 J, b	< 20	< 31	320	< 18	12	< 8.5	< 13	< 0.00053	< 0.26	< 33
N24628SVG2	24628 NEPTUNE AVE	2013-02-07	15:12	Garage	21		0.45	< 28	1.7 J, b	< 8.8	< 14	440	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24628SVBA	24628 NEPTUNE AVE	2013-06-19	15:03	Back	21		0.16	37	1.4 J, b	< 8.6	< 13	720	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
N24628SVBAD	24628 NEPTUNE AVE	2013-06-19	15:03	Back	21		0.16	28	0.98 J, b	< 8.5	< 13	720	< 7.7	< 4.2	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
N24628SVH	24628 NEPTUNE AVE	2013-06-19	15:05	House	20		0.53	73	1.4 J, b	< 8.4	< 13	94	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
N24628SVG2	24628 NEPTUNE AVE	2013-06-19	15:38	Garage	20		0.58	32	1 J, b	< 8.7	< 14	1000	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00029	< 0.14	< 14
N24629SVH	24629 NEPTUNE AVE	2010-07-09	13:57	House	15		5.3	96	< 2.4 Q	31	13	< 5.9	< 8.2	< 4.6	< 3.9	8.9	0.00031	< 0.12	< 3.8
N24629SVF	24629 NEPTUNE AVE	2010-07-09	15:14	Front	19		1.9	59	< 2.3 Q	12	8.7	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24629SVB	24629 NEPTUNE AVE	2010-07-09	15:32	Back	18		1.3	320	2.7 J,Q	11	27	< 5.7	< 7.9	< 4.4	230	< 5.8	< 0.00023	< 0.12	< 3.6
N24629SVB	24629 NEPTUNE AVE	2011-02-03	15:16	Back	20		1.6	11	< 1.7	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24629SVH	24629 NEPTUNE AVE	2011-02-03	15:24	House	16		5.1	21	< 1.8	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	0.00028	< 0.12	3.8
N24629SVF	24629 NEPTUNE AVE	2011-02-03	15:57	Front	21		0.97	< 11	< 1.8	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
N24632SVF	24632 NEPTUNE AVE	2009-10-02	13:16	Front	21		< 0.024	39	< 3	< 9	7.7	9.7	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	6.7
N24632SVB	24632 NEPTUNE AVE	2009-10-02	14:09	Back	20		0.58	87	< 3.2	12	11	52	< 8.6	< 4.8	< 4.1	< 6.3	< 0.00026	< 0.13	< 4
N24632SVF	24632 NEPTUNE AVE	2010-07-20	10:44	Front	20		0.77	37 b	< 6.2	11	< 3.4	< 5.7	< 7.9	< 4.4	4.3	< 5.8	< 0.00023	< 0.12	< 3.6
N24632SVG	24632 NEPTUNE AVE	2010-08-24	08:55	Garage	20		0.5	14	< 1.4	< 8.9	< 3.5	< 5.8	28	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24632SVB	24632 NEPTUNE AVE	2010-08-24	09:39	Back	18		1.6	32	< 1.4	< 9.1	< 3.6	16	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
N24632SVF	24632 NEPTUNE AVE	2013-02-08	12:50	Front	20		0.42	< 27	2.1 J, b	< 8.4	< 13	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
N24632SVG	24632 NEPTUNE AVE	2013-02-08	13:28	Garage	21		0.22	< 26	1.2 J, b	< 8.3	< 13	< 5.4	< 7.5	< 4.1	< 3.5	< 5.4	< 0.00022	< 0.11	< 14
N24632SVBA	24632 NEPTUNE AVE	2013-08-09	09:56	Back	9.5		< 0.026	250	11 J, b	11	77	< 6.2	< 8.6	20	6.3	< 6.3	0.58	< 0.13	26
N24632SVBAS	24632 NEPTUNE AVE	2013-08-09	09:56	Back		9.62	< 0.17 U	210	5.5	< 21 U	72	< 2.1 U	< 2.1 U	16	5.1	< 2.1 U	0.521		< 21 U
N24632SVF	24632 NEPTUNE AVE	2013-08-09	10:04	Front	20		1.4	< 30	2.2 J, b	< 9.5	< 15	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16
N24632SVG	24632 NEPTUNE AVE	2013-08-09	10:23	Garage	21		0.49	< 27	1.4 J, b	< 8.5	< 13	< 5.5	14	< 4.2	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
M24700SVH	24700 MARBELLA AVE	2010-06-09	09:02	House	15		2.8	41	< 2.4	15	12 b	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	0.21	< 3.7
M24700SVHS	24700 MARBELLA AVE	2010-06-09	09:02	House		19.1	2.67	< 17	0.97 J	< 17	< 17	< 1.7	2.7	< 1.7	< 1.7	2	< 0.16		< 17
M24700SVF	24700 MARBELLA AVE	2010-06-09	09:38	Front	16		2.5	34	< 2.4	< 9	10 b	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24700SVB	24700 MARBELLA AVE	2010-06-09	10:24	Back	12		2.7	410	3.1 J	11	12 b	< 5.7	< 8	< 4.4	18	< 5.8		< 0.12	< 3.6
M24700SVB	24700 MARBELLA AVE	2010-07-15	14:27	Back	11		8.3	210 b	< 2.7	28 b	25	11	< 9.2	< 5.1	26	< 6.7	2.4	< 0.14	6.5
M24700SVF	24700 MARBELLA AVE	2010-07-15	15:22	Front	17		3.6	39 b	< 2.3	8.8 b	5	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	9.9
M24700SVH	24700 MARBELLA AVE	2010-07-15	16:12	House	18		3	16 b	< 2.3	< 8.6	< 3.4	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	0.00044	0.23	< 3.6
M24700SVF	24700 MARBELLA AVE	2011-10-20	10:29	Front	13		5.9	8.9	0.66 J, b	< 6.7	< 10	< 4.3	< 6	< 3.4	< 2.8	< 4.4	< 0.00016	< 0.078	< 11
M24700SVB	24700 MARBELLA AVE	2011-10-20	11:10	Back	18		2.4	11	0.92 J, b	< 7.6	< 12	< 4.9	< 6.8	< 3.8	< 3.2	< 5	< 0.00018	0.12	< 12
M24700SVH	24700 MARBELLA AVE	2011-10-20	15:18	House	16		4.7	10	0.55 J, b	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00015	0.089	< 10
M24700SVHD	24700 MARBELLA AVE	2011-10-20	15:18	House	16		4.7	9.8	5.9 J, b	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00015	0.087	< 10
M24700SVH	24700 MARBELLA AVE	2013-03-15	14:45	House	12		6.8	32	1.2 J, b	< 8.9	< 14	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
M24700SVB	24700 MARBELLA AVE	2013-03-15	14:47	Back	20		1.6	38	1.1 J, b	< 8.5	< 13	34	< 7.7	< 4.2	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
M24700SVBS	24700 MARBELLA AVE	2013-03-15	14:47	Back		20.1	1.64	< 24 U	< 1 U	< 24 U	< 24 U	31	< 2.4 U	2.7	< 2.4 U	< 2.4 U	< 0.2 U		< 24 U
M24700SVF	24700 MARBELLA AVE	2013-03-15	15:23	Front	14		5.7	< 26	1 J, b	< 8.4	< 13	< 5.4	< 7.5	< 4.2	< 3.5	< 5.5	< 0.00022	< 0.11	< 14
M24700SVFD	24700 MARBELLA AVE	2013-03-15	15:23	Front	14		5.8	< 27	0.88 J, b	< 8.5	< 13	< 5.5	< 7.6	< 4.2	< 3.6	< 5.6	< 0.00022	< 0.11	< 14
P24702SVH	24702 PANAMA AVE	2010-06-03	09:09	House	21		< 0.022	30	< 3.9	89	4.8	< 5.5	< 7.6	< 4.2	3.8	120	< 0.00022	< 0.11	< 3.5
P24702SVG	24702 PANAMA AVE	2010-06-03	09:56	Garage	21		0.16	12	< 3.9	< 8.4	< 3.3	< 5.5	< 7.6	< 4.2	< 3.6	50	< 0.00022	< 0.11	< 3.5
P24702SVGS	24702 PANAMA AVE	2010-06-03	09:56	Garage		21.9	0.184	34	< 1.3	< 17	< 17	< 1.7	< 1.7	< 1.7	< 1.7	2.3	< 0.15		< 17
P24702SVB	24702 PANAMA AVE	2010-06-03	10:38	Back	20		< 0.023	38	< 4	< 8.8	4.9	< 5.7	< 7.9	< 4.4	< 3.7	24	< 0.00023	< 0.12	< 3.6
P24702SVG	24702 PANAMA AVE	2011-02-24	15:30	Garage	21		0.22	60	0.58 J, b	< 8.2	< 13	< 5.3	< 7.4	36	< 3.5	< 5.4	< 0.00022	< 0.11	< 14
P24702SVH	24702 PANAMA AVE	2011-02-24	15:34	House	21		0.039	38	0.71 J, b	< 8.9	< 14	< 5.8	< 8	< 4.5	< 3.8	< 5.9	0.00024	< 0.12	< 15
P24702SVB	24702 PANAMA AVE	2011-02-24	16:20	Back	21		0.17	12	< 0.34	< 8.9	< 14	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24702SVB	24702 PANAMA AVE	2013-06-12	09:46	Back	20		1.3	< 27	< 2.5	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
P24702SVBS	24702 PANAMA AVE	2013-06-12	09:46	Back		20.8	1.25	< 20 U	< 0.73 U	< 20 U	< 20 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 0.16 U		< 20 U
P24702SVH	24702 PANAMA AVE	2013-06-12	09:56	House	19		0.07	42	< 2.6	< 8.9	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
P24702SVG	24702 PANAMA AVE	2013-06-12	10:18	Garage	21		0.35	< 27	< 2.5	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
P24702SVGS	24702 PANAMA AVE	2013-06-12	10:18	Garage		21.8	0.342	< 20 U	< 0.72 U	< 20 U	< 20 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 0.16 U		< 20 U
M24703SVF	24703 MARBELLA AVE	2010-03-29	11:37	Front	21		< 0.024	60	4.3 J, b	24	25	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24703SVH	24703 MARBELLA AVE	2010-03-29	12:58	House	20		0.6	56	4.1 J, b	46	6.7	7.3	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24703SVB	24703 MARBELLA AVE	2010-03-29	13:53	Back	21		0.16	12	5.3 J, b	< 8.9	< 3.5	15	< 8	7.8	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24703SVH	24703 MARBELLA AVE	2010-08-23	09:27	House	17		2.6	14	< 1.4	< 8.9	< 3.5	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24703SVF	24703 MARBELLA AVE	2010-08-23	10:15	Front	20		0.28	< 11	< 1.3	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24703SVB	24703 MARBELLA AVE	2010-08-23	10:57	Back	19		0.82	14	< 1.4	17	< 3.6	16	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
M24703SVH	24703 MARBELLA AVE	2012-04-20	14:49	House	18		2.5	26	1.2 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00022	< 0.11	< 9.8
M24703SVB	24703 MARBELLA AVE	2012-04-20	15:21	Back	20		0.68	< 18	0.83 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	0.00021	< 0.1	< 9.6
M24703SVBD	24703 MARBELLA AVE	2012-04-20	15:21	Back	20		0.67	< 18	1.1 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00021	< 0.1	< 9.6
M24703SVF	24703 MARBELLA AVE	2012-04-20	15:47	Front	23		0.24	20	4 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00021	< 0.1	< 9.6
M24703SVB	24703 MARBELLA AVE	2013-07-11	09:37	Back	21		0.54	< 29	< 0.83	< 9.3	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
M24703SVBD	24703 MARBELLA AVE	2013-07-11	09:37	Back	21		0.53	< 28	< 0.81	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
M24703SVF	24703 MARBELLA AVE	2013-07-11	09:45	Front	21		0.84	< 26	< 0.74	< 8.3	< 13	< 5.4	< 7.5	< 4.2	< 3.5	< 5.5	< 0.00022	< 0.11	< 14

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
M24703SVH	24703 MARBELLA AVE	2013-07-11	10:16	House	15		4.5	170	0.92 J, b	< 8.7	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
N24703SVB	24703 NEPTUNE AVE	2009-09-22	08:48	Back	16		3	< 13	< 3.4	< 10	< 4	< 6.6	< 9.2	< 5.1	7	< 6.7	< 0.00027		< 4.2
N24703SVF	24703 NEPTUNE AVE	2009-09-22	09:36	Front	18		2.8	17	< 3.1	< 9.3	< 3.6	< 6	< 8.4	< 4.7	< 4	< 6.1	< 0.00025		< 3.9
N24703SVFD	24703 NEPTUNE AVE	2009-09-22	09:36	Front	18		2.8	19	9.9 J	< 9.2	4.5	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024		< 3.8
N24703SVH	24703 NEPTUNE AVE	2010-11-03	14:04	House	18		2.5	15	< 1.3	< 8.8	< 3.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
N24703SVF	24703 NEPTUNE AVE	2010-11-03	14:54	Front	17		3.8	22	< 1.4	< 8.9	< 3.5	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24703SVB	24703 NEPTUNE AVE	2010-11-03	15:45	Back	19		1.8	< 12	< 1.4	< 9.3	< 3.6	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 3.8
N24703SVBS	24703 NEPTUNE AVE	2010-11-03	15:45	Back		20	2.08	< 18	0.65 J	< 18	< 18	< 1.8	< 1.8	< 1.8	< 1.8	2.1	< 0.16		< 18
N24703SVB	24703 NEPTUNE AVE	2013-04-26	14:43	Back	19		2.8	32	2.6 J, b	< 9.6	< 15	< 6.2	< 8.7	< 4.8	< 4.1	< 6.3	< 0.00026	< 0.13	< 16
N24703SVH	24703 NEPTUNE AVE	2013-04-26	14:54	House	20		1.6	27	1.6 J, b	< 8.4	< 13	< 5.4	< 7.5	< 4.2	< 3.5	< 5.5	< 0.00022	< 0.11	< 14
N24703SVF	24703 NEPTUNE AVE	2013-04-26	15:16	Front	20		1.8	60	1.9 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24703SVH	24703 RAVENNA AVE	2010-10-11	09:26	House	18		0.14	36	< 1.4	< 9	3.7	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
R24703SVG	24703 RAVENNA AVE	2010-10-11	10:14	Garage	18		0.12	28	< 1.3	17	4.2	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24703SVGS	24703 RAVENNA AVE	2010-10-11	10:14	Garage		20.4	< 0.15	21	1.4 J	< 17	< 17	< 1.7	4.5	< 1.7	< 1.7	2.5	< 0.15		< 17
R24703SVB	24703 RAVENNA AVE	2010-10-11	11:03	Back	15		1.8	13	< 1.3	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24703SVH	24703 RAVENNA AVE	2013-03-08	09:42	House	20		1.6	< 28	4.1 J, b	< 8.9	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
R24703SVG	24703 RAVENNA AVE	2013-03-08	10:14	Garage	20		0.76	30	1.6 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
R24703SVGD	24703 RAVENNA AVE	2013-03-08	10:14	Garage	20		0.77	28	0.95 J, b	< 8.9	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
R24703SVH	24703 RAVENNA AVE	2013-07-24	09:53	House	19		1.5	400	< 0.77	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
R24703SVB	24703 RAVENNA AVE	2013-07-24	10:06	Back	17		5	< 28	< 0.8	< 9	< 14	7.7	< 8.1	8 j	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24703SVBD	24703 RAVENNA AVE	2013-07-24	10:06	Back	17		5	< 28	< 0.8	< 9	< 14	8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24703SVG	24703 RAVENNA AVE	2013-07-24	10:25	Garage	20		1.3	460	1.3 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
M24706SVB	24706 MARBELLA AVE	2011-01-31	13:56	Back	11		4	12	2.4 J, b	< 8.7	< 3.4	10	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
M24706SVG	24706 MARBELLA AVE	2011-01-31	14:48	Garage	6.6		8.3	< 11	2.3 J, b	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24706SVH	24706 MARBELLA AVE	2011-01-31	16:20	House	8.1		3.2	26	2.4 J, b	< 8.4	< 3.3	< 5.5	< 7.6	13	16	< 5.5	3.8	< 0.11	< 3.5
M24706SVH	24706 MARBELLA AVE	2011-09-15	14:30	House	8.7		4.5	< 11	0.65 J, b	< 9.1	< 14	16	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
M24706SVHD	24706 MARBELLA AVE	2011-09-15	14:30	House	9.6		4.4	< 11	0.51 J, b	< 9.1	< 14	10	< 8.2	< 4.6	< 3.9	< 6	< 0.00049	< 0.24	< 15
M24706SVB	24706 MARBELLA AVE	2011-09-15	15:10	Back	20		1.3	< 11	1.8 J, b	< 9.1	< 14	180	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
M24706SVG	24706 MARBELLA AVE	2011-09-15	16:01	Garage	8		14	< 11	< 0.45	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
M24706SVH	24706 MARBELLA AVE	2013-02-21	14:53	House	13		2.3	< 27	1.3 J, b	< 8.4	< 13	27	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	0.23	< 14
M24706SVB	24706 MARBELLA AVE	2013-02-21	15:09	Back	19		0.52	< 28	0.8 J, b	< 8.8	< 14	19	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
M24706SVBD	24706 MARBELLA AVE	2013-02-21	15:09	Back	18		0.53	< 28	1 J, b	< 9	< 14	19	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00047	< 0.24	< 15
M24706SVG	24706 MARBELLA AVE	2013-02-21	15:27	Garage	16		4.6	< 28	1 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00046	< 0.23	< 14
M24706SVB	24706 MARBELLA AVE	2013-06-26	14:49	Back	19		1.3	< 27	< 0.76	< 8.4	< 13	14	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
M24706SVH	24706 MARBELLA AVE	2013-06-26	14:51	House	13		3.8	< 27	< 0.76	< 8.5	< 13	47	< 7.7	< 4.2	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
M24706SVG	24706 MARBELLA AVE	2013-06-26	15:17	Garage	14		6.8	< 29	< 0.81	< 9.1	< 14	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 15
R24706SVB	24706 RAVENNA AVE	2010-08-23	00:00	Back	19		1.2	47	< 1.3	12	6.8	100	< 7.8	< 4.3	22	< 5.7	< 0.00023	< 0.12	< 3.6
R24706SVF	24706 RAVENNA AVE	2010-08-23	13:28	Front	20		< 0.025	37	< 1.4	< 9.5	8.7	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 3.9
R24706SVH	24706 RAVENNA AVE	2010-08-23	14:03	House	19		0.92	33	< 1.4	11	5.2	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
R24706SVB	24706 RAVENNA AVE	2013-04-25	14:57	Back	21		0.55	< 29	0.62 J, b	< 9.2	< 14	10	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24706SVH	24706 RAVENNA AVE	2013-04-25	14:59	House	20		1	110	3 J, b	13	15	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	0.16	18
R24706SVF	24706 RAVENNA AVE	2013-04-25	15:28	Front	23		0.21	44	0.76 J, b	< 9.3	< 15	< 6	< 8.4	< 4.7	< 4	< 6.1	< 0.00025	< 0.12	< 15
M24707SVH	24707 MARBELLA AVE	2010-06-28	09:52	House	19		0.49	49	< 2.4	< 8.9	< 3.5	< 5.8	8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24707SVB	24707 MARBELLA AVE	2010-06-28	11:30	Back	19		1.2	17	< 2.3	11	3.5	< 5.7	16	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	5.1
M24707SVH	24707 MARBELLA AVE	2011-05-06	14:12	House	20		1.3	< 12	7.1 J, b	< 9.4	< 15	< 6.1	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 16
M24707SVB	24707 MARBELLA AVE	2011-05-06	14:53	Back	21		0.61	< 11	3.4 J, b	< 9.1	< 14	< 5.9	9.6	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
M24707SVBS	24707 MARBELLA AVE	2011-05-06	14:53	Back		21.5	0.667	< 18	< 1	< 18	< 18	< 1.8	7.6	< 1.8	< 1.8	3.1	< 0.17		< 18
M24707SVF	24707 MARBELLA AVE	2011-05-06	15:24	Front	21		0.24	16	3.7 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
M24707SVFS	24707 MARBELLA AVE	2011-05-06	15:26	Front		22.1	0.265	< 20	< 1.2	< 20	< 20	< 2	< 2	< 2	< 2	2.2	< 0.19		< 20
M24707SVH	24707 MARBELLA AVE	2012-09-07	10:34	House	12		8.6	< 29	1.1 J, b	< 9.1	< 14	< 5.9	11	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
M24707SVF	24707 MARBELLA AVE	2012-09-07	11:01	Front	20		0.31	83 j	1.4 J, b	13	18	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	0.16	< 15
M24707SVFS	24707 MARBELLA AVE	2012-09-07	11:01	Front		21.2	0.308	< 20 U	< 0.83 U	< 20 U	< 20 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 0.16 U		< 20 U

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
					Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
					Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
M24707SVB	24707 MARBELLA AVE	2012-09-07	11:14	Back	20		0.69	< 27	1.4 J, b	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
M24707SVB	24707 MARBELLA AVE	2013-04-18	09:53	Back	22		0.33	69	2.1 J, b	11	22	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
M24707SVH	24707 MARBELLA AVE	2013-04-18	10:06	House	16		5.2	32	3.1 J, b	9.9	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
M24707SVF	24707 MARBELLA AVE	2013-04-19	11:34	Front	22		0.14	46	5.9 J, b	9.3	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24708SVH	24708 PANAMA AVE	2010-06-17	09:11	House	20		0.47	< 12	< 2.5	< 9.5	< 3.7	< 6.2	< 8.6	< 4.8	< 4	< 6.2	< 0.00025	< 0.13	< 3.9
P24708SVG	24708 PANAMA AVE	2010-06-17	10:06	Garage	19		0.36	30	< 2.4	37	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00061	< 0.3	< 3.8
P24708SVGS	24708 PANAMA AVE	2010-06-17	10:06	Garage		21.7	0.409	21	< 1.4	< 18	< 18	< 1.8	< 1.8	< 1.8	< 1.8	2.1	< 0.16		< 18
P24708SVB	24708 PANAMA AVE	2010-06-17	11:03	Back	18		4.1	15	< 2.5	< 9.3	< 3.6	< 6	< 8.4	< 4.7	< 4	< 6.1	< 0.00025	< 0.12	< 3.9
P24708SVBD	24708 PANAMA AVE	2010-06-17	11:03	Back	18		4	< 12	< 2.4	< 9.3	< 3.6	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 3.8
P24708SVH	24708 PANAMA AVE	2012-08-16	10:23	House	19		1.1	< 19	3.5 J, b	< 6.2	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4	< 0.00016	< 0.082	< 10
P24708SVG	24708 PANAMA AVE	2012-08-16	10:58	Garage	20		0.61	< 19	2.2 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
P24708SVGS	24708 PANAMA AVE	2012-08-16	10:58	Garage		21.3	0.651	20	< 0.83 U	< 20 U	< 20 U	< 2 U	2	< 2 U	< 2 U	2.3	< 0.16 U		< 20 U
P24708SVB	24708 PANAMA AVE	2012-08-16	11:26	Back	15		6	< 19	3.8 J, b	17	< 9.7	7.2	< 5.6	< 3.1	< 2.6	< 4	< 0.00016	< 0.082	< 10
P24708SVBS	24708 PANAMA AVE	2012-08-16	11:26	Back		15.7	6.18	< 20 U	< 0.86 U	< 20 U	< 20 U	6.5	< 2 U	< 2 U	< 2 U	2.2	< 0.16 U		< 20 U
P24708SVB	24708 PANAMA AVE	2013-05-15	15:09	Back	18		5	< 27	< 0.56	< 8.5	< 13	< 5.5	< 7.6	< 4.2	< 3.6	< 5.6	< 0.00022	< 0.11	< 14
P24708SVH	24708 PANAMA AVE	2013-05-15	15:21	House	21		0.85	< 29	3 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24708SVG	24708 PANAMA AVE	2013-05-15	15:38	Garage	21		0.68	< 30	1.7 J, b	< 9.6	< 15	< 6.2	< 8.6	< 4.8	< 4	< 6.3	< 0.00025	< 0.13	< 16
N24709SVH	24709 NEPTUNE AVE	2010-07-01	09:18	House	17		1.9	30	160	56	< 3.4	< 5.7	< 7.9	< 4.4	6.2	< 5.8	< 0.00068	< 0.34	< 3.6
N24709SVB	24709 NEPTUNE AVE	2010-07-01	10:09	Back	20		0.22	110	< 2.5	18	20	< 6	< 8.4	< 4.6	15	< 6.1	< 0.00025	< 0.12	< 3.8
N24709SVG	24709 NEPTUNE AVE	2010-07-01	10:44	Garage	18		0.051	54	2.3 J	460	3.8	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24709SVG	24709 NEPTUNE AVE	2012-08-10	10:03	Garage	18		2.7	< 19	< 3	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
N24709SVGS	24709 NEPTUNE AVE	2012-08-10	10:03	Garage		18.7	2.82	< 22 U	< 0.91 U	< 22 U	< 22 U	< 2.2 U	4.8	< 2.2 U	< 2.2 U	< 2.2 U	< 0.17 U		< 22 U
N24709SVH	24709 NEPTUNE AVE	2012-08-10	10:16	House	18		2.2	< 19	< 3	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
N24709SVB	24709 NEPTUNE AVE	2012-08-10	10:43	Back	20		0.38	< 21	< 3.3	< 6.6	< 10	< 4.3	< 5.9	< 3.3	< 2.8	< 4.3	< 0.00018	< 0.088	< 11
N24709SVBS	24709 NEPTUNE AVE	2012-08-10	10:43	Back		21.2	0.403	< 23 U	< 0.96 U	< 23 U	< 23 U	< 2.3 U	< 2.3 U	< 2.3 U	< 2.3 U	< 2.3 U	< 0.18 U		< 23 U
N24709SVH	24709 NEPTUNE AVE	2013-05-22	09:55	House	19		2	240	2.1 J, b	21	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
N24709SVB	24709 NEPTUNE AVE	2013-05-22	10:06	Back	21		0.51	51	1.3 J, b	16	< 14	< 5.7	< 7.9	5.5 b	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24709SVBD	24709 NEPTUNE AVE	2013-05-22	10:06	Back	22		0.52	< 28	0.93 J, b	25	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
N24709SVG	24709 NEPTUNE AVE	2013-05-22	10:31	Garage	20		2	< 28	0.8 J, b	9.4	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
P24709SVH	24709 PANAMA AVE	2009-10-03	11:28	House	18		1.4	< 11	< 2.9	67	< 3.4	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023		< 3.6
P24709SVB	24709 PANAMA AVE	2009-10-03	12:20	Back	19		1.8	26	5.3 J	26	10	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023		54
P24709SVF	24709 PANAMA AVE	2009-10-03	13:23	Front	17		0.059	19	16 J	< 7.7	3.4	< 5	< 7	< 3.9	< 3.3	< 5.1	< 0.0002		< 3.2
P24709SVB	24709 PANAMA AVE	2011-02-11	09:03	Back	20		1.3	< 11	0.96 J, b	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
P24709SVBS	24709 PANAMA AVE	2011-02-11	09:03	Back		21.2	1.46	< 18	< 1.4	< 18	< 18	< 1.8	< 1.8	< 1.8	< 1.8	2.6	< 0.16		< 18
P24709SVH	24709 PANAMA AVE	2011-02-11	09:51	House	19		1.8	< 10	0.86 J, b	< 8	< 3.1	< 5.2	< 7.2	9.7	< 3.4	< 5.3	0.00043	< 0.11	< 3.3
P24709SVHS	24709 PANAMA AVE	2011-02-11	09:51	House		19.9	2.22	< 18	< 1.4	< 18	< 18	< 1.8	2	< 1.8	< 1.8	2.5	< 0.16		< 18
P24709SVF	24709 PANAMA AVE	2011-02-11	10:49	Front	20		0.85	< 11	0.46 J, b	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
P24709SVF	24709 PANAMA AVE	2012-03-08	15:54	Front	21		0.66	< 18	6 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
P24709SVH	24709 PANAMA AVE	2012-03-08	15:55	House	18		3.2	30	4.9 J, b	18	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4	< 0.00016	< 0.082	< 10
P24709SVHD	24709 PANAMA AVE	2012-03-08	15:55	House	18		3.2	< 19	4.6 J, b	< 6.2	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4	< 0.00016	< 0.082	< 10
P24709SVH	24709 PANAMA AVE	2013-06-27	10:24	House	15		6.5	38	< 0.75	< 8.4	< 13	< 5.4	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
P24709SVBA	24709 PANAMA AVE	2013-06-27	10:34	Back	18		3.9	110	< 0.87	13	< 15	28	< 8.7	< 4.8	< 4.1	< 6.4	< 0.00026	< 0.13	< 16
P24709SVBAD	24709 PANAMA AVE	2013-06-27	10:34	Back	18		3.9	48	0.97 J, b	< 9.3	< 15	29	< 8.4	< 4.7	< 4	< 6.1	< 0.00025	< 0.12	< 15
P24709SVF	24709 PANAMA AVE	2013-06-27	10:54	Front	21		0.82	< 27	1 J, b	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
R24709SVB2	24709 RAVENNA AVE	2010-04-26	14:14	Back	20		0.11	120	17 J	< 8.9	66	< 5.8	< 8	11	< 3.8	< 5.9	< 0.00024	< 0.12	5.9
R24709SVB	24709 RAVENNA AVE	2010-04-26	15:02	Back	20		0.025	15	< 6.4	< 9.1	< 3.6	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	7.4
R24709SVF	24709 RAVENNA AVE	2010-04-26	15:54	Front	21		< 0.023	28	< 6.2	16	5.2	< 5.7	< 7.9	< 4.4	7	< 5.8	< 0.00023	< 0.12	< 3.6
R24709SVH	24709 RAVENNA AVE	2010-08-16	09:18	House	18		2.8	18	< 6.4	13	< 3.6	6.7	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
R24709SVF	24709 RAVENNA AVE	2010-08-16	10:05	Front	21		0.096	< 12	< 6.7	< 9.5	< 3.7	< 6.2	< 8.5	< 4.7	< 4	< 6.2	0.001	< 0.13	< 3.9
R24709SVB2	24709 RAVENNA AVE	2010-08-16	11:16	Back	20		1.1	12	< 6.2	10	< 3.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
R24709SVB	24709 RAVENNA AVE	2010-08-16	12:33	Back	20		0.42	29	< 6.1	< 8.7	< 3.4	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
R24709SVF	24709 RAVENNA AVE	2013-03-21	10:06	Front	22		0.066	59	< 0.57 PF	< 8.7	22	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	0.00025	< 0.12	< 14

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

Analyte					Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
Units					MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
Frequency of Detection					100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
R24709SVFS	24709 RAVENNA AVE	2013-03-21	10:06	Front		22	< 0.16 U	< 20 U	< 0.84 U	< 20 U	< 20 U	< 2 U	< 2 U	< 2 U	< 2 U	2.2	< 0.16 U		< 20 U
R24709SVB2	24709 RAVENNA AVE	2013-03-21	11:10	Back	21		0.54	< 27	< 0.56 PF	< 8.5	< 13	< 5.5	< 7.7	< 4.2	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
R24709SVH	24709 RAVENNA AVE	2013-03-22	16:33	House	19		1.9	30	0.79 J, b	< 8.7	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
R24709SVB	24709 RAVENNA AVE	2013-08-14	14:49	Back	21		0.22	< 30	0.95 J, b	< 9.5	< 15	< 6.2	< 8.6	< 4.8	< 4	< 6.2	< 0.00025	< 0.13	< 16
R24709SVH	24709 RAVENNA AVE	2013-08-14	14:52	House	19		2	< 28	< 0.8 PF	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24709SVF	24709 RAVENNA AVE	2013-08-14	15:20	Front	21		0.07	< 28	< 0.8 PF	< 8.9	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
R24709SVB2	24709 RAVENNA AVE	2013-08-14	15:28	Back	20		0.68	< 26	< 0.75 PF	< 8.4	< 13	< 5.4	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
M24710SVB	24710 MARBELLA AVE	2010-09-14	14:59	Back	13		9.2	< 11	2.3 J, b	< 9	< 3.5	9.4	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	4.6
M24710SVF	24710 MARBELLA AVE	2010-09-14	15:40	Front	20		0.45	< 10	< 1.2	< 8.3	< 3.2	< 5.4	< 7.5	< 4.1	< 3.5	< 5.4	< 0.00022	< 0.11	< 3.4
M24710SVF	24710 MARBELLA AVE	2011-02-08	13:36	Front	20		0.31	39	< 0.35	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
M24710SVH	24710 MARBELLA AVE	2011-02-08	14:11	House	16		2.2	31	< 0.34	16	4.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24710SVB	24710 MARBELLA AVE	2011-02-08	15:14	Back	14		5.6	< 11	0.62 J	< 8.6	< 3.4	36	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
M24710SVF	24710 MARBELLA AVE	2012-05-03	15:19	Front	21		0.47	< 18	1.2 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
M24710SVFD	24710 MARBELLA AVE	2012-05-03	15:19	Front	22		0.49	< 18	0.86 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
M24710SVH	24710 MARBELLA AVE	2012-05-03	15:38	House	18		4.3	< 19	3.5 J, b	< 6	< 9.3	< 3.8	< 5.4	6	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
M24710SVB	24710 MARBELLA AVE	2012-05-03	16:03	Back	10		8.5	60	2.3 J, b	< 6.4	< 10	9.4	< 5.8	35	< 2.7	< 4.2	< 0.00017	< 0.086	< 11
N24712SVF	24712 NEPTUNE AVE	2010-04-21	14:48	Front	21		0.18	32	60 b	< 9.1	7.3	< 5.9	< 8.2	6	23	< 6	< 0.00024	< 0.12	< 3.8
N24712SVB	24712 NEPTUNE AVE	2010-04-21	15:45	Back	22		0.3	< 11	< 2.4	< 9	< 3.5	310	< 8.1	< 4.5	3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24712SVH2	24712 NEPTUNE AVE	2010-08-11	08:58	House	15		6.4	31	< 6	10	3.4	< 5.6	< 7.8	< 4.3	20	< 5.7	< 0.00023	< 0.11	< 3.6
N24712SVF	24712 NEPTUNE AVE	2011-02-07	09:16	Front	21		0.53	15	< 0.32	< 8.4	< 3.3	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
N24712SVH2	24712 NEPTUNE AVE	2011-02-07	10:04	House	17		4.5	< 11	2.6 J, b	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24712SVB	24712 NEPTUNE AVE	2011-02-07	10:59	Back	20		1.1	13	< 0.34	< 8.9	4.3	29	< 8	< 4.5	< 3.8	< 5.9	0.00045	< 0.12	< 3.7
N24712SVBS	24712 NEPTUNE AVE	2011-02-07	10:59	Back		20.7	1.18	< 17	< 1.3	< 17	< 17	27	< 1.7	< 1.7	< 1.7	2.5	< 0.15		< 17
N24712SVH2	24712 NEPTUNE AVE	2013-01-18	14:55	House	17		5.1	< 28	3.9 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24712SVB	24712 NEPTUNE AVE	2013-01-18	14:57	Back	20		1.1	< 27	2.6 J, b	< 8.7	< 14	580	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
N24712SVF	24712 NEPTUNE AVE	2013-01-18	15:26	Front	20		0.39	< 30	2 J, b	< 9.5	< 15	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16
N24712SVB	24712 NEPTUNE AVE	2013-06-12	14:48	Back	17		4.4	< 28	< 2.6	< 8.8	< 14	46	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
N24712SVH2	24712 NEPTUNE AVE	2013-06-12	15:02	House	15		6.9	< 27	< 2.4	15	< 13	< 5.5	< 7.6	20	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
N24712SVF	24712 NEPTUNE AVE	2013-06-12	15:14	Front	21		0.92	< 28	< 2.6	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24712SVH	24712 PANAMA AVE	2010-08-12	14:06	House	20		0.11	12 b	< 6.4	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
P24712SVB	24712 PANAMA AVE	2010-08-12	14:54	Back	20		0.11	14 b	< 6.2	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24712SVF	24712 PANAMA AVE	2010-08-12	15:45	Front	20		0.3	26 b	< 6.4	< 9.1	3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
P24712SVH	24712 PANAMA AVE	2011-02-25	15:09	House	21		0.09	22	0.73 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24712SVB	24712 PANAMA AVE	2011-02-25	15:36	Back	22		0.11	12	0.44 J, b	< 8.6	< 13	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
P24712SVBD	24712 PANAMA AVE	2011-02-25	15:36	Back	22		0.12	< 11	< 0.33	< 8.6	< 13	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
P24712SVF	24712 PANAMA AVE	2011-02-25	16:00	Front	21		0.18	17	< 0.34	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
R24712SVF	24712 RAVENNA AVE	2010-01-04	10:51	Front	21		0.41	26	< 2.4	22	< 3.5	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
R24712SVH	24712 RAVENNA AVE	2010-01-04	11:38	House	20		0.44	18	< 2.2	21	< 3.3	< 5.5	< 7.6	< 4.2	< 3.6	5.6	< 0.00022	0.16	< 3.5
R24712SVB	24712 RAVENNA AVE	2010-01-04	12:30	Back	21		0.07	180	< 2.4	< 9	5.3	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	0.17	< 3.7
R24712SVB	24712 RAVENNA AVE	2011-06-10	11:35	Back	20		0.69	27	5 J, b	12	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
R24712SVBS	24712 RAVENNA AVE	2011-06-10	11:35	Back		21.6	0.825	< 18 U	< 1.1 U	< 18 U	< 18 U	2	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 0.17 U		< 18 U
R24712SVF	24712 RAVENNA AVE	2011-06-10	12:17	Front	20		0.6	19	1.1 J, b	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
R24712SVFS	24712 RAVENNA AVE	2011-06-10	12:17	Front		21.5	0.658	20	< 1 U	< 18 U	< 18 U	4.1	< 1.8 U	< 1.8 U	< 1.8 U	1.9	< 0.17 U		< 18 U
R24712SVH	24712 RAVENNA AVE	2011-06-10	13:00	House	20		0.71	15	1 J, b	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
R24712SVHS	24712 RAVENNA AVE	2011-06-10	13:00	House		21.3	0.777	< 17 U	< 1 U	< 17 U	< 17 U	< 1.7 U	4.6	< 1.7 U	< 1.7 U	1.9	< 0.16 U		< 17 U
M24713SVH	24713 MARBELLA AVE	2011-04-26	14:01	House	21		< 0.024	16	0.85 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
M24713SVHD	24713 MARBELLA AVE	2011-04-26	14:01	House	20		< 0.048	15	0.57 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00048	< 0.24	< 15
M24713SVF	24713 MARBELLA AVE	2011-04-26	14:47	Front	21		< 0.025	< 12	< 0.36	< 9.5	< 15	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16
M24713SVFD	24713 MARBELLA AVE	2011-04-26	14:47	Front	22		< 0.026	< 12	0.83 J, b	< 9.9	< 16	< 6.4	< 9	< 5	< 4.2	< 6.5	< 0.00026	< 0.13	< 16
M24713SVB	24713 MARBELLA AVE	2011-04-26	15:28	Back	22		< 0.048	24	< 0.34	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00048	< 0.24	< 15
M24713SVH	24713 MARBELLA AVE	2013-03-08	14:39	House	21		0.024	34	1 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
M24713SVB	24713 MARBELLA AVE	2013-03-08	15:03	Back	21		0.13	34	0.63 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

Analyte					Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
Units					MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
Frequency of Detection					100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
M24713SVF	24713 MARBELLA AVE	2013-03-08	15:08	Front	21		0.44	< 26	0.74 J, b	< 8.4	< 13	< 5.4	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
M24713SVH	24713 MARBELLA AVE	2013-07-30	14:52	House	20		0.041	78	2 J, b	< 8.6	< 13	< 5.5	< 7.7	6.2	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
M24713SVB	24713 MARBELLA AVE	2013-07-30	15:06	Back	20		0.36	40	0.94 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
M24713SVF	24713 MARBELLA AVE	2013-07-30	15:23	Front	20		0.74	< 26	< 0.75	< 8.4	< 13	< 5.4	< 7.5	< 4.2	< 3.5	< 5.5	< 0.00022	< 0.11	< 14
P24713SVH	24713 PANAMA AVE	2011-05-10	09:26	House	13		6	< 11	2 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	0.024	< 0.12	< 15
P24713SVB	24713 PANAMA AVE	2011-05-10	10:08	Back	12		6.8	< 11	5.5 J, b	< 8.8	< 14	110	< 7.9	5.6	< 3.7	< 5.8	0.0026	< 0.12	< 14
P24713SVG	24713 PANAMA AVE	2011-05-10	10:59	Garage	20		3.5	< 11	1.4 J, b	< 8.7	< 14	< 5.6	200	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
P24713SVGS	24713 PANAMA AVE	2011-05-10	10:59	Garage		19.6	3.78	< 17	< 0.96	< 17	< 17	2	180	< 1.7	< 1.7	2.2	< 0.15		18
P24713SVH	24713 PANAMA AVE	2013-04-05	09:46	House	9.2		11	< 29	1.2 J	< 9.2	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24713SVB	24713 PANAMA AVE	2013-04-05	10:13	Back	15		7.1	< 55	1.6 J	< 17	< 27	< 11	< 16	< 8.7	< 7.4	< 11	< 0.00023	< 0.12	< 29
P24713SVBD	24713 PANAMA AVE	2013-04-05	10:13	Back	7.9 j		3.7 j	< 50	1.2 J	< 16	< 25	< 10	< 14	< 8	< 6.7	< 10	< 0.00023	< 0.11	< 26
P24713SVG	24713 PANAMA AVE	2013-04-05	10:16	Garage	20		3.2	< 28	2 J	< 9	< 14	< 5.8	160	< 4.5	3.9	< 5.9	< 0.00024	< 0.12	< 15
P24713SVGD	24713 PANAMA AVE	2013-04-05	10:16	Garage	19		3.2	< 28	1.8 J	< 9	< 14	< 5.8	160	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24713SVH	24713 RAVENNA AVE	2011-04-06	13:59	House	15		3.8	11	1.3 J, b	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00053	< 0.27	< 14
R24713SVG	24713 RAVENNA AVE	2011-04-06	14:43	Garage	18		0.23	< 13	1.3 J, b	< 10	< 16	< 6.7	< 9.4	< 5.2	< 4.4	< 6.8	< 0.00049	< 0.24	< 17
R24713SVGD	24713 RAVENNA AVE	2011-04-06	14:43	Garage	17		0.21	< 13	0.85 J, b	< 10	< 16	< 6.7	< 9.4	< 5.2	< 4.4	< 6.8	< 0.00028	< 0.14	< 17
R24713SVB	24713 RAVENNA AVE	2011-04-06	15:27	Back	19		0.94	39	0.7 J, b	17	< 14	370	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
R24713SVBD	24713 RAVENNA AVE	2011-04-06	15:27	Back	18		0.89	36	0.71 J, b	18	< 14	400	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
R24713SVH	24713 RAVENNA AVE	2013-08-01	14:52	House	8.3		9.6	< 28	< 0.78	< 8.7	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
R24713SVB	24713 RAVENNA AVE	2013-08-01	15:06	Back	19		1.4	< 28	< 0.8	< 8.9	< 14	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24713SVG	24713 RAVENNA AVE	2013-08-01	15:16	Garage	17		3.3	< 28	< 0.8	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
N24715SVB	24715 NEPTUNE AVE	2010-04-26	09:40	Back	21		< 0.023	26	< 6.2	35	11	< 5.7	< 7.9	< 4.4	4.6	< 5.8	< 0.00023	< 0.12	< 3.6
N24715SVF	24715 NEPTUNE AVE	2010-04-26	10:30	Front	21		< 0.024	21	< 6.3	17	4.2	< 5.8	< 8	7.5	4.1	< 5.9	< 0.00024	< 0.12	< 3.7
N24715SVH	24715 NEPTUNE AVE	2010-04-26	11:38	House	19		2.3	68	< 6.2	21	36	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24715SVB	24715 NEPTUNE AVE	2011-02-18	15:05	Back	23		0.25	27	< 0.34	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24715SVH	24715 NEPTUNE AVE	2011-02-18	15:48	House	19		2.3	< 13	< 0.4	< 10	< 4.1	< 6.7	< 9.4	< 5.2	< 4.4	< 6.8	0.00034	< 0.14	< 4.3
N24715SVF	24715 NEPTUNE AVE	2011-02-18	16:41	Front	22		0.24	< 11	< 0.34	< 8.8	< 3.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
N24715SVH	24715 NEPTUNE AVE	2013-08-07	14:44	House	18		2.2	45	2.4 J, b	63	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	0.00038	< 0.12	< 15
N24715SVB	24715 NEPTUNE AVE	2013-08-07	14:54	Back	19		2.1	< 30	1.4 J, b	< 9.6	< 15	< 6.2	< 8.6	< 4.8	< 4.1	< 6.3	< 0.00026	< 0.13	< 16
N24715SVF	24715 NEPTUNE AVE	2013-08-07	15:38	Front	21		0.45	< 29	0.94 J, b	< 9.3	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
M24716SVG	24716 MARBELLA AVE	2010-07-02	14:50	Garage	13		4.3	47	< 2.4 Q	< 9.1	< 3.6	16	28	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
M24716SVH	24716 MARBELLA AVE	2010-07-02	16:23	House	20		0.2	35	< 2.3 Q	13	6	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	4
M24716SVH	24716 MARBELLA AVE	2011-04-19	14:21	House	21		0.99	< 11	< 0.33	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
M24716SVG	24716 MARBELLA AVE	2011-04-19	15:03	Garage	16		5.3	< 14	< 0.42	< 11	< 17	< 7.1	19	< 5.5	< 4.6	< 7.2	< 0.00029	< 0.14	< 18
M24716SVB	24716 MARBELLA AVE	2011-04-19	15:40	Back	20		1.2	< 12	2.4 J, b	< 9.2	< 14	150	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
M24716SVBD	24716 MARBELLA AVE	2011-04-19	15:40	Back	20		1.2	< 12	< 0.35	< 9.3	< 14	140	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
M24716SVB	24716 MARBELLA AVE	2012-05-24	09:56	Back	21		0.9	< 25	1.2 J, b	< 8	17	890	< 7.2	6.2 j	< 3.4	< 5.2	< 0.00015	< 0.076	< 13
M24716SVBD	24716 MARBELLA AVE	2012-05-24	09:56	Back	21		0.94	< 19	1.4 J, b	< 5.9	< 9.2	760	< 5.3	< 3	< 2.5	< 3.9	< 0.00016	< 0.078	< 9.8
M24716SVH	24716 MARBELLA AVE	2012-05-24	10:29	House	20		0.82	30	4.9 J, b	< 5.8	< 9	< 3.7	< 5.2	< 2.9	5.6	< 3.8	0.00022	< 0.076	< 9.5
M24716SVG	24716 MARBELLA AVE	2012-05-24	10:42	Garage	15		6.1	< 18	2.2 J, b	< 5.8	< 9.1	16	20	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
M24716SVH	24716 MARBELLA AVE	2013-07-25	09:55	House	20		0.61	< 30	0.88 J, b	< 9.5	< 15	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16
M24716SVB	24716 MARBELLA AVE	2013-07-25	10:04	Back	18		1.7	< 28	< 0.78	< 8.8	< 14	310	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
M24716SVBD	24716 MARBELLA AVE	2013-07-25	10:04	Back	18		1.8	< 29	< 0.82	< 9.1	< 14	330	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
M24716SVG	24716 MARBELLA AVE	2013-07-25	10:25	Garage	13		8.3	< 27	< 0.77	< 8.6	< 14	30	17	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
R24716SVH	24716 RAVENNA AVE	2012-03-01	11:22	House	20		0.4	< 26	1.5 J, b	< 8.2	< 13	< 5.3	< 7.4	< 4.1	< 3.5	< 5.4	< 0.00016	< 0.078	< 14
R24716SVHD	24716 RAVENNA AVE	2012-03-01	11:22	House	20		0.4	< 25	0.45 J, b	< 8	< 12	< 5.2	< 7.2	< 4	< 3.4	< 5.2	< 0.00016	< 0.079	< 13
R24716SVG	24716 RAVENNA AVE	2012-03-01	11:32	Garage	18		3.2	< 23	0.51 J, b	< 7.4	< 12	< 4.8	< 6.6	< 3.7	< 3.1	< 4.8	< 0.00015	< 0.073	< 12
R24716SVB	24716 RAVENNA AVE	2012-03-01	12:01	Back	20		0.39	< 19	0.3 J, b	< 6.1	< 9.5	49	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
M24717SVH	24717 MARBELLA AVE	2010-07-02	14:52	House	20		0.15	130	2.4 J,Q	20	9.4	7	< 8	7.8	5.2	< 5.9	0.00069	< 0.27	< 3.7
M24717SVF	24717 MARBELLA AVE	2010-07-02	16:12	Front	21		< 0.024	52	< 2.3 Q	11	7.4	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
M24717SVB	24717 MARBELLA AVE	2010-07-02	16:51	Back	15		7	32	3.9 J,Q	16	9.6	16	22	< 4.4	< 3.7	< 5.8	< 0.00045	< 0.22	91
M24717SVH	24717 MARBELLA AVE	2012-07-26	09:56	House	20		0.95	< 18	< 2.9	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
M24717SVB	24717 MARBELLA AVE	2012-07-26	10:08	Back	17		5.2	< 19	< 3	< 6.1	< 9.5	< 3.9	9.6	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
M24717SVBD	24717 MARBELLA AVE	2012-07-26	10:08	Back	17		5.2	47	< 3	< 6	< 9.4	< 3.9	10	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
M24717SVF	24717 MARBELLA AVE	2012-07-26	10:27	Front	21		0.1	< 30	< 4.8	< 9.7	< 15	< 6.3	< 8.7	< 4.8	< 4.1	< 6.4	< 0.00015	< 0.076	< 16
M24717SVH	24717 MARBELLA AVE	2013-05-23	14:49	House	20		1.1	< 28	0.75 J, b	< 8.9	< 14	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00032	< 0.16	< 15
M24717SVB	24717 MARBELLA AVE	2013-05-23	15:08	Back	16		6	40	0.77 J, b	< 9.3	< 14	< 6	17	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
M24717SVF	24717 MARBELLA AVE	2013-05-23	15:22	Front	22		0.094	64	0.74 J, b	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
N24718SVG	24718 NEPTUNE AVE	2010-09-08	09:57	Garage	16		4.4	17	3.9 J, b	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24718SVB	24718 NEPTUNE AVE	2010-09-08	10:47	Back	19		2.7	59	2.6 J, b	9.1	< 3.5	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24718SVHA	24718 NEPTUNE AVE	2011-02-04	09:36	House	21		0.53	29	1.7 J, b	< 8.3	< 3.2	< 5.4	54	< 4.1	< 3.5	< 5.4	0.00025	0.43	< 3.4
N24718SVHB	24718 NEPTUNE AVE	2012-02-24	10:34	Back	20		1.2	< 18	0.91 J, b	24	< 9	< 3.7	12	< 2.9	< 2.4	< 3.8	0.00031	0.19	< 9.5
N24718SVG	24718 NEPTUNE AVE	2012-02-24	10:58	Garage	20		2.5	< 18	1.3 J, b	< 5.7	< 9	< 3.7	< 5.2	< 2.9	< 2.4	< 3.8	< 0.00015	< 0.076	< 9.5
N24718SVB	24718 NEPTUNE AVE	2012-02-24	11:25	Back	20		2.1	< 20	0.63 J, b	< 6.3	< 9.9	< 4.1	< 5.7	< 3.2	< 2.7	< 4.2	< 0.00017	< 0.084	< 10
N24718SVBD	24718 NEPTUNE AVE	2012-02-24	11:25	Back	20		2.1	< 20	0.64 J, b	< 6.3	< 9.9	< 4.1	< 5.7	< 3.2	< 2.7	< 4.2	< 0.00017	< 0.084	< 10
P24718SVB2	24718 PANAMA AVE	2010-06-24	09:32	Back	20		0.12	13	< 2.4	< 8.9	< 3.5	290	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
P24718SVF	24718 PANAMA AVE	2010-06-24	10:19	Front	20		0.036	34	< 2.4	11	8.2	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
P24718SVH	24718 PANAMA AVE	2010-06-24	11:18	House	20		0.25	85	< 2.4	32	10	< 5.9	250	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
P24718SVB2	24718 PANAMA AVE	2012-10-18	10:00	Back	20		1.2	< 28	< 0.58 PF	< 8.8	< 14	21	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
P24718SVB2D	24718 PANAMA AVE	2012-10-18	10:00	Back	20		1.2	32	0.67 J, b	< 9	< 14	21	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24718SVH	24718 PANAMA AVE	2012-10-18	10:03	House	20		0.56	< 27	< 0.55 PF	< 8.4	< 13	< 5.5	200	< 4.2	< 3.6	< 5.5	< 0.00022	0.38	< 14
P24718SVF	24718 PANAMA AVE	2012-10-18	10:42	Front	20		0.76	< 28	0.58 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00029	< 0.14	< 14
P24718SVH	24718 PANAMA AVE	2013-05-16	10:09	House	21		0.43	< 28	< 2.6	< 8.9	< 14	< 5.8	180	18	< 3.8	< 5.9	< 0.00024	0.36	< 15
P24718SVG	24718 PANAMA AVE	2013-05-16	10:12	Garage	20		0.17	68	< 2.6	< 9.1	< 14	< 5.9	< 8.2	26	< 3.9	< 6	0.00026	< 0.12	< 15
P24718SVB2	24718 PANAMA AVE	2013-05-16	10:51	Back	20		0.88	< 28	< 2.5	< 8.7	< 14	12	< 7.9	7.2	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
P24718SVF	24718 PANAMA AVE	2013-05-16	11:10	Front	21		0.48	< 25	< 2.3	< 7.8	< 12	< 5.1	< 7	< 3.9	< 3.3	< 5.1	< 0.00021	< 0.1	< 13
N24719SVB	24719 NEPTUNE AVE	2010-07-16	14:03	Back	16		3.8	43	< 6.6	12	5.7	< 6	< 8.4	< 4.7	< 4	< 6.1	< 0.00025	< 0.12	11
N24719SVH	24719 NEPTUNE AVE	2010-07-16	14:52	House	14		6.2	41	< 6.2	< 8.8	3.6	< 5.7	< 7.9	< 4.4	14 j	< 5.8	< 0.00023	< 0.12	< 3.6
N24719SVF	24719 NEPTUNE AVE	2010-07-16	15:43	Front	18		2.9	270	< 6.3	16	16	< 5.8	< 8.1	< 4.5	48 j	< 5.9	< 0.00024	0.28	< 3.7
N24719SVH	24719 NEPTUNE AVE	2012-07-19	15:00	House	16		5.7	22	< 3 PF	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
N24719SVB	24719 NEPTUNE AVE	2012-07-19	15:32	Back	16		5	< 26	< 4	14	< 13	590	< 7.3	< 4	< 3.4	< 5.3	< 0.00022	< 0.11	< 13
N24719SVBD	24719 NEPTUNE AVE	2012-07-19	15:32	Back	16		5.2	< 19	< 3	< 6.1	< 9.5	830	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
P24719SVH	24719 PANAMA AVE	2010-06-28	09:23	House	20		0.14	210	2.5 J	14	21	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	5.6
P24719SVF	24719 PANAMA AVE	2010-06-28	11:21	Front	18		1.7	12	< 2.3	8.5 J	< 3.4	19	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
P24719SVBA	24719 PANAMA AVE	2011-03-04	08:51	Back	12		5.9	< 11	0.46 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
P24719SVH	24719 PANAMA AVE	2011-03-04	09:38	House	21		0.26	< 11	1 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
P24719SVHS	24719 PANAMA AVE	2011-03-04	09:38	House		22	0.279	< 17	< 1	19	< 17	< 1.7	< 1.7	< 1.7	< 1.7	2.6	< 0.16		< 17
P24719SVF	24719 PANAMA AVE	2011-03-04	10:20	Front	21		0.5	28	0.67 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
P24719SVFS	24719 PANAMA AVE	2011-03-04	10:20	Front		21.9	0.555	23	< 0.98	< 17	< 17	< 1.7	< 1.7	< 1.7	< 1.7	2.5	< 0.15		< 17
P24719SVF	24719 PANAMA AVE	2012-09-28	09:49	Front	18		3.1	39	1.6 J, b	29	< 14	< 5.7	< 7.9	12	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
P24719SVBA	24719 PANAMA AVE	2012-09-28	10:34	Back	12		8.8	37	0.87 J, b	9	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24719SVB	24719 RAVENNA AVE	2010-04-21	12:16	Back	16		5.9	28	< 2.4	9.9	< 3.5	< 5.8	< 8.1	4.6	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
R24719SVF	24719 RAVENNA AVE	2010-04-21	12:43	Front	20		1.2	98	< 2.3	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24719 SVB	24719 RAVENNA AVE	2012-11-29	10:07	Back	15		4.7	< 27	1.8 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
R24719 SVBD	24719 RAVENNA AVE	2012-11-29	10:07	Back	15		4.6	< 27	1.5 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
R24719 SVH	24719 RAVENNA AVE	2012-11-29	10:11	House	16		4.1	70 b	4.7 J, b	< 8.5	< 13	< 5.5	< 7.7	< 4.2	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
R24719 SVF	24719 RAVENNA AVE	2012-11-29	10:44	Front	20		0.95	< 28	1.3 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
M24722SVH	24722 MARBELLA AVE	2010-11-29	09:19	House	21		0.72	27	0.77 J, b	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24722SVF	24722 MARBELLA AVE	2010-11-29	09:55	Front	21		< 0.024	12	0.63 J, b	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
M24722SVFD	24722 MARBELLA AVE	2010-11-29	09:55	Front	21		< 0.024	16	0.65 J, b	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24722SVB	24722 MARBELLA AVE	2010-11-29	11:03	Back	21		0.096	< 12	0.74 J, b	< 9.7	< 3.8	< 6.3	< 8.8	< 4.9	< 4.1	< 6.4	0.00027	< 0.13	< 4
M24722SVH	24722 MARBELLA AVE	2012-06-07	10:06	House	20		1	< 19	< 0.31	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.0002	< 0.1	< 9.8
M24722SVF	24722 MARBELLA AVE	2012-06-07	10:10	Front	21		0.16	21	< 0.3	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.0002	< 0.1	< 9.6
M24722SVFS	24722 MARBELLA AVE	2012-06-07	10:10	Front		21.4	0.185	< 18 U	< 0.74 U	< 18 U	< 18 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	2.1	< 0.16 U		< 18 U

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
M24722SVB	24722 MARBELLA AVE	2012-06-07	10:49	Back	20		0.28	30	0.74 J, b	< 6.5	< 10	< 4.2	< 5.8	4.8	< 2.7	< 4.2	< 0.00022	< 0.11	< 11
M24722SVB	24722 MARBELLA AVE	2013-04-11	14:37	Back	21		0.16	43	2.4 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
M24722SVBD	24722 MARBELLA AVE	2013-04-11	14:37	Back	21		0.16	< 29	1.3 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
M24722SVH	24722 MARBELLA AVE	2013-04-11	15:12	House	21		0.76	< 27	1 J, b	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
M24722SVF	24722 MARBELLA AVE	2013-04-11	15:15	Front	21		0.21	< 29	0.99 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
N24722SVH	24722 NEPTUNE AVE	2010-07-23	13:35	House	19		1	31	< 5.9	37	4.2	< 5.5	< 7.6	12	270	< 5.5	< 0.00022	< 0.11	< 3.5
N24722SVG	24722 NEPTUNE AVE	2010-07-23	14:07	Garage	19		0.49	22	< 5.8	< 8.3	< 3.2	< 5.4	< 7.5	< 4.1	< 3.5	< 5.4	< 0.00022	< 0.11	< 3.4
N24722SVB	24722 NEPTUNE AVE	2010-07-23	14:42	Back	20		0.56	37	< 6	15	4.5	< 5.6	< 7.8	< 4.3	12	< 5.7	< 0.00023	< 0.11	< 3.6
N24722SVH	24722 NEPTUNE AVE	2012-04-13	15:06	House	20		0.93	22	1.8 J, b	< 6.1	< 9.6	< 4	< 5.5	< 3.1	< 2.6	< 4	0.00034	< 0.13	< 10
N24722SVG	24722 NEPTUNE AVE	2012-04-13	15:07	Garage	19		1.6	< 18	0.79 J, b	17	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00024	< 0.12	< 9.6
N24722SVG D	24722 NEPTUNE AVE	2012-04-13	15:07	Garage	19		1.7	< 18	0.84 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00024	< 0.12	< 9.6
N24722SVB	24722 NEPTUNE AVE	2012-04-13	15:49	Back	17		0.87	32	1.2 J, b	14	< 8	< 3.3	< 4.6	38	< 2.2	4.2	< 0.00021	< 0.1	< 8.4
P24722SVB	24722 PANAMA AVE	2010-04-26	10:23	Back	19		1.9	29	< 6.6	18	4.2	< 6	< 8.4	< 4.7	< 4	< 6.1	< 0.00025	< 0.12	6
P24722SVF	24722 PANAMA AVE	2010-04-26	11:28	Front	21		0.083	22	< 6.6	< 9.3	4.2	< 6	< 8.4	< 4.7	4.2	< 6.1	< 0.00025	< 0.12	< 3.9
P24722SVFD	24722 PANAMA AVE	2010-04-26	11:28	Front	20		0.08	47	< 6.5	< 9.3	15	< 6	< 8.3	< 4.6	9.7	< 6.1	< 0.00025	< 0.12	< 3.8
P24722SVH	24722 PANAMA AVE	2010-08-17	13:32	House	19		< 0.024	410	< 6.4	200	28	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	0.52	8.2
P24722SVF	24722 PANAMA AVE	2011-03-07	09:27	Front	21		0.2	< 11	0.42 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
P24722SVFD	24722 PANAMA AVE	2011-03-07	09:27	Front	21		0.2	< 11	< 0.33	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
P24722SVG	24722 PANAMA AVE	2011-03-07	10:06	Garage	21		0.23	18	0.52 J, b	< 8.6	< 13	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
P24722SVGD	24722 PANAMA AVE	2011-03-07	10:06	Garage	21		0.23	130	13 J, b	12	22	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
P24722SVB	24722 PANAMA AVE	2011-03-07	10:49	Back	18		1.2	< 11	0.48 J, b	< 8.7	< 14	42	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
P24722SVG	24722 PANAMA AVE	2012-04-26	10:06	Garage	20		0.71	< 19	7.5 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00021	< 0.1	< 9.8
P24722SVF	24722 PANAMA AVE	2012-04-26	10:23	Front	20		0.21	38	4.9 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00021	< 0.11	< 9.8
P24722SVFD	24722 PANAMA AVE	2012-04-26	10:23	Front	21		0.22	< 19	4.1 J, b	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
P24722SVB	24722 PANAMA AVE	2012-04-26	10:38	Back	18		2	< 19	2.1 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00024	< 0.12	< 9.8
R24722SVH	24722 RAVENNA AVE	2010-10-25	09:53	House	16		4.2	< 11	< 1.3	< 8.8	< 3.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
R24722SVF	24722 RAVENNA AVE	2010-10-25	10:39	Front	19		0.92	26	< 1.4	19	4	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
R24722SVB	24722 RAVENNA AVE	2010-10-25	11:16	Back	17		2.8	12	< 1.4	< 9.4	< 3.7	< 6.1	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 3.9
R24722SVH	24722 RAVENNA AVE	2012-11-09	15:01	House	14		5.9	< 29	2.1 J, b	< 9.3	< 15	< 6	< 8.4	< 4.7	< 4	< 6.1	< 0.00025	< 0.12	< 15
R24722SVB	24722 RAVENNA AVE	2012-11-09	15:15	Back	17		3	< 28	0.98 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24722SVF	24722 RAVENNA AVE	2012-11-09	15:39	Front	20		1.7	< 29	0.86 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24722SVB	24722 RAVENNA AVE	2013-05-02	09:54	Back	21		1.1	< 28	2.3 J, b	< 8.8	< 14	5.8	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24722SVBD	24722 RAVENNA AVE	2013-05-02	09:54	Back	21		1.1	< 29	1.9 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24722SVH	24722 RAVENNA AVE	2013-05-02	10:05	House	18		4.6	36	1.3 J, b	< 8.9	< 14	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24722SVF	24722 RAVENNA AVE	2013-05-02	10:31	Front	20		2.1	< 27	1.1 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
M24723SVB	24723 MARBELLA AVE	2010-03-29	16:23	Back	20		0.069	23	4.1 J, b	48	< 3.8	< 6.2	22	< 4.8	< 4.1	< 6.3	< 0.00026	< 0.13	< 4
M24723SVH	24723 MARBELLA AVE	2010-04-07	12:12	House	19		0.61	11	< 2.3	13 J	< 3.5	< 5.7	430	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
M24723SVF	24723 MARBELLA AVE	2010-07-21	09:24	Front	20		< 0.023	40	< 6.2	9	4.6	< 5.7	< 7.9	69 j	3.8 j	< 5.8	< 0.00023	< 0.12	< 3.6
M24723SVF	24723 MARBELLA AVE	2012-06-21	15:14	Front	21		0.38	26	0.57 J, b	< 6.1 PF	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
M24723SVFD	24723 MARBELLA AVE	2012-06-21	15:14	Front	21		0.36	38	< 0.32	< 6.1 PF	< 9.5	< 3.9	< 5.5	3.4	< 2.6	< 4	< 0.00016	< 0.08	< 10
M24723SVH	24723 MARBELLA AVE	2012-06-21	15:21	House	13		6.2	< 19	0.33 J, b	< 6.1 PF	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
M24723SVB	24723 MARBELLA AVE	2012-06-21	15:47	Back	21		0.49	< 19	0.45 J, b	< 6.1 PF	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
R24723SVB	24723 RAVENNA AVE	2010-11-02	13:51	Back	18		2.4	12	< 1.4	< 9.5	< 3.7	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 3.9
R24723SVH	24723 RAVENNA AVE	2010-11-02	13:54	House	18		2.9	84	< 1.4	13	13	< 5.8	< 8.1	5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
R24723SVF	24723 RAVENNA AVE	2010-11-02	14:27	Front	17		3.1	17	< 1.3	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24723SVF	24723 RAVENNA AVE	2012-11-08	10:04	Front	16		3.9	< 29	1.1 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24723SVFD	24723 RAVENNA AVE	2012-11-08	10:04	Front	16		3.9	< 28	0.77 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24723SVH	24723 RAVENNA AVE	2012-11-08	10:23	House	18		3.1	< 28	< 0.59	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	0.21	< 15
R24723SVB	24723 RAVENNA AVE	2012-11-08	10:40	Back	18		3	< 28	< 0.59	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24723SVH	24723 RAVENNA AVE	2013-04-23	10:15	House	19		2.3	32	< 0.56 PF	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	0.24	< 14
R24723SVB	24723 RAVENNA AVE	2013-04-23	10:16	Back	19		1.8	< 27	< 0.56 PF	< 8.6	< 14	65	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
R24723SVF	24723 RAVENNA AVE	2013-04-23	10:58	Front	18		4.2	36	< 0.62 PF	11	< 15	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
N24725SVB	24725 NEPTUNE AVE	2009-10-02	09:53	Back	20		0.81	17	< 3	24	3.6	8.2	< 8.2	< 4.6	< 3.9	< 6	< 0.00024		< 3.8
N24725SVF	24725 NEPTUNE AVE	2009-10-02	10:54	Front	21		0.26	< 12	< 3.1	12	< 3.6	27	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025		< 3.8
N24725SVH	24725 NEPTUNE AVE	2010-06-16	09:14	House	18		1.7	14	< 2.4	< 9.2	< 3.6	< 6	< 8.3	< 4.6	4.3	< 6	< 0.00024	< 0.12	< 3.8
N24725SVB	24725 NEPTUNE AVE	2010-06-16	10:30	Back	21		0.68	13	6 J	14	< 3.4	< 5.7	< 7.9	8.6	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24725SVF	24725 NEPTUNE AVE	2010-06-16	11:18	Front	21		0.11	< 11	< 2.3	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24725SVH	24725 NEPTUNE AVE	2012-06-22	14:51	House	16		3.4	< 19	0.83 J, b	< 6.1 PF	< 9.6	< 4	< 5.5	< 3.1	< 2.6	< 4	< 0.00016	0.087	< 10
N24725SVB	24725 NEPTUNE AVE	2012-06-22	15:21	Back	19		2.7	< 19	0.56 J, b	< 5.9 PF	< 9.2	130	< 5.3	< 3	< 2.5	< 3.9	< 0.00016	< 0.078	< 9.8
N24725SVBD	24725 NEPTUNE AVE	2012-06-22	15:21	Back	19		2.7	< 19	0.43 J, b	< 5.9 PF	< 9.2	130	< 5.3	< 3	< 2.5	< 3.9	< 0.00016	< 0.078	< 9.8
N24725SVF	24725 NEPTUNE AVE	2012-06-22	15:27	Front	21		0.46	< 18	0.47 J, b	< 5.9 PF	< 9.2	10	< 5.3	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.7
M24726SVH	24726 MARBELLA AVE	2010-06-07	09:03	House	17		0.26	58	< 2.3	< 8.8	4.4	64	16	< 4.4	4.4	< 5.8	< 0.00023	< 0.12	< 3.6
M24726SVB	24726 MARBELLA AVE	2010-06-07	10:06	Back	17		0.047	36	< 2.3	< 8.7	3.4 J	6	< 7.8	< 4.3	5.2	< 5.7	< 0.00023	< 0.12	< 3.6
M24726SVF	24726 MARBELLA AVE	2010-08-19	08:52	Front	20		0.83	36	< 1.3	< 8.6	4	34	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	0.14	< 3.6
M24726SVHA	24726 MARBELLA AVE	2012-12-14	15:04	House	20		< 0.022	< 27	3 J, b	< 8.4	< 13	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
M24726SVG	24726 MARBELLA AVE	2012-12-19	11:07	Garage	22		< 0.045	< 54	< 1.1	< 17	< 27	< 11	< 15	< 8.5	< 7.2	< 11	< 0.00045	< 0.23	< 28
R24726SVBA	24726 RAVENNA AVE	2011-03-14	10:13	Back	15		5.3	< 11	< 1.4	< 9	< 14	10	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24726SVBAD	24726 RAVENNA AVE	2011-03-14	10:13	Back	15		5.3	< 11	< 1.4	< 9	< 14	10	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24726SVH	24726 RAVENNA AVE	2011-03-14	11:00	House	20		0.55	13	< 1.3	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24726SVH	24726 RAVENNA AVE	2012-12-20	14:58	House	19		2.1	< 27	1.3 J, b	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
R24726SVG	24726 RAVENNA AVE	2012-12-20	15:01	Garage	20		1.6	53	2.2 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24726SVBA	24726 RAVENNA AVE	2012-12-20	15:33	Back	17		4.5	< 28	1.4 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24728SVG	24728 NEPTUNE AVE	2010-05-14	14:56	Garage	20		1	13	< 6.3	< 9	< 3.5	< 5.8	210	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24728SVH2	24728 NEPTUNE AVE	2010-05-14	15:49	House	17		1.3	390	< 6.4	43	15	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 3.8
N24728SVH	24728 NEPTUNE AVE	2010-05-14	16:37	House	21		0.3	190	< 6.2	120	13	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
N24728SVH2	24728 NEPTUNE AVE	2010-09-21	09:25	House	13		4.6	15	3.4 J, b	< 8.1	3.6	< 5.3	< 7.3	< 4.1	< 3.4	< 5.3	< 0.00022	0.34	3.9
N24728SVH	24728 NEPTUNE AVE	2010-09-21	10:07	House	19		0.62	18	3 J, b	13	5.3	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24728SVG	24728 NEPTUNE AVE	2010-09-21	10:46	Garage	17		2	14	1 J, b	< 8.4	3.4	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
N24728SVGD	24728 NEPTUNE AVE	2010-09-21	10:46	Garage	17		2	11	0.55 J, b	< 8.4	< 3.3	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
N24728SVG	24728 NEPTUNE AVE	2013-05-31	09:54	Garage	19		2.6	51	< 2.7	< 9.3	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
N24728SVGS	24728 NEPTUNE AVE	2013-05-31	09:54	Garage		19.8	2.61	< 20 U	< 0.73 U	< 20 U	< 20 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 0.16 U		< 20 U
N24728SVH	24728 NEPTUNE AVE	2013-05-31	10:23	House	21		0.85	620	< 2.6	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
P24728SVH	24728 PANAMA AVE	2010-11-08	09:17	House	20		0.13	15	3 J, b	51 J	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	0.00027	< 0.12	< 3.8
P24728SVB	24728 PANAMA AVE	2010-11-08	10:09	Back	17		2.8	< 11	0.87 J, b	< 8.9 UJ	< 3.5	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
P24728SVG	24728 PANAMA AVE	2010-11-08	11:20	Garage	21		0.1	< 11	1.4 J, b	< 9.1 UJ	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
P24728SVGS	24728 PANAMA AVE	2010-11-08	11:20	Garage		21.5	< 0.22	23	0.69 J	< 17	< 17	< 1.7	< 1.7	< 1.7	< 1.7	2	< 0.22		< 17
P24728SVG	24728 PANAMA AVE	2012-11-02	10:05	Garage	21		0.61	< 32	2.1 J, b	< 10	< 16	< 6.6	< 9.1	< 5.1	< 4.3	< 6.6	< 0.00027	< 0.13	< 17
P24728SVGD	24728 PANAMA AVE	2012-11-02	10:05	Garage	20		0.6	< 31	1.6 J, b	< 9.7	< 15	< 6.3	< 8.8	< 4.9	< 4.1	< 6.4	< 0.00026	< 0.13	< 16
P24728SVB	24728 PANAMA AVE	2012-11-02	10:20	Back	16		4.1	< 29	0.9 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24728SVB	24728 PANAMA AVE	2013-06-18	15:28	Back	17		4.5	< 27	0.78 J, b	< 8.4	< 13	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
P24728SVH2	24728 PANAMA AVE	2013-06-18	15:32	House	20		0.74	< 28	3.4 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24728SVG	24728 PANAMA AVE	2013-06-18	16:07	Garage	21		0.56	< 32	< 0.9	< 10	< 16	< 6.5	< 9.1	< 5	< 4.3	< 6.6	< 0.00027	< 0.13	< 17
N24729SVB	24729 NEPTUNE AVE	2009-09-18	09:13	Back	16		3.6	100	7.6 J	< 9	8.3	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024		< 3.7
N24729SVF	24729 NEPTUNE AVE	2009-09-18	10:38	Front	20		0.069	100	8.6 J	< 9.9	9	72	< 9	< 5	< 4.2	< 6.5	< 0.00026		38
N24729SVH	24729 NEPTUNE AVE	2010-07-08	09:11	House	19		1.3	29	< 2.3 Q	< 8.6	6	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
N24729SVF	24729 NEPTUNE AVE	2010-07-08	09:54	Front	20		1.3	< 9.7	< 2 Q	< 7.7	< 3	8.5	< 7	< 3.9	< 3.3	< 5.1	< 0.0002	< 0.1	< 3.2
N24729SVFD	24729 NEPTUNE AVE	2010-07-08	09:54	Front	20		1.3	43	< 2.1 Q	< 7.9	6.3	8.3	< 7.1	< 3.9	< 3.3	< 5.2	< 0.00021	< 0.1	3.9
N24729SVB	24729 NEPTUNE AVE	2010-07-08	10:54	Back	18		3.9	34	< 2.4 Q	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24729SVF	24729 NEPTUNE AVE	2010-08-24	13:35	Front	18		2.6	33	2.6 J, b	22	4	15	< 8.3	< 4.6	5.9	< 6	< 0.00024	< 0.12	< 3.8
N24729SVF	24729 NEPTUNE AVE	2012-10-19	14:30	Front	20		1.6	< 24	1.1 J, b	< 7.7	< 12	9	< 7	< 3.9	< 3.3	< 5.1	< 0.0002	< 0.1	< 13
N24729SVB	24729 NEPTUNE AVE	2012-10-19	14:56	Back	17		4.3	< 28	< 0.58 PF	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24729SVH	24729 NEPTUNE AVE	2012-10-19	15:20	House	18		2.5	30	3.4 J, b	< 9.5	< 15	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16
R24729SVB	24729 RAVENNA AVE	2010-07-14	13:57	Back	17		0.91	41	< 2.5	40	4.2	7.4	< 8.6	< 4.8	7.2	< 6.2	< 0.00025	< 0.13	< 3.9
R24729SVH	24729 RAVENNA AVE	2010-07-14	14:44	House	17		2.9	87	< 2.4	20	4	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	11

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
R24729SVF	24729 RAVENNA AVE	2010-07-14	15:25	Front	18		2	25	< 2.4	< 9	< 3.5	7.2	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
R24729SVH	24729 RAVENNA AVE	2012-08-24	14:48	House	17		3.4	30	0.84 J, b	14	< 14	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
R24729SVF	24729 RAVENNA AVE	2012-08-24	14:49	Front	18		3.6	< 27	1.1 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
R24729SVB	24729 RAVENNA AVE	2012-08-24	15:18	Back	18		3.1	35	1.2 J, b	< 9.5	< 15	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16
R24729SVB	24729 RAVENNA AVE	2013-06-20	15:29	Back	17		3.8	32	< 0.87	< 9.7	< 15	< 6.3	< 8.7	< 4.8	< 4.1	< 6.4	< 0.00026	< 0.13	< 16
R24729SVH	24729 RAVENNA AVE	2013-06-20	15:31	House	17		3.4	30	< 0.79	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00022	< 0.11	< 14
R24729SVF	24729 RAVENNA AVE	2013-06-20	16:01	Front	18		4.5	< 29	< 0.84	< 9.3	< 15	< 6	< 8.4	< 4.7	< 4	< 6.1	< 0.00025	< 0.12	< 15
M24732SVF	24732 MARBELLA AVE	2010-07-01	09:40	Front	19		0.43	30	< 2.4	10	9	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
M24732SVB	24732 MARBELLA AVE	2010-07-01	10:19	Back	18		0.69	25	< 2.4	10	3.6	11	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
M24732SVH	24732 MARBELLA AVE	2013-01-11	09:47	House	19		1.4	< 28	1 J, b	< 8.8	< 14	< 5.7	< 8	14 b	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
M24732SVB	24732 MARBELLA AVE	2013-01-11	10:12	Back	20		0.84	< 29	2.2 J, b	38 j	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
M24732SVBD	24732 MARBELLA AVE	2013-01-11	10:12	Back	20		0.84	< 29	3.7 J, b	9.2 j	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
M24732SVF	24732 MARBELLA AVE	2013-01-11	10:16	Front	21		0.71	< 27	1.3 J, b	< 8.6	< 13	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
M24732SVH	24732 MARBELLA AVE	2013-05-23	10:13	House	19		1.5	< 28	2.1 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
M24732SVB	24732 MARBELLA AVE	2013-05-23	10:14	Back	19		1.9	170 j	1.2 J, b	< 8.9	< 14	< 5.8	< 8	6.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
M24732SVBD	24732 MARBELLA AVE	2013-05-23	10:14	Back	19		1.9	43 j	0.9 J, b	< 8.7	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
M24732SVF	24732 MARBELLA AVE	2013-05-23	10:36	Front	19		2	32	0.96 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
N24732SVH	24732 NEPTUNE AVE	2010-09-20	14:13	House	20		0.58	84	1.7 J, b	< 8.2	13	< 5.3	< 7.4	7.7	< 3.5	< 5.4	0.026	1.3	< 3.4
N24732SVHD	24732 NEPTUNE AVE	2010-09-20	14:13	House	20		0.58	72	1.3 J, b	< 8.2	11	< 5.3	< 7.4	6.7	< 3.5	< 5.4	0.028	1.3	< 3.4
N24732SVB	24732 NEPTUNE AVE	2010-09-20	15:13	Back	12		7.9	12	0.99 J, b	< 8.4	< 3.3	20	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
N24732SVF	24732 NEPTUNE AVE	2010-09-20	16:00	Front	20		0.25	< 31	3.4 J, b	< 24	< 9.6	< 16	< 22	< 12	< 10	< 16	< 0.00024	< 0.12	< 10
N24732SVHA	24732 NEPTUNE AVE	2011-02-18	09:09	House	20		0.59	< 11	< 0.35	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
N24732SVF	24732 NEPTUNE AVE	2011-02-18	09:52	Front	21		0.26	54	< 0.34	10	15	< 5.8	< 8.1	6.8	< 3.8	< 5.9	< 0.00024	< 0.12	4.4
N24732SVFS	24732 NEPTUNE AVE	2011-02-18	09:52	Front		22	0.266	< 17	< 1.3	< 17	< 17	< 1.7	< 1.7	< 1.7	< 1.7	2.4	< 0.16		< 17
N24732SVB	24732 NEPTUNE AVE	2011-02-18	10:42	Back	13		4.7	13	< 0.34	23	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	0.00092	< 0.12	< 3.6
N24732SVBS	24732 NEPTUNE AVE	2011-02-18	10:42	Back		14.1	5.39	< 17	< 1.3	< 17	< 17	2.9	< 1.7	< 1.7	< 1.7	1.9	< 0.16		< 17
N24732SVF	24732 NEPTUNE AVE	2011-03-10	09:56	Front	21		0.21	14	< 0.33 UJ	< 8.6	< 14	< 5.6	< 7.8	15	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
N24732SVFS	24732 NEPTUNE AVE	2011-03-10	09:56	Front		21.9	0.215	< 18	< 1.1	< 18	< 18	< 1.8	< 1.8	< 1.8	< 1.8	2.5	< 0.17		< 18
N24732SVHA	24732 NEPTUNE AVE	2011-03-10	10:38	House	20		1	14	0.67 J, b	< 7.7	< 12	< 5	< 7	< 3.9	< 3.3	< 5.1	< 0.0002	< 0.1	< 13
N24732SVB	24732 NEPTUNE AVE	2011-03-10	11:13	Back	16		3.4	18	< 0.34 UJ	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	0.014	< 0.12	< 15
P24732SVF	24732 PANAMA AVE	2010-04-22	15:11	Front	21		0.16	60	< 2.3	9.4	24	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24732SVB	24732 PANAMA AVE	2010-04-22	17:02	Back	21		0.16	14	< 2.3	12	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	4
P24732SVH	24732 PANAMA AVE	2010-04-23	10:34	House	20		0.31	66	3.9 J, b	11	5.2	< 5.5	< 7.6	< 4.2	14	< 5.5	< 0.00022	< 0.11	< 3.5
P24732SVH	24732 PANAMA AVE	2010-08-31	13:58	House	20		0.46	17	< 1.3	14	4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24732SVB	24732 PANAMA AVE	2010-08-31	14:36	Back	20		0.36	26	< 1.4	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	4.1
P24732SVBD	24732 PANAMA AVE	2010-08-31	14:36	Back	20		0.36	21	17 J, b	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
P24732SVF	24732 PANAMA AVE	2010-08-31	15:16	Front	21		0.19	47	< 1.4	20	6.6	< 6.1	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 3.9
P24732SVH	24732 PANAMA AVE	2012-06-14	14:49	House	20		0.34	< 19	0.35 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
P24732SVF	24732 PANAMA AVE	2012-06-14	15:01	Front	21		0.086	< 18	1.5 J, b	< 5.7	< 9	< 3.7	< 5.2	< 2.9	< 2.4	< 3.8	< 0.00015	0.1	< 9.5
P24732SVFD	24732 PANAMA AVE	2012-06-14	15:01	Front	21		0.081	< 18	0.46 J, b	< 5.7	< 9	< 3.7	< 5.2	< 2.9	< 2.4	< 3.8	< 0.00015	0.1	< 9.5
P24732SVB	24732 PANAMA AVE	2012-06-14	15:27	Back	21		0.22	< 18	0.45 J, b	< 5.8	< 9.1	< 3.8	< 5.2	23	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
R24732SVH	24732 RAVENNA AVE	2010-10-11	09:20	House	18		1.2	15	< 1.3	< 8.6	< 3.4	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
R24732SVG	24732 RAVENNA AVE	2010-10-11	10:23	Garage	9.7		4.8	18	< 1.3	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24732SVGS	24732 RAVENNA AVE	2010-10-11	10:23	Garage		10.6	6.17	21	< 1.3	< 17	< 17	1.8	< 1.7	< 1.7	< 1.7	2	< 0.16		< 17
R24732SVB	24732 RAVENNA AVE	2010-10-11	11:09	Back	18		0.15	38	< 1.3	< 8.8	5.1	180	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24732SVG	24732 RAVENNA AVE	2012-06-22	10:00	Garage	12		7.2	< 19	< 0.32	< 6.1 PF	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
R24732SVB	24732 RAVENNA AVE	2012-06-22	10:11	Back	20		1.1	< 20	< 0.33	< 6.3 PF	< 9.9	< 4.1	< 5.7	< 3.2	< 2.7	< 4.2	< 0.00017	< 0.084	< 10
R24732SVBS	24732 RAVENNA AVE	2012-06-22	10:11	Back		20	1.13	< 18 U	< 0.75 U	< 18 U	< 18 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	2	< 0.17 U		< 18 U
R24732SVH	24732 RAVENNA AVE	2012-06-22	10:33	House	20		1.3	20	< 0.31	< 5.9 PF	< 9.2	< 3.8	< 5.3	< 3	< 2.5	< 3.9	< 0.00016	0.13	< 9.8
M24733SVH	24733 MARBELLA AVE	2010-08-06	09:12	House	20		0.3	100	< 6.4	28	15	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	0.27	< 3.8
M24733SVG	24733 MARBELLA AVE	2010-08-06	09:53	Garage	21		0.21	30	< 6.3	< 9	4.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	20
M24733SVGD	24733 MARBELLA AVE	2010-08-06	09:53	Garage	20		0.21	18	< 6.3	< 9	3.6	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
					Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
					Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
M24733SVB	24733 MARBELLA AVE	2010-08-06	10:38	Back	20		0.21	36	< 6.2	9.9	7.8	< 5.7	38	< 4.4	18	< 5.8	< 0.00023	< 0.12	< 3.6
M24733SVG	24733 MARBELLA AVE	2012-06-08	14:36	Garage	22		0.11	< 19	0.51 J, b	< 6	< 9.3	< 3.8	< 5.4	11 j	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
M24733SVGD	24733 MARBELLA AVE	2012-06-08	14:36	Garage	22		0.12	< 19	0.55 J, b	< 6	< 9.3	< 3.8	< 5.4	3 j	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
M24733SVB	24733 MARBELLA AVE	2012-06-08	15:08	Back	22		0.4	< 19	0.4 J, b	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
M24733SVB	24733 MARBELLA AVE	2013-04-04	14:39	Back	21		0.4	< 25	0.89 J, b	< 8.1	< 13	< 5.2	17	< 4	< 3.4	< 5.3	< 0.00021	< 0.11	< 13
M24733SVHA	24733 MARBELLA AVE	2013-04-04	14:47	House	17		0.23	< 21	0.48 J, b	< 6.6	< 10	< 4.3	< 5.9	< 3.3	< 2.8	< 4.3	< 0.00018	< 0.088	< 11
M24733SVG	24733 MARBELLA AVE	2013-04-04	15:08	Garage	20		0.086	< 22	0.46 J, b	< 7	< 11	< 4.5	< 6.3	< 3.5	3.6	< 4.6	< 0.00018	< 0.092	< 12
P24733SVH	24733 PANAMA AVE	2011-01-27	09:40	House	19		1.5	< 11	2.6 J, b	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24733SVF	24733 PANAMA AVE	2011-01-27	10:20	Front	21		< 0.022	240	2.5 J, b	< 8.4	6.4	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
P24733SVFS	24733 PANAMA AVE	2011-01-27	10:20	Front		21.6	< 0.16	300	< 1.4	< 17	< 17	< 1.7	< 1.7	< 1.7	< 1.7	2.7	< 0.16		< 17
P24733SVB	24733 PANAMA AVE	2011-01-27	11:04	Back	21		0.098	98	1.8 J, b	< 9.2	< 3.6	300	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
P24733SVB	24733 PANAMA AVE	2013-02-21	09:54	Back	20		0.14	< 27	15 J, b	< 8.6	< 14	< 5.6	< 7.8	5 j	18 j	< 5.7	< 0.00023	< 0.11	< 14
P24733SVBS	24733 PANAMA AVE	2013-02-21	09:54	Back		21.8	0.135 K	< 19 U	< 0.79 U	< 19 U	< 19 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 0.15 U		< 19 U
P24733SVH	24733 PANAMA AVE	2013-02-21	10:06	House	18		2	< 29	2.3 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	0.0003	< 0.12	< 15
P24733SVF	24733 PANAMA AVE	2013-02-21	10:36	Front	19		0.63	< 29	1.7 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24733SVH	24733 PANAMA AVE	2013-07-23	09:48	House	18		2.7	70	2.8 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24733SVB	24733 PANAMA AVE	2013-07-23	09:51	Back	21		0.56	< 28	1.6 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24733SVBD	24733 PANAMA AVE	2013-07-23	09:51	Back	20		0.54	28	0.86 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
P24733SVF	24733 PANAMA AVE	2013-07-23	10:10	Front	19		1.8	62	1 J, b	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
R24733SVH	24733 RAVENNA AVE	2010-04-08	13:49	House	19		2.1	20	< 2.3	< 8.6	3.8	< 5.6	15	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
R24733SVF	24733 RAVENNA AVE	2010-04-08	14:57	Front	20		0.19	19	< 2.3	< 8.6	4.6	8.9	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
R24733SVB	24733 RAVENNA AVE	2010-04-08	15:49	Back	19		0.59	24	< 2.3	< 8.8	5.4	< 5.7	23	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24733SVH	24733 RAVENNA AVE	2012-07-27	10:03	House	19		1.9	41	< 3	< 6	< 9.3	< 3.8	6.1	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
R24733SVB	24733 RAVENNA AVE	2012-07-27	10:42	Back	20		1.2	< 19	< 3	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
R24733SVBD	24733 RAVENNA AVE	2012-07-27	10:42	Back	20		1.2	< 19	< 3	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
R24733SVF	24733 RAVENNA AVE	2012-07-27	10:46	Front	20		0.54	22	< 2.9	< 5.8	< 9.1	25	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
N24735SVH	24735 NEPTUNE AVE	2010-11-17	09:23	House	19		1.1	120	1.8 J, b	250	11	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
N24735SVF	24735 NEPTUNE AVE	2010-11-17	10:19	Front	21		0.12	< 11	0.44 J, b	< 8.6	< 3.4	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
N24735SVB	24735 NEPTUNE AVE	2010-11-17	11:03	Back	21		0.14	51	0.44 J, b	< 8.8	6.5	7.9	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24735SVBD	24735 NEPTUNE AVE	2010-11-17	11:03	Back	21		0.13	51	0.41 J, b	< 8.8	7.4	8.2	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24735SVB	24735 NEPTUNE AVE	2012-11-15	10:03	Back	21		0.59	< 27	< 0.57	< 8.7	< 14	8.8	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
N24735SVBD	24735 NEPTUNE AVE	2012-11-15	10:03	Back	21		0.58	< 27	< 0.57	< 8.7	< 14	9.1	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
N24735SVF	24735 NEPTUNE AVE	2012-11-15	10:45	Front	21		0.47	< 28	< 0.59	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
N24735SVH	24735 NEPTUNE AVE	2012-11-20	13:43	House	19		1.2	54	1.7 J, b	55	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
N24735SVB	24735 NEPTUNE AVE	2013-06-11	14:49	Back	20		1.2	47	< 2.6	< 9	< 14	9.9	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
N24735SVH	24735 NEPTUNE AVE	2013-06-11	15:00	House	19		1	53	< 2.5	70	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	0.3	< 14
N24735SVF	24735 NEPTUNE AVE	2013-06-11	15:23	Front	21		0.65	< 28	< 2.6	< 9	< 14	11	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24736SVH	24736 RAVENNA AVE	2010-04-28	14:11	House	19		1.4	16	< 2.4	26	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
R24736SVF	24736 RAVENNA AVE	2010-04-28	15:04	Front	20		0.14	17	< 2.4	14	< 3.6	< 5.9	< 8.2	< 4.6	4.7	< 6	< 0.00024	< 0.12	26
R24736SVFS	24736 RAVENNA AVE	2010-04-28	15:04	Front		21.7	< 0.16	36	0.56 J	24	< 18	1.8	< 1.8	< 1.8	2.8	2.3	< 0.16		< 18
R24736SVB	24736 RAVENNA AVE	2010-04-28	15:50	Back	21		0.26	20	< 2.3	13	< 3.4	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	5.1
R24736SVB	24736 RAVENNA AVE	2013-06-04	14:50	Back	20		0.59	< 28	< 2.6	< 8.9	< 14	6.4	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24736SVH	24736 RAVENNA AVE	2013-06-04	14:59	House	18		2.1	43	< 2.5	< 8.7	< 14	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
R24736SVF	24736 RAVENNA AVE	2013-06-04	15:18	Front	21		0.58	31	< 2.8	< 9.5	< 15	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16
M24737SVB	24737 MARBELLA AVE	2010-04-30	09:18	Back	21		0.3	32	< 6.3	38	18	< 5.8	30	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24737SVF	24737 MARBELLA AVE	2010-04-30	10:04	Front	20		0.51	36	< 6.3	38	9.4	< 5.8	46	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
M24737SVH	24737 MARBELLA AVE	2010-04-30	11:03	House	20		1.1	49	< 6.2	16	3.7	< 5.7	45	< 4.4	9.1	< 5.8	0.00028	< 0.12	4.1
M24737SVH	24737 MARBELLA AVE	2010-09-03	09:56	House	19		1.2	55	< 1.4	14	3.4	< 5.6	51	< 4.3	< 3.6	< 5.7	0.0004	< 0.11	4.4
M24737SVHS	24737 MARBELLA AVE	2010-09-03	09:56	House		20.4	1.44	18	< 1.3	< 17	< 17	< 1.7	45	< 1.7	< 1.7	2.1	< 0.15		< 17
M24737SVF	24737 MARBELLA AVE	2010-09-03	10:37	Front	19		1.6	20	< 1.4	< 8.8	< 3.4	< 5.7	44	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24737SVB	24737 MARBELLA AVE	2010-09-03	12:02	Back	20		0.69	25	< 2.9	24	< 7.1	< 12	41	< 9.1	< 7.7	< 12	< 0.00024	< 0.12	< 7.5
M24737SVB	24737 MARBELLA AVE	2012-12-07	15:05	Back	19		1.6	29	1.2 J, b	< 9.1	< 14	< 5.9	33	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
M24737SVH	24737 MARBELLA AVE	2012-12-07	15:12	House	19		1.2	< 28	1 J, b	< 9	< 14	< 5.8	26	4.6	< 3.8	< 5.9	0.00076	< 0.12	< 15
M24737SVF	24737 MARBELLA AVE	2012-12-07	15:42	Front	18		1.4	< 28	0.63 J, b	< 8.8	< 14	< 5.7	18	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
M24737SVB	24737 MARBELLA AVE	2013-05-24	09:56	Back	21		0.61	32 j	< 2.5	< 8.6 PF	< 14	< 5.6	21	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
M24737SVBD	24737 MARBELLA AVE	2013-05-24	09:56	Back	21		0.6	120 j	< 2.5	< 8.7 PF	< 14	< 5.6	21	17 j	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
M24737SVH	24737 MARBELLA AVE	2013-05-24	09:56	House	20		1.5	< 28	2.9 J, b	< 8.7 PF	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	0.00043	< 0.12	< 14
M24737SVF	24737 MARBELLA AVE	2013-05-24	10:24	Front	21		1.2	< 28	< 2.5	< 8.8 PF	< 14	< 5.7	20	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24738SVB	24738 NEPTUNE AVE	2009-09-23	09:00	Back	19		1.6	< 11	20 J	< 8.7	< 3.4	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023		< 3.6
N24738SVF	24738 NEPTUNE AVE	2009-09-23	09:45	Front	17		3	14	3.3 J	< 8.8	< 3.5	15	< 8	< 4.4	5.8	< 5.8	< 0.00024		< 3.6
N24738SVH	24738 NEPTUNE AVE	2012-02-23	10:03	House	21		0.61	32	1.3 J, b	< 7.9	< 12	< 5.1	7.5	< 4	3.4	< 5.2	0.0004	< 0.074	< 13
N24738SVF	24738 NEPTUNE AVE	2012-02-23	10:33	Front	20		0.72	66	2 J, b	19	< 13	< 5.4	< 7.6	10	< 3.6	< 5.5	0.00024	< 0.078	< 14
N24738SVFD	24738 NEPTUNE AVE	2012-02-23	10:33	Front	20		0.68	21	0.95 J, b	14	< 13	< 5.3	< 7.4	9.4	< 3.5	< 5.4	0.00025	< 0.078	< 14
N24738SVF	24738 NEPTUNE AVE	2013-08-28	15:10	Front	19		2.8	< 30	0.76 J, b	< 9.5 PF	< 15	34	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16
N24738SVFD	24738 NEPTUNE AVE	2013-08-28	15:10	Front	19		2.8	< 30	0.64 J, b	< 9.4 PF	< 15	34	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 16
N24738SVB	24738 NEPTUNE AVE	2013-08-28	15:44	Back	18		3.3	< 29	0.6 J, b	< 9.1 PF	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24738SVH	24738 PANAMA AVE	2010-09-07	13:44	House	12		6.4	42	< 1.4	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24738SVHD	24738 PANAMA AVE	2010-09-07	13:44	House	12		6.4	21	< 1.4	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24738SVB	24738 PANAMA AVE	2010-09-07	14:25	Back	19		0.21	32	< 1.4	< 8.6	< 3.4	7.5	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
P24738SVF	24738 PANAMA AVE	2010-09-07	15:03	Front	19		0.35	24	< 1.4	11	< 3.5	< 5.8	< 8.1	4.4 J	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
P24738SVH	24738 PANAMA AVE	2012-09-07	14:53	House	11		7.6	120	14 J, b	14	< 14	< 5.6	< 7.8	< 4.3	12	< 5.7	0.006	< 0.11	< 14
P24738SVF	24738 PANAMA AVE	2012-09-07	15:37	Front	20		0.73	68	0.56 J, b	11	17	< 5.3	< 7.3	< 4.1	< 3.4	< 5.3	< 0.00022	< 0.11	< 13
P24738SVB	24738 PANAMA AVE	2012-09-07	15:55	Back	19		2.4	38	< 0.6	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24738SVH	24738 PANAMA AVE	2013-06-11	09:41	House	14		6	< 28	3.9 J, b	< 8.7	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
P24738SVB	24738 PANAMA AVE	2013-06-11	09:46	Back	19		2	36	3.6 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24738SVBS	24738 PANAMA AVE	2013-06-11	09:46	Back		19.7	2.04	48	< 1.1 U	< 30 U	< 30 U	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	< 0.17 U		< 30 U
P24738SVF	24738 PANAMA AVE	2013-06-11	10:19	Front	21		0.54	< 28	< 2.6	< 9	< 14	< 5.8	< 8.1	5 j	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24738SVFS	24738 PANAMA AVE	2013-06-11	10:19	Front		21.2	0.542	< 21 U	< 0.75 U	< 21 U	< 21 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.17 U		< 21 U
N24739SVH	24739 NEPTUNE AVE	2010-10-12	09:45	House	19		0.9	25	< 1.2	< 7.6	< 3	< 4.9	< 6.8	< 3.8	< 3.2	< 5	< 0.0002	< 0.1	< 3.1
N24739SVF	24739 NEPTUNE AVE	2010-10-12	11:48	Front	19		0.94	17	< 1.3	< 8.8	< 3.4	7.8	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24739SVG	24739 NEPTUNE AVE	2011-11-11	12:08	Garage	10		5.9	< 7.2	0.39 J	< 5.7	< 9	< 3.7	< 5.2	< 2.9	< 2.4	< 3.8	< 0.00015	< 0.076	< 9.5
N24739SVH	24739 NEPTUNE AVE	2011-11-11	12:45	House	20		0.93	19	0.31 J	< 5.7	< 9	< 3.7	< 5.2	< 2.9	< 2.4	< 3.8	< 0.00015	< 0.076	< 9.5
N24739SVF	24739 NEPTUNE AVE	2011-11-11	13:30	Front	21		0.74	< 7.4	< 0.28	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
N24739SVFD	24739 NEPTUNE AVE	2011-11-11	13:30	Front	21		0.74	8.2	4.7 J	< 5.8	< 9.1	< 3.8	< 5.2	13 j	3.9	< 3.8	< 0.00016	< 0.078	< 9.6
N24739SVH	24739 NEPTUNE AVE	2012-09-21	10:05	House	18		0.87	< 28	1.1 J, b	< 9	< 14	9.6	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00025	< 0.13	< 15
N24739SVG	24739 NEPTUNE AVE	2012-09-21	10:10	Garage	7.9		7.9	< 28	1.2 J, b	17	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
N24739SVGS	24739 NEPTUNE AVE	2012-09-21	10:10	Garage		8.19	7.96	< 19 U	< 0.78 U	< 19 U	< 19 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	3	< 0.15 U		< 19 U
N24739SVG	24739 NEPTUNE AVE	2013-04-30	10:10	Garage	13		5.3	< 28	3.8 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
N24739SVGD	24739 NEPTUNE AVE	2013-04-30	10:10	Garage	13		5.4	< 28	2.7 J, b	< 8.7	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
N24739SVH	24739 NEPTUNE AVE	2013-04-30	10:51	House	20		0.73	30	2.5 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24739SVH	24739 PANAMA AVE	2011-02-07	13:57	House	21		0.046	< 11	< 0.34	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24739SVHS	24739 PANAMA AVE	2011-02-07	13:57	House		21.9	< 0.16	< 17	< 1.4	< 17	< 17	< 1.7	< 1.7	< 1.7	< 1.7	2.4	< 0.16		< 17
P24739SVB	24739 PANAMA AVE	2011-02-07	14:43	Back	17		2.8										< 0.00025	< 0.13	
P24739SVF	24739 PANAMA AVE	2011-02-07	14:43	Front	21		0.08	18	< 0.34	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24739SVB	24739 PANAMA AVE	2011-02-07	15:15	Back				< 12	0.71 J, b	< 9.5	< 3.7	< 6.2	< 8.5	< 4.7	< 4	< 6.2			7
P24739SVB	24739 PANAMA AVE	2012-10-26	10:02	Back	16		3.2	< 27	0.91 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
P24739SVBD	24739 PANAMA AVE	2012-10-26	10:02	Back	16		3	< 26	< 0.54	< 8.3	< 13	< 5.4	< 7.5	8.5 j	< 3.5	< 5.5	< 0.00022	< 0.11	< 14
P24739SVH	24739 PANAMA AVE	2012-10-26	10:30	House	20		0.42	< 26	< 0.54	< 8.3	< 13	< 5.4	< 7.5	26	< 3.5	< 5.5	< 0.00022	< 0.11	< 14
P24739SVF	24739 PANAMA AVE	2012-10-26	10:33	Front	20		0.088	< 28	< 0.59	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24739SVF	24739 PANAMA AVE	2013-06-13	14:50	Front	22		0.088	< 29	< 2.6	< 9.1	< 14	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 15
P24739SVH	24739 PANAMA AVE	2013-06-13	14:59	House	21		0.41	< 30	< 2.8	< 9.5	< 15	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16
P24739SVB	24739 PANAMA AVE	2013-06-13	15:21	Back	16		5.6	< 29	< 2.7	< 9.2	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24739SVH	24739 RAVENNA AVE	2010-10-13	09:06	House	17		2	20	< 1.3	< 8.8	< 3.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
R24739SVB	24739 RAVENNA AVE	2010-10-13	09:42	Back	21		0.2	< 11	< 1.4	< 8.9	5.3	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
R24739SVF	24739 RAVENNA AVE	2010-10-13	10:14	Front	18		1.2	25	< 1.3	< 8.8	3.4	6.5	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24739SVFD	24739 RAVENNA AVE	2010-10-13	10:14	Front	18		1.2	35	2.2 J	< 8.8	4.7	6.4	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24739SVF	24739 RAVENNA AVE	2011-03-03	09:57	Front	20		0.8	< 11	5.2 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24739SVH	24739 RAVENNA AVE	2011-03-03	10:35	House	20		1.6	< 11	4.3 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24739SVB	24739 RAVENNA AVE	2011-03-03	11:10	Back	22		0.14	64	5 J, b	< 8.8	20	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24739SVB D	24739 RAVENNA AVE	2011-03-03	11:10	Back	21		0.13	24	2.2 J, b	< 8.8	6.3 J	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	3.7 J
R24739SVB	24739 RAVENNA AVE	2013-07-03	14:39	Back	22		0.49	< 28	0.85 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24739SVH	24739 RAVENNA AVE	2013-07-03	14:54	House	18		2.6	< 30	< 0.84	< 9.4	< 15	< 6.1	< 8.5	< 4.7	< 4	7.3	< 0.00025	< 0.12	< 16
R24739SVF	24739 RAVENNA AVE	2013-07-03	15:09	Front	16		5	29	< 0.83	< 9.2	< 14	6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
M24741SVH	24741 MARBELLA AVE	2010-05-28	09:20	House	19		0.93	620	< 4	24	7.7	< 5.7	950	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
M24741SVB	24741 MARBELLA AVE	2010-05-28	10:01	Back	20		0.38	26	< 4.2	< 9.1	3.8	< 5.9	52	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 3.8
M24741SVF	24741 MARBELLA AVE	2010-05-28	10:37	Front	18		1.8	36	< 4.2	< 9.1	6	< 5.9	< 8.2	< 4.6	6.9	< 6	< 0.00024	< 0.12	< 3.8
M24741SVF	24741 MARBELLA AVE	2012-06-15	09:59	Front	18		3.8	< 18	0.35 J, b	< 5.7	< 8.9	< 3.7	6.6 PE, j	< 2.8	< 2.4	< 3.7	< 0.00015	< 0.076	< 9.4
M24741SVFS	24741 MARBELLA AVE	2012-06-15	09:59	Front		17.6	3.86	< 17 U	< 0.7 U	< 17 U	< 17 U	2.3	2.6	< 1.7 U	< 1.7 U	2.1	< 0.15 U		< 17 U
M24741SVB	24741 MARBELLA AVE	2012-06-15	10:08	Back	20		1.2	< 18	0.36 J, b	< 5.8	< 9.1	38	65 PE, j	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
M24741SVBS	24741 MARBELLA AVE	2012-06-15	10:08	Back		20.5	1.24	< 17 U	< 0.72 U	< 17 U	< 17 U	33	42	< 1.7 U	< 1.7 U	2.1	< 0.16 U		< 17 U
M24741SVHA	24741 MARBELLA AVE	2012-06-22	12:08	House	19		0.96	< 18	< 0.3	< 5.7 PF	< 9	< 3.7	760	< 2.9	< 2.4	< 3.8	< 0.00015	0.095	< 9.5
R24743SVH	24743 RAVENNA AVE	2010-10-25	13:41	House	15		4.5	< 11	< 1.4	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
R24743SVG	24743 RAVENNA AVE	2010-10-25	14:14	Garage	17		3.8	11	< 1.3	< 8.5	< 3.3	< 5.5	< 7.7	< 4.2	< 3.6	< 5.6	< 0.00023	< 0.11	< 3.5
R24743SVB	24743 RAVENNA AVE	2010-10-25	14:51	Back	20		0.4	16	< 1.3	13	< 3.4	13	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
R24743SVB	24743 RAVENNA AVE	2013-02-14	15:08	Back	22		0.23	< 28	2.2 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00045	< 0.23	< 14
R24743SVH	24743 RAVENNA AVE	2013-02-14	15:09	House	20		2.1	< 29	2.5 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24743SVG	24743 RAVENNA AVE	2013-02-14	15:43	Garage	21		0.73	< 28	1.2 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
R24743SVB	24743 RAVENNA AVE	2013-07-10	14:40	Back	21		0.92	29	2.2 J, b	< 8.9	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
R24743SVG	24743 RAVENNA AVE	2013-07-10	14:50	Garage	20		2.1	< 29	5.1 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24743SVH	24743 RAVENNA AVE	2013-07-10	15:32	House	19		2.4	36	1.4 J, b	< 9.4	< 15	< 6.1	< 8.4	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 16
M24744SVF	24744 MARBELLA AVE	2010-04-23	15:07	Front	21		0.21	23	40 b	< 8.6	4.7	< 5.6	59	< 4.3	< 3.6	< 5.7	< 0.00023	0.27	4.5
M24744SVB	24744 MARBELLA AVE	2010-04-23	16:04	Back	20		0.18	20	< 2.4	11	3.9	< 5.9	36	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
M24744SVH	24744 MARBELLA AVE	2010-04-23	17:13	House	20		1.1	75	5.1 J, b	94	8.8	< 5.6	77	< 4.3	5.7	< 5.7	< 0.00023	< 0.11	< 3.6
M24744SVH	24744 MARBELLA AVE	2010-08-02	09:39	House	19		1.4	32	< 6.2	15	5	< 5.7	74	< 4.4	< 3.7	< 5.8	0.00029	< 0.12	< 3.6
M24744SVG	24744 MARBELLA AVE	2010-08-17	08:50	Garage	14		5.1	43	< 6.2	10	< 3.4	< 5.7	36	< 4.4	17	< 5.8	< 0.00023	< 0.12	< 3.6
M24744 SVH	24744 MARBELLA AVE	2011-02-09	09:26	House	20		1.2	< 11	2.7 J, b	< 9	< 3.5	< 5.8	82	< 4.5	< 3.8	< 5.9	0.00028	< 0.12	< 3.7
M24744 SVG	24744 MARBELLA AVE	2011-02-09	10:02	Garage	17		4	32	1.4 J, b	< 8.5	3.5	< 5.5	18	< 4.2	< 3.6	< 5.6	< 0.00023	< 0.11	< 3.5
M24744 SVB	24744 MARBELLA AVE	2011-02-09	10:52	Back	21		0.3	< 11	1.2 J, b	< 8.6	< 3.4	< 5.6	39	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 3.6
M24744 SVB D	24744 MARBELLA AVE	2011-02-09	10:52	Back	21		0.3	16	2 J, b	< 8.6	< 3.4	< 5.6	36	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 3.6
M24744 SVH	24744 MARBELLA AVE	2012-03-15	15:26	House	21		1.2	< 45	0.88 J, b	48	< 22	< 9.2	58	< 7.1	< 6	< 9.3	< 0.00021	< 0.1	< 23
M24744 SVG	24744 MARBELLA AVE	2012-03-15	15:30	Garage	16		4.9	20	0.58 J, b	< 6	< 9.3	< 3.8	19	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
M24744 SVB	24744 MARBELLA AVE	2012-03-15	16:11	Back	20		0.9	< 20	< 0.33	< 6.3	< 9.9	< 4.1	46	< 3.2	< 2.7	< 4.2	< 0.00017	< 0.084	< 10
M24744 SVBD	24744 MARBELLA AVE	2012-03-15	16:11	Back	20		0.88	22	0.47 J, b	< 6.3	< 9.9	< 4.1	41	< 3.2	3.8	< 4.2	< 0.00017	< 0.084	< 10
R24748SVH	24748 RAVENNA AVE	2010-07-15	09:41	House	18		0.59	170	< 2.4 Q	21	26	70	< 8.2	< 4.5	22	< 6	< 0.00024	< 0.12	< 3.8
R24748SVF	24748 RAVENNA AVE	2010-07-15	10:32	Front	20		< 0.024	56	< 2.3 Q	< 8.8	8.5	210	< 8	< 4.4	4.6	< 5.8	< 0.00024	< 0.12	< 3.6
R24748SVB	24748 RAVENNA AVE	2010-07-15	11:13	Back	18		2.5	35	< 2.4 Q	10	< 3.6	58	< 8.2	< 4.6	12	< 6	< 0.00024	< 0.12	< 3.8
R24748SVF	24748 RAVENNA AVE	2012-09-14	10:13	Front	20		1.2	< 29	2.3 J, b	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
R24748SVFS	24748 RAVENNA AVE	2012-09-14	10:13	Front		20.1	1.27	< 21 U	< 0.88 U	< 21 U	< 21 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.17 U		< 21 U
R24748SVB	24748 RAVENNA AVE	2012-09-14	10:33	Back	17		3.3	< 33	2.3 J, b	14	< 16	< 6.7	< 9.4	< 5.2	< 4.4	< 6.8	< 0.00028	< 0.14	< 17
R24748SVH	24748 RAVENNA AVE	2012-09-14	11:03	House	17		2.4	< 29	3.6 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24748SVH	24748 RAVENNA AVE	2013-04-16	09:50	House	21		1	< 27	0.93 J, b	9.5	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
R24748SVF	24748 RAVENNA AVE	2013-04-16	10:02	Front	21		0.61	< 29	0.83 J, b	< 9.2	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
R24748SVF D	24748 RAVENNA AVE	2013-04-16	10:02	Front	21		0.6	82	0.88 J, b	< 9	32	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24748SVB	24748 RAVENNA AVE	2013-04-16	10:22	Back	20		1.8	< 25	0.84 J, b	8.2	< 12	< 5.2	< 7.2	< 4	< 3.4	< 5.2	0.00034	< 0.11	< 13
R24749SVH	24749 RAVENNA AVE	2010-09-10	09:09	House	6		12	75	6.6 J, b	23	11	< 5.6	< 7.8	9.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
R24749SVB	24749 RAVENNA AVE	2010-09-10	09:45	Back	11		9.3	31	2 J, b	14	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
R24749SVBD	24749 RAVENNA AVE	2010-09-10	09:45	Back	11		9.2	37	1.8 J, b	< 9	4	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
R24749SVG	24749 RAVENNA AVE	2010-09-10	10:25	Garage	2		14	< 280	< 64	< 220	< 88	< 140	< 200	< 110	1000	< 150	0.12	< 0.12	< 93
R24749SVH	24749 RAVENNA AVE	2010-12-17	12:14	House	7.2		11	17	2.5 J, b	< 8.4	< 3.3	< 5.5	< 7.6	< 4.2	8.2	< 5.5	< 0.00022	< 0.11	< 3.5
R24749SVHS	24749 RAVENNA AVE	2010-12-17	12:14	House		8.04	11.8	< 16	< 1.3	< 16	< 16	< 1.6	< 1.6	< 1.6	< 1.6	2.3	< 0.15		< 16
R24749SVG	24749 RAVENNA AVE	2010-12-17	12:37	Garage	2.4		12	< 56	< 6.7	< 44	< 17	< 29	< 40	26	420	< 29	0.063	< 0.12	< 18
R24749SVB	24749 RAVENNA AVE	2010-12-17	13:05	Back	12		7.8	< 11	2.4 J, b	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24749SVB	24749 RAVENNA AVE	2013-08-06	10:00	Back	13		6.7	30	0.94 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24749SVBD	24749 RAVENNA AVE	2013-08-06	10:00	Back	14		7.1	< 28	1 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24749SVH	24749 RAVENNA AVE	2013-08-06	10:02	House	7.4		12	< 28	1.2 J, b	< 9	< 14	58	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
R24749SVG	24749 RAVENNA AVE	2013-08-06	10:29	Garage	2.4		17	100	1.1 J, b	< 8.4	< 13	< 5.5	< 7.6	< 4.2	31	< 5.5	0.075	< 0.11	< 14
R24752SVF	24752 RAVENNA AVE	2010-04-09	11:14	Front	13		6	12	< 2.3	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
R24752SVB	24752 RAVENNA AVE	2010-04-09	12:34	Back	20		0.38	22	< 2.4	16 J	< 3.5	7	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
R24752SVH2	24752 RAVENNA AVE	2010-05-21	13:38	House	19		1.7	56	< 4.1	< 15	19	< 10	< 14	< 7.7	< 6.5	< 10	< 0.00023	< 0.12	< 6.4
R24752SVH2	24752 RAVENNA AVE	2012-07-20	15:01	House	17		3	35	< 3 PF	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
R24752SVF	24752 RAVENNA AVE	2012-07-20	15:08	Front	10		9.7	24	< 2.9 PF	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
R24752SVB	24752 RAVENNA AVE	2012-07-20	15:45	Back	19		2	34	< 3 PF	< 6	< 9.3	7.7	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
N24803SVG	24803 NEPTUNE AVE	2010-09-07	14:58	Garage	18		2	21	< 1.4	12	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24803SVB	24803 NEPTUNE AVE	2010-09-07	15:46	Back	20		< 0.025	12	< 1.5	< 9.3	< 3.6	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 3.8
N24803SVBD	24803 NEPTUNE AVE	2010-09-07	15:46	Back	20		< 0.024	13	< 1.5	10	5.4	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
N24803SVHA	24803 NEPTUNE AVE	2011-03-31	14:15	House	20		0.27	< 12	0.43 J, b	< 9.9	< 16	< 6.4	< 9	< 5	< 4.2	< 6.5	< 0.00026	0.35	< 16
N24803SVG	24803 NEPTUNE AVE	2011-03-31	14:59	Garage	18		1.5	< 11	< 25 UJ	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
N24803SVB	24803 NEPTUNE AVE	2011-03-31	15:33	Back	20		0.097	18	< 27 UJ	< 9.7	< 15	< 6.3	< 8.8	< 4.9	< 4.1	< 6.4	< 0.00026	< 0.13	< 16
N24803SVBD	24803 NEPTUNE AVE	2011-03-31	15:33	Back	20		0.092	20	1 J, b	< 9.7	< 15	< 6.3	< 8.8	6.2	< 4.1	< 6.4	< 0.00026	< 0.13	< 16
N24803SVHB	24803 NEPTUNE AVE	2013-02-01	14:38	House	21		0.52	66	1.9 J, b	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
N24803SVB	24803 NEPTUNE AVE	2013-02-01	14:47	Back	22		0.093	< 31	2.2 J, b	< 9.7	< 15	< 6.3	< 8.8	< 4.9	< 4.1	< 6.4	< 0.00026	< 0.13	< 16
N24803SVG	24803 NEPTUNE AVE	2013-02-01	15:18	Garage	20		1.6	< 26	1.3 J, b	< 8.3	< 13	< 5.4	< 7.5	< 4.1	< 3.5	< 5.4	< 0.00022	< 0.11	< 14
N24803SVB	24803 NEPTUNE AVE	2013-07-12	14:58	Back	21		0.19	270	1 J, b	27	< 12	< 5	< 7	68	< 3.3	< 5.1	< 0.00021	< 0.1	< 13
N24803SVG	24803 NEPTUNE AVE	2013-07-12	15:20	Garage	18		2.6	210	3.5 J, b	< 9.2	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
N24803SVHB	24803 NEPTUNE AVE	2013-07-15	11:15	House	20		0.71	63	< 0.82	< 9.2	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	0.16	< 15
P24803SVH	24803 PANAMA AVE	2010-08-09	14:02	House	20		0.3	24	< 6.3	< 9	< 3.5	< 5.8	< 8.1	< 4.5	31	< 5.9	< 0.00024	< 0.12	< 3.7
P24803SVB	24803 PANAMA AVE	2010-08-09	15:14	Back	21		0.076	60	< 6.4	< 9.1	6.5	13	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
P24803SVF	24803 PANAMA AVE	2010-08-09	15:45	Front	20		0.069	33	< 6.2	< 8.8	6.6	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	0.25	< 3.6
P24803SVH	24803 PANAMA AVE	2011-02-18	14:16	House	21		0.59	< 11	0.97 J, b	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24803SVB	24803 PANAMA AVE	2011-02-18	14:28	Back	21		0.16	17	0.8 J, b	< 8.8	< 3.4	23	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24803SVG	24803 PANAMA AVE	2011-02-18	15:05	Garage	20		0.41	16	1.3 J, b	< 9.3	< 3.6	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 3.8
P24803SVG	24803 PANAMA AVE	2013-01-31	14:39	Garage	20		1.2	< 28	1.8 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
P24803SVH	24803 PANAMA AVE	2013-01-31	14:40	House	20		0.66	< 32	1.6 J, b	< 10	< 16	< 6.6	< 9.1	< 5.1	< 4.3	< 6.6	< 0.00027	< 0.13	< 17
P24803SVB	24803 PANAMA AVE	2013-01-31	15:12	Back	21		0.2	< 28	3 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
P24803SVH	24803 PANAMA AVE	2013-08-08	14:45	House	20		0.8	< 28	< 0.81	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24803SVB	24803 PANAMA AVE	2013-08-08	14:48	Back	20		0.38	< 31	< 0.87	< 9.8	< 15	< 6.3	< 8.8	< 4.9	< 4.1	< 6.4	< 0.00026	< 0.13	< 16
P24803SVG	24803 PANAMA AVE	2013-08-08	15:15	Garage	19		2.4	55	< 0.8	< 8.9	< 14	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
N24809SVB	24809 NEPTUNE AVE	2010-10-15	08:57	Back	21		< 0.022	62	< 1.3	< 8.4	4.5	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	16
N24809 SVFS	24809 NEPTUNE AVE	2010-10-15	09:35	Front		20.5	0.786	17	< 1.2	< 16	< 16	< 1.6	< 1.6	< 1.6	< 1.6	2.1	< 0.14		< 16
N24809SVF	24809 NEPTUNE AVE	2010-10-15	09:35	Front	20		0.74	34	< 1.2	12	< 3.2	< 5.4	< 7.5	< 4.1	< 3.5	< 5.4	< 0.00022	< 0.11	< 3.4
N24809SVH	24809 NEPTUNE AVE	2010-10-15	10:42	House	20		1.1	96	< 1.3	18	22	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
N24809SVB	24809 NEPTUNE AVE	2012-07-20	10:05	Back	20		0.25	< 19	< 3 PF	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
N24809SVH	24809 NEPTUNE AVE	2012-07-20	10:15	House	19		1.3	89	< 3 PF	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
N24809SVF	24809 NEPTUNE AVE	2012-07-20	10:52	Front	18		3.1	< 19	< 3 PF	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
P24809SVF	24809 PANAMA AVE	2009-10-15	13:49	Front	21		0.089	80	< 2.4	9.2	7.3	< 5.8	< 8.1	< 4.5	6.4	< 5.9	< 0.00024		< 3.7
P24809SVH	24809 PANAMA AVE	2009-10-15	15:07	House	21		0.63	19	2.6 J	< 9	5	< 5.8	< 8.1	< 4.5	< 3.8	8.2	< 0.00024		< 3.7
P24809SVHS	24809 PANAMA AVE	2009-10-15	15:07	House		21.1	0.623	18 J	2.5	14 J	4.1	< 2.1	7	< 2.1	0.6 J	4	< 0.12		0.69 J
P24809SVB	24809 PANAMA AVE	2009-10-15	16:08	Back	21		0.14	130	< 2.5	< 9.1	< 3.6	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024		< 3.8

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
P24809SVBD	24809 PANAMA AVE	2009-10-15	16:08	Back	20		0.14	170	< 2.4	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024		< 3.7
P24809SVB	24809 PANAMA AVE	2010-07-28	10:19	Back	20		0.66	26	< 6.2	13	< 3.4	< 5.7	< 7.9	< 4.4	7.8	< 5.8	< 0.00023	< 0.12	< 3.6
P24809SVF	24809 PANAMA AVE	2010-07-28	11:02	Front	20		0.33	46	< 6.6	11	< 3.6	< 6	< 8.4	< 4.7	17	< 6.1	< 0.00025	< 0.12	< 3.9
P24809SVH	24809 PANAMA AVE	2011-02-08	09:21	House	20		0.32	14	< 0.35	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	0.21	12
P24809SVHA	24809 PANAMA AVE	2012-03-23	10:28	House	21		0.063	20	1.4 J, b	< 6	< 9.3	6.3	< 5.4	< 3	< 2.5	4.4	< 0.00016	0.14	< 9.8
P24809SVF	24809 PANAMA AVE	2012-03-23	11:04	Front	21		0.22	< 19	2.9 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
P24809SVB	24809 PANAMA AVE	2012-03-23	11:12	Back	21		0.4	< 18	0.85 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	0.14	< 9.6
P24809SVBS	24809 PANAMA AVE	2012-03-23	11:12	Back		21	0.407	< 17 U	< 0.98 U	< 17 U	< 17 U	2.5	< 1.7 U	< 1.7 U	< 1.7 U	1.9	< 0.15 U		< 17 U
P24812SVH	24812 PANAMA AVE	2010-05-05	08:54	House	20		0.91	57	< 6.4	< 9.1	8	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
P24812SVB	24812 PANAMA AVE	2010-05-05	10:21	Back	20		0.34	26	< 6.3	< 8.9	4.2	7.6	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
P24812SVBD	24812 PANAMA AVE	2010-05-05	10:21	Back	20		0.34	46	< 6.3	13	< 3.5	8.3	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
P24812SVF	24812 PANAMA AVE	2010-05-05	11:08	Front	21		< 0.023	42	< 6.2	< 8.8	13	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24812SVH	24812 PANAMA AVE	2012-12-06	15:07	House	20		1	< 28	1.9 J, b	12	< 14	< 5.8	< 8.1	30	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24812SVB	24812 PANAMA AVE	2012-12-06	15:08	Back	19		2	32	1.1 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24812SVF	24812 PANAMA AVE	2012-12-06	15:39	Front	21		0.37	61	1.1 J, b	< 9.5	< 15	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16
P24812SVB	24812 PANAMA AVE	2013-05-01	14:58	Back	21		1.2	< 28	1 J, b	< 8.7	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
P24812SVH	24812 PANAMA AVE	2013-05-01	15:14	House	21		0.82	32	0.83 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
P24812SVF	24812 PANAMA AVE	2013-05-01	15:34	Front	21		0.24	31	0.91 J, b	< 9.2	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24813SVH	24813 PANAMA AVE	2010-10-26	09:15	House	20		1.1	26	< 1.3	< 8.6	< 3.4	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	4
P24813SVB	24813 PANAMA AVE	2010-10-26	10:54	Back	21		0.16	< 11	< 1.4	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
P24813SVFA	24813 PANAMA AVE	2010-11-23	10:00	Front	20		0.27	19	4.6 J, b	< 8.8	< 3.4	200	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24813SVFAS	24813 PANAMA AVE	2010-11-23	10:00	Front		20	0.3	18	3.8	< 17	< 17	240	1.9	< 1.7	< 1.7	3	< 0.15		< 17
P24813SVH	24813 PANAMA AVE	2012-08-23	10:00	House	18		2.4	31	0.76 J, b	13	< 14	170	< 8.4	< 4.6	< 3.9	< 6.1	0.0049	< 0.12	< 15
P24813SVFA	24813 PANAMA AVE	2012-08-23	10:06	Front	16		3.4	33	1 J, b	< 9.1	< 14	140	< 8.2	< 4.6	< 3.9	< 6	0.00028	< 0.12	< 15
P24813SVFAD	24813 PANAMA AVE	2012-08-23	10:06	Front	16		3.4	< 29	1.3 J, b	< 9.1	< 14	140	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24813SVB	24813 PANAMA AVE	2012-08-23	10:28	Back	21		0.17	< 28	0.73 J, b	< 8.8	< 14	18	< 7.9	< 4.4	< 3.7	< 5.8	0.0014	< 0.12	< 14
P24813SVB	24813 PANAMA AVE	2013-06-04	10:00	Back	19		1.6	80 j	< 2.5	< 8.7	< 14	1000	< 7.8	< 4.4	< 3.7	< 5.7	< 0.0003	< 0.15	< 14
P24813SVBS	24813 PANAMA AVE	2013-06-04	10:00	Back		19.5	1.57	< 20 U	< 0.72 U	< 20 U	< 20 U	760 D	< 2 U	< 2 U	< 2 U	< 2 U	< 0.16 U		< 20 U
P24813SVH	24813 PANAMA AVE	2013-06-04	10:08	House	14		4.5	38	< 2.4	8.8	< 13	36	< 7.4	< 4.1	< 3.5	< 5.4	0.0021	< 0.11	< 14
P24813SVFA	24813 PANAMA AVE	2013-06-04	10:32	Front	18		2.1	33	< 2.5	< 8.6	< 13	560	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
P24813SVFAS	24813 PANAMA AVE	2013-06-04	10:32	Front		17.9	2.13	< 19 U	< 0.7 U	< 19 U	< 19 U	390	3.3	< 1.9 U	< 1.9 U	< 1.9 U	< 0.16 U		< 19 U
N24815SVB	24815 NEPTUNE AVE	2009-09-17	14:43	Back	8.4		0.95	110	< 1.7	< 5.2	4.6	< 3.4	< 4.7	16	2.9	< 3.4	< 0.00014		< 2.2
N24815SVF	24815 NEPTUNE AVE	2009-09-17	15:57	Front	14		5.8	< 12	< 3.1	< 9.3	< 3.6	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025		< 3.8
N24815SVH	24815 NEPTUNE AVE	2010-08-13	10:09	House	15		4.7	23	< 6	< 8.6	< 3.4	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	3.8
N24815SVF	24815 NEPTUNE AVE	2010-08-13	10:54	Front	14		5.2	28	< 6.2	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	6.2	< 5.8	< 0.00023	< 0.12	< 3.6
N24815SVB	24815 NEPTUNE AVE	2010-08-13	11:59	Back	13		7.8	30	< 6.2	< 8.8	3.5	10	< 7.9	< 4.4	5.3	< 5.8	< 0.00023	< 0.12	< 3.6
N24815SVH	24815 NEPTUNE AVE	2012-03-29	09:58	House	18		2.7	< 19	0.97 J, b	< 5.9	< 9.2	< 3.8	< 5.3	< 3	< 2.5	< 3.9	< 0.00016	< 0.078	< 9.8
N24815SVHS	24815 NEPTUNE AVE	2012-03-29	09:58	House		18.6	2.94	< 17 U	< 1 U	< 17 U	< 17 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	2.2	< 0.16 U		< 17 U
N24815SVB	24815 NEPTUNE AVE	2012-03-29	10:25	Back	19		2.6	< 18	< 0.3	< 5.7	< 9	< 3.7	< 5.2	< 2.9	< 2.4	< 3.8	< 0.00015	< 0.076	< 9.5
N24815SVF	24815 NEPTUNE AVE	2012-03-29	10:37	Front	18		3.8	< 19	0.48 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
P24818SVH	24818 PANAMA AVE	2010-11-12	10:21	House	18		2.1	31	0.5 J, b	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
P24818SVHS	24818 PANAMA AVE	2010-11-12	10:21	House		19.3	2.15	< 17	< 1.3	< 17	< 17	2.8	< 1.7	4	< 1.7	2.2	< 0.15		< 17
P24818SVF	24818 PANAMA AVE	2010-11-12	11:06	Front	21		< 0.024	24	0.82 J, b	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
P24818SVFD	24818 PANAMA AVE	2010-11-12	11:06	Front	21		< 0.024	17	1 J, b	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
P24818SVF	24818 PANAMA AVE	2012-06-08	10:25	Front	22		0.37	21	2.9 J, b	< 6.2	< 9.7	4.3	< 5.6	7.3 j	< 2.6	< 4	< 0.00016	0.14	< 10
P24818SVFS	24818 PANAMA AVE	2012-06-08	10:25	Front		21.1	0.374	< 17 U	< 0.73 U	< 17 U	< 17 U	3.7	< 1.7 U	< 1.7 U	< 1.7 U	2.1	< 0.16 U		< 17 U
P24818SVH	24818 PANAMA AVE	2012-06-08	10:30	House	12		5.5	< 19	1.5 J, b	< 6.1	< 9.5	30	< 5.5	< 3	< 2.6	< 4	0.16	< 0.08	< 10
P24818SVBA	24818 PANAMA AVE	2012-06-08	11:02	Back	21		1.6	22	0.62 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
P24818SVBAS	24818 PANAMA AVE	2012-06-08	11:02	Back		20.3	1.58	25	< 0.73 U	< 17 U	< 17 U	3	< 1.7 U	< 1.7 U	< 1.7 U	1.9	< 0.16 U		< 17 U
P24818SVBA	24818 PANAMA AVE	2013-03-29	15:42	Back	20		1.3	< 27	1.9 J, b	< 8.6	< 13	21	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
P24818SVFA	24818 PANAMA AVE	2013-04-02	15:37	Front	23		0.17	29	1.7 J, b	< 8.6	< 13	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
P24818SVHA	24818 PANAMA AVE	2013-04-02	15:40	House	21		1.5	< 28	4.1 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
P24819SVH	24819 PANAMA AVE	2010-06-10	09:16	House	21		0.22	120	3.4 J	37	9.4	< 5.7	< 7.9	< 4.4	4.9	< 5.8	< 0.00023	< 0.12	< 3.6
P24819SVB	24819 PANAMA AVE	2010-06-10	11:10	Back	21		0.14	46	< 2.2	10	16	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
P24819SVF	24819 PANAMA AVE	2010-06-10	11:17	Front	20		< 0.023	77	12 J	< 8.5	15	< 5.5	< 7.7	< 4.2	< 3.6	< 5.6	< 0.00023	< 0.11	< 3.5
P24819SVF	24819 PANAMA AVE	2011-04-21	11:16	Front	22		0.15	< 11	0.78 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
P24819SVFS	24819 PANAMA AVE	2011-04-21	11:16	Front		21.7	< 0.19	< 20	< 1.2	< 20	< 20	< 2	< 2	< 2	< 2	2.3	< 0.19		< 20
P24819SVH	24819 PANAMA AVE	2011-04-21	12:22	House	21		0.33	< 11	0.7 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	0.00025	< 0.12	< 14
P24819SVHS	24819 PANAMA AVE	2011-04-21	12:22	House		21.7	0.33	< 14	< 0.84	< 14	< 14	2.6	< 1.4	< 1.4	< 1.4	1.9	< 0.13		< 14
P24819SVB	24819 PANAMA AVE	2011-04-21	12:31	Back	21		0.33	11	< 0.34	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
P24819SVBS	24819 PANAMA AVE	2011-04-21	12:31	Back		21.8	0.378	< 17	< 1	< 17	< 17	< 1.7	< 1.7	< 1.7	< 1.7	2.2	< 0.16		< 17
P24819SVB	24819 PANAMA AVE	2013-08-22	14:46	Back	20		0.64	< 29	4.9 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24819SVH	24819 PANAMA AVE	2013-08-22	15:07	House	20		0.6	< 29	4.2 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24819SVF	24819 PANAMA AVE	2013-08-22	15:22	Front	20		0.49	31	2.4 J, b	< 8.9	< 14	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24822SVH	24822 PANAMA AVE	2010-06-23	09:06	House	18		1.5	14	3.6 J	11	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	29
P24822SVB	24822 PANAMA AVE	2010-06-23	09:51	Back	20		0.76	21	< 2.4	< 9	5.7	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
P24822SVF	24822 PANAMA AVE	2010-06-23	10:32	Front	20		0.35	31	< 2.2	< 8.3	12	< 5.4	< 7.5	< 4.1	< 3.5	< 5.4	< 0.00022	< 0.11	< 3.4
P24822SVH	24822 PANAMA AVE	2013-06-20	10:29	House	19		2.6	43	1.1 J, b	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
P24822SVF	24822 PANAMA AVE	2013-06-20	10:35	Front	21		0.26	< 28	< 0.78	< 8.7	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	0.15	< 14
P24822SVFD	24822 PANAMA AVE	2013-06-20	10:35	Front	21		0.26	< 28	0.87 J, b	< 8.9	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	0.14	< 15
P24822SVB	24822 PANAMA AVE	2013-06-21	08:41	Back	21		0.82	< 30	< 0.85	< 9.4	< 15	< 6.1	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 16
P24828SVH	24828 PANAMA AVE	2011-10-27	08:46	House	10		6.3	< 7.4	1.6 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
P24828SVB	24828 PANAMA AVE	2011-10-27	09:21	Back	21		0.24	8.3	1.1 J, b	< 5.5	< 8.6	< 3.6	< 5	< 2.8	< 2.3	< 3.6	< 0.00015	< 0.073	< 9.1
P24828SVBS	24828 PANAMA AVE	2011-10-27	09:21	Back		21.3	0.255	< 16 U	< 0.95 U	< 16 U	< 16 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	2.1	< 0.15 U		< 16 U
P24828SVF	24828 PANAMA AVE	2011-10-27	10:03	Front	20		0.72	< 7.5	0.46 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	0.00022	< 0.079	< 9.8
P24828SVB	24828 PANAMA AVE	2012-09-13	10:20	Back	19		1.3	34	1.9 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24828SVBS	24828 PANAMA AVE	2012-09-13	10:20	Back		19.9	1.45	< 20 U	< 0.82 U	< 20 U	< 20 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 0.16 U		< 20 U
P24828SVH	24828 PANAMA AVE	2012-09-13	10:24	House	15		4.7	28	1.4 J, b	< 8.1	< 13	< 5.3	< 7.3	< 4.1	< 3.4	< 5.3	< 0.00022	< 0.11	< 13
P24828SVF	24828 PANAMA AVE	2012-09-13	10:51	Front	20		0.92	27	5.2 J, b	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
P24828SVB	24828 PANAMA AVE	2013-04-16	14:53	Back	20		1.4	< 27	1.4 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
P24828SVH	24828 PANAMA AVE	2013-04-16	15:01	House	16		5.6	< 30	1.1 J, b	18	< 15	< 6.2	< 8.7	< 4.8	< 4.1	< 6.3	< 0.00026	< 0.13	< 16
P24828SVF	24828 PANAMA AVE	2013-04-16	15:21	Front	21		0.99	< 30	0.96 J, b	< 9.6	< 15	< 6.2	< 8.6	< 4.8	< 4	< 6.3	< 0.00025	< 0.13	< 16
P24829SVH	24829 PANAMA AVE	2010-05-21	09:17	House	20		0.34	42	< 2.3	15	6.4	< 5.6	< 7.8	< 4.3	6.6 b	< 5.7	< 0.00023	< 0.11	< 3.6
P24829SVP	24829 PANAMA AVE	2010-05-21	10:31	Back Patio	21		< 0.022	130	< 2.2	33	16	5.7	< 7.6	18	28 b	< 5.5	< 0.00022	< 0.11	< 3.5
P24829SVPS	24829 PANAMA AVE	2010-05-21	10:31	Back Patio		21.9	< 0.15	81	0.95 J	< 17	< 17	5.4	< 1.7	< 1.7	< 1.7	2.3	< 0.15		< 17
P24829SVF	24829 PANAMA AVE	2010-05-21	11:21	Front	20		0.17	44	< 2.4	17	9.7	< 5.9	< 8.2	< 4.6	7.1 b	< 6	< 0.00024	< 0.12	4.4
P24829SVH	24829 PANAMA AVE	2010-09-13	08:53	House	20		0.48	16	< 1.3	16	3.9	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24829SVF	24829 PANAMA AVE	2010-09-13	09:52	Front	20		0.41	16	< 1.4	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
P24829SVFS	24829 PANAMA AVE	2010-09-13	09:52	Front		21.7	0.484	< 17	< 1.4	< 17	< 17	< 1.7	< 1.7	< 1.7	< 1.7	2.3	< 0.16		< 17
P24829SVB	24829 PANAMA AVE	2010-09-13	10:42	Back Patio	20		0.11	180	< 1.3	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	0.15	< 3.6
P24829SVBS	24829 PANAMA AVE	2010-09-13	10:42	Back Patio		21.8	< 0.15	28	< 1.3	< 17	< 17	2.9	< 1.7	< 1.7	< 1.7	2.4	< 0.15		24
P24829SVH	24829 PANAMA AVE	2013-05-09	10:16	House	21		0.55	< 28	2.1 J, b	< 8.9	< 14	20	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
P24829SVF	24829 PANAMA AVE	2013-05-09	10:26	Front	21		0.34	< 30	1.7 J, b	< 9.6	< 15	150	< 8.6	< 4.8	< 4.1	< 6.3	< 0.00026	< 0.13	< 16
P24829SVFD	24829 PANAMA AVE	2013-05-09	10:26	Front	21		0.34	< 30	1.6 J, b	< 9.6	< 15	160	< 8.6	< 4.8	< 4	< 6.3	< 0.00025	< 0.13	< 16
P24832SVG	24832 PANAMA AVE	2010-10-06	09:38	Garage	15		1.5	32	< 1.3	< 8.8	5.9	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
P24832SVB	24832 PANAMA AVE	2010-10-06	10:13	Back	18		2.2	17	< 1.3	< 8.7	< 3.4	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
P24832SVH	24832 PANAMA AVE	2010-10-06	10:56	House	19		0.23	25	2.8 J	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	26
P24832SVB	24832 PANAMA AVE	2012-09-28	15:01	Back	18		2.6	< 29	1.3 J, b	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
P24832SVG	24832 PANAMA AVE	2012-09-28	15:21	Garage	14		5.2	33	0.68 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24832SVH	24832 PANAMA AVE	2012-09-28	16:10	House	19		1.5	36	0.58 J, b	13	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
P24832SVH	24832 PANAMA AVE	2013-05-16	14:55	House	20		1.2	< 29	1.2 J, b	< 9.2	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24832SVB	24832 PANAMA AVE	2013-05-16	15:04	Back	19		2.6	< 29	0.98 J, b	< 9.1	< 14	< 5.9	< 8.2	25 j	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24832SVBD	24832 PANAMA AVE	2013-05-16	15:04	Back	19		2.5	34	0.67 J, b	< 9.2	< 14	< 5.9	< 8.2	130 j	< 3.9	< 6	< 0.00024	< 0.12	< 15
P24832SVG	24832 PANAMA AVE	2013-05-16	15:28	Garage	18		3.5	35	< 0.56	< 8.6	< 13	< 5.5	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
P24833SVH	24833 PANAMA AVE	2010-10-14	09:36	House	18		0.3	270	1.4 J	100	66	< 5.1	< 7.1	< 3.9	< 3.3	< 5.2	0.00058	< 0.1	< 3.2
P24833SVF	24833 PANAMA AVE	2010-10-14	10:20	Front	18		0.072	48	< 1.4	11	12	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00023	< 0.11	8
P24833SVB	24833 PANAMA AVE	2010-10-14	11:06	Back	16		0.086	31	1.6 J	< 8.8	< 3.4	16	< 7.9	< 4.4	< 3.7	< 5.8	0.0027	< 0.12	< 3.6
P24833 SVB	24833 PANAMA AVE	2012-11-29	14:47	Back	21		0.24	< 27	0.94 J, b	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
P24833 SVH	24833 PANAMA AVE	2012-11-29	14:49	House	18		2.3	48 b	1.1 J, b	9.6 b	< 13	< 5.4	< 7.5	< 4.1	< 3.5	< 5.4	< 0.00022	< 0.11	< 14
P24833 SVF	24833 PANAMA AVE	2012-11-29	15:19	Front	21		0.21	< 30	0.95 J, b	< 9.5	< 15	< 6.2	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16
P24833SVH	24833 PANAMA AVE	2013-05-09	14:46	House	19		1.9	32	1.2 J, b	15	< 14	< 5.6	< 7.8	49	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
P24833SVB	24833 PANAMA AVE	2013-05-09	14:51	Back	21		0.35	< 28	0.78 J, b	< 8.9	< 14	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24833SVF	24833 PANAMA AVE	2013-05-09	15:15	Front	22		0.19	< 170	26 J, b	< 54	< 84	< 35	< 48	< 27	< 23	< 35	< 0.00059	< 0.3	< 88
P24838SVB2	24838 PANAMA AVE	2009-09-22	14:17	Back	20		1.2	< 12	< 3.2	< 9.7	< 3.8	24	< 8.7	< 4.8	7.9	< 6.4	< 0.00026		4.1
P24838SVF	24838 PANAMA AVE	2009-09-22	14:54	Front	16		3.1	18	11 J	< 9.6	< 3.8	< 6.2	74	< 4.8	< 4.1	< 6.3	< 0.00026		< 4
P24838SVH	24838 PANAMA AVE	2010-06-01	09:00	House	18		2.7	59	< 4.1	< 8.8	7	< 5.7	< 8	< 4.4	< 3.8	< 5.8	0.00035	< 0.12	< 3.6
P24838SVF	24838 PANAMA AVE	2010-06-01	10:36	Front	20		1.4	21	< 4	< 8.6	< 3.4	< 5.6	28	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 3.6
P24838SVB3	24838 PANAMA AVE	2010-09-08	08:55	Back	21		0.16	18	< 1.3	< 8.4	< 3.3	8.4	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
P24838SVB3	24838 PANAMA AVE	2013-05-08	10:40	Back	22		0.9	< 31	7.7 J, b	< 10	< 16	< 6.5	< 9	< 5	< 4.2	< 6.6	< 0.00026	< 0.13	< 16
P24838SVH	24838 PANAMA AVE	2013-05-08	10:45	House	19		3	< 29	1.1 J, b	< 9.2	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	0.24	< 15
P24838SVF	24838 PANAMA AVE	2013-05-08	11:08	Front	21		1.2	< 28	0.85 J, b	< 9	< 14	< 5.8	32	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
P24838SVFD	24838 PANAMA AVE	2013-05-08	11:08	Front	21		1.2	74		< 8.8	< 14	< 5.7	33	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
N24904SVH	24904 NEPTUNE AVE	2010-07-16	13:01	House	20		0.79	26	< 7	20	4.1	< 6.4	< 9	< 5	< 4.2	< 6.5	< 0.00026	< 0.13	< 4.1
N24904SVG	24904 NEPTUNE AVE	2010-07-16	13:35	Garage	20		< 0.026	70	< 6.8	26	12	< 6.3	< 8.8	< 4.9	11 j	< 6.4	< 0.00026	< 0.13	< 4
N24904SVB	24904 NEPTUNE AVE	2010-07-16	14:11	Back	20		< 0.023	64	< 6.2	28	9	< 5.7	< 7.9	< 4.4	3.7 j	< 5.8	< 0.00023	< 0.12	< 3.6
N24904SVG	24904 NEPTUNE AVE	2012-09-14	16:04	Garage	20		0.65	44	4.3 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
N24904SVGD	24904 NEPTUNE AVE	2012-09-14	16:04	Garage	20		0.63	63	3.4 J, b	12	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
N24904SVH	24904 NEPTUNE AVE	2012-09-14	16:15	House	20		1.1	81	2.6 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
N24904SVB	24904 NEPTUNE AVE	2012-09-14	16:39	Back	20		1.3	46	3.2 J, b	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
N24904SVB	24904 NEPTUNE AVE	2013-06-18	09:52	Back	21		0.6	< 29	1.1 J, b	< 9.2	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
N24904SVBS	24904 NEPTUNE AVE	2013-06-18	09:52	Back		21.4	0.598	25	< 0.76 U	< 21 U	< 21 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.17 U		< 21 U
N24904SVH	24904 NEPTUNE AVE	2013-06-18	10:06	House	20		0.96	< 26	1.3 J, b	< 8.4	< 13	< 5.4	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
N24904SVG	24904 NEPTUNE AVE	2013-06-18	10:33	Garage	21		0.5	34	0.92 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
N24904SVGS	24904 NEPTUNE AVE	2013-06-18	10:33	Garage		21.6	0.483	25	< 0.73 U	< 20 U	< 20 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 0.16 U		< 20 U
N24912SVB	24912 NEPTUNE AVE	2009-09-30	13:15	Back	21		0.11	41 b	6.3 J	< 9.2	5.2 b	< 6	< 8.3	< 4.6	12	< 6	< 0.00024		< 3.8
N24912SVF	24912 NEPTUNE AVE	2009-09-30	13:55	Front	17		4.7	12 b	5.3 J	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024		< 3.8
N24912SVH	24912 NEPTUNE AVE	2010-06-14	09:58	House	18		1.9	76 b	< 2.3	13	8 b	11	< 8	< 4.4	4.8	< 5.8	< 0.00024	< 0.12	< 3.6
N24912SVB	24912 NEPTUNE AVE	2010-06-14	10:48	Back	20		0.19	31 b	7.2 J	< 9.7	7.7 b	< 6.3	< 8.7	5	22	< 6.4	< 0.00026	< 0.13	130
N24912SVF	24912 NEPTUNE AVE	2010-06-14	11:36	Front	17		5.3	41 b	< 2.4	16	6.7 b	< 6	< 8.3	< 4.6	4.1	< 6	< 0.00024	< 0.12	5.1
N24912SVH	24912 NEPTUNE AVE	2012-03-16	15:11	House	16		4.4	25	3.1 J, b	< 7.4	< 12	< 4.8	10	< 3.7	< 3.1	< 4.8	< 0.0002	< 0.098	< 12
N24912SVF	24912 NEPTUNE AVE	2012-03-16	15:32	Front	18		4	< 19	1.8 J, b	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
N24912SVFD	24912 NEPTUNE AVE	2012-03-16	15:32	Front	18		4	< 19	9.4 J, b	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
N24912SVB	24912 NEPTUNE AVE	2012-03-16	16:13	Back	21		0.1	< 19	1.2 J, b	< 6.2	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4	< 0.00016	< 0.082	< 10
244301SVH	301 244TH ST	2010-10-18	09:35	House	21		0.2	18	< 1.3	< 8.8	< 3.4	< 5.7	150	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	16
244301SVF	301 244TH ST	2010-10-18	10:08	Front	21		0.04	19	< 1.3	9.6	3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
244301SVB	301 244TH ST	2010-10-18	10:51	Back	21		< 0.022	33	< 1.3	19	< 3.3	< 5.5	31	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
244301SVH	301 244TH ST	2013-01-31	09:50	House	21		0.16	< 28	2.3 J, b	< 8.8	< 14	< 5.7	16	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
244301SVB	301 244TH ST	2013-01-31	10:06	Back	22		0.071	< 28	2 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
244301SVF	301 244TH ST	2013-01-31	10:19	Front	21		0.062	< 28	1.8 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
244301SVFD	301 244TH ST	2013-01-31	10:19	Front	21		0.066	< 28	1.5 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
244301SVH	301 244TH ST	2013-06-26	10:17	House	21		0.23	< 27	< 0.77	< 8.6	< 13	< 5.6	21	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
244301SVF	301 244TH ST	2013-06-26	10:40	Front	22		0.085	< 27	< 0.77	< 8.6	< 13	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
244301SVB	301 244TH ST	2013-06-26	10:44	Back	22		0.13	< 31	< 0.88	< 9.8	< 15	< 6.4	10	< 4.9	< 4.2	< 6.4	< 0.00026	< 0.13	< 16
244301SVBD	301 244TH ST	2013-06-26	10:44	Back	21		0.12	39	< 0.85	< 9.5	< 15	< 6.2	9.7	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16
244305SVH	305 244TH ST	2010-07-01	14:36	House	20		0.097	27	5.5 J	12	4.1	8.2	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
244305SVG	305 244TH ST	2010-07-01	15:23	Garage	18		< 0.024	160	< 2.4	9.9	22	< 5.8	< 8.1	< 4.5	4.6	< 5.9	< 0.00024	< 0.12	4.4

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
244305SVB	305 244TH ST	2010-07-01	16:06	Back	19		< 0.025	140	< 2.5	< 9.5	7.9	< 6.2	< 8.6	< 4.8	4	< 6.2	< 0.00025	< 0.13	< 3.9
244305SVH	305 244TH ST	2012-10-18	14:50	House	20		0.66	< 28	< 0.59 PF	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
244305SVG	305 244TH ST	2012-10-18	15:00	Garage	20		1.7	31	< 0.58 PF	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00031	< 0.16	< 14
244305SVB	305 244TH ST	2012-10-22	12:54	Back	20		0.86	33	< 0.59 PF	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
244305SVG	305 244TH ST	2013-04-24	15:14	Garage	20		1.2	< 28	< 0.58 PF	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
244305SVH	305 244TH ST	2013-04-24	15:14	House	21		0.48	< 30	< 0.63 PF	< 9.6	< 15	< 6.2	< 8.7	< 4.8	< 4.1	< 6.3	< 0.00026	< 0.13	< 16
244305SVHD	305 244TH ST	2013-04-24	15:14	House	21		0.46	< 30	< 0.63 PF	< 9.6	< 15	< 6.2	< 8.7	< 4.8	< 4.1	< 6.3	< 0.00026	< 0.13	< 16
244305SVB	305 244TH ST	2013-04-24	15:58	Back	21		0.61	< 27	< 0.56 PF	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
244317SVH	317 244TH ST	2011-01-24	09:07	House	21		< 0.023	26	1.4 J, b	< 8.6	< 3.4	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	0.00024	< 0.11	< 3.6
244317SVG	317 244TH ST	2011-01-24	09:51	Garage	21		< 0.023	22	1.3 J, b	< 8.5	< 3.3	< 5.5	< 7.7	< 4.2	< 3.6	< 5.6	< 0.00023	< 0.11	< 3.5
244317SVB	317 244TH ST	2011-01-24	10:27	Back	21		< 0.023	< 44	< 5.3	< 35	< 14	8400	< 32	< 18	< 15	< 23	0.0003	< 0.12	< 14
244317SVB	317 244TH ST	2011-03-24	15:44	Back	21		0.04	23	1.4 J, b	10	< 14	380	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
244317SVBS	317 244TH ST	2011-03-24	15:44	Back		22.3	< 0.16	< 18	< 1	< 18	< 18	390 D	< 1.8	< 1.8	< 1.8	2.8	< 0.16		< 18
244317SVG	317 244TH ST	2011-03-24	15:58	Garage	21		0.24	< 11	< 1.3 UJ	< 8.4	< 13	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	0.00024	< 0.11	< 14
244317SVH	317 244TH ST	2011-03-24	16:33	House	21		0.083	170	< 1.3 UJ	20	36	< 5.7	16	< 4.4	< 3.7	< 5.8	0.00025	< 0.12	< 14
244321SVH	321 244TH ST	2010-11-18	08:54	House	21		0.46	< 11	7 J, b	< 8.8	< 3.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
244321SVB	321 244TH ST	2010-11-18	09:36	Back	21		< 0.022	26	1.1 J, b	12	< 3.2	< 5.3	< 7.3	< 4.1	< 3.4	< 5.3	< 0.00022	< 0.11	< 3.4
244321SVBD	321 244TH ST	2010-11-18	09:36	Back	22		< 0.021	20	1 J, b	< 8	< 3.1	< 5.2	< 7.2	< 4	< 3.4	< 5.3	< 0.00021	< 0.11	< 3.3
244321SVF	321 244TH ST	2010-11-18	10:13	Front	21		0.084	12	1.8 J, b	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
244321SVB	321 244TH ST	2013-03-22	09:59	Back	21		0.35	< 27	1.6 J, b	< 8.6	< 13	< 5.5	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
244321SVBS	321 244TH ST	2013-03-22	09:59	Back		21.8	0.355	< 19 U	< 0.79 U	< 19 U	< 19 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	2	< 0.15 U		< 19 U
244321SVH	321 244TH ST	2013-03-22	09:59	House	20		0.42	49	3 J, b	< 9.2	15	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
244321SVF	321 244TH ST	2013-03-22	10:33	Front	21		0.18	< 29	1.3 J, b	< 9.2	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
244321SVFS	321 244TH ST	2013-03-22	10:33	Front		21.9	0.183	< 20 U	< 0.85 U	< 20 U	< 20 U	< 2 U	< 2 U	< 2 U	< 2 U	2.4	< 0.16 U		< 20 U
244321SVH	321 244TH ST	2013-08-02	09:31	House	20		0.56	< 25	< 0.71	< 8	< 12	< 5.2	< 7.2	< 4	< 3.4	< 5.2	< 0.00021	< 0.11	< 13
244321SVB	321 244TH ST	2013-08-02	09:47	Back	21		0.12	40	< 0.78	< 8.7	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
244321SVBS	321 244TH ST	2013-08-02	09:47	Back		21.8	< 0.16 U	< 21 U	< 0.74 U	< 21 U	< 21 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	2.1	< 0.16 U		< 21 U
244321SVF	321 244TH ST	2013-08-02	09:58	Front	20		0.15	37	< 0.79	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
244327SVH	327 244TH ST	2010-05-05	13:40	House	20		0.092	18	< 6.3	14	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
244327SVG	327 244TH ST	2010-05-05	15:51	Garage	20		1.3	19	< 6.4	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
244327SVB	327 244TH ST	2010-05-05	16:39	Back	21		< 0.023	26	< 6.2	< 8.8	< 3.4	26	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	0.2	< 3.6
244327SVB	327 244TH ST	2013-02-14	10:05	Back	22		0.059	< 28	1.1 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	0.12	< 15
244327SVBD	327 244TH ST	2013-02-14	10:05	Back	23		0.049	< 29	0.86 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
244327SVH	327 244TH ST	2013-02-14	10:12	House	21		1	< 28	0.89 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
244327SVG	327 244TH ST	2013-02-14	10:39	Garage	21		1.2	< 29	0.77 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
244327SVB	327 244TH ST	2013-07-31	09:53	Back	22		0.058	< 27	< 0.76	< 8.6	< 13	9.8	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
244327SVBD	327 244TH ST	2013-07-31	09:53	Back	21		0.058	54	< 0.76	< 8.5	< 13	9.1	< 7.7	< 4.2	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
244327SVH	327 244TH ST	2013-07-31	10:02	House	20		1.3	< 29	< 0.81	< 9.1	< 14	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 15
244327SVG	327 244TH ST	2013-07-31	10:24	Garage	20		1.4	< 28	< 0.8	< 8.9	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
244331SVH	331 244TH ST	2010-08-04	13:23	House	20		0.49	15	< 6.3	16	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
244331SVG	331 244TH ST	2010-08-04	14:04	Garage	18		0.19	38	< 6.2	14	3.5	< 5.7	16	< 4.4	13	< 5.8	< 0.00024	< 0.12	< 3.6
244331SVB	331 244TH ST	2010-08-04	14:40	Back	20		0.09	17	< 6.3	11	< 3.5	< 5.8	< 8	< 4.5	6.6	< 5.9	< 0.00024	< 0.12	< 3.7
244331SVH	331 244TH ST	2012-08-30	15:14	House	20		0.99	37	3.4 J, b	12	< 13	< 5.3	< 7.3	< 4.1	< 3.4	< 5.3	< 0.00022	< 0.11	< 13
244331SVG	331 244TH ST	2012-08-30	15:50	Garage	18		2.5	34	2.7 J, b	11	< 15	< 6.3	18	< 4.9	< 4.1	< 6.4	< 0.00026	< 0.13	< 16
244331SVB	331 244TH ST	2012-08-30	16:39	Back	19		0.44	< 29	1.9 J, b	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
244331SVBD	331 244TH ST	2012-08-30	16:39	Back	21		0.48	43	1.7 J, b	12	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
244331SVH	331 244TH ST	2013-05-01	10:25	House	21		0.56	36	4 J, b	< 8.9	< 14	< 5.8	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
244331SVG	331 244TH ST	2013-05-01	10:52	Garage	20		1.7	38	2.9 J, b	< 8.7	< 14	< 5.6	13	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
244331SVB	331 244TH ST	2013-05-01	11:14	Back	21		0.36	< 27	2.4 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
244331SVBD	331 244TH ST	2013-05-01	11:14	Back	22		0.36	32	1.9 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
244337SVH	337 244TH ST	2010-08-16	14:11	House	20		0.27	17	< 6	21	< 3.4	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
244337SVF	337 244TH ST	2010-08-16	14:49	Front	19		0.9	13	< 6.2	11	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
244337SVB	337 244TH ST	2010-08-16	15:32	Back	20		0.079	37	< 6	< 8.6	< 3.4	6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
244337SVH	337 244TH ST	2010-11-11	15:05	House	21		0.97	12	0.35 J	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
244337SVF	337 244TH ST	2010-11-11	15:44	Front	20		1	13	0.35 J	< 8.8	3.5	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
244337SVB	337 244TH ST	2010-11-11	16:06	Back	21		0.2	< 11	< 0.34	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
244341SVH	341 244TH ST	2010-06-30	14:18	House	20		0.22	27	< 2.4	16	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
244341SVB	341 244TH ST	2010-06-30	15:03	Back	21		< 0.024	180	< 2.3	16	8.5	< 5.7	< 8	< 4.4	4.4	< 5.8	< 0.00024	< 0.12	4.5
244341SVG	341 244TH ST	2010-06-30	15:37	Garage	21		0.062	43	< 2.4	9.2	6.9	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	40
244341SVB	341 244TH ST	2012-08-02	09:47	Back	21		0.22	< 18	< 2.9	6.2	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
244341SVBS	341 244TH ST	2012-08-02	09:47	Back		21.4	0.178	< 20 U	< 0.83 U	< 20 U	< 20 U	< 2 U	< 2 U	< 2 U	< 2 U	2.3	< 0.15 U		< 20 U
244341SVH	341 244TH ST	2012-08-02	10:09	House	21		0.29	19 b	< 2.9	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
244341SVG	341 244TH ST	2012-08-02	10:20	Garage	21		0.34	< 19	< 3.1	< 6.2	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4	< 0.00016	< 0.082	< 10
244341SVGS	341 244TH ST	2012-08-02	10:20	Garage		21.3	0.36	< 21 U	< 0.86 U	< 21 U	< 21 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	2.1	< 0.16 U		< 21 U
244341SVB	341 244TH ST	2013-06-05	10:04	Back	22		0.17	43	2.8 J, b	< 8.6	< 13	< 5.5	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
244341SVBS	341 244TH ST	2013-06-05	10:04	Back		21.9	0.171	< 19 U	< 0.69 U	< 19 U	< 19 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	2.1	< 0.15 U		< 19 U
244341SVH	341 244TH ST	2013-06-05	10:05	House	22		0.25	< 28	4.8 J, b	13	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
244341SVG	341 244TH ST	2013-06-05	10:15	Garage	22		0.42	< 27	< 2.5	< 8.6	< 14	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
249344SVG	344 249TH ST	2010-09-01	08:50	Garage	17		0.27	36	1.8 J	< 9.1	4.3	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
249344SVF2	344 249TH ST	2010-09-01	09:32	Front	18		0.27	57	< 1.3	< 8.8	10	37	< 7.9	< 4.4	< 3.7	< 5.8	0.0005	< 0.12	< 3.6
249344SVB2	344 249TH ST	2010-09-01	10:12	Back	14		2.1	22	1.6 J	< 9.5	< 3.7	310	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 3.9
249344SVH2	344 249TH ST	2010-09-01	10:52	House	19		0.29	32	< 1.3	< 8.8	7	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	0.35	3.9
249344SVH2	344 249TH ST	2013-01-24	10:05	House	21		0.93	< 26	2.1 J, b	< 8.1	< 13	< 5.3	< 7.3	< 4.1	< 3.4	< 5.3	< 0.00022	< 0.11	< 13
249344SVB2	344 249TH ST	2013-01-24	10:09	Back	15		6.8	< 32	1.1 J, b	< 10	< 16	< 6.6	< 9.1	< 5.1	< 4.3	< 6.6	< 0.00027	< 0.13	< 17
249344SVB2D	344 249TH ST	2013-01-24	10:09	Back	14		6.7	< 31	1.3 J, b	< 9.9	< 16	< 6.4	< 9	< 5	< 4.2	< 6.5	< 0.00026	< 0.13	< 16
249344SVG	344 249TH ST	2013-01-24	10:35	Garage	20		2.1	< 28	1.6 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
249344SVB2	344 249TH ST	2013-05-14	09:44	Back	14		9.5	< 30	1.4 J, b	< 9.6	< 15	8.8	< 8.6	< 4.8	< 4.1	< 6.3	< 0.00026	< 0.13	< 16
249344SVB2D	344 249TH ST	2013-05-14	09:44	Back	13		9.4	< 29	1.2 J, b	< 9.3	< 14	9	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
249344SVH2	344 249TH ST	2013-05-14	09:44	House	21		1.2	< 31	2.1 J, b	< 9.8	< 15	< 6.4	< 8.8	< 4.9	< 4.2	< 6.4	< 0.00026	< 0.13	< 16
249344SVG	344 249TH ST	2013-05-14	10:13	Garage	19		3.3	< 28	0.82 J, b	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
249344SVF2	344 249TH ST	2013-05-14	10:22	Front	21		0.84	< 27	1.1 J, b	< 8.5	< 13	17	< 7.6	< 4.2	< 3.6	< 5.6	< 0.00022	< 0.11	< 14
249_345SVB	345 249TH ST	2009-09-28	09:31	Back	13		6.5	11	< 2.9	< 8.7	< 3.4	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023		< 3.6
249_345SVF	345 249TH ST	2009-09-28	10:14	Front	15		5.8	32	14 J	< 9.3	6.7	< 6	< 8.4	< 4.7	< 4	< 6.1	< 0.00025		< 3.9
249_345SVFD	345 249TH ST	2009-09-28	10:14	Front	15		5.7	53	14 J	13	13	< 6.2	< 8.6	< 4.8	< 4	< 6.2	< 0.00025		100
249345SVH	345 249TH ST	2010-11-10	09:08	House	17		1.8	19	0.42 J, b	< 8.7	< 3.4	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	0.015	< 0.12	< 3.6
249345SVF	345 249TH ST	2010-11-10	09:37	Front	16		4.9	< 12	< 0.35	< 9.3	< 3.6	< 6	< 8.3	< 4.6	< 3.9	< 6.1	0.00029	< 0.12	< 3.8
249345SVB	345 249TH ST	2010-11-10	10:13	Back	16		4.2	< 11	< 0.33	< 8.6	< 3.4	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 3.6
249345SVHA	345 249TH ST	2012-11-02	14:38	House	17		1.2	36	0.99 J, b	< 9.8	< 15	< 6.3	< 8.8	< 4.9	< 4.1	< 6.4	< 0.00026	< 0.13	< 16
249345SVF	345 249TH ST	2012-11-02	15:07	Front	15		6.5	< 31	1.6 J, b	< 9.9	< 16	< 6.4	< 9	< 5	< 4.2	< 6.5	< 0.00026	< 0.13	< 16
249345SVB	345 249TH ST	2012-11-02	15:08	Back	16		4.5	< 28	1.5 J, b	< 8.9	< 14	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
249345SVHA	345 249TH ST	2013-04-23	14:16	House	19		2.8	32	< 0.59 PF	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
249345SVF	345 249TH ST	2013-04-23	14:39	Front	18		4.4	< 30	< 0.63 PF	< 9.7	< 15	< 6.3	< 8.7	< 4.8	< 4.1	< 6.4	< 0.00026	< 0.13	< 16
249345SVFD	345 249TH ST	2013-04-23	14:39	Front	18		4.3	< 30	< 0.62 PF	< 9.5	< 15	< 6.2	< 8.6	< 4.8	< 4	< 6.2	< 0.00025	< 0.13	< 16
249345SVB	345 249TH ST	2013-04-23	14:48	Back	18		3.2	< 29	< 0.61 PF	< 9.3	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
244347SVH	347 244TH ST	2010-06-25	09:30	House	19		0.52	32	< 2.3 UJ	< 8.8	3.8	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	0.12	5.7
244347SVG	347 244TH ST	2010-06-25	10:17	Garage	20		0.25	44	< 2.3 UJ	< 8.7	9.1	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
244347SVB	347 244TH ST	2010-06-25	11:09	Back	20		0.18	38	< 2.4 UJ	9.3	6	8.3	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
244347SVH	347 244TH ST	2012-12-21	14:49	House	20		1.2	< 29	1 J, b	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
244347SVG	347 244TH ST	2012-12-21	15:00	Garage	21		0.14	< 28	0.72 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
244347SVB	347 244TH ST	2012-12-21	15:13	Back	20		0.79	< 29	0.76 J, b	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	0.15	< 15
244347SVB	347 244TH ST	2013-05-10	10:16	Back	21		0.23	31	2.1 J, b	9.7	< 12	11	< 7.2	< 4	< 3.4	< 5.2	< 0.00021	< 0.11	< 13
244347SVBD	347 244TH ST	2013-05-10	10:16	Back	21		0.23	< 26	1.7 J, b	< 8.1	< 13	10	< 7.3	< 4	< 3.4	< 5.3	< 0.00022	< 0.11	< 13
244347SVH	347 244TH ST	2013-05-10	10:23	House	20		1.5	28	1.2 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
244347SVG	347 244TH ST	2013-05-10	10:51	Garage	21		0.54	40	1.2 J, b	10	< 14	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	0.53	< 14

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
248348SVH	348 248TH ST	2010-05-04	14:12	House	21		0.4	73	< 6.8	70	11	< 6.3	< 8.8	12	4.2	< 6.4	< 0.00026	< 0.13	4
248348SVF	348 248TH ST	2010-05-04	15:18	Front	18		2	34	< 6.6	32	4.5	22	< 8.5	6.4	< 4	< 6.2	< 0.00025	< 0.12	< 3.9
248348SVB	348 248TH ST	2010-05-04	15:58	Back	4.6		17	95	< 6.9	24	22	8.9	< 8.8	< 4.9	21	< 6.4	0.012	< 0.13	6.9
248 348 SVH	348 248TH ST	2010-08-26	10:38	House	17		2.3	37	2.1 J, b	14	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	0.59	< 3.8
248 348 SVF	348 248TH ST	2010-08-26	11:48	Front	16		5.4	24	1.5 J, b	< 9.5	< 3.7	< 6.2	< 8.5	< 4.7	24	< 6.2	< 0.00025	< 0.13	< 3.9
248 348 SVFD	348 248TH ST	2010-08-26	11:48	Front	16		5.3	18	< 1.4	< 9.6	< 3.8	< 6.2	< 8.6	< 4.8	7	< 6.3	< 0.00026	< 0.13	< 4
248 348 SVB	348 248TH ST	2010-08-26	12:32	Back	2.9		21	13	< 1.5	< 9.8	< 3.8	< 6.3	< 8.8	< 4.9	5.6	< 6.4	0.11	< 0.13	< 4
248348 SVFS	348 248TH ST	2011-01-13	11:15	Front		21.2	0.841	< 18	< 1.4	< 18	< 18	< 1.8	< 1.8	< 1.8	< 1.8	2.6	< 0.16		< 18
248348SVF	348 248TH ST	2011-01-13	11:15	Front	20		0.76	< 11	< 1.3 J	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	0.12	< 3.6
248 348 SVB	348 248TH ST	2011-04-25	09:42	Back	11		9.9	< 11	0.86 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	0.00077	< 0.12	< 15
248 348 SVF	348 248TH ST	2011-04-25	10:39	Front	19		1.8	< 11	1.3 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
248 348 SVFD	348 248TH ST	2011-04-25	10:39	Front	19		1.7	< 11	0.38 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
249348SVF	348 249TH ST	2010-06-21	10:05	Front	21		< 0.023	42	< 2.3	10	6.1	< 5.6	< 7.8	37	7.1	< 5.7	< 0.00023	< 0.12	< 3.6
249348SVB	348 249TH ST	2010-06-21	11:12	Back	19		3.1	37	< 2.3	10	12	< 5.6	< 7.8	< 4.4	5.8	< 5.7	< 0.00023	< 0.12	< 3.6
249 348 SVH	348 249TH ST	2011-01-28	09:34	House	19		2.2	12	1.4 J, b	8.9	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	0.17	< 3.6
249 348 SVF	348 249TH ST	2011-01-28	10:08	Front	21		0.065	< 11	1.3 J, b	< 8.4	< 3.3	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
249348SVFS	348 249TH ST	2011-01-28	10:08	Front		22.2	< 0.16	48	< 1.3	< 17	< 17	< 1.7	< 1.7	< 1.7	< 1.7	2.5	< 0.16		< 17
249348SVH	348 249TH ST	2012-08-17	10:28	House	12		2.2	< 28	2.5 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00016	0.18	< 15
249348SVF	348 249TH ST	2012-08-17	10:56	Front	14		0.055	< 29	2.1 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00016	< 0.08	< 15
249348SVFS	348 249TH ST	2012-08-17	10:56	Front		21.5	< 0.16 U	< 20 U	< 0.84 U	< 20 U	< 20 U	< 2 U	< 2 U	< 2 U	< 2 U	2.2	< 0.16 U		< 20 U
249348SVBA	348 249TH ST	2012-08-17	11:31	Back	9.8		4.4	< 28	4.9 J, b	< 9	< 14	41	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00016	< 0.079	< 15
244-351SVB	351 244TH ST	2009-09-16	15:34	Back	20		0.93	14	< 3.1	< 9.3	< 3.6	< 6	< 8.4	< 4.7	21	< 6.1	< 0.00025		< 3.9
244-351SVB-D	351 244TH ST	2009-09-16	15:34	Back	20		0.92	< 13	< 3.3	< 10	< 3.9	< 6.5	< 9	< 5	18	< 6.6	< 0.00027		< 4.1
244-351SVF	351 244TH ST	2009-09-16	16:05	Front	21		0.11	< 12	4.9 J	< 9.3	< 3.6	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025		8.3
244351SVF	351 244TH ST	2010-06-18	10:31	Front	20		0.68	75	7.8 J	< 9.9	4.1	< 6.4	< 9	< 5	30	< 6.5	< 0.00026	< 0.13	< 4.1
244351SVB	351 244TH ST	2010-06-18	11:03	Back	20		0.66	11	< 2.3	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
244351SVH	351 244TH ST	2010-06-18	11:48	House	20		0.81	26	< 2.3	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	3.7
244351SVF	351 244TH ST	2010-10-22	09:00	Front	21		0.17	40	< 1.3	13	5.1	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
244351SVB	351 244TH ST	2010-10-22	10:50	Back	20		0.71	18	< 1.4	< 9.6	< 3.8	< 6.2	< 8.6	< 4.8	< 4.1	< 6.3	< 0.00026	< 0.13	< 4
244351SVH	351 244TH ST	2010-10-22	11:24	House	19		1.4	12	< 1.2	< 8.2	< 3.2	< 5.3	< 7.4	< 4.1	< 3.5	< 5.4	< 0.00022	< 0.11	< 3.4
244351SVHD	351 244TH ST	2010-10-22	11:24	House	19		1.4	18	< 1.2	< 8.2	< 3.2	< 5.3	< 7.4	< 4.1	< 3.5	< 5.4	< 0.00022	< 0.11	< 3.4
244351 SVF	351 244TH ST	2010-10-28	09:04	Front	21		0.21	< 10	< 1.2	< 8.1	< 3.2	< 5.2	< 7.3	< 4	< 3.4	< 5.3	< 0.00022	< 0.11	< 3.3
244351 SVB	351 244TH ST	2010-10-28	09:43	Back	21		0.56	48	< 1.2	< 8.1	6.7	< 5.3	< 7.3	< 4.1	< 3.4	< 5.3	< 0.00022	< 0.11	< 3.4
244351 SVH	351 244TH ST	2010-10-28	10:27	House	19		1.5	14	< 1.4	< 9	< 3.5	< 5.8	< 8.1	28	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
244351SVH	351 244TH ST	2013-04-12	10:23	House	20		1.8	< 29	0.76 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
244351SVF	351 244TH ST	2013-04-12	10:55	Front	21		0.51	< 29	< 0.6	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
244351SVFD	351 244TH ST	2013-04-12	10:55	Front	21		0.49	< 29	0.75 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
244351SVB	351 244TH ST	2013-04-12	11:05	Back	21		0.86	< 28	< 0.59	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
249-352SVB	352 249TH ST	2009-10-03	09:19	Back	17		3.8	28	2.9 J	75	12	< 5.6	< 7.8	< 4.3	11	< 5.7	< 0.00023		18
249-352SVF	352 249TH ST	2009-10-03	10:11	Front	16		4.9	28	< 2.2	43	10	59	790	< 4.5	< 3.8	< 5.9	< 0.00024		< 3.7
249352SVH	352 249TH ST	2011-01-20	09:55	House	19		2.2	< 11	< 1.3	< 8.7	< 3.4	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
249352SVF	352 249TH ST	2011-01-20	10:24	Front	18		3.6	23	< 1.3	< 8.8	< 3.4	< 5.7	< 7.9	190	20	< 5.8	< 0.00023	< 0.12	< 3.6
249352SVFS	352 249TH ST	2011-01-20	10:24	Front		18.7	3.94	< 17	< 1.3	< 17	< 17	< 1.7	< 1.7	< 1.7	< 1.7	2.1	< 0.16		< 17
249352SVB	352 249TH ST	2011-01-20	11:09	Back	20		2.1	19	< 1.4	16	< 3.5	< 5.8	< 8	6.2	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
249352SVBS	352 249TH ST	2011-01-20	11:09	Back		20.8	1.97	27	< 1.4	21	< 17	< 1.7	< 1.7	5.4	< 1.7	2.3	< 0.16		< 17
249352SVF	352 249TH ST	2011-02-10	15:05	Front	18		3.4	< 11	1 J, b	< 8.4	< 3.3	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
249352SVH	352 249TH ST	2011-02-10	15:16	House	18		2.2	14	0.9 J, b	< 8.3	< 3.2	< 5.4	< 7.5	< 4.1	< 3.5	< 5.4	< 0.00022	< 0.11	< 3.4
249352SVB	352 249TH ST	2011-02-10	16:03	Back	18		3.3	21	0.89 J, b	< 9.3	< 3.6	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 3.8
249353SVH	353 249TH ST	2010-06-08	10:30	House	14		3	17	< 2.3	< 8.7	< 3.4	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
249353SVB	353 249TH ST	2010-06-08	11:12	Back	18		0.52	36	< 2.4	< 8.9	< 3.5	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	6.2
249353SVBS	353 249TH ST	2010-06-08	11:12	Back		21.4	0.5	35	< 1.3	< 17	< 17	< 1.7	< 1.7	< 1.7	< 1.7	2.3	< 0.16		< 17
249353SVF	353 249TH ST	2010-06-08	12:28	Front	18		0.045	32	< 2.3	< 8.7	5.8	< 5.6	< 7.8	< 4.4	4	< 5.7	< 0.00023	< 0.12	< 3.6

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
249353SVB	353 249TH ST	2011-02-04	11:56	Back	20		0.66	< 11	0.43 J, b	< 8.4	< 3.3	< 5.5	< 7.6	6.1	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
249353SVF	353 249TH ST	2011-02-04	13:12	Front	21		0.13	12	< 0.34	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
249353SVB	353 249TH ST	2013-07-10	09:49	Back	21		0.78	< 30	1.3 J, b	< 9.4	< 15	< 6.1	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 16
249353SVBD	353 249TH ST	2013-07-10	09:49	Back	21		0.77	< 30	< 0.84	< 9.4	< 15	< 6.1	< 8.4	< 4.7	< 4	< 6.2	< 0.00025	< 0.12	< 16
249353SVH	353 249TH ST	2013-07-10	10:02	House	18		3.1	32	< 0.82	< 9.2	< 14	< 6	< 8.3	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
249353SVF	353 249TH ST	2013-07-10	10:23	Front	21		0.3	110	< 0.8	< 8.9	44	< 5.8	< 8	32	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
248354SVH	354 248TH ST	2010-09-16	09:16	House	13		2.7	51	< 1.3	20	5.1	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	0.00025	< 0.11	< 3.6
248354SVG	354 248TH ST	2010-09-16	09:57	Garage	9.5		6.6	32	< 1.3	< 8.8	6.2	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	0.0084	< 0.12	< 3.6
248354SVB	354 248TH ST	2010-09-16	10:34	Back	11		3.6	19	3 J, b	< 9	< 3.5	9.8	< 8.1	5.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
248354SVBD	354 248TH ST	2010-09-16	10:34	Back	11		3.6	26	1.4 J, b	< 9.1	< 3.6	9.6	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
248354SVHA	354 248TH ST	2012-06-14	09:59	House	12		6.2	< 19	1.2 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	0.00021	< 0.079	< 9.8
248354SVBA	354 248TH ST	2012-06-15	13:05	Back	22		< 0.015	110	0.99 J, b	< 5.7	17	10	< 5.1	18	6.4	< 3.7	0.00016	< 0.076	< 9.4
244357SVH	357 244TH ST	2010-06-07	09:36	House	17		0.45	45	< 5.9	< 22	< 8.8	< 14	< 20	< 11	< 9.5	< 15	< 0.00024	< 0.12	< 9.2
244357SVF	357 244TH ST	2010-06-07	10:30	Front	18		< 0.023	36	< 2.3	30	8	< 5.7	< 7.9	7.6	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
244357SVB2	357 244TH ST	2010-09-02	13:14	Back	21		< 0.023	24	4 J, b	< 8.6	3.6	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	8.4 j
244357SVB2D	357 244TH ST	2010-09-02	13:14	Back	21		< 0.03	21	3.4 J, b	< 8.6	4.9	< 5.6	< 7.7	< 4.3	5.2	< 5.6	< 0.0003	< 0.15	< 3.6
244357SVH	357 244TH ST	2012-11-30	10:10	House	20		1.5	< 29	5.6 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
244357SVF	357 244TH ST	2012-11-30	10:46	Front	21		0.14	< 28	2.8 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
244357SVB2	357 244TH ST	2012-11-30	11:07	Back	20		2.8	46	2.8 J, b	< 9	15 b	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.0004	< 0.2	< 15
244357SVB2	357 244TH ST	2013-06-21	15:28	Back	20		1.6	< 29	< 0.83	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
244357SVH	357 244TH ST	2013-06-21	15:28	House	19		1.4	36	< 0.79	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
244357SVF	357 244TH ST	2013-06-21	15:46	Front	21		0.17	42	< 0.82	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	0.032	< 0.12	< 15
249357SVH	357 249TH ST	2010-05-28	13:21	House	19		1.3	20	< 3.9	< 8.4	< 3.3	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
249357SVF	357 249TH ST	2010-05-28	13:59	Front	19		2	46	< 4.2	< 9.1	< 3.6	9.7	< 8.2	< 4.6	37	< 6	< 0.00024	< 0.12	< 3.8
249357SVFD	357 249TH ST	2010-05-28	13:59	Front	19		2	18	< 4.2	< 9.1	< 3.6	9.9	< 8.2	< 4.6	20	< 6	< 0.00024	< 0.12	< 3.8
249 357 SVB	357 249TH ST	2010-09-03	09:09	Back	20		0.21	36	< 1.4	< 9	3.9	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
249 357 SVF	357 249TH ST	2010-09-03	09:56	Front	19		2	17	< 1.4	13	< 3.4	25	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
249 357 SVFD	357 249TH ST	2010-09-03	09:56	Front	19		1.9	22	< 1.4	20	4.5	26	< 8.1	9.2	< 3.8	< 5.9	< 0.00024	< 0.12	25
249357SVH	357 249TH ST	2012-08-03	14:40	House	18		2.1	32	< 3	< 6.1	< 9.5	< 3.9	< 5.5	3.5	< 2.6	< 4	< 0.00016	< 0.08	< 10
249357SVF	357 249TH ST	2012-08-03	15:15	Front	18		3.4	< 18	< 2.9	< 5.8	< 9.1	47	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
249357SVH	357 249TH ST	2013-06-14	18:44	House	19		1	< 28	< 2.5	< 8.7 PF	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
249357SVB3	357 249TH ST	2013-06-14	18:53	Back	21		< 0.03	110	< 2.6	< 8.8 PF	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.0003	< 0.15	< 15
249357SVF	357 249TH ST	2013-06-14	19:13	Front	20		1.6	< 27	< 2.5	< 8.7 PF	< 14	9.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
249357SVB2	357 249TH ST	2013-06-14	19:27	Back	17		2.3	37	< 2.4	< 8.2 PF	< 13	< 5.3	< 7.4	< 4.1	< 3.5	< 5.4	0.00029	< 0.11	< 14
249 358 SVH	358 249TH ST	2011-09-16	08:41	House	10		10	15 b	1.6 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
249 358 SVG	358 249TH ST	2011-09-16	09:12	Garage	4.3		19	14 b	1.1 J, b	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 15
249 358 SVGD	358 249TH ST	2011-09-16	09:12	Garage	4.1		20	18 b	1 J, b	< 8.8	< 14	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00048	< 0.24	< 15
249 358 SVB	358 249TH ST	2011-09-16	09:47	Back	17		4.7	34 b	0.62 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
249358SVG	358 249TH ST	2012-03-09	10:35	Garage	9.2		12	< 17	4.4 J, b	< 5.5	< 8.6	< 3.6	< 5	< 2.8	< 2.3	< 3.6	< 0.00019	0.13	< 9.1
249358SVH	358 249TH ST	2012-03-09	10:42	House	14		6.4	< 19	3.7 J, b	< 6	< 9.3	< 3.8	< 5.4	5	< 2.5	< 3.9	< 0.0002	< 0.1	< 9.8
249358SVB	358 249TH ST	2012-03-09	11:25	Back	19		2.8	< 19	2.2 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00021	< 0.11	< 9.8
249358SVBD	358 249TH ST	2012-03-09	11:25	Back	19		2.8	< 19	1.9 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00021	< 0.1	< 9.8
249358SVH	358 249TH ST	2013-08-29	14:55	House	14		7.2	< 29	1 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 15
249358SVB	358 249TH ST	2013-08-29	14:56	Back	19		2.1	42	1 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
249358SVG	358 249TH ST	2013-08-29	15:24	Garage	4.5		16	< 29	< 0.81	< 9.1	< 14	< 5.9	< 8.2	< 4.5	< 3.8	< 6	< 0.00024	< 0.12	< 15
248360SVH	360 248TH ST	2011-01-13	09:31	House	18		2.2	< 11	< 1.3 J	< 8.4	< 3.3	< 5.5	< 7.6	< 4.2	37	< 5.5	0.16	< 0.11	< 3.5
248360 SVBS	360 248TH ST	2011-01-13	11:21	Back		20.9	0.195	72	< 1.4	< 18	< 18	3	< 1.8	< 1.8	< 1.8	2.6	< 0.16		< 18
248360SVB	360 248TH ST	2011-01-13	11:21	Back	20		0.19	66	< 1.4 J	< 8.9	9.8	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
248360SVG	360 248TH ST	2012-07-06	14:44	Garage	20		2	< 19	< 3	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	0.024	< 0.08	< 10
248360SVGD	360 248TH ST	2012-07-06	14:44	Garage	20		2	< 19	< 3	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	0.024	< 0.08	< 10
248360SVH	360 248TH ST	2012-07-06	15:08	House	19		2.4	< 22	< 3.6	< 7.2	< 11	< 4.6	< 6.4	< 3.6	< 3	< 4.7	0.0022	< 0.078	< 12
248360SVBA	360 248TH ST	2012-07-13	13:01	Back	17		0.27	110	< 3	1100 E	16	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
					Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
					Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
244-361SVF	361 244TH ST	2009-09-22	12:12	Front	20		0.69	< 11	< 2.9	< 8.7	< 3.4	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	0.00067		4.4
244-361SVH	361 244TH ST	2010-07-02	09:16	House	21		0.22	52	< 2.3 Q	< 8.8	6.1	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00062	< 0.31	< 3.6
244-361SVG	361 244TH ST	2010-07-02	10:04	Front	20		0.81	42	< 2.3 Q	< 8.8	4.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00046	< 0.23	< 3.6
244 361 SVBA	361 244TH ST	2010-07-02	12:10	Back	4.9		8.5	< 110	< 5.3	< 88	< 35	< 57	< 80	< 44	< 38	< 58	16	0.19	< 36
244361SVB2	361 244TH ST	2010-08-06	13:01	Back	2.3		8.4	< 11000	< 620	< 8800	< 3400	< 5700	< 7900	< 4400	< 3700	< 5800	23	< 0.12	< 3600
244361SVH	361 244TH ST	2010-11-12	15:18	House	19		1.6	11	1.8 J, b	< 8.6	< 3.4	< 5.6	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 3.6
244361SVB2	361 244TH ST	2010-11-12	15:39	Back	19		2.2	12	< 0.33	< 8.7	< 3.4	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
244361SVF	361 244TH ST	2010-11-12	15:49	Front	20		0.77	< 11	< 0.34	< 8.9	< 3.5	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	8
244361SVBA	361 244TH ST	2013-08-14	09:55	Back	18		2.8	< 28	1.3 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
244361SVBAS	361 244TH ST	2013-08-14	09:55	Back		18.8	2.91	< 21 U	< 0.74 U	< 21 U	< 21 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	2.5	< 0.16 U		< 21 U
244361SVH	361 244TH ST	2013-08-14	10:00	House	18		1.9	38	2 J, b	< 8.7	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
249362SVH	362 249TH ST	2010-05-17	09:52	House	15		5.4	35	< 6.4	< 9.1	6.5	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
249362SVG	362 249TH ST	2010-05-17	10:47	Garage	11		3.2	25	< 5.6	< 8	< 3.1	< 5.2	130	< 4	3.7	< 5.2	< 0.00021	< 0.11	< 3.3
249362SVB	362 249TH ST	2010-05-17	11:48	Back	21		0.74	23	< 5.4	8.5	4.4	< 5	< 6.9	< 3.8	6.6	< 5	< 0.0002	< 0.1	< 3.2
249362SVBD	362 249TH ST	2010-05-17	11:48	Back	21		0.22	11	< 5.3	< 7.6	< 3	< 4.9	< 6.8	< 3.8	3.9	< 5	< 0.0002	< 0.1	< 3.1
249362SVB	362 249TH ST	2010-08-25	09:41	Back	18		2.7	16	< 1.3	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
249362SVB	362 249TH ST	2013-02-28	10:11	Back	20		1.4	< 29	1.9 J, b	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
249362SVBS	362 249TH ST	2013-02-28	10:11	Back		20.5	1.41	72	< 0.88 U	< 21 U	< 21 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.17 U		< 21 U
249362SVH	362 249TH ST	2013-02-28	10:30	House	19		2.2	< 27	1.3 J, b	< 8.4	< 13	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
249362SVG	362 249TH ST	2013-02-28	10:42	Garage	5.7		6	< 29	1.3 J, b	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	0.069	< 0.12	< 15
249362SVGS	362 249TH ST	2013-02-28	10:42	Garage		6.07	6.2	27	< 0.89 U	< 21 U	< 21 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.17 U		< 21 U
249363SVB	363 249TH ST	2010-10-26	13:45	Back	21		< 0.023	16	< 1.3	< 8.6	< 3.4	6.7	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 3.6
249363SVF	363 249TH ST	2010-10-26	14:31	Front	16		3.4	11	< 1.4	< 9.1	< 3.6	18	< 8.2	< 4.6	< 3.9	< 6	0.00073	< 0.12	< 3.8
249363SVH	363 249TH ST	2010-10-26	15:02	House	18		2	14	< 1.3	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
249363SVHA	363 249TH ST	2013-07-26	09:46	House	18		1.6	180	< 0.73	380	< 13	< 5.3	< 7.3	23	< 3.4	< 5.3	< 0.00022	< 0.11	< 13
249363SVB	363 249TH ST	2013-07-26	09:56	Back	21		0.24	< 28	< 0.8	< 9	< 14	39	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
249363SVF	363 249TH ST	2013-07-26	10:16	Front	18		2.6	< 28	< 0.8	< 9	< 14	18	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
248364SVH	364 248TH ST	2010-09-16	09:12	House	14		2	87	< 1.4	15	14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
248364SVG	364 248TH ST	2010-09-16	09:53	Garage	16		0.09	22	< 1.3	9	< 3.4	< 5.6	< 7.8	4.3	< 3.6	< 5.7	0.00045	< 0.11	< 3.6
248364 SVBS	364 248TH ST	2010-09-16	10:28	Back		21.5	< 0.16	41	< 1.3	< 17	< 17	< 1.7	< 1.7	< 1.7	< 1.7	2.5	< 0.16		< 17
248364SVB	364 248TH ST	2010-09-16	10:28	Back	18		0.071	27	2.8 J, b	< 8.6	< 3.4	< 5.6	< 7.8	< 4.3	< 3.6	< 5.7	0.0003	< 0.11	< 3.6
248364SVH	364 248TH ST	2013-04-04	09:56	House	19		2.5	< 27	0.73 J, b	< 8.6	< 13	< 5.5	< 7.7	< 4.3	32	< 5.6	0.00078	< 0.11	< 14
248364SVG	364 248TH ST	2013-04-04	10:22	Garage	20		1.4	< 26	< 0.54 PF	< 8.2	< 13	< 5.3	< 7.4	< 4.1	< 3.5	< 5.4	< 0.00022	< 0.11	< 14
248364SVGD	364 248TH ST	2013-04-04	10:22	Garage	20		1.4	35	< 0.54 PF	8.8	< 13	< 5.4	< 7.5	< 4.2	< 3.5	< 5.5	< 0.00022	< 0.11	< 14
248364SVB	364 248TH ST	2013-04-04	10:38	Back	22		0.078	< 27	0.57 J, b	< 8.6	< 13	< 5.5	< 7.7	< 4.3	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
249367SVH	367 249TH ST	2010-06-15	09:39	House	19		0.72	< 11	< 2.3	< 8.7	< 3.4	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
249367SVB	367 249TH ST	2010-06-15	11:27	Back	20		0.48	< 12	< 2.5	< 9.3	< 3.6	< 6	< 8.4	< 4.7	< 4	< 6.1	< 0.00025	< 0.12	< 3.9
249367SVF	367 249TH ST	2010-06-15	11:38	Front	19		0.73	58 b	< 2.4	19	18	16	< 8.2	< 4.6	4.6	< 6	< 0.00024	< 0.12	< 3.8
249 367 SVH	367 249TH ST	2010-07-29	13:29	House	19		0.76	21	< 6.4	< 9.1	5.1	< 5.9	< 8.2	4.7	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
249 367 SVB	367 249TH ST	2010-07-29	14:52	Back	21		0.25	28	< 6.2	9.6	4.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
249 367 SVF	367 249TH ST	2010-07-29	15:31	Front	19		1.2	< 11	< 6.3	9.2	< 3.5	13	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
249367SVH	367 249TH ST	2012-10-25	15:23	House	18		0.69	< 28	6.4 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00032	< 0.16	< 15
249367SVF	367 249TH ST	2012-10-25	15:27	Front	18		1.2	49	2.6 J, b	< 9.3	< 14	37	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
249367SVB	367 249TH ST	2012-10-25	16:13	Back	26		0.19	< 25	1.8 J, b	14	< 12	< 5.1	< 7.1	6.2	< 3.3	< 5.2	< 0.00029	< 0.14	< 13
249367SVB	367 249TH ST	2013-05-02	14:54	Back	21		0.27	< 26	6.9 J, b	< 8.4	< 13	< 5.4	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
249367SVH	367 249TH ST	2013-05-02	14:57	House	20		0.73	78	1.3 J, b	12	25	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
249367SVF	367 249TH ST	2013-05-02	15:28	Front	20		1.5	32	1 J, b	< 9.3	< 14	17	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
249368SVH	368 249TH ST	2010-12-01	09:39	House	17		4.6	13	1.4 J, b	< 8.8	< 3.5	< 5.7	< 8	< 4.4	< 3.8	< 5.8	< 0.00024	< 0.12	< 3.6
249368SVG	368 249TH ST	2010-12-01	10:27	Garage	16		4.8	< 11	0.92 J, b	< 9.1	< 3.6	< 5.9	28	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
249368SVGS	368 249TH ST	2010-12-01	10:27	Garage		16.7	5.31	< 18	< 1.4	< 18	< 18	< 1.8	35	< 1.8	< 1.8	1.8	< 0.16		< 18
249368SVB	368 249TH ST	2010-12-01	11:06	Back	18		2.6	12	0.73 J, b	< 9.3	< 3.6	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 3.8
249368SVBD	368 249TH ST	2010-12-01	11:06	Back	18		2.6	14	0.71 J, b	< 9.3	< 3.6	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 3.8

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
				Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
				Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
249368SVHA	368 249TH ST	2012-08-09	15:07	House	19		0.44	58	< 3	27	< 9.5	< 3.9	< 5.5	5	< 2.6	< 4	< 0.00016	< 0.08	< 10
249368SVGA	368 249TH ST	2012-08-09	15:26	Garage	16		1.8	74	< 3	6.5	< 9.5	< 3.9	45	< 3	< 2.6	< 4	< 0.00016	< 0.08	< 10
249368SVGA	368 249TH ST	2013-05-21	14:51	Garage	16		5.6	35	4.2 J, b	< 9.3	< 15	10	41	< 4.7	< 4	< 6.1	< 0.00025	< 0.12	< 15
249368SVHA	368 249TH ST	2013-05-21	15:06	House	20		2.1	< 29	< 2.6	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
249373SVH	373 249TH ST	2010-10-26	09:47	House	20		1.5	12	< 1.3	10	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
249373SVB	373 249TH ST	2010-10-26	10:28	Back	15		5.4	33	< 1.2	< 8.1	< 3.2	< 5.3	< 7.3	< 4.1	< 3.4	< 5.3	0.0028	< 0.11	< 3.4
249373SVF	373 249TH ST	2010-10-26	11:03	Front	20		0.072	16	1.6 J, b	< 8.1	< 3.2	< 5.3	< 7.3	< 4.1	< 3.4	< 5.3	< 0.00022	< 0.11	< 3.4
249373SVH	373 249TH ST	2012-04-12	10:02	House	20		1	< 18	0.81 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	0.00035	< 0.12	< 9.6
249373SVB	373 249TH ST	2012-04-12	10:17	Back	19		1.4	< 18	0.66 J, b	< 5.6	< 8.8	< 3.6	< 5	< 2.8	< 2.4	< 3.7	0.0003	< 0.12	< 9.3
249373SVBD	373 249TH ST	2012-04-12	10:17	Back	19		1.4	< 18	0.66 J, b	15	< 8.8	< 3.6	< 5	< 2.8	< 2.4	< 3.7	0.00024	< 0.12	< 9.3
249373SVF	373 249TH ST	2012-04-12	10:46	Front	20		1.1	23	0.54 J, b	< 5.7	< 9	< 3.7	< 5.2	4.4	< 2.4	< 3.8	0.00029	< 0.12	< 9.5
248374SVH	374 248TH ST	2010-11-05	13:34	House	16		2.4	27	3.1 J, b	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
248374SVHD	374 248TH ST	2010-11-05	13:34	House	16		2.5	19	2 J, b	< 8.8	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
248374SVB	374 248TH ST	2010-11-05	14:14	Back	13		4.1	12	2.1 J, b	< 9.1	< 3.6	51	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
248 374 SVF	374 248TH ST	2011-02-03	09:18	Front	21		< 0.023	41	3.4 J, b	< 8.7	4.1	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
248374SVH	374 248TH ST	2011-09-14	10:00	House	14		4.4	13	1.8 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
248374SVF	374 248TH ST	2011-09-14	10:34	Front	20		0.96	45	13 J, b	10	< 14	< 5.6	< 7.8	< 4.3	4.7	< 5.7	< 0.00023	< 0.11	< 14
248374SVB	374 248TH ST	2011-09-14	11:04	Back	12		7	13	1.6 J, b	< 9	< 14	35	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
248374SVB	374 248TH ST	2012-10-05	14:46	Back	15		4.6	< 27	4 J, b	< 8.6	< 14	54	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
248374SVBD	374 248TH ST	2012-10-05	14:46	Back	15		4.6	29	3.4 J, b	< 8.6	< 14	55	< 7.8	< 4.3	< 3.6	< 5.7	< 0.00023	< 0.11	< 14
248374SVH	374 248TH ST	2012-10-05	14:52	House	14		4.3	< 28	0.63 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
248374SVF	374 248TH ST	2012-10-05	15:25	Front	20		0.78	42	< 0.61	10	< 14	< 6	< 8.4	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
248374SVB	374 248TH ST	2013-04-09	10:09	Back	17		4.2	< 28	< 0.59	< 9	< 14	22	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
248374SVBD	374 248TH ST	2013-04-09	10:09	Back	17		4.2	< 29	< 0.6	< 9.2	< 14	21	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
248374SVH	374 248TH ST	2013-04-09	10:10	House	18		3.1	< 27	< 0.57	< 8.7	< 14	< 5.6	< 7.8	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
248374SVF	374 248TH ST	2013-04-09	10:59	Front	22		0.37	< 26	1.2 J, b	< 8.4	< 13	< 5.4	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
244377SVH	377 244TH ST	2010-08-11	13:13	House	18		1.8	29	< 6.3	10	4.2	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
244377SVF	377 244TH ST	2010-08-11	14:14	Front	20		0.17	38	< 6.2	21	7.4	< 5.7	< 7.9	< 4.4	9.9	< 5.8	< 0.00023	< 0.12	4.9
244377SVB	377 244TH ST	2010-08-11	14:58	Back	19		0.031	27	< 6.2	< 8.8	3.5	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
244377SVF	377 244TH ST	2012-06-28	15:30	Front	18		0.63	< 22	< 3.5	< 7	< 11	< 4.5	< 6.3	< 3.5	< 3	< 4.6	< 0.00016	< 0.082	< 12
244377SVFD	377 244TH ST	2012-06-28	15:30	Front	21		0.73	< 20	< 3.1	< 6.2	< 9.7	< 4	< 5.6	< 3.1	< 2.6	< 4.1	< 0.00016	< 0.082	< 10
244377SVH	377 244TH ST	2012-06-28	15:52	House	18		2.9	< 18	< 2.9	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00019	< 0.097	< 9.6
244377SVB	377 244TH ST	2012-06-28	16:04	Back	20		1.2	< 19	< 2.9	< 5.9	< 9.2	< 3.8	< 5.3	< 3	< 2.5	< 3.9	< 0.00016	< 0.078	< 9.8
249377SVH	377 249TH ST	2010-10-19	09:29	House	19		0.13	39	12 J, b	< 9.3	7.2	< 6	< 8.3	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 3.8
249377SVF	377 249TH ST	2010-10-19	10:02	Front	20		0.041	110	< 1.3	< 8.4	16	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 3.5
249377SVB	377 249TH ST	2010-10-19	10:51	Back	19		0.26	19	< 1.4	< 9	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
249377SVH	377 249TH ST	2012-08-24	10:03	House	20		0.37	< 29	0.73 J, b	< 9.1	< 14	39	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
249377SVF	377 249TH ST	2012-08-24	10:04	Front	20		0.22	30	< 0.5	< 9.5	< 15	38	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16
249377SVFD	377 249TH ST	2012-08-24	10:04	Front	20		0.23	< 30	< 0.5	< 9.5	< 15	41	< 8.5	< 4.7	< 4	< 6.2	< 0.00025	< 0.13	< 16
249377SVB	377 249TH ST	2012-08-24	10:41	Back	20		1.4	< 28	0.59 J, b	11	< 14	130	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
249377SVH	377 249TH ST	2013-05-15	09:51	House	21		0.33	< 29	0.81 J, b	< 9.2	< 14	150	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
249377SVF	377 249TH ST	2013-05-15	09:55	Front	22		0.087	68	< 0.58	< 8.8	< 14	9.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
249377SVFD	377 249TH ST	2013-05-15	09:55	Front	22		0.082	< 30	< 0.63	< 9.6	< 15	9.5	< 8.6	< 4.8	< 4	< 6.3	< 0.00025	< 0.13	< 16
249377SVB	377 249TH ST	2013-05-15	10:24	Back	21		0.62	< 28	< 0.59	< 9	< 14	90	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
249378SVBA	378 249TH ST	2011-01-17	09:28	Back	16		3.7	21	< 1.4	< 9.1	< 3.6	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 3.8
249378SVGC	378 249TH ST	2011-01-17	10:15	Garage	1.2		12	< 230	< 28	< 180	< 71	< 120	< 160	< 91	910	< 120	17	< 0.12	< 75
249378SVGCD	378 249TH ST	2011-01-17	10:15	Garage	1.4		12	< 230	< 28	< 180	< 71	< 120	< 160	< 91	920	< 120	17	< 0.12	< 75
249378SVH	378 249TH ST	2011-01-17	11:07	House	18		2.9	20	< 1.3	< 8.8	< 3.4	< 5.7	< 7.9	20	8.2	< 5.8	0.0023	< 0.12	< 3.6
249378SVBA	378 249TH ST	2011-05-12	15:30	Back	17		5.2	13	< 0.32 U,J	< 8.5	< 13	< 5.5	< 7.7	< 4.2	< 3.6	< 5.6	< 0.00023	< 0.11	< 14
249378SVBAS	378 249TH ST	2011-05-12	15:30	Back		18.1	5.83	< 17	< 0.96	< 17	< 17	4	< 1.7	< 1.7	< 1.7	2.1	< 0.15		< 17
249378SVH	378 249TH ST	2011-05-12	15:42	House	18		3.4	12	< 0.34 U,J	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
249378SVGC	378 249TH ST	2011-05-12	16:47	Garage	1.3		17	< 220	< 6.8	< 180	< 280	< 120	< 160	< 89	1200	< 120	16	< 0.12	< 300

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Oxygen	Oxygen/ Argon	Carbon Dioxide	Acetone	Naphthalene	Ethanol	2-Butanone (Methyl Ethyl Ketone)	Chloroform	Tetrachloro-ethene	Toluene	Benzene	Freon 12	Methane	Helium	Carbon Disulfide
					Units	MOL %	MOL %	MOL %	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	MOL %	MOL %	UG/M3
					Frequency of Detection	100.00%	100.00%	92.56%	52.63%	49.98%	18.72%	17.61%	16.54%	8.00%	7.84%	7.80%	6.94%	6.17%	5.34%	4.80%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
249378SVGCS	378 249TH ST	2011-05-12	16:47	Garage		0.877	18.5	< 1700	< 96	< 1700	< 1700	< 170	< 170	< 170	820	< 170	17.8		< 1700
249 378SVGC	378 249TH ST	2012-02-24	14:54	Garage	1.3		15	< 350	< 5.4	< 110	< 180	< 73	< 100	< 56	800	< 74	16	< 0.074	< 180
249378SVH	378 249TH ST	2012-02-24	15:04	House	17		4.1	< 17	4.6 J	< 5.5	< 8.6	< 3.6	< 5	< 2.8	< 2.3	< 3.6	< 0.00015	< 0.073	< 9.1
249378SVBA	378 249TH ST	2012-02-24	16:32	Back	18		4.2	< 530	9.8 J	< 170	< 260	< 110	< 150	150	< 72	< 110	0.0025	< 0.079	< 280
249378SVBAD	378 249TH ST	2012-02-24	16:32	Back	17		4.2	< 940	15 J	< 300	< 460	< 190	< 270	< 150	< 130	< 200	0.0024	< 0.079	< 490
249378SVBA	378 249TH ST	2012-03-23	09:10	Back	17		3.7	< 390	8.7 J, b	< 120	< 190	< 80	< 110	< 61	< 52	< 81	0.0036	< 0.13	< 200
249378SVBAS	378 249TH ST	2012-03-23	09:10	Back		17.4	3.75	< 460 U	< 27 U	< 460 U	< 460 U	< 46 U	< 46 U	< 46 U	< 46 U	< 46 U	< 0.16 U		< 460 U
249378SVH	378 249TH ST	2013-03-29	13:31	House	18		3.6	27	2 J, b	< 8.7	< 14	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
249378SVBA	378 249TH ST	2013-03-29	13:53	Back	19		3.3	< 31	2 J, b	< 9.8	< 15	< 6.3	< 8.8	15	< 4.1	< 6.4	< 0.00026	< 0.13	< 16
249378SVBAD	378 249TH ST	2013-03-29	13:53	Back	19		3.3	< 29	1 J, b	< 9.3	< 14	< 6	< 8.4	14	< 3.9	< 6.1	0.00027	< 0.12	< 15
249378SVGC	378 249TH ST	2013-03-29	14:10	Garage	1.3		15	< 8100	< 170	< 2600	< 4000	< 1700	< 2300	1800	62000	< 1700	15	< 0.11	< 4300
249378SVGC	378 249TH ST	2013-06-21	11:39	Garage	1.2		18	< 2900	260 J, b	< 910	< 1400	< 590	< 820	< 450	1000	< 600	14	< 0.12	< 1500
249378SVH	378 249TH ST	2013-06-21	11:48	House	17		3.9	39	1.2 J, b	< 11	< 18	< 7.3	< 10	< 5.7	< 4.8	< 7.4	< 0.0003	< 0.15	< 19
249378SVBA	378 249TH ST	2013-06-21	12:08	Back	19		3.1	< 28	< 0.8	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
249383SVB	383 249TH ST	2010-05-21	10:04	Back	20		0.052	51	81	< 8.8	7.5	< 5.7	< 7.9	< 4.4	5.4	< 5.8	< 0.00023	< 0.12	< 3.6
249383SVG	383 249TH ST	2010-05-21	11:18	Garage	20		< 0.023	46	< 5.3	< 20	< 7.8	< 13	57	< 10	< 8.5	< 13	< 0.00023	< 0.12	< 8.3
249383SVH2	383 249TH ST	2010-09-02	09:18	House	20		0.81	< 11	2 J	< 8.7	< 3.4	< 5.6	< 7.8	< 4.3	< 3.7	< 5.7	< 0.00023	< 0.12	< 3.6
249383SVB	383 249TH ST	2012-06-07	15:08	Back	20		0.77	< 19	0.48 J, b	< 5.9	< 9.2	10	< 5.3	< 3	< 2.5	< 3.9	< 0.00021	< 0.1	< 9.8
249383SVBD	383 249TH ST	2012-06-07	15:08	Back	20		0.76	< 19	0.49 J, b	< 5.9	< 9.2	11	< 5.3	5.6 j	< 2.5	< 3.9	< 0.0002	< 0.1	< 9.8
249383SVH2	383 249TH ST	2012-06-07	15:08	House	20		0.85	< 18	0.37 J, b	< 5.7	< 9	< 3.7	< 5.2	< 2.9	< 2.4	< 3.8	< 0.0002	< 0.1	< 9.5
249383SVG	383 249TH ST	2012-06-07	15:45	Garage	20		1.2	< 19	0.56 J, b	< 6.1	< 9.5	< 3.9	< 5.5	< 3	< 2.6	< 4	< 0.00021	< 0.11	< 10
249383SVH2	383 249TH ST	2013-04-18	14:58	House	22		0.66	< 27	1.6 J, b	12	< 14	< 5.6	< 7.8	15	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
249383SVG	383 249TH ST	2013-04-18	15:25	Garage	21		0.9	< 28	0.95 J, b	< 9	< 14	24	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
249383SVGD	383 249TH ST	2013-04-18	15:25	Garage	22		0.93	< 29	1.3 J, b	< 9.3	< 15	25	< 8.4	< 4.7	< 4	< 6.1	< 0.00025	< 0.12	< 15
249402SVH	402 249TH ST	2010-09-20	13:42	House	19		0.62	15	3.3 J, b	46	< 3.5	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
249402SVB	402 249TH ST	2010-09-20	14:24	Back	20		0.28	18	2.6 J, b	28	< 3.5	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 3.7
249402SVF	402 249TH ST	2010-09-20	14:59	Front	19		1.7	11	1.2 J, b	17	< 3.4	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 3.6
249 402 SVH	402 249TH ST	2012-03-22	10:14	House	21		1.2	20	0.95 J, b	< 6	< 9.3	< 3.8	< 5.4	< 3	< 2.5	< 3.9	< 0.00016	< 0.079	< 9.8
249 402 SVF	402 249TH ST	2012-03-22	10:25	Front	21		1	< 20	1.2 J, b	< 6.3	< 9.9	< 4.1	< 5.7	< 3.2	< 2.7	4.2	< 0.00017	< 0.084	< 10
249402SVFS	402 249TH ST	2012-03-22	10:25	Front		20.7	1.08	< 22 U	< 1.3 U	< 22 U	< 22 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 0.21 U		< 22 U
249 402 SVB	402 249TH ST	2012-03-22	10:51	Back	20		0.51	20	0.72 J, b	< 5.8	< 9.1	< 3.8	< 5.2	< 2.9	< 2.5	< 3.8	< 0.00016	< 0.078	< 9.6
249402SVH	402 249TH ST	2013-07-02	09:46	House	12		5.6	< 28	1.2 J, b	< 8.7	< 14	62	< 7.9	< 4.4	< 3.7	< 5.7	0.0018	< 0.12	< 14
249402SVB	402 249TH ST	2013-07-02	09:55	Back	21		0.77	< 28	< 0.78	< 8.7	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.7	< 0.00023	< 0.12	< 14
249402SVBD	402 249TH ST	2013-07-02	09:55	Back	21		0.76	< 28	0.98 J, b	< 8.8	< 14	< 5.7	< 7.9	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
249402SVF	402 249TH ST	2013-07-02	10:13	Front	20		1.8	32	2.5 J, b	< 8.4	< 13	< 5.5	< 7.6	< 4.2	< 3.6	< 5.5	< 0.00022	< 0.11	< 14
249-412SVF	412 249TH ST	2009-10-05	14:42	Front	18		3.1	130	< 3.1	< 9.2	< 3.6	< 6	30	< 4.6	< 3.9	< 6	< 0.00024		< 3.8
249412 SVH	412 249TH ST	2011-09-13	09:24	House	20		0.65	< 12	6.5 J, b	< 9.3	< 14	< 6	< 8.4	< 4.6	< 3.9	9.2	< 0.00025	< 0.12	< 15
249412 SVF	412 249TH ST	2011-09-13	10:30	Front	19		2.5	16	0.92 J, b	< 8.8	< 14	< 5.7	25	< 4.4	< 3.7	< 5.8	< 0.00023	< 0.12	< 14
249412 SVBA	412 249TH ST	2011-09-26	13:38	Back	19		2.6	< 11	1.5 J, b	< 9	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
249 412 SVH	412 249TH ST	2012-09-27	15:10	House	20		0.73	34	9.1 J, b	9.5	< 14	< 5.9	< 8.2	12	< 3.9	< 6	< 0.00024	< 0.12	< 15
249 412 SVB A	412 249TH ST	2012-09-27	15:20	Back	16		5.6	< 29	1.1 J, b	< 9.1	< 14	< 5.9	< 8.2	< 4.6	< 3.9	< 6	< 0.00024	< 0.12	< 15
249 412 SVF	412 249TH ST	2012-09-27	15:55	Front	19		2	< 29	1.4 J, b	< 9.3	< 14	< 6	18	< 4.6	< 3.9	< 6.1	< 0.00025	< 0.12	< 15
249412SVH	412 249TH ST	2013-05-22	14:58	House	20		0.79	29	4.7 J, b	< 8.9 PF	< 14	< 5.8	< 8	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
249412SVBA	412 249TH ST	2013-05-22	15:06	Back	18		4.3	39	2.6 J, b	< 9 PF	< 14	< 5.8	< 8.1	< 4.5	< 3.8	< 5.9	< 0.00024	< 0.12	< 15
249412SVF	412 249TH ST	2013-05-22	15:29	Front	19		1.9	< 26	< 2.4	< 8.3 PF	< 13	< 5.4	16	< 4.2	< 3.5	< 5.5	< 0.00022	< 0.11	< 14

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
Analyte																			
Units					UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
Frequency of Detection					4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
M24401 SVH	24401 MARBELLA AVE	2010-07-29	09:17	House	< 11	< 4	< 5	< 93 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 4.9	< 5.6	< 3.9	< 6.4	< 4	< 5.6
M24401 SVG	24401 MARBELLA AVE	2010-07-29	10:15	Garage	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	4	< 5.7
M24401 SVB	24401 MARBELLA AVE	2010-07-29	10:52	Back	< 13	< 4.8	< 5.9	< 110 N,J	< 6.7	< 5.6	< 160 N,J	< 190 N,J	< 88 N,J	< 5.9	< 6.7	< 4.7	< 7.7	< 4.7	< 6.7
M24401SVH	24401 MARBELLA AVE	2012-03-29	14:46	House	< 8	< 2.9	< 3.5	< 67	< 4	< 3.3	< 95	< 110	< 53	< 3.5	< 4	< 2.8	< 4.6	< 28	< 4
M24401SVB	24401 MARBELLA AVE	2012-03-29	15:03	Back	< 7.5	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	< 26	< 3.7
M24401SVG	24401 MARBELLA AVE	2012-03-29	15:14	Garage	< 8.1	< 2.9	< 3.6	< 68	< 4	< 3.4	< 96	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 29	< 4
M24401SVGD	24401 MARBELLA AVE	2012-03-29	15:14	Garage	< 8.1	< 2.9	< 3.6	< 68	< 4	< 3.4	< 96	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 29	< 4
N24402SVH	24402 NEPTUNE AVE	2010-07-01	14:03	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24402SVB	24402 NEPTUNE AVE	2010-07-01	14:47	Back	< 11	< 3.9	23	< 92 N,J	19	< 4.6	< 130 N,J	< 160 N,J	< 72 N,J	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	13
N24402SVG	24402 NEPTUNE AVE	2010-07-01	15:31	Garage	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24402SVB	24402 NEPTUNE AVE	2012-10-04	15:08	Back	< 14	< 5	< 6.1	< 120	< 6.9	< 5.8	< 160	< 200	< 91	< 6.1	< 6.9	< 4.8	< 7.9	< 49	< 6.9
N24402SVH	24402 NEPTUNE AVE	2012-10-04	15:13	House	< 12	4.3	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
N24402SVG	24402 NEPTUNE AVE	2012-10-04	16:03	Garage	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
N24402SVGD	24402 NEPTUNE AVE	2012-10-04	16:03	Garage	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
N24402SVHA	24402 NEPTUNE AVE	2013-04-25	10:07	House	< 10	< 3.7	< 4.5	< 86	< 5.1	< 4.3	< 120	< 140	< 68	< 4.5	< 5.1	< 3.6	< 5.9	< 36	< 5.1
N24402SVB	24402 NEPTUNE AVE	2013-04-25	10:09	Back	< 11	< 3.9	< 4.8	< 91	< 5.4	< 4.5	< 130	< 150	< 72	< 4.8	< 5.4	< 3.8	< 6.2	< 38	< 5.4
N24402SVBD	24402 NEPTUNE AVE	2013-04-25	10:09	Back	< 11	< 3.9	< 4.8	< 90	< 5.4	< 4.5	< 130	< 150	< 71	< 4.8	< 5.4	< 3.8	< 6.2	< 38	< 5.4
N24402SVG	24402 NEPTUNE AVE	2013-04-25	10:35	Garage	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
P24402SVB	24402 PANAMA AVE	2010-11-16	09:03	Back	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
P24402SVG	24402 PANAMA AVE	2010-11-16	09:36	Garage	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
P24402SVH	24402 PANAMA AVE	2010-11-16	10:18	House	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
P24402SVH	24402 PANAMA AVE	2012-12-21	09:47	House	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
P24402SVG	24402 PANAMA AVE	2012-12-21	10:08	Garage	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
P24402SVB	24402 PANAMA AVE	2012-12-21	10:14	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
P24402SVH	24402 PANAMA AVE	2013-05-14	14:48	House	< 13	< 4.8	< 5.9	< 110	< 6.7	< 5.6	< 160	< 190	< 88 PF	< 5.9	< 6.7	< 4.7	< 7.7	< 47	< 6.7
P24402SVB	24402 PANAMA AVE	2013-05-14	14:52	Back	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	120 PF	< 5.5	< 6.2	9.9	< 7.1	< 44	< 6.2
P24402SVG	24402 PANAMA AVE	2013-05-14	15:24	Garage	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	460 PF	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
R24402SVB	24402 RAVENNA AVE	2009-10-02	15:36	Back	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
R24402SVF	24402 RAVENNA AVE	2009-10-02	16:44	Front	1700 E	< 4.2	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
R24402SVB	24402 RAVENNA AVE	2010-12-09	11:14	Back	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
R24402SVF	24402 RAVENNA AVE	2010-12-09	11:54	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24402SVFS	24402 RAVENNA AVE	2010-12-09	11:54	Front	< 3.4	2	< 3.4		< 1.7	< 1.7				< 1.7	< 1.7	< 3.4	2.6	< 1.7	< 1.7
R24402SVH	24402 RAVENNA AVE	2010-12-13	13:44	House	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
R24402SVB	24402 RAVENNA AVE	2012-05-25	09:55	Back	10	< 2.9	< 3.6	< 68	< 4.1	< 3.4	< 97	< 120	< 54	< 3.6	< 4.1	< 2.8	< 4.7	< 29	< 4.1
R24402SVBD	24402 RAVENNA AVE	2012-05-25	09:55	Back	< 8.2	< 2.9	< 3.6	< 68	< 4.1	< 3.4	< 97	< 120	< 54	< 3.6	< 4.1	< 2.8	< 4.7	< 29	< 4.1
R24402SVF	24402 RAVENNA AVE	2012-05-25	10:28	Front	< 7.4	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.2	< 26	< 3.7
R24402SVH	24402 RAVENNA AVE	2012-05-25	10:54	House	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
N24403SVF	24403 NEPTUNE AVE	2010-06-25	09:26	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24403SVH	24403 NEPTUNE AVE	2010-06-25	10:04	House	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
N24403SVB	24403 NEPTUNE AVE	2010-06-25	11:12	Back	< 11	< 4	< 4.9	< 93 N,J	< 5.6	< 4.6	< 130 N,J	< 160 N,J	< 73 N,J	< 4.9	< 5.6	< 3.9	< 6.3	< 3.9	< 5.6
N24403SVH	24403 NEPTUNE AVE	2012-11-09	09:48	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24403SVB	24403 NEPTUNE AVE	2012-11-09	10:18	Back	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
N24403SVBD	24403 NEPTUNE AVE	2012-11-09	10:18	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24403SVF	24403 NEPTUNE AVE	2012-11-09	10:31	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24403SVB	24403 NEPTUNE AVE	2013-04-24	10:19	Back	< 11	< 3.9	< 4.8	< 91	< 5.4	< 4.5	< 130	< 150	< 72	< 4.8	< 5.4	< 3.8	< 6.2	< 38	< 5.4
N24403SVH	24403 NEPTUNE AVE	2013-04-24	10:29	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
N24403SVF	24403 NEPTUNE AVE	2013-04-24	10:49	Front	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
R24403SVH	24403 RAVENNA AVE	2010-06-14	14:21	House	< 13	< 4.6	< 5.7	< 110 N,J	< 6.4	< 5.3	< 150 N,J	< 180 N,J	< 84 N,J	< 5.7	< 6.4	< 4.5	< 7.3	< 4.5	< 6.4
R24403SVF	24403 RAVENNA AVE	2010-06-14	14:26	Front	< 12	< 4.4	< 5.4	< 100 N,J	< 6.1	< 5.1	< 140 N,J	< 170 N,J	< 80 N,J	< 5.4	< 6.1	< 4.3	< 7	< 4.3	< 6.1
R24403SVB	24403 RAVENNA AVE	2010-06-14	15:03	Back	< 12	< 4.1	< 5.1	< 96 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 76 N,J	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
R24403SVB	24403 RAVENNA AVE	2013-03-28	09:55	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 81	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
R24403SVBS	24403 RAVENNA AVE	2013-03-28	09:55	Back	< 4 U	< 2 U	< 4 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4 U	< 2 U	< 2 U	< 2 U

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

Analyte					Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
Units					UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
Frequency of Detection					4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
R24403SVF	24403 RAVENNA AVE	2013-03-28	10:26	Front	< 12	< 4.2	< 5.2	< 99	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.8	< 42	< 5.9
R24403SVFS	24403 RAVENNA AVE	2013-03-28	10:26	Front	< 4 U	< 2 U	< 4 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4 U	< 2 U	< 2 U	< 2 U
M24405SVF	24405 MARBELLA AVE	2010-11-10	12:36	Front	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 80	< 5.3	< 6	< 4.2	< 6.9	< 4.3	< 6
M24405SVH	24405 MARBELLA AVE	2010-11-10	14:10	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
M24405 SVF	24405 MARBELLA AVE	2012-03-22	15:21	Front	11	< 3	< 3.6	< 69	< 4.1	< 3.4	< 98	< 120	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 29	< 4.1
M24405 SVH	24405 MARBELLA AVE	2012-03-22	15:27	House	< 7.2	< 2.6	< 3.2	< 60	< 3.6	< 3	< 85	< 100	< 47	< 3.2	< 3.6	< 2.5	< 4.1	< 25	< 3.6
M24406SVB	24406 MARBELLA AVE	2010-09-17	08:58	Back	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
M24406SVG	24406 MARBELLA AVE	2010-09-17	09:39	Garage	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	190	< 75	< 5	8.5	< 4	< 6.5	< 4	< 5.7
M24406SVGD	24406 MARBELLA AVE	2010-09-17	09:39	Garage	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	8.8	< 4	< 6.5	< 4	< 5.7
M24406SVH	24406 MARBELLA AVE	2010-09-17	10:22	House	< 11	< 4.1	12	2900	< 5.7	7 b	1600	< 160	< 75	14	< 5.7	89	< 6.5	< 4	< 5.7
M24406SVG	24406 MARBELLA AVE	2012-03-09	15:13	Garage	< 7.9	4.6	< 3.5	1300	< 4	3.6	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
M24406SVH	24406 MARBELLA AVE	2012-03-09	15:40	House	< 8.1	< 2.9	< 3.6	< 67	< 4	< 3.4	< 95	< 110	< 53	< 3.6	< 4	< 2.8	9.6	< 28	< 4
M24406SVB	24406 MARBELLA AVE	2012-03-09	16:07	Back	29	4.7	< 3.2	< 61	< 3.7	< 3	< 87	< 100	58	< 3.2	< 3.7	< 2.6	14	< 26	< 3.7
M24406SVBD	24406 MARBELLA AVE	2012-03-09	16:07	Back	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	14	< 27	< 3.9
M24406SVB	24406 MARBELLA AVE	2013-08-15	13:41	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 81	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
M24406SVH	24406 MARBELLA AVE	2013-08-15	13:53	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	16	< 40	< 5.7
M24406SVG	24406 MARBELLA AVE	2013-08-15	14:22	Garage	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
N24406SVH	24406 NEPTUNE AVE	2010-04-29	13:45	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24406SVF	24406 NEPTUNE AVE	2010-04-29	14:31	Front	< 12	< 4.2	< 5.2	< 99 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.1	< 6.8	< 4.2	< 5.9
N24406SVFD	24406 NEPTUNE AVE	2010-04-29	14:31	Front	200	< 4.2	13	1600 N,J	9.1	< 4.9	580 N,J	< 170 N,J	< 78 N,J	6.5	< 5.9	< 4.1	< 6.8	< 4.2	6.1
N24406SVB	24406 NEPTUNE AVE	2010-04-29	15:22	Back	< 12	< 4.3	< 5.2	< 99 N,J	6.6	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24406SVH	24406 NEPTUNE AVE	2010-11-12	11:08	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24406SVB	24406 NEPTUNE AVE	2010-11-12	12:22	Back	< 14	< 5.1	< 6.3	< 120	< 7.1	< 5.9	< 170	< 200	< 94	< 6.3	< 7.1	< 5	< 8.1	< 5	< 7.1
N24406SVBS	24406 NEPTUNE AVE	2010-11-12	12:22	Back	< 4.2	< 2.1	< 4.2		< 2.1	< 2.1				< 2.1	< 2.1	< 4.2	< 2.1	< 2.1	< 2.1
N24406SVH	24406 NEPTUNE AVE	2012-01-26	11:02	House	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 2.8	< 4
N24406SVG	24406 NEPTUNE AVE	2012-01-26	11:44	Garage	< 10	< 3.7	< 4.5	< 85	< 5.1	< 4.3	< 120	< 140	< 67	< 4.5	< 5.1	< 3.6	< 5.8	73	< 5.1
N24406SVB	24406 NEPTUNE AVE	2012-01-26	11:59	Back	< 8.1	< 2.9	< 3.6	< 67	< 4	< 3.4	120	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 2.8	< 4
N24406SVBS	24406 NEPTUNE AVE	2012-01-26	11:59	Back	< 3.6 U	< 1.8 U	< 3.6 U		< 1.8 U	< 1.8 U				< 1.8 U	< 1.8 U	< 3.6 U	< 1.8 U	< 1.8 U	< 1.8 U
P24406SVB	24406 PANAMA AVE	2009-09-17	11:47	Back	< 13	< 4.5	< 5.6	< 100 N,J	< 6.3	< 5.3	< 150 N,J	< 180 N,J,UJ	< 83 N,J	< 5.6	7.7	< 4.4	< 7.2	< 4.5	< 6.3
P24406SVB-D	24406 PANAMA AVE	2009-09-17	11:47	Back	< 13	< 4.6	< 5.7	< 110 N,J	< 6.5	< 5.4	< 150 N,J	< 180 N,J,UJ	< 85 N,J	< 5.7	8.7	< 4.5	< 7.4	< 4.6	< 6.5
P24406SVF	24406 PANAMA AVE	2009-09-17	13:22	Front	20	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J,UJ	< 74 N,J	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
P24406SVB	24406 PANAMA AVE	2010-07-21	09:22	Back	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
P24406SVH	24406 PANAMA AVE	2010-07-21	10:50	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24406SVB	24406 PANAMA AVE	2011-02-14	10:31	Back	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	8.2	< 3.9	< 5.6
P24406SVH	24406 PANAMA AVE	2011-02-14	11:14	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
P24406SVH	24406 PANAMA AVE	2012-08-16	15:05	House	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
P24406SVF2	24406 PANAMA AVE	2012-08-16	15:24	Front	24	4.1	< 3.8	< 72	< 4.3	< 3.6	< 100	< 120	< 57	< 3.8	< 4.3	< 3	< 4.9	< 30	< 4.3
P24406SVB	24406 PANAMA AVE	2012-08-16	15:48	Back	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	11	< 27	< 3.9
P24406SVB D	24406 PANAMA AVE	2012-08-16	15:48	Back	< 7.8	3	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	10	< 27	< 3.9
P24406SVH	24406 PANAMA AVE	2013-06-07	14:42	House	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 81	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
P24406SVF2	24406 PANAMA AVE	2013-06-07	14:46	Front	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
P24406SVB	24406 PANAMA AVE	2013-06-07	15:14	Back	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	8.7	< 39	< 5.6
N24409SVG	24409 NEPTUNE AVE	2010-07-16	09:09	Garage	< 11	< 4	< 5	< 220 N,J	< 5.6	< 4.7	< 320 N,J	< 380 N,J	< 180 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24409SVB	24409 NEPTUNE AVE	2010-07-16	10:03	Back	< 12	< 4.3	< 5.2	< 230 N,J	< 5.9	< 5	< 330 N,J	< 400 N,J	< 180 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24409SVBD	24409 NEPTUNE AVE	2010-07-16	10:03	Back	< 12	< 4.3	< 5.2	< 240 N,J	< 5.9	< 5	< 330 N,J	< 400 N,J	< 180 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24409SVH	24409 NEPTUNE AVE	2012-05-04	09:58	House	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	140	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
N24409SVG	24409 NEPTUNE AVE	2012-05-04	10:05	Garage	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
N24409SVGS	24409 NEPTUNE AVE	2012-05-04	10:05	Garage	< 3.5 U	< 1.7 U	< 3.5 U		< 1.7 U	< 1.7 U				< 1.7 U	< 1.7 U	< 3.5 U	< 1.7 U	< 1.7 U	< 1.7 U
N24409SVB	24409 NEPTUNE AVE	2012-05-04	10:39	Back	< 7.3	< 2.6	< 3.2	< 61	< 3.7	< 3	< 87	< 100	< 48	< 3.2	< 3.7	< 2.6	< 4.2	< 26	< 3.7
N24409SVBS	24409 NEPTUNE AVE	2012-05-04	10:39	Back	< 3.3 U	< 1.6 U	< 3.3 U		< 1.6 U	< 1.6 U				< 1.6 U	< 1.6 U	< 3.3 U	< 1.6 U	< 1.6 U	< 1.6 U
N24409SVB	24409 NEPTUNE AVE	2013-07-11	15:40	Back	< 12	< 4.5	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.4	< 7.1	< 44	< 6.2
N24409SVH	24409 NEPTUNE AVE	2013-07-11	15:43	House	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.9	< 42	< 6

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
				Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
				Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
N24409SVG	24409 NEPTUNE AVE	2013-07-11	16:02	Garage	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
R24409SVH	24409 RAVENNA AVE	2010-08-04	09:03	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.7	< 130 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24409SVB	24409 RAVENNA AVE	2010-08-04	09:44	Back	< 12	< 4.3	< 5.3	< 100 N,J	< 6	< 5	< 140 N,J	< 170 N,J	< 79 N,J	< 5.3	< 6	< 4.2	< 6.8	< 4.2	< 6
R24409SVG	24409 RAVENNA AVE	2010-08-04	10:21	Garage	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.7	< 130 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24409SVH	24409 RAVENNA AVE	2013-03-21	14:41	House	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 80	< 5.3	< 6	< 4.2	< 6.9	< 43	< 6
R24409SVG	24409 RAVENNA AVE	2013-03-21	14:53	Garage	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
R24409SVGD	24409 RAVENNA AVE	2013-03-21	14:53	Garage	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
R24409SVB	24409 RAVENNA AVE	2013-03-21	15:04	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 80	< 5.3	< 6	< 4.2	< 6.9	< 43	< 6
R24409SVH	24409 RAVENNA AVE	2013-08-09	14:35	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24409SVB	24409 RAVENNA AVE	2013-08-09	15:04	Back	< 12	< 4.5	< 5.5	< 100	< 6.3	< 5.2	< 150	< 180	< 82	< 5.5	< 6.3	< 4.4	< 7.2	< 44	< 6.3
R24409SVG	24409 RAVENNA AVE	2013-08-09	15:08	Garage	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
P24410SVH	24410 PANAMA AVE	2010-07-30	14:06	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24410SVB	24410 PANAMA AVE	2010-07-30	14:58	Back	< 12	< 4.3	7.5	< 99 N,J	7.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	6.2
P24410SVG	24410 PANAMA AVE	2010-07-30	15:02	Garage	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24410SVGS	24410 PANAMA AVE	2010-07-30	15:02	Garage	< 3.5	< 1.7	< 3.5		< 1.7	< 1.7				< 1.7	< 1.7	< 3.5	< 1.7	< 1.7	< 1.7
P24410SVH	24410 PANAMA AVE	2012-07-19	09:52	House	< 8	< 2.9	< 3.5	< 67	< 4 PF	< 3.3	< 95	< 110	< 53	< 3.5	< 4	< 2.8	< 4.6	< 28	< 4
P24410SVG	24410 PANAMA AVE	2012-07-19	09:53	Garage	< 8.2	< 2.9	< 3.6	< 68	< 4.1 PF	< 3.4	< 97	< 120	< 54	< 3.6	< 4.1	< 2.8	< 4.7	< 29	< 4.1
P24410SVGD	24410 PANAMA AVE	2012-07-19	09:53	Garage	< 8.2	< 2.9	< 3.6	< 68	< 4.1 PF	< 3.4	< 97	< 120	< 54	< 3.6	< 4.1	< 2.8	< 4.7	< 29	< 4.1
P24410SVB	24410 PANAMA AVE	2012-07-19	10:25	Back	< 7.4	< 2.6	< 3.2	< 61	< 3.7 PF	< 3.1	< 87	< 100	< 48	< 3.2	< 3.7	< 2.6	< 4.2	< 26	< 3.7
M24411SVH	24411 MARBELLA AVE	2010-09-13	13:36	House	27	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	8.2
M24411SVF	24411 MARBELLA AVE	2010-09-13	14:19	Front	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 4.4	< 6.2
M 24411 SVB2	24411 MARBELLA AVE	2011-02-03	13:41	Back	< 12	6.1	27	< 97	15	< 4.8	< 140	< 160	< 77	7.5	< 5.8	< 4.1	< 6.6	< 4.1	13
M24411SVF	24411 MARBELLA AVE	2012-04-27	13:58	Front	< 7.7	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 91	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24411SVFD	24411 MARBELLA AVE	2012-04-27	13:58	Front	< 7.7	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 91	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24411SVB2	24411 MARBELLA AVE	2012-04-27	14:24	Back	< 7.2	< 2.6	< 3.2	< 60	< 3.6	< 3	< 85	< 100	< 47	< 3.2	< 3.6	< 2.5	< 4.1	< 25	< 3.6
P24411SVH	24411 PANAMA AVE	2010-07-06	09:31	House	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
P24411SVG	24411 PANAMA AVE	2010-07-06	10:24	Garage	< 11	< 4.1	190	< 95 N,J	32	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	22	< 5.7	< 4	< 6.5	< 4	29
P24411SVB	24411 PANAMA AVE	2010-07-06	11:08	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24411SVH	24411 PANAMA AVE	2012-12-14	10:07	House	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 39	< 5.5
P24411SVB	24411 PANAMA AVE	2012-12-14	10:13	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
P24411SVBD	24411 PANAMA AVE	2012-12-14	10:13	Back	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
P24411SVG	24411 PANAMA AVE	2012-12-14	10:50	Garage	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.3	< 39	< 5.6
P24411SVG	24411 PANAMA AVE	2013-05-07	10:15	Garage	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
P24411SVHA	24411 PANAMA AVE	2013-05-07	10:35	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
P24411SVB	24411 PANAMA AVE	2013-05-07	10:55	Back	< 11	< 4	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 73	< 4.9	< 5.5	< 3.9	< 6.3	< 39	< 5.5
P24411SVBD	24411 PANAMA AVE	2013-05-07	10:55	Back	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 39	< 5.5
N24413SVH	24413 NEPTUNE AVE	2010-11-01	09:20	House	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
N24413SVHD	24413 NEPTUNE AVE	2010-11-01	09:20	House	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
N24413SVF	24413 NEPTUNE AVE	2010-11-01	10:01	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
N24413SVB	24413 NEPTUNE AVE	2010-11-01	10:34	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24413SVB	24413 NEPTUNE AVE	2012-10-11	14:59	Back	< 12	< 4.4	< 5.4	1300	< 6.1	< 5.1	1900	< 170	< 80	18	< 6.1	< 4.2	< 6.9	< 43	< 6.1
N24413SVH	24413 NEPTUNE AVE	2012-10-11	15:15	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
N24413SVHD	24413 NEPTUNE AVE	2012-10-11	15:15	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
N24413SVF	24413 NEPTUNE AVE	2012-10-11	15:34	Front	< 13	32	8.7	2200 EZ	< 6.3	38	9900 EZ	59000 EZ	340	31	< 6.3	< 4.4	< 7.2	< 45	< 6.3
N24413 SVH	24413 NEPTUNE AVE	2013-05-31	14:46	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
N24413SVHS	24413 NEPTUNE AVE	2013-05-31	14:46	House	< 20 U	2.4	< 4 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4 U	< 2 U	< 2 U	< 2 U
N24413 SVB	24413 NEPTUNE AVE	2013-05-31	15:09	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
N24413 SVF	24413 NEPTUNE AVE	2013-05-31	15:22	Front	< 12	< 4.5	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.4	< 7.1	< 44	< 6.2
R24413SVH	24413 RAVENNA AVE	2010-07-12	09:12	House	< 12	< 4.2	< 5.2	< 99 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.1	< 6.8	< 4.2	< 5.9
R24413SVG	24413 RAVENNA AVE	2010-07-12	09:55	Garage	< 12	< 4.2	< 5.2	< 99 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.1	< 6.8	< 4.2	< 5.9
R24413SVB	24413 RAVENNA AVE	2010-07-12	10:38	Back	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 4	8.9	< 4	< 5.6
R24413SVG	24413 RAVENNA AVE	2012-09-20	14:50	Garage	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
				Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
				Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
R24413SVGD	24413 RAVENNA AVE	2012-09-20	14:50	Garage	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
R24413SVH	24413 RAVENNA AVE	2012-09-20	15:06	House	< 11	4.2	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24413SVB	24413 RAVENNA AVE	2012-09-20	15:31	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
R24413SVG	24413 RAVENNA AVE	2013-05-10	14:45	Garage	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75 PF	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24413SVH	24413 RAVENNA AVE	2013-05-10	14:45	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76 PF	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
R24413SVB	24413 RAVENNA AVE	2013-05-10	15:14	Back	< 13	< 4.6	< 5.7	< 110	< 6.4	< 5.3	< 150	< 180	< 84 PF	< 5.7	< 6.4	< 4.5	8.8	< 45	< 6.4
N24416SVBA	24416 NEPTUNE AVE	2011-01-21	09:15	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24416SVF	24416 NEPTUNE AVE	2011-01-21	10:01	Front	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24416SVFD	24416 NEPTUNE AVE	2011-01-21	10:01	Front	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24416SVH	24416 NEPTUNE AVE	2011-01-21	11:00	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24416SVH	24416 NEPTUNE AVE	2012-07-13	15:12	House	< 8.4	< 3	< 3.7	< 70	< 4.2	< 3.5	< 100	< 120	< 55	< 3.7	< 4.2	< 2.9	< 4.8	< 30	< 4.2
N24416SVF	24416 NEPTUNE AVE	2012-07-13	15:37	Front	12	< 2.9	< 3.6	< 67	< 4	< 3.4	< 95	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 28	< 4
P24416SVH	24416 PANAMA AVE	2010-09-13	08:57	House	< 11	< 3.9	< 4.8	< 90	< 5.4	< 4.5	< 130	< 150	< 71	< 4.8	< 5.4	< 3.8	< 6.2	< 3.8	< 5.4
P24416SVF	24416 PANAMA AVE	2010-09-13	09:32	Front	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
P24416SVFS	24416 PANAMA AVE	2010-09-13	09:32	Front	5.1	< 1.7	< 3.4		< 1.7	< 1.7				< 1.7	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7
P24416SVB	24416 PANAMA AVE	2010-09-13	10:13	Back	< 12	4.2 J	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24416SVF	24416 PANAMA AVE	2012-05-18	09:55	Front	< 8.2	< 2.9	< 3.6	< 68	< 4.1	< 3.4	< 97	< 120	< 54	< 3.6	< 4.1	< 2.8	< 4.7	< 29	< 4.1
P24416SVFD	24416 PANAMA AVE	2012-05-18	09:55	Front	< 8.1	< 2.9	< 3.6	< 68	< 4	< 3.4	< 96	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 29	< 4
P24416SVH	24416 PANAMA AVE	2012-05-18	10:15	House	< 7.5	< 2.7	< 3.3	< 63	< 3.8	< 3.1	< 89	< 110	< 50	< 3.3	< 3.8	< 2.6	< 4.3	< 26	< 3.8
P24416SVB	24416 PANAMA AVE	2012-05-18	10:44	Back	< 7.7	< 2.8	< 3.4	< 64	< 3.8	< 3.2	< 91	< 110	< 51	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
R24416SVF	24416 RAVENNA AVE	2009-09-19	14:20	Front	9.8	< 3.3	5	< 76 N,J	< 4.6	< 3.8	< 110 N,J	< 130 N,J,UJ	< 60 N,J	< 4	< 4.6	< 3.2	< 5.2	< 3.2	< 4.6
R24416SVB	24416 RAVENNA AVE	2009-09-19	15:16	Back	< 11	< 4	< 4.9	< 93 N,J	< 5.6	< 4.6	< 130 N,J	< 160 N,J,UJ	< 73 N,J	< 4.9	< 5.6	< 3.9	8.6	< 3.9	< 5.6
R24416SVB	24416 RAVENNA AVE	2010-07-26	09:24	Back	19	< 4.1	9	< 95 N,J	6.4 PE	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	6.9	< 5.7
R24416SVH	24416 RAVENNA AVE	2010-07-26	10:00	House	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
R24416SVF	24416 RAVENNA AVE	2010-07-26	10:40	Front	< 9.9	< 3.6	< 4.4	< 83 N,J	7.3 PE	< 4.1	< 120 N,J	< 140 N,J	< 65 N,J	< 4.4	24	< 3.5	< 5.7	< 3.5	< 5
R24416SVF	24416 RAVENNA AVE	2010-10-29	10:10	Front	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
R24416SVH	24416 RAVENNA AVE	2013-02-01	09:44	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24416SVB	24416 RAVENNA AVE	2013-02-01	09:54	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	19	< 42	< 5.9
R24416SVBD	24416 RAVENNA AVE	2013-02-01	09:54	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	17	< 41	< 5.8
R24416SVF2	24416 RAVENNA AVE	2013-02-01	10:17	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
R24416SVH	24416 RAVENNA AVE	2013-07-19	09:41	House	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
R24416SVF2	24416 RAVENNA AVE	2013-07-19	09:45	Front	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 44	< 6.2
R24416SVF2D	24416 RAVENNA AVE	2013-07-19	09:45	Front	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 44	< 6.2
R24416SVB	24416 RAVENNA AVE	2013-07-19	10:23	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24419SVH	24419 NEPTUNE AVE	2010-06-16	09:13	House	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
N24419SVF	24419 NEPTUNE AVE	2010-06-16	10:13	Front	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
N24419SVB	24419 NEPTUNE AVE	2010-06-16	11:03	Back	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24419SVH	24419 NEPTUNE AVE	2012-08-03	09:46	House	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
N24419SVF	24419 NEPTUNE AVE	2012-08-03	10:11	Front	< 11	< 3.8	< 4.7	< 89	< 5.4	< 4.5	< 130	< 150	< 70	< 4.7	< 5.4	< 3.8	< 6.1	< 38	< 5.4
N24419SVFS	24419 NEPTUNE AVE	2012-08-03	10:11	Front	< 21 U	< 2.1 U	< 4.2 U		< 2.1 U	< 2.1 U				< 2.1 U	< 2.1 U	< 4.2 U	< 2.1 U	< 2.1 U	< 2.1 U
N24419SVB	24419 NEPTUNE AVE	2012-08-03	10:31	Back	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
N24419SVBS	24419 NEPTUNE AVE	2012-08-03	10:31	Back	< 21 U	< 2.1 U	< 4.1 U		< 2.1 U	< 2.1 U				< 2.1 U	< 2.1 U	< 4.1 U	< 2.1 U	< 2.1 U	< 2.1 U
N24419SVH	24419 NEPTUNE AVE	2013-05-29	14:50	House	< 7.6	< 2.7	< 3.3	< 63	< 3.8	< 3.2	< 90	< 110	< 50	< 3.3	< 3.8	< 2.6	< 4.3	< 27	< 3.8
N24419SVB	24419 NEPTUNE AVE	2013-05-29	14:52	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
N24419SVBS	24419 NEPTUNE AVE	2013-05-29	14:52	Back	< 20 U	< 2 U	< 4 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4 U	< 2 U	< 2 U	< 2 U
N24419SVF	24419 NEPTUNE AVE	2013-05-29	15:14	Front	< 12	< 4.2	< 5.2	< 99	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.8	< 42	< 5.9
R24419SVB	24419 RAVENNA AVE	2009-09-21	15:24	Back	< 7.6	< 2.7	< 3.4	< 64 N,J	< 3.8	< 3.2	< 90 N,J	< 110 J,N,UJ	< 50 N,J	< 3.4	< 3.8	< 2.7	< 4.4	< 2.7	< 3.8
R24419SVF	24419 RAVENNA AVE	2009-09-21	16:49	Front	< 9.4	< 3.4	< 4.1	< 78 N,J	< 4.7	< 3.9	< 110 N,J	< 130 J,N,UJ	< 62 N,J	< 4.1	< 4.7	< 3.3	< 5.4	< 3.3	< 4.7
R24419SVF	24419 RAVENNA AVE	2010-07-12	14:47	Front	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
R24419SVB	24419 RAVENNA AVE	2010-07-12	15:27	Back	< 12	< 4.2	< 5.2	< 99 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.1	< 6.8	< 4.2	< 5.9
R24419 SVHA	24419 RAVENNA AVE	2011-02-09	14:06	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
R24419 SVF	24419 RAVENNA AVE	2011-02-09	14:38	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
					Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
					Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
R24419 SVB	24419 RAVENNA AVE	2011-02-09	15:19	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
R24419SVF	24419 RAVENNA AVE	2012-06-15	14:37	Front	< 7.7	< 2.8	< 3.4	< 64	< 3.8	< 3.2	< 91	< 110	< 51	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
R24419SVFD	24419 RAVENNA AVE	2012-06-15	14:37	Front	< 7.7	< 2.8	< 3.4	< 64	< 3.8	< 3.2	< 91	< 110	< 51	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
R24419SVB	24419 RAVENNA AVE	2012-06-15	14:54	Back	< 8.1	< 2.9	< 3.6	< 68	< 4	< 3.4	< 96	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 29	< 4
R24419SVHA	24419 RAVENNA AVE	2012-06-15	15:19	House	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
R24419SVHA	24419 RAVENNA AVE	2013-04-12	14:47	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76 PF	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
R24419SVF	24419 RAVENNA AVE	2013-04-12	14:52	Front	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77 PF	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
R24419SVB	24419 RAVENNA AVE	2013-04-12	15:19	Back	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77 PF	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
P24420SVB	24420 PANAMA AVE	2010-09-15	14:19	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24420SVFA	24420 PANAMA AVE	2011-02-17	13:51	Front	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
P24420SVB	24420 PANAMA AVE	2011-02-17	14:25	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24420SVBD	24420 PANAMA AVE	2011-02-17	14:25	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24420SVB	24420 PANAMA AVE	2012-12-07	10:00	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
P24420SVHA	24420 PANAMA AVE	2012-12-07	10:23	House	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 39	< 5.5
P24420SVFA	24420 PANAMA AVE	2012-12-07	10:56	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
P24420SVB	24420 PANAMA AVE	2013-08-01	09:57	Back	< 12	< 4.2	< 5.2	< 99	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.8	< 42	< 5.9
P24420SVBS	24420 PANAMA AVE	2013-08-01	09:57	Back	< 21 U	< 2.1 U	< 4.1 U		< 2.1 U	< 2.1 U				< 2.1 U	< 2.1 U	< 4.1 U	< 2.1 U	< 2.1 U	< 2.1 U
P24420SVHA	24420 PANAMA AVE	2013-08-01	10:03	House	< 11	< 4	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 73	< 4.9	< 5.5	< 3.9	< 6.3	< 39	< 5.5
P24420SVFA	24420 PANAMA AVE	2013-08-01	10:26	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
P24421SVB	24421 PANAMA AVE	2010-10-19	13:50	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24421SVBD	24421 PANAMA AVE	2010-10-19	13:50	Back	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
P24421SVF	24421 PANAMA AVE	2010-10-19	14:27	Front	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
P24421SVHA	24421 PANAMA AVE	2011-03-03	13:34	House	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
P24421SVB	24421 PANAMA AVE	2011-03-03	15:03	Back	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
P24421SVB	24421 PANAMA AVE	2013-03-14	09:48	Back	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
P24421SVBS	24421 PANAMA AVE	2013-03-14	09:48	Back	< 20 U	< 2 U	< 4.1 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4.1 U	< 2 U	< 2 U	< 2 U
P24421SVHA	24421 PANAMA AVE	2013-03-14	10:02	House	< 11	< 3.8	< 4.7	< 89	< 5.4	< 4.5	< 130	< 150	< 70	< 4.7	< 5.4	< 3.8	< 6.1	< 38	< 5.4
P24421SVF	24421 PANAMA AVE	2013-03-14	10:29	Front	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.4	< 39	< 5.6
P24421SVFS	24421 PANAMA AVE	2013-03-14	10:29	Front	< 19 U	< 1.9 U	< 3.9 U		< 1.9 U	< 1.9 U				< 1.9 U	< 1.9 U	< 3.9 U	< 1.9 U	< 1.9 U	< 1.9 U
P24421SVB	24421 PANAMA AVE	2013-08-02	11:25	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
P24421SVHA	24421 PANAMA AVE	2013-08-02	11:51	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
P24421SVF	24421 PANAMA AVE	2013-08-02	12:15	Front	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
M24422SVB	24422 MARBELLA AVE	2010-09-15	09:47	Back	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
M24422SVF	24422 MARBELLA AVE	2010-09-15	10:20	Front	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
M24422SVFS	24422 MARBELLA AVE	2010-09-15	10:20	Front	< 3.5	< 1.7	< 3.5		< 1.7	< 1.7				< 1.7	< 1.7	< 3.5	< 1.7	< 1.7	< 1.7
M24422SVH	24422 MARBELLA AVE	2010-09-15	11:34	House	< 11	< 4	5.4	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
M24422SVH	24422 MARBELLA AVE	2012-07-12	10:05	House	< 7.9	< 2.8	< 3.5	< 66	< 4 PF	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
M24422SVB	24422 MARBELLA AVE	2012-07-12	10:13	Back	< 8.1	< 2.9	< 3.6	< 67	< 4 PF	< 3.4	< 95	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 28	< 4
M24422SVBS	24422 MARBELLA AVE	2012-07-12	10:13	Back	< 21 U	< 2.1 U	< 4.1 U		< 2.1 U	< 2.1 U				< 2.1 U	< 2.1 U	< 4.1 U	< 2.1 U	< 2.1 U	< 2.1 U
M24422SVF	24422 MARBELLA AVE	2012-07-12	10:57	Front	< 7.8	< 2.8	< 3.4	< 65	< 3.9 PF	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
M24422SVFS	24422 MARBELLA AVE	2012-07-12	10:57	Front	< 20 U	< 2 U	< 3.9 U		< 2 U	< 2 U				< 2 U	< 2 U	< 3.9 U	< 2 U	< 2 U	< 2 U
N24422SVB	24422 NEPTUNE AVE	2009-09-21	11:40	Back	< 13	< 4.6	< 5.7	< 110 J,N	< 6.5	< 5.4	< 150 J,N	< 180 J,N,UJ	< 85 J,N	< 5.7	< 6.5	< 4.5	< 7.4	< 4.6	< 6.5
N24422SVF	24422 NEPTUNE AVE	2009-09-21	12:50	Front	< 12	< 4.3	< 5.2	< 99 J,N	< 5.9	< 5	< 140 J,N	< 170 J,N,UJ	< 78 J,N	< 5.2	6.3	< 4.2	< 6.8	< 4.2	< 5.9
N24422SVH	24422 NEPTUNE AVE	2010-07-09	09:27	House	< 11	6.9	46	< 95 N,J	43	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	6.8	< 5.7	< 4	< 6.5	< 4	28
N24422SVF	24422 NEPTUNE AVE	2010-07-09	10:12	Front	< 12	< 4.2	< 5.2	< 98 N,J	< 5.8	< 4.9	< 140 N,J	< 160 N,J	< 77 N,J	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
N24422SVB	24422 NEPTUNE AVE	2010-07-09	10:51	Back	< 12	< 4.2	< 5.2	< 98 N,J	< 5.8	< 4.9	< 140 N,J	< 160 N,J	< 77 N,J	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
N24422SVB	24422 NEPTUNE AVE	2011-01-20	15:21	Back	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 4.4	< 6.2
N24422SVBD	24422 NEPTUNE AVE	2011-01-20	15:21	Back	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 4.4	< 6.2
N24422SVH	24422 NEPTUNE AVE	2011-01-20	15:38	House	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24422SVF	24422 NEPTUNE AVE	2011-01-20	15:58	Front	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
N24422SVH	24422 NEPTUNE AVE	2013-08-08	09:54	House	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 40	< 5.6
N24422SVB	24422 NEPTUNE AVE	2013-08-08	09:58	Back	< 12	< 4.5	< 5.5	< 100	< 6.3	< 5.2	< 150	< 180	< 82	< 5.5	< 6.3	< 4.4	< 7.2	< 44	< 6.3

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

Analyte					Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
Units					UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
Frequency of Detection					4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
N24422SVBS	24422 NEPTUNE AVE	2013-08-08	09:58	Back	< 22 U	< 2.2 U	< 4.3 U		< 2.2 U	< 2.2 U				< 2.2 U	< 2.2 U	< 4.3 U	< 2.2 U	< 2.2 U	< 2.2 U
N24422SVF	24422 NEPTUNE AVE	2013-08-08	10:22	Front	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 42	< 6
R24422SVH	24422 RAVENNA AVE	2011-01-19	09:32	House	< 16	< 5.7	< 7	< 130	< 7.9	< 6.6	< 190	< 220	< 100	< 7	< 7.9	< 5.5	< 9	< 5.6	< 7.9
R24422SVBA	24422 RAVENNA AVE	2011-01-19	10:20	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
R24422SVF	24422 RAVENNA AVE	2011-01-19	10:57	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24422SVFD	24422 RAVENNA AVE	2011-01-19	10:57	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24422SVBA	24422 RAVENNA AVE	2012-12-20	09:57	Back	< 24	< 8.5	< 10	< 200	< 12	< 9.9	< 280	< 340	< 160	< 10	< 12	< 8.3	< 14	< 84	< 12
R24422SVBAD	24422 RAVENNA AVE	2012-12-20	09:57	Back	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
R24422SVH	24422 RAVENNA AVE	2012-12-20	10:11	House	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
R24422SVF	24422 RAVENNA AVE	2012-12-20	10:35	Front	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 40	< 5.6
R24422SVBA	24422 RAVENNA AVE	2013-06-21	09:45	Back	< 12	< 4.4	< 5.4	< 100	< 6.2	< 5.1	< 150	< 170	< 81	< 5.4	< 6.2	< 4.3	< 7	< 44	< 6.2
R24422SVBAD	24422 RAVENNA AVE	2013-06-21	09:45	Back	< 12	< 4.5	< 5.5	< 100	< 6.3	< 5.2	< 150	< 180	< 82	< 5.5	< 6.3	< 4.4	< 7.2	< 44	< 6.3
R24422SVH	24422 RAVENNA AVE	2013-06-21	09:45	House	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.3	< 39	< 5.6
R24422SVF	24422 RAVENNA AVE	2013-06-21	10:11	Front	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
M24423SVH	24423 MARBELLA AVE	2010-06-02	13:55	House	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
M24423SVB	24423 MARBELLA AVE	2010-06-02	14:36	Back	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24423SVG	24423 MARBELLA AVE	2010-06-02	15:41	Garage	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24423SVG	24423 MARBELLA AVE	2012-06-21	10:00	Garage	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
M24423SVGS	24423 MARBELLA AVE	2012-06-21	10:00	Garage	< 3.6 U	< 1.8 U	< 3.6 U		< 1.8 U	< 1.8 U				< 1.8 U	< 1.8 U	< 3.6 U	< 1.8 U	< 1.8 U	< 1.8 U
M24423SVH	24423 MARBELLA AVE	2012-06-21	10:06	House	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24423SVB	24423 MARBELLA AVE	2012-06-21	10:52	Back	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
M24423SVBS	24423 MARBELLA AVE	2012-06-21	10:52	Back	< 3.5 U	< 1.7 U	< 3.5 U		< 1.7 U	< 1.7 U				< 1.7 U	< 1.7 U	< 3.5 U	< 1.7 U	< 1.7 U	< 1.7 U
N24423SVH	24423 NEPTUNE AVE	2010-09-23	14:34	House	17000 E	630	< 12	1700	< 14	860	1400	1800	15000	< 12	< 14	23	< 16	550	< 14
N24423SVF	24423 NEPTUNE AVE	2010-09-23	15:18	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24423SVB	24423 NEPTUNE AVE	2010-09-23	16:01	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24423SVH	24423 NEPTUNE AVE	2011-01-12	11:21	House	< 12	7	< 5.2	< 99	< 5.9	5.1	< 140	< 170	100	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24423SVHD	24423 NEPTUNE AVE	2011-01-12	11:21	House	< 12	6.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	100	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24423SVF	24423 NEPTUNE AVE	2011-10-26	12:54	Front	< 8.3	< 3	< 3.7	< 69	< 4.2	< 3.5	< 98	< 120	< 55	< 3.7	< 4.2	< 2.9	< 4.7	< 2.9	< 4.2
N24423SVH	24423 NEPTUNE AVE	2011-10-26	13:44	House	< 7.8	17	16	220	4.5	9.3	< 92	< 110	130	4.2	< 3.9	8.8	< 4.4	< 2.7	5.4
N24423SVHD	24423 NEPTUNE AVE	2011-10-26	13:44	House	< 7.9	< 2.8	< 3.5	< 66	< 3.9	< 3.3	< 93	< 110	< 52	< 3.5	< 3.9	< 2.8	< 4.5	< 2.8	< 3.9
N24423SVB	24423 NEPTUNE AVE	2011-10-26	14:24	Back	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 2.8	< 4
N24423SVH	24423 NEPTUNE AVE	2012-10-12	15:02	House	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
N24423SVB	24423 NEPTUNE AVE	2012-10-12	15:21	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
N24423SVBD	24423 NEPTUNE AVE	2012-10-12	15:21	Back	13	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
N24423SVF	24423 NEPTUNE AVE	2012-10-12	15:43	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
N24423SVB	24423 NEPTUNE AVE	2013-05-08	14:55	Back	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76 PF	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
N24423SVH	24423 NEPTUNE AVE	2013-05-08	15:20	House	< 13	< 4.7	< 5.8	< 110	< 6.6	< 5.5	< 160	< 190	< 87 PF	< 5.8	< 6.6	< 4.6	< 7.6	< 47	< 6.6
N24423SVF	24423 NEPTUNE AVE	2013-05-08	15:28	Front	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76 PF	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
R24423SVB	24423 RAVENNA AVE	2009-09-24	09:10	Back	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 UJ,N,J	< 74 N,J	< 5	6	< 3.9	< 6.4	< 4	< 5.6
R24423SVF	24423 RAVENNA AVE	2009-09-24	10:25	Front	< 12	< 4.4	< 5.5	< 100 N,J	< 6.2	< 5.2	< 150 N,J	< 180 UJ,N,J	< 82 N,J	< 5.5	< 6.2	< 4.4	< 7.1	< 4.4	< 6.2
R24423SVFD	24423 RAVENNA AVE	2009-09-24	10:25	Front	< 12	< 4.4	< 5.5	< 100 N,J	< 6.2	< 5.2	< 150 N,J	< 180 UJ,N,J	< 82 N,J	< 5.5	< 6.2	< 4.4	< 7.1	< 4.4	< 6.2
R24423SVB	24423 RAVENNA AVE	2012-10-26	14:39	Back	< 13	< 4.5	< 5.6	< 100	< 6.3	< 5.3	< 150	< 180	< 83	< 5.6	< 6.3	< 4.4	< 7.2	< 45	< 6.3
R24423SVH	24423 RAVENNA AVE	2012-10-26	14:55	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24423SVF	24423 RAVENNA AVE	2012-10-26	15:08	Front	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
R24423SVB	24423 RAVENNA AVE	2013-07-18	09:44	Back	< 11	< 3.9	< 4.8	< 91	< 5.4	< 4.5	< 130	< 150	< 72	< 4.8	< 5.4	< 3.8	< 6.2	< 38	< 5.4
R24423SVBD	24423 RAVENNA AVE	2013-07-18	09:44	Back	< 11	< 3.9	< 4.8	< 91	< 5.5	< 4.6	< 130	< 160	< 72	< 4.8	< 5.5	< 3.8	< 6.3	< 39	< 5.5
R24423SVH	24423 RAVENNA AVE	2013-07-18	09:49	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24423SVF	24423 RAVENNA AVE	2013-07-18	10:04	Front	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
M24426SVB	24426 MARBELLA AVE	2009-09-18	12:32	Back	< 14	< 5.1	< 6.3	< 120 N,J	< 7.1	< 5.9	< 170 N,J	< 200 UJ	< 94 N,J	< 6.3	< 7.1	< 5	< 8.1	< 5	< 7.1
M24426SVF	24426 MARBELLA AVE	2009-09-21	10:04	Front	< 12	< 4.2	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 J,N,UJ	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
M24426SVH	24426 MARBELLA AVE	2011-10-06	13:43	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24426SVHD	24426 MARBELLA AVE	2011-10-06	13:43	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
Analyte																			
Units					UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
Frequency of Detection					4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
M24426SVF	24426 MARBELLA AVE	2011-10-06	14:23	Front	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 4.3	< 6.1
M24426SVB	24426 MARBELLA AVE	2011-10-06	14:53	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24426SVH	24426 MARBELLA AVE	2012-02-23	14:59	House	< 8.2	< 3	< 3.6	< 69	< 4.1	< 3.4	< 98	< 120	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 2.9	< 4.1
M24426SVF	24426 MARBELLA AVE	2012-02-23	15:36	Front	< 7.8	< 2.8	< 3.4	< 65	5.7	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 2.7	< 3.9
M24426SVFD	24426 MARBELLA AVE	2012-02-23	15:36	Front	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 2.7	< 3.9
M24426SVB	24426 MARBELLA AVE	2012-02-23	16:17	Back	< 7.5	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	< 2.6	< 3.7
N24426SVB	24426 NEPTUNE AVE	2009-09-17	09:22	Back	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J,UJ	< 74 N,J	< 5	6.5	< 4	< 6.5	< 4	< 5.6
N24426SVF	24426 NEPTUNE AVE	2009-09-17	10:19	Front	< 11	< 3.9	< 4.9	< 92 N,J	< 5.5	< 4.6	< 130 N,J	< 160 N,J,UJ	< 72 N,J	< 4.9	11	< 3.8	< 6.3	< 3.9	< 5.5
N24426SVB	24426 NEPTUNE AVE	2010-06-25	15:03	Back	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
N24426SVH	24426 NEPTUNE AVE	2010-06-25	16:13	House	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
N24426SVF	24426 NEPTUNE AVE	2010-07-07	10:03	Front	19	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24426SVF	24426 NEPTUNE AVE	2010-09-15	09:27	Front	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24426SVH	24426 NEPTUNE AVE	2010-10-29	14:46	House	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.3	< 3.9	< 5.6
N24426SVB	24426 NEPTUNE AVE	2010-10-29	15:02	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24426SVBD	24426 NEPTUNE AVE	2010-10-29	15:02	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	5	< 5.7
N24426SVF	24426 NEPTUNE AVE	2010-10-29	15:31	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24426SVH	24426 NEPTUNE AVE	2013-04-19	14:46	House	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78 PF	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
N24426SVG	24426 NEPTUNE AVE	2013-04-19	15:14	Garage	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79 PF	< 5.3	< 6	< 4.2	< 6.8	< 42	< 6
P24426SVH	24426 PANAMA AVE	2010-08-05	09:15	House	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	6.8	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24426SVG	24426 PANAMA AVE	2010-08-05	10:08	Garage	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	4.5	< 5.6
P24426SVB	24426 PANAMA AVE	2010-08-05	10:47	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24426SVH	24426 PANAMA AVE	2012-12-06	09:54	House	< 12	12	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
P24426SVG	24426 PANAMA AVE	2012-12-06	10:23	Garage	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
P24426SVGD	24426 PANAMA AVE	2012-12-06	10:23	Garage	< 12	5.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
P24426SVB	24426 PANAMA AVE	2012-12-10	13:45	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
P24426SVH	24426 PANAMA AVE	2013-06-14	19:29	House	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 42	< 6
P24426SVB	24426 PANAMA AVE	2013-06-14	19:31	Back	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 40	< 5.6
P24426SVG	24426 PANAMA AVE	2013-06-14	20:05	Garage	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.4	< 39	< 5.6
R24426SVH	24426 RAVENNA AVE	2010-06-22	09:13	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24426SVF	24426 RAVENNA AVE	2010-06-22	09:55	Front	< 12	< 4.4	< 5.4	< 100 N,J	< 6.1	< 5.1	< 140 N,J	< 170 N,J	< 80 N,J	< 5.4	< 6.1	< 4.3	< 7	< 4.3	< 6.1
R24426SVB	24426 RAVENNA AVE	2010-06-22	10:45	Back	< 11	< 4.1	19	< 95 N,J	22	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	5.6	< 5.7	< 4	< 6.5	< 4	15
R24426SVB	24426 RAVENNA AVE	2013-02-28	14:51	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
R24426SVBD	24426 RAVENNA AVE	2013-02-28	14:51	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24426SVH	24426 RAVENNA AVE	2013-02-28	14:57	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24426SVF	24426 RAVENNA AVE	2013-02-28	15:36	Front	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 44	< 6.2
R24426SVH	24426 RAVENNA AVE	2013-07-17	14:50	House	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.3	< 39	< 5.6
R24426SVB	24426 RAVENNA AVE	2013-07-17	14:55	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 80	< 5.3	< 6	< 4.2	< 6.9	< 43	< 6
R24426SVBD	24426 RAVENNA AVE	2013-07-17	14:55	Back	< 12	< 4.5	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.4	< 7.1	< 44	< 6.2
R24426SVF	24426 RAVENNA AVE	2013-07-17	15:22	Front	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
M24427SVH	24427 MARBELLA AVE	2010-05-26	10:10	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24427SVB	24427 MARBELLA AVE	2010-05-26	11:01	Back	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24427SVG	24427 MARBELLA AVE	2010-05-26	11:42	Garage	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24427SVG	24427 MARBELLA AVE	2012-04-06	10:19	Garage	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24427SVH	24427 MARBELLA AVE	2012-04-06	10:21	House	< 7.3	< 2.6	< 3.2	< 61	< 3.7	< 3	< 87	< 100	< 48	< 3.2	< 3.7	< 2.6	< 4.2	< 26	< 3.7
M24427SVB	24427 MARBELLA AVE	2012-04-06	10:57	Back	< 7.5	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	< 26	< 3.7
M24427SVBD	24427 MARBELLA AVE	2012-04-06	10:57	Back	< 7.5	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	< 26	< 3.7
P24427SVB	24427 PANAMA AVE	2010-06-04	09:06	Back	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
P24427SVF	24427 PANAMA AVE	2010-06-04	09:40	Front	< 11	< 3.9	< 4.9	< 92 N,J	< 5.5	< 4.6	< 130 N,J	< 160 N,J	< 72 N,J	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
P24427SVH	24427 PANAMA AVE	2010-06-04	10:12	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24427SVH	24427 PANAMA AVE	2013-05-24	15:00	House	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
P24427SVB	24427 PANAMA AVE	2013-05-24	15:07	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.9	< 42	< 6
P24427SVF	24427 PANAMA AVE	2013-05-24	15:21	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
				Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
				Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
N24429SVB	24429 NEPTUNE AVE	2010-04-30	00:00	Back	< 12	< 4.2	< 5.1	< 97 N,J	6.2	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
N24429SVH	24429 NEPTUNE AVE	2010-04-30	13:27	House	< 12	< 4.1	< 5.1	< 96 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 76 N,J	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
N24429SVF	24429 NEPTUNE AVE	2010-04-30	14:40	Front	< 12	< 4.2	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
N24429SVB	24429 NEPTUNE AVE	2011-01-14	15:08	Back	35	< 3.5	4.5	< 82	< 4.9	< 4.1	< 120	< 140	99	< 4.3	< 4.9	< 3.4	< 5.6	4.6	< 4.9
N24429SVF	24429 NEPTUNE AVE	2011-01-14	15:34	Front	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24429SVH	24429 NEPTUNE AVE	2011-01-14	16:00	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24429SVH	24429 NEPTUNE AVE	2013-08-07	09:47	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
N24429SVF	24429 NEPTUNE AVE	2013-08-07	10:09	Front	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 42	< 6
N24429SVFS	24429 NEPTUNE AVE	2013-08-07	10:09	Front	< 20 U	< 2 U	< 4.1 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4.1 U	< 2 U	< 2 U	< 2 U
N24429SVB	24429 NEPTUNE AVE	2013-08-07	10:26	Back	< 11	< 3.9	< 4.8	< 91	< 5.5	< 4.6	< 130	< 160	< 72	< 4.8	< 5.5	< 3.8	< 6.3	< 39	< 5.5
R24429SVG	24429 RAVENNA AVE	2010-09-17	13:46	Garage	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 4	< 5.6
R24429SVH	24429 RAVENNA AVE	2010-10-14	10:17	House	< 13	< 4.7	< 5.8	< 110	< 6.5	< 5.4	< 150	< 180	< 86	< 5.8	< 6.5	< 4.6	< 7.5	< 4.6	< 6.5
R24429SVB	24429 RAVENNA AVE	2010-10-14	11:26	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
R24429SVB	24429 RAVENNA AVE	2013-07-30	10:04	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
R24429SVBD	24429 RAVENNA AVE	2013-07-30	10:04	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
R24429SVH	24429 RAVENNA AVE	2013-07-30	10:09	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24429SVG	24429 RAVENNA AVE	2013-07-30	10:36	Garage	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	8.3	< 40	< 5.7
P24430SVB	24430 PANAMA AVE	2009-10-01	09:28	Back	< 14	< 5.1	< 6.3	< 120 N,J	< 7.2	< 6	< 170 N,J	260 N,J	< 94 N,J	< 6.3	< 7.2	< 5	< 8.2	< 5	< 7.2
P24430SVBD	24430 PANAMA AVE	2009-10-01	09:28	Back	< 14	< 5	19	< 120 N,J	< 7	< 5.9	< 170 N,J	< 200 N,J	< 92 N,J	< 6.2	< 7	< 4.9	< 8	< 5	< 7
P24430SVF	24430 PANAMA AVE	2009-10-01	10:54	Front	< 11	< 4	< 5	< 93 N,J	< 5.6	< 4.7	150 N,J	760 N,J	< 74 N,J	< 4.9	< 5.6	< 3.9	< 6.4	< 4	< 5.6
P24430SVH	24430 PANAMA AVE	2010-06-14	09:42	House	18	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24430SVB	24430 PANAMA AVE	2010-06-14	10:48	Back	< 12	< 4.1	< 5.1	< 96 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 76 N,J	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
P24430SVF	24430 PANAMA AVE	2010-06-14	11:46	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24430SVF	24430 PANAMA AVE	2012-11-30	15:16	Front	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 39	< 5.5
P24430SVHA	24430 PANAMA AVE	2013-05-07	15:25	House	< 12	< 4.4	< 5.4	< 100	< 6.2	< 5.1	< 150	< 170	< 81	< 5.4	< 6.2	< 4.3	< 7	< 44	< 6.2
P24430SVB	24430 PANAMA AVE	2013-05-07	15:31	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
P24430SVF	24430 PANAMA AVE	2013-05-07	15:56	Front	< 12	< 4.2	< 5.2	< 99	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.8	< 42	< 5.9
P24431SVF	24431 PANAMA AVE	2010-09-20	09:59	Front	< 13	< 4.5	< 5.6	< 100	< 6.3	< 5.3	< 150	< 180	< 84	< 5.6	< 6.3	< 4.4	< 7.2	< 4.5	< 6.3
P24431SVFD	24431 PANAMA AVE	2010-09-20	09:59	Front	< 13	< 4.5	< 5.6	< 100	< 6.3	< 5.3	< 150	< 180	< 84	< 5.6	< 6.3	< 4.4	< 7.2	< 4.5	< 6.3
P24431SVB	24431 PANAMA AVE	2010-09-20	11:22	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24431SVH2	24431 PANAMA AVE	2010-10-13	14:31	House	< 12	< 4.1	21	< 96	6.1	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
P24431SVB	24431 PANAMA AVE	2013-01-17	10:12	Back	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 40	< 5.6
P24431SVH2	24431 PANAMA AVE	2013-01-17	10:12	House	< 11	< 3.9	< 4.8	< 90	< 5.4	< 4.5	< 130	< 150	< 72	< 4.8	< 5.4	< 3.8	< 6.2	< 38	< 5.4
P24431SVF	24431 PANAMA AVE	2013-01-17	10:43	Front	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 80	< 5.3	< 6	< 4.2	< 6.9	< 43	< 6
P24431SVB	24431 PANAMA AVE	2013-05-29	09:47	Back	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.4	< 39	< 5.6
P24431SVBD	24431 PANAMA AVE	2013-05-29	09:47	Back	< 11	< 3.8	< 4.8	< 90	< 5.4	< 4.5	< 130	< 150	< 71	< 4.8	< 5.4	< 3.8	< 6.2	< 38	< 5.4
P24431SVH2	24431 PANAMA AVE	2013-05-29	09:48	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
P24431SVF	24431 PANAMA AVE	2013-05-29	10:21	Front	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
M24432SVH	24432 MARBELLA AVE	2010-11-01	09:18	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
M24432SVF	24432 MARBELLA AVE	2010-11-01	09:53	Front	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24432SVB	24432 MARBELLA AVE	2010-11-01	10:38	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24432SVH	24432 MARBELLA AVE	2011-01-27	14:09	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24432SVB	24432 MARBELLA AVE	2011-01-27	14:55	Back	< 11	< 3.9	< 4.8	< 91	< 5.5	< 4.6	< 130	< 160	< 72	< 4.8	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
M24432SVF	24432 MARBELLA AVE	2011-01-27	15:34	Front	< 11	< 3.9	19	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
M24432SVH	24432 MARBELLA AVE	2012-03-16	10:24	House	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
M24432SVF	24432 MARBELLA AVE	2012-03-16	11:04	Front	< 7.1	< 2.5	< 3.1	< 59	< 3.5	< 3	< 84	< 100	< 47	< 3.1	< 3.5	< 2.5	< 4	< 25	< 3.5
M24432SVB	24432 MARBELLA AVE	2012-03-16	11:28	Back	12	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	< 26	< 3.7
M24432SVBD	24432 MARBELLA AVE	2012-03-16	11:28	Back	< 7.5	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	< 26	< 3.7
M24433SVB	24433 MARBELLA AVE	2009-09-16	13:05	Back	< 11	< 4	< 4.9	< 93 N,J	< 5.6	< 4.6	< 130 N,J	< 160 N,J	< 73 N,J	< 4.9	9	< 3.9	< 6.3	< 3.9	< 5.6
M24433SVF	24433 MARBELLA AVE	2009-09-16	14:14	Front	< 10	< 3.7	< 4.5	< 86 N,J	< 5.1	< 4.3	< 120 N,J	< 140 N,J	< 68 N,J	< 4.5	13	< 3.6	< 5.9	< 3.6	< 5.1
M24433SVB2	24433 MARBELLA AVE	2009-09-18	15:39	Back	< 14	< 5.1	87	< 120 N,J	200	< 5.9	< 170 N,J	< 200 UJ,N,J	< 94 N,J	10	12	< 5	< 8.1	< 5	230
M24433SVH	24433 MARBELLA AVE	2011-02-14	13:51	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
				Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
				Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
M24433SVB2	24433 MARBELLA AVE	2011-02-14	14:11	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 80	< 5.3	< 6	< 4.2	< 6.9	< 4.3	< 6
M24433SVB	24433 MARBELLA AVE	2011-02-14	14:29	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24433SVBD	24433 MARBELLA AVE	2011-02-14	14:29	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24433SVF	24433 MARBELLA AVE	2011-02-14	14:57	Front	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
M24433SVF	24433 MARBELLA AVE	2012-03-02	15:00	Front	< 8.1	< 2.9	< 3.6	< 68	< 4	< 3.4	< 96	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 29	< 4
M24433SVFD	24433 MARBELLA AVE	2012-03-02	15:00	Front	< 8.2	< 2.9	< 3.6	< 68	< 4.1	< 3.4	< 97	< 120	< 54	< 3.6	< 4.1	< 2.8	< 4.7	< 29	< 4.1
M24433SVH	24433 MARBELLA AVE	2012-03-02	15:13	House	9.3	< 3.2	< 3.9	< 73	< 4.4	3.7	< 100	< 120	< 58	< 3.9	< 4.4	< 3.1	< 5	< 31	< 4.4
M24433SVB	24433 MARBELLA AVE	2012-03-02	15:46	Back	< 8.4	< 3	< 3.7	< 70	< 4.2	< 3.5	< 99	< 120	< 55	< 3.7	< 4.2	< 2.9	< 4.8	< 30	< 4.2
M24433SVB2	24433 MARBELLA AVE	2012-03-02	15:48	Back	< 8.7	< 3.1	< 3.8	< 72	< 4.4	< 3.6	< 100	< 120	< 57	< 3.8	< 4.4	< 3	< 5	< 31	< 4.4
P24436SVH	24436 PANAMA AVE	2010-06-24	09:51	House	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
P24436SVF	24436 PANAMA AVE	2010-06-24	11:55	Front	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
P24436SVHA	24436 PANAMA AVE	2012-06-28	09:55	House	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
P24436SVF	24436 PANAMA AVE	2012-06-28	10:03	Front	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
P24436SVFS	24436 PANAMA AVE	2012-06-28	10:03	Front	< 18 U	< 1.8 U	< 3.5 U		< 1.8 U	< 1.8 U				< 1.8 U	< 1.8 U	< 3.5 U	1.8	< 1.8 U	< 1.8 U
P24436SVBA	24436 PANAMA AVE	2012-06-28	10:39	Back	< 8.2	< 3	< 3.6	< 69	< 4.1	< 3.4	< 98	< 120	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 29	< 4.1
P24436SVBAS	24436 PANAMA AVE	2012-06-28	10:39	Back	< 19 U	< 1.9 U	< 3.9 U		< 1.9 U	< 1.9 U				< 1.9 U	< 1.9 U	< 3.9 U	< 1.9 U	< 1.9 U	< 1.9 U
M24502SVH	24502 MARBELLA AVE	2010-09-20	09:49	House	< 10	< 3.7	< 4.5	< 86	< 5.1	< 4.3	< 120	< 140	< 68	< 4.5	< 5.1	< 3.6	< 5.9	< 3.6	< 5.1
M24502SVG	24502 MARBELLA AVE	2010-09-20	10:39	Garage	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24502SVB	24502 MARBELLA AVE	2010-09-20	11:20	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
M24502SVG	24502 MARBELLA AVE	2012-05-04	14:34	Garage	< 8.6	< 3.1	< 3.8	< 72	< 4.3	< 3.6	< 100	< 120	< 57	< 3.8	< 4.3	< 3	< 4.9	< 30	< 4.3
M24502SVGD	24502 MARBELLA AVE	2012-05-04	14:34	Garage	< 8.6	< 3.1	< 3.8	< 72	< 4.3	< 3.6	< 100	< 120	< 57	< 3.8	< 4.3	< 3	< 4.9	< 30	< 4.3
M24502SVH	24502 MARBELLA AVE	2012-05-04	14:56	House	< 7.3	< 2.6	< 3.2	< 61	< 3.7	< 3	< 87	< 100	< 48	< 3.2	< 3.7	< 2.6	< 4.2	< 26	< 3.7
M24502SVB	24502 MARBELLA AVE	2012-05-04	15:13	Back	< 7.6	< 2.7	< 3.4	< 64	< 3.8	3.6	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24502SVH	24502 MARBELLA AVE	2013-08-16	09:53	House	< 11	< 4	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 73	< 4.9	< 5.5	< 3.9	< 6.3	< 39	< 5.5
M24502SVB	24502 MARBELLA AVE	2013-08-16	10:17	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 81	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
M24502SVBS	24502 MARBELLA AVE	2013-08-16	10:17	Back	< 21 U	< 2.1 U	< 4.2 U		< 2.1 U	< 2.1 U				< 2.1 U	< 2.1 U	< 4.2 U	< 2.1 U	< 2.1 U	< 2.1 U
M24502SVG	24502 MARBELLA AVE	2013-08-16	10:25	Garage	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
N24502SVB	24502 NEPTUNE AVE	2009-09-23	12:48	Back	< 12	< 4.4	< 5.4	< 100 N,J	< 6.1	< 5.1	< 140 N,J	< 170 UJ,N,J	< 80 N,J	< 5.4	< 6.1	< 4.3	< 7	< 4.3	< 6.1
N24502SVF	24502 NEPTUNE AVE	2009-09-23	13:59	Front	< 12	< 4.1	12	< 96 N,J	10	< 4.8	< 140 N,J	< 160 UJ,N,J	< 76 N,J	< 5.1	< 5.8	< 4	< 6.6	< 4.1	7.3
N24502SVH	24502 NEPTUNE AVE	2011-02-17	09:25	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
N24502SVF	24502 NEPTUNE AVE	2011-02-17	10:12	Front	< 12	< 4.1	< 5.1	< 96	< 5.8	5.9	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
N24502SVFD	24502 NEPTUNE AVE	2011-02-17	10:12	Front	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
N24502SVB	24502 NEPTUNE AVE	2011-02-17	10:59	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
N24502SVH	24502 NEPTUNE AVE	2013-01-25	14:55	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24502SVF	24502 NEPTUNE AVE	2013-01-25	15:00	Front	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
N24502SVFD	24502 NEPTUNE AVE	2013-01-25	15:00	Front	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
N24502SVB	24502 NEPTUNE AVE	2013-07-12	09:39	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
N24502SVBD	24502 NEPTUNE AVE	2013-07-12	09:39	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
N24502SVH	24502 NEPTUNE AVE	2013-07-12	09:41	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
N24502SVF	24502 NEPTUNE AVE	2013-07-12	10:08	Front	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 80	< 5.3	< 6	< 4.2	< 6.9	< 43	< 6
P24502SVB	24502 PANAMA AVE	2009-09-25	09:24	Back	< 12	< 4.1	26	< 96 N,J	17	< 4.8	< 140 N,J	< 160 N,J	< 76 N,J	< 5.1	< 5.8	< 4	< 6.6	< 4.1	6.9
P24502SVF	24502 PANAMA AVE	2009-09-25	10:26	Front	< 11	< 4.1	< 5	< 95 N,J	7.3	< 4.7	< 130 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24502SVF	24502 PANAMA AVE	2010-06-01	10:06	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.7	< 130 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24502SVB	24502 PANAMA AVE	2010-06-01	11:14	Back	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24502SVBD	24502 PANAMA AVE	2010-06-01	11:14	Back	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24502SVH2	24502 PANAMA AVE	2010-09-02	08:52	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
P24502SVH2	24502 PANAMA AVE	2013-01-18	10:09	House	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 39	< 5.5
P24502SVF	24502 PANAMA AVE	2013-01-18	10:19	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
P24502SVFD	24502 PANAMA AVE	2013-01-18	10:19	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
P24502SVB	24502 PANAMA AVE	2013-01-18	10:45	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24502SVB	24502 RAVENNA AVE	2010-04-22	10:39	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24502SVF	24502 RAVENNA AVE	2010-04-22	12:16	Front	< 12	< 4.3	< 5.2	170 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	90 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
				Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
				Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
R24502SVH	24502 RAVENNA AVE	2010-04-22	13:38	House	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	300 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
R24502SVH	24502 RAVENNA AVE	2010-10-07	11:07	House	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
R24502SVB	24502 RAVENNA AVE	2010-10-07	11:58	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24502SVF	24502 RAVENNA AVE	2010-10-07	12:58	Front	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
R24502SVH	24502 RAVENNA AVE	2010-10-11	14:40	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24502SVB	24502 RAVENNA AVE	2010-10-11	15:17	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24502SVF	24502 RAVENNA AVE	2010-10-11	16:14	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
R24502SVH	24502 RAVENNA AVE	2012-07-26	15:07	House	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
R24502SVB	24502 RAVENNA AVE	2012-07-26	15:20	Back	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
R24502SVF	24502 RAVENNA AVE	2012-07-26	15:51	Front	< 8.1	< 2.9	< 3.6	< 67	< 4	< 3.4	< 95	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 28	< 4
M24503SVF	24503 MARBELLA AVE	2010-05-28	08:58	Front	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	250 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
M24503SVB	24503 MARBELLA AVE	2010-05-28	09:40	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24503SVH	24503 MARBELLA AVE	2010-05-28	10:22	House	< 13	< 4.5	< 5.6	< 100 N,J	< 6.3	< 5.3	< 150 N,J	< 180 N,J	< 83 N,J	< 5.6	< 6.3	< 4.4	< 7.2	< 4.5	< 6.3
M24503SVH	24503 MARBELLA AVE	2012-03-30	14:54	House	< 7.8	< 2.8	< 3.4	< 65	5.6	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
M24503SVF	24503 MARBELLA AVE	2012-03-30	15:12	Front	< 7.7	< 2.8	< 3.4	< 64	< 3.8	< 3.2	< 91	< 110	< 51	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24503SVFD	24503 MARBELLA AVE	2012-03-30	15:12	Front	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
M24503SVB	24503 MARBELLA AVE	2012-03-30	15:40	Back	< 7.7	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 91	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
N24503SVF	24503 NEPTUNE AVE	2010-06-18	09:48	Front	< 12	< 4.2	< 5.2	< 98 N,J	< 5.8	< 4.9	< 140 N,J	< 160 N,J	< 77 N,J	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
N24503SVB	24503 NEPTUNE AVE	2010-06-18	10:30	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24503SVHA	24503 NEPTUNE AVE	2011-02-02	09:46	House	21	< 3.9	< 4.8	< 90	< 5.4	< 4.5	< 130	< 150	< 72	< 4.8	< 5.4	< 3.8	< 6.2	< 3.8	< 5.4
N24503SVHA	24503 NEPTUNE AVE	2012-04-13	10:30	House	< 8.1	< 2.9	< 3.6	< 67	< 4	< 3.4	< 95	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 28	< 4
N24503SVF	24503 NEPTUNE AVE	2012-04-13	10:46	Front	20	< 2.8	20 j	< 65	< 3.9	< 3.2	< 92	< 110	< 51	6.2 j	< 3.9	< 2.7	< 4.4	< 27	< 3.9
N24503SVFD	24503 NEPTUNE AVE	2012-04-13	10:46	Front	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
N24503SVHA	24503 NEPTUNE AVE	2013-06-27	14:37	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24503SVB	24503 NEPTUNE AVE	2013-06-27	14:46	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 42	< 6
N24503SVF	24503 NEPTUNE AVE	2013-06-27	15:10	Front	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.4	< 7.1	< 44	< 6.2
P24503SVB	24503 PANAMA AVE	2011-04-04	14:05	Back	< 13	< 4.6	< 5.7	< 110	< 6.4	< 5.3	< 150	< 180	< 84	< 5.7	< 6.4	< 4.5	< 7.3	< 4.5	< 6.4
P24503SVH	24503 PANAMA AVE	2011-04-04	14:55	House	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 4.4	< 6.2
P24503SVG	24503 PANAMA AVE	2011-04-04	15:31	Garage	< 13	< 4.6	< 5.7	< 110	< 6.4	< 5.3	< 150	< 180	< 84	< 5.7	< 6.4	< 4.5	< 7.3	< 4.5	< 6.4
P24503SVH	24503 PANAMA AVE	2012-08-10	14:54	House	< 8.2	< 2.9	< 3.6	< 68	< 4.1	< 3.4	< 97	< 120	< 54	< 3.6	< 4.1	< 2.8	< 4.7	< 29	< 4.1
P24503SVB	24503 PANAMA AVE	2012-08-10	15:31	Back	< 11	< 3.9	< 4.8	< 68	< 5.4	< 4.5	< 97	< 120	< 54	< 4.8	< 5.4	< 3.8	< 6.2	< 38	< 5.4
P24503SVBD	24503 PANAMA AVE	2012-08-10	15:31	Back	< 17	< 6	< 7.4	< 140	< 8.4	< 7	< 200	< 240	< 110	< 7.4	< 8.4	< 5.8	< 9.6	< 59	< 8.4
P24503SVG	24503 PANAMA AVE	2012-08-10	15:34	Garage	< 8	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.6	< 28	< 4
R24503SVH	24503 RAVENNA AVE	2010-08-09	09:13	House	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
R24503SVG	24503 RAVENNA AVE	2010-08-09	10:01	Garage	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	5.4	< 5.7
R24503SVB	24503 RAVENNA AVE	2010-08-09	11:01	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24503SVG	24503 RAVENNA AVE	2012-11-08	14:58	Garage	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24503SVH	24503 RAVENNA AVE	2012-11-08	15:09	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24503SVB	24503 RAVENNA AVE	2012-11-08	15:33	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
M24506SVH	24506 MARBELLA AVE	2010-04-21	09:55	House	< 11	13	530	< 95 N,J	85	11	< 140 N,J	< 160 N,J	< 75 N,J	98	< 5.7	4.8	< 6.5	< 4	100
M24506SVF	24506 MARBELLA AVE	2010-04-21	10:11	Front	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
M24506SVB2	24506 MARBELLA AVE	2010-08-10	09:00	Back	< 11	< 4.1	< 5	< 95 N,J	9.2	< 4.7	< 130 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	11	5.7	< 5.7
M24506SVH	24506 MARBELLA AVE	2011-01-26	10:01	House	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 4	< 5.6
M24506SVF	24506 MARBELLA AVE	2011-01-26	10:45	Front	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
M24506SVFD	24506 MARBELLA AVE	2011-01-26	10:45	Front	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
M24506SVB2	24506 MARBELLA AVE	2011-01-26	11:36	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	4.1	< 6.5	< 4	< 5.7
M24506 SVF	24506 MARBELLA AVE	2012-03-15	10:29	Front	< 14	< 4.9	< 6	< 110	< 6.8	< 5.7	< 160	< 190	< 90	< 6	< 6.8	< 4.8	< 7.8	< 48	< 6.8
M24506SVFS	24506 MARBELLA AVE	2012-03-15	10:29	Front	< 3.6 U	< 1.8 U	< 3.6 U		< 1.8 U	< 1.8 U				< 1.8 U	< 1.8 U	< 3.6 U	< 1.8 U	< 1.8 U	< 1.8 U
M24506 SVH	24506 MARBELLA AVE	2012-03-15	10:29	House	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
M24506 SVB2	24506 MARBELLA AVE	2012-03-15	11:23	Back	< 13	< 4.8	< 5.9	< 110	< 6.7	< 5.6	< 160	< 190	< 88	< 5.9	< 6.7	< 4.7	< 7.6	< 47	< 6.7
M24506SVB2	24506 MARBELLA AVE	2013-07-02	14:47	Back	< 12	< 4.4	< 5.4	< 100	< 6.2	< 5.1	< 150	< 170	< 81	< 5.4	< 6.2	< 4.3	< 7	< 44	< 6.2
M24506SVB2D	24506 MARBELLA AVE	2013-07-02	14:47	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.9	< 42	< 6

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

Analyte					Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
Units					UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
Frequency of Detection					4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	Address	Sample Date	Sample Time	Location															
M24506SVH	24506 MARBELLA AVE	2013-07-02	14:55	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
M24506SVF	24506 MARBELLA AVE	2013-07-02	15:12	Front	< 12	< 4.5	< 5.6	< 100	< 6.3	< 5.2	< 150	< 180	< 83	< 5.6	< 6.3	< 4.4	< 7.2	< 44	< 6.3
N24508SVH	24508 NEPTUNE AVE	2010-06-11	09:06	House	< 11	< 3.9	< 4.9	< 92 N,J	< 5.5	< 4.6	< 130 N,J	< 160 N,J	< 72 N,J	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
N24508SVB	24508 NEPTUNE AVE	2010-06-11	10:01	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24508SVF	24508 NEPTUNE AVE	2010-06-11	10:45	Front	< 12	< 4.4	< 5.4	< 100 N,J	< 6.1	< 5.1	< 140 N,J	< 170 N,J	< 80 N,J	< 5.4	< 6.1	< 4.2	< 6.9	< 4.3	< 6.1
N24508SVF	24508 NEPTUNE AVE	2011-01-28	10:23	Front	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
N24508SVH	24508 NEPTUNE AVE	2011-01-28	11:03	House	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
N24508SVB	24508 NEPTUNE AVE	2011-01-28	11:35	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24508SVBS	24508 NEPTUNE AVE	2011-01-28	11:35	Back	< 3.6	< 1.8	< 3.6		< 1.8	< 1.8				< 1.8	< 1.8	< 3.6	2.5	< 1.8	< 1.8
P24508SVF	24508 PANAMA AVE	2010-05-19	09:43	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24508SVH	24508 PANAMA AVE	2010-05-19	10:26	House	21	< 4.2	7.9	< 97 N,J	1200	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	10	< 4.1	< 6.6	< 4.1	240
P24508SVB	24508 PANAMA AVE	2010-05-19	11:06	Back	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
P24508SVH	24508 PANAMA AVE	2012-04-26	15:00	House	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
P24508SVF	24508 PANAMA AVE	2012-04-26	15:07	Front	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
P24508SVFD	24508 PANAMA AVE	2012-04-26	15:07	Front	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	140	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
P24508SVB	24508 PANAMA AVE	2012-04-26	15:34	Back	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
R24508SVHA	24508 RAVENNA AVE	2011-01-31	09:42	House	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
R24508SVF	24508 RAVENNA AVE	2011-01-31	10:21	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24508SVB	24508 RAVENNA AVE	2011-01-31	11:00	Back	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
R24508SVHA	24508 RAVENNA AVE	2013-03-29	10:00	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
R24508SVB	24508 RAVENNA AVE	2013-03-29	10:14	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24508SVBS	24508 RAVENNA AVE	2013-03-29	10:14	Back	< 4.4 U	< 2.2 U	< 4.4 U		< 2.2 U	< 2.2 U				< 2.2 U	< 2.2 U	< 4.4 U	< 2.2 U	< 2.2 U	< 2.2 U
R24508SVF	24508 RAVENNA AVE	2013-03-29	10:49	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
R24508SVFD	24508 RAVENNA AVE	2013-03-29	10:49	Front	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
N24509SVH	24509 NEPTUNE AVE	2010-05-04	13:45	House	< 12	< 4.2	< 5.2	< 99 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.1	< 6.8	< 4.2	< 5.9
N24509SVF	24509 NEPTUNE AVE	2010-05-04	15:44	Front	< 12	< 4.4	< 5.4	< 100 N,J	< 6.1	< 5.1	< 140 N,J	< 170 N,J	< 81 N,J	< 5.4	< 6.1	< 4.3	< 7	< 4.3	< 6.1
N24509SVB2	24509 NEPTUNE AVE	2010-07-30	09:30	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24509SVB2S	24509 NEPTUNE AVE	2010-07-30	09:30	Back	< 3.4	< 1.7	< 3.4		< 1.7	< 1.7				< 1.7	2.8	< 3.4	< 1.7	< 1.7	< 1.7
N24509SVH	24509 NEPTUNE AVE	2012-07-06	10:10	House	< 7.5	< 2.7	< 3.3	< 62	< 3.7 PF	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	< 26	< 3.7
N24509SVB2	24509 NEPTUNE AVE	2012-07-06	10:12	Back	< 7.1	< 2.6	< 3.1	< 59	< 3.6 PF	< 3	< 84	< 100	< 47	< 3.1	< 3.6	< 2.5	< 4.1	< 25	< 3.6
N24509SVF	24509 NEPTUNE AVE	2012-07-06	11:02	Front	< 7.5	< 2.7	< 3.3	< 63	< 3.8 PF	< 3.1	< 89	< 110	< 50	< 3.3	< 3.8	< 2.6	< 4.3	< 26	< 3.8
N24509SVFS	24509 NEPTUNE AVE	2012-07-06	11:02	Front	< 17 U	< 1.7 U	< 3.4 U		< 1.7 U	< 1.7 U				< 1.7 U	< 1.7 U	< 3.4 U	< 1.7 U	< 1.7 U	< 1.7 U
N24509SVB2	24509 NEPTUNE AVE	2013-03-14	14:44	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
N24509SVB2D	24509 NEPTUNE AVE	2013-03-14	14:44	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24509SVH	24509 NEPTUNE AVE	2013-03-14	14:52	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24509SVF	24509 NEPTUNE AVE	2013-03-14	15:14	Front	< 12	< 4.2	< 5.2	< 99	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.8	< 42	< 5.9
P24509SVH	24509 PANAMA AVE	2010-11-12	13:31	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24509SVF	24509 PANAMA AVE	2010-11-12	14:13	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
P24509SVB	24509 PANAMA AVE	2010-11-12	14:44	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24509SVH	24509 PANAMA AVE	2013-02-07	09:44	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
P24509SVB	24509 PANAMA AVE	2013-02-07	09:50	Back	< 25	< 9	< 11	< 210	< 12	< 10	< 300	< 350	< 160	< 11	< 12	< 8.7	< 14	< 88	< 12
P24509SVBD	24509 PANAMA AVE	2013-02-07	09:50	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
P24509SVH	24509 PANAMA AVE	2013-06-28	10:31	House	< 12	< 4.4	< 5.4	< 100	< 6.2	< 5.1	< 150	< 170	< 81	< 5.4	< 6.2	< 4.3	< 7	< 44	< 6.2
P24509SVB	24509 PANAMA AVE	2013-06-28	10:34	Back	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
P24509SVBD	24509 PANAMA AVE	2013-06-28	10:34	Back	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
P24509SVFA	24509 PANAMA AVE	2013-06-28	10:54	Front	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
R24509SVH	24509 RAVENNA AVE	2010-06-21	10:03	House	< 12	< 4.2	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
R24509SVB	24509 RAVENNA AVE	2010-06-21	10:50	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24509SVG	24509 RAVENNA AVE	2010-10-15	12:12	Garage	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
R24509SVG	24509 RAVENNA AVE	2012-04-12	15:49	Garage	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
R24509SVB	24509 RAVENNA AVE	2013-08-15	10:06	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24509SVBS	24509 RAVENNA AVE	2013-08-15	10:06	Back	< 19 U	< 1.9 U	< 3.9 U		< 1.9 U	< 1.9 U				< 1.9 U	< 1.9 U	< 3.9 U	< 1.9 U	< 1.9 U	< 1.9 U

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
				Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
				Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
R24509SVHA	24509 RAVENNA AVE	2013-08-15	10:13	House	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.9	< 42	< 6
R24509SVG	24509 RAVENNA AVE	2013-08-15	10:34	Garage	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
M24512SVB	24512 MARBELLA AVE	2011-04-28	08:53	Back	< 13	< 4.6	< 5.7	< 110	< 6.5	< 5.4	< 150	< 180	< 85	< 5.7	< 6.5	< 4.5	< 7.4	< 4.6	< 6.5
M24512SVBS	24512 MARBELLA AVE	2011-04-28	08:53	Back	< 3.7	< 1.9	< 3.7		< 1.9	< 1.9				< 1.9	< 1.9	< 3.7	4	< 1.9	< 1.9
M24512SVH	24512 MARBELLA AVE	2011-04-28	09:34	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	6.2	< 5.9
M24512SVF	24512 MARBELLA AVE	2011-04-28	10:12	Front	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	7.7	< 4	< 5.6
M24512SVFS	24512 MARBELLA AVE	2011-04-28	10:12	Front	< 4	< 2	< 4		< 2	< 2				< 2	< 2	< 4	7.9	< 2	< 2
M24512SVH	24512 MARBELLA AVE	2012-01-20	09:53	House	< 7.5	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	< 2.6	< 3.7
M24512SVF	24512 MARBELLA AVE	2012-01-20	11:36	Front	< 7.5	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	< 2.6	< 3.7
M24512SVFS	24512 MARBELLA AVE	2012-01-20	11:36	Front	< 3.4 U	< 1.7 U	< 3.4 U		< 1.7 U	< 1.7 U				< 1.7 U	< 1.7 U	< 3.4 U	< 1.7 U	< 1.7 U	< 1.7 U
M24512SVB	24512 MARBELLA AVE	2012-01-20	12:28	Back	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 2.8	< 4
N24512SVH	24512 NEPTUNE AVE	2013-07-26	14:42	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24512SVB	24512 NEPTUNE AVE	2013-07-26	14:49	Back	12	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
N24512SVF	24512 NEPTUNE AVE	2013-07-26	15:09	Front	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
P24512SVH	24512 PANAMA AVE	2010-11-08	09:27	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
P24512SVF	24512 PANAMA AVE	2010-11-08	10:01	Front	< 12	< 4.1	< 5.1	1800	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
P24512SVFS	24512 PANAMA AVE	2010-11-08	10:01	Front	8.1	< 2.7	< 5.4		< 2.7	< 2.7				< 2.7	< 2.7	< 5.4	< 2.7	< 2.7	< 2.7
P24512SVB	24512 PANAMA AVE	2010-11-08	10:43	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 80	< 5.3	< 6	< 4.2	< 6.9	< 4.3	< 6
P24512SVH	24512 PANAMA AVE	2012-11-15	15:43	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
P24512SVF	24512 PANAMA AVE	2012-11-15	15:46	Front	< 11	< 3.9	6.6	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 39	< 5.5
P24512SVB	24512 PANAMA AVE	2012-11-15	16:26	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
P24512SVH	24512 PANAMA AVE	2013-06-13	09:49	House	< 11	< 3.8	< 4.8	< 90	< 5.4	< 4.5	< 130	< 150	< 71	< 4.8	< 5.4	< 3.8	< 6.2	< 38	< 5.4
P24512SVF	24512 PANAMA AVE	2013-06-13	10:01	Front	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
P24512SVFS	24512 PANAMA AVE	2013-06-13	10:01	Front	< 20 U	< 2 U	< 4.1 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4.1 U	< 2 U	< 2 U	< 2 U
P24512SVB	24512 PANAMA AVE	2013-06-13	10:25	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 81	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
N24513SVH	24513 NEPTUNE AVE	2010-08-05	09:03	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24513SVB	24513 NEPTUNE AVE	2010-08-05	09:41	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24513SVBD	24513 NEPTUNE AVE	2010-08-05	09:41	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24513SVF	24513 NEPTUNE AVE	2010-08-05	10:21	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24513SVF	24513 NEPTUNE AVE	2012-08-02	15:00	Front	< 8.2	< 3	< 3.6	< 69	< 4.1	< 3.4	< 98	< 120	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 29	< 4.1
N24513SVFD	24513 NEPTUNE AVE	2012-08-02	15:00	Front	< 8.2	< 3	< 3.6	< 69	< 4.1	< 3.4	< 98	< 120	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 29	< 4.1
N24513SVH	24513 NEPTUNE AVE	2012-08-02	15:26	House	< 10	< 3.7	< 4.5	< 85	< 5.1	< 4.3	< 120	< 140	< 67	< 4.5	< 5.1	< 3.6	< 5.8	< 36	< 5.1
N24513SVB	24513 NEPTUNE AVE	2012-08-02	15:30	Back	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
N24513SVB	24513 NEPTUNE AVE	2013-06-05	14:57	Back	< 12	< 4.5	< 5.6	< 100	< 6.3	< 5.2	< 150	< 180	< 83	< 5.6	< 6.3	< 4.4	< 7.2	< 44	< 6.3
N24513SVBS	24513 NEPTUNE AVE	2013-06-05	14:57	Back	< 23 U	< 2.3 U	< 4.6 U		< 2.3 U	< 2.3 U				< 2.3 U	< 2.3 U	< 4.6 U	< 2.3 U	< 2.3 U	< 2.3 U
N24513SVH	24513 NEPTUNE AVE	2013-06-05	15:16	House	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
N24513SVF	24513 NEPTUNE AVE	2013-06-05	15:25	Front	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
R24513SVB	24513 RAVENNA AVE	2010-04-23	12:51	Back	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
R24513SVH	24513 RAVENNA AVE	2010-04-23	14:30	House	23	8.3	18	620 N,J	9.7	7.5	520 N,J	< 160 N,J	930 N,J	11	62	28	< 6.5	< 4	< 5.7
R24513SVF	24513 RAVENNA AVE	2010-04-23	15:45	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	180 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24513SVH	24513 RAVENNA AVE	2010-08-19	13:44	House	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
R24513SVF	24513 RAVENNA AVE	2010-08-19	14:33	Front	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
R24513SVB	24513 RAVENNA AVE	2010-08-19	15:14	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24513SVF	24513 RAVENNA AVE	2012-05-25	14:44	Front	< 7.9	< 2.8	< 3.5	< 66	< 3.9	3.8	< 93	< 110	< 52	< 3.5	< 3.9	< 2.8	< 4.5	< 28	< 3.9
R24513SVFD	24513 RAVENNA AVE	2012-05-25	14:44	Front	< 7.8	< 2.8	< 3.4	< 65	< 3.9	3.9	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
R24513SVB	24513 RAVENNA AVE	2012-05-25	15:00	Back	< 7.4	< 2.6	< 3.2	< 61	< 3.7	< 3.1	< 87	< 100	< 48	< 3.2	< 3.7	< 2.6	< 4.2	< 26	< 3.7
R24513SVHA	24513 RAVENNA AVE	2013-07-25	14:42	House	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
R24513SVB	24513 RAVENNA AVE	2013-07-25	14:51	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
R24513SVF	24513 RAVENNA AVE	2013-07-25	15:15	Front	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
M24516SVH	24516 MARBELLA AVE	2010-05-27	09:16	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	6.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24516SVB	24516 MARBELLA AVE	2010-05-27	10:11	Back	< 12	< 4.2	< 5.2	< 98 N,J	< 5.8	< 4.9	< 140 N,J	< 160 N,J	< 77 N,J	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
M24516SVG	24516 MARBELLA AVE	2010-05-27	10:55	Garage	< 12	< 4.2	< 5.2	< 98 N,J	< 5.8	< 4.9	< 140 N,J	< 160 N,J	< 77 N,J	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
Analyte					Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
Units					UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
Frequency of Detection					4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
M24516SVH	24516 MARBELLA AVE	2012-05-24	14:57	House	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24516SVG	24516 MARBELLA AVE	2012-05-24	15:14	Garage	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24516SVGD	24516 MARBELLA AVE	2012-05-24	15:14	Garage	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24516SVB	24516 MARBELLA AVE	2012-05-24	15:39	Back	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24517SVF	24517 MARBELLA AVE	2009-10-06	13:40	Front	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
M24517SVB	24517 MARBELLA AVE	2009-10-06	17:16	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24517SVBD	24517 MARBELLA AVE	2009-10-06	17:16	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24517SVH	24517 MARBELLA AVE	2011-02-08	09:42	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24517SVH	24517 MARBELLA AVE	2011-10-11	13:46	House	< 7.9	< 2.8	< 3.5	< 66	< 3.9	< 3.3	< 93	< 110	< 52	< 3.5	< 3.9	< 2.8	< 4.5	< 2.8	< 3.9
M24517SVF	24517 MARBELLA AVE	2011-10-11	14:20	Front	< 8.2	< 3	< 3.6	< 69	< 4.1	< 3.4	< 98	< 120	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 2.9	< 4.1
M24517SVFD	24517 MARBELLA AVE	2011-10-11	14:20	Front	< 8.3	< 3	< 3.7	< 69	< 4.2	< 3.5	< 98	< 120	< 55	< 3.7	< 4.2	< 2.9	< 4.7	< 2.9	< 4.2
M24517SVB	24517 MARBELLA AVE	2011-10-11	14:57	Back	< 7.7	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 91	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 2.7	< 3.8
M24517SVBD	24517 MARBELLA AVE	2011-10-11	14:57	Back	< 7.7	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 91	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 2.7	< 3.8
M24517SVB	24517 MARBELLA AVE	2012-03-23	15:05	Back	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24517SVBD	24517 MARBELLA AVE	2012-03-23	15:05	Back	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	150	110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24517SVF	24517 MARBELLA AVE	2012-03-23	15:16	Front	< 7.6	< 2.7	16	< 64	< 3.8	< 3.2	< 90	< 110	< 50	4.9	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24517SVB	24517 MARBELLA AVE	2013-08-20	14:42	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
M24517SVH	24517 MARBELLA AVE	2013-08-20	14:57	House	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
M24517SVF	24517 MARBELLA AVE	2013-08-20	15:02	Front	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 40	< 5.6
N24518SVB	24518 NEPTUNE AVE	2010-07-28	10:05	Back	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	6	< 4.2	< 6.8	< 4.2	< 5.9
N24518SVH	24518 NEPTUNE AVE	2010-07-28	11:06	House	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
N24518SVG	24518 NEPTUNE AVE	2010-07-28	12:10	Garage	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24518SVH	24518 NEPTUNE AVE	2013-04-26	09:59	House	< 11	< 3.8	< 4.7	< 88	< 5.3	< 4.4	< 120	< 150	< 70	< 4.7	< 5.3	< 3.7	< 6.1	< 38	< 5.3
N24518SVG	24518 NEPTUNE AVE	2013-04-26	10:29	Garage	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 40	< 5.6
N24518SVB	24518 NEPTUNE AVE	2013-04-26	10:32	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 81	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
N24518SVBD	24518 NEPTUNE AVE	2013-04-26	10:32	Back	< 12	< 4.4	< 5.4	< 100	< 6.2	< 5.1	< 150	< 170	< 81	< 5.4	< 6.2	< 4.3	< 7	< 44	< 6.2
N24518SVB	24518 NEPTUNE AVE	2013-07-16	14:56	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 80	< 5.3	< 6	< 4.2	< 6.9	< 43	< 6
N24518SVBD	24518 NEPTUNE AVE	2013-07-16	14:56	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 81	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
N24518SVH	24518 NEPTUNE AVE	2013-07-16	15:35	House	< 13	< 4.5	< 5.6	< 100	< 6.3	< 5.3	< 150	< 180	< 84	< 5.6	< 6.3	< 4.4	< 7.2	< 45	< 6.3
N24518SVG	24518 NEPTUNE AVE	2013-07-16	15:38	Garage	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
R24518SVH2	24518 RAVENNA AVE	2010-04-26	14:09	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24518SVH1	24518 RAVENNA AVE	2010-04-26	15:09	House	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
R24518SVF	24518 RAVENNA AVE	2010-04-26	16:04	Front	< 11	< 3.9	< 4.8	< 91 N,J	< 5.5	< 4.6	< 130 N,J	< 160 N,J	< 72 N,J	< 4.8	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
R24518SVF	24518 RAVENNA AVE	2012-07-12	14:58	Front	< 7.1	< 2.5	< 3.1	< 59	< 3.5 PF	< 3	< 84	< 100	< 47	< 3.1	< 3.5	< 2.5	< 4	< 25	< 3.5
R24518SVFD	24518 RAVENNA AVE	2012-07-12	14:58	Front	< 7.1	< 2.5	< 3.1	< 59	< 3.5 PF	< 3	< 84	< 100	< 47	< 3.1	< 3.5	< 2.5	< 4	< 25	< 3.5
R24518SVH1	24518 RAVENNA AVE	2012-07-12	15:08	House	< 7.8	< 2.8	< 3.4	< 65	< 3.9 PF	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
R24518SVH2	24518 RAVENNA AVE	2012-07-12	15:49	House	14	< 3	< 3.6	< 69	< 4.1 PF	< 3.4	< 98	< 120	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 29	< 4.1
N24519SVB	24519 NEPTUNE AVE	2010-08-10	09:01	Back	< 12	< 4.1	< 5.1	< 96 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 76 N,J	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
N24519SVH	24519 NEPTUNE AVE	2010-08-10	09:59	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	4.3	< 5.7
N24519SVF	24519 NEPTUNE AVE	2010-08-10	10:47	Front	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24519SVB	24519 NEPTUNE AVE	2012-06-29	14:47	Back	< 8.2	< 3	< 3.6	< 69	< 4.1	< 3.4	< 98	< 120	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 29	< 4.1
N24519SVBD	24519 NEPTUNE AVE	2012-06-29	14:47	Back	< 8.1	< 2.9	< 3.6	< 67	< 4	< 3.4	< 95	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 28	< 4
N24519SVH	24519 NEPTUNE AVE	2012-06-29	14:56	House	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
N24519SVF	24519 NEPTUNE AVE	2012-06-29	15:26	Front	< 8.2	< 3	< 3.6	< 69	< 4.1	< 3.4	< 98	< 120	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 29	< 4.1
P24519SVH	24519 PANAMA AVE	2010-10-18	00:00	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24519SVF	24519 PANAMA AVE	2010-10-18	13:31	Front	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
P24519SVFS	24519 PANAMA AVE	2010-10-18	13:31	Front	4	< 1.6	< 3.3		< 1.6	< 1.6				< 1.6	< 1.6	< 3.3	< 1.6	< 1.6	< 1.6
P24519SVB	24519 PANAMA AVE	2010-10-18	14:14	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
P24519SVBS	24519 PANAMA AVE	2010-10-18	14:14	Back	< 3.4	< 1.7	< 3.4		< 1.7	< 1.7				< 1.7	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7
P24519SVB	24519 PANAMA AVE	2013-06-06	14:48	Back	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.4	< 39	< 5.6
P24519SVH	24519 PANAMA AVE	2013-06-06	14:48	House	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
P24519SVF	24519 PANAMA AVE	2013-06-06	15:10	Front	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.9	< 42	< 6

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
					Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
					Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
M24522SVH	24522 MARBELLA AVE	2010-04-30	09:04	House	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
M24522SVB	24522 MARBELLA AVE	2010-04-30	09:57	Back	< 12	< 4.3	19	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	11	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24522SVF	24522 MARBELLA AVE	2010-04-30	10:58	Front	< 12	< 4.2	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
M24522SVFD	24522 MARBELLA AVE	2010-04-30	10:58	Front	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
M24522SVG	24522 MARBELLA AVE	2010-10-13	09:08	Front	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
M24522SVH	24522 MARBELLA AVE	2010-10-13	10:04	House	< 10	< 3.8	< 4.7	< 88	< 5.3	< 4.4	< 120	< 150	< 70	< 4.7	< 5.3	< 3.7	< 6	< 3.7	< 5.3
M24522SVB	24522 MARBELLA AVE	2010-10-13	11:35	Back	< 13	< 4.6	< 5.6	< 110	< 6.4	< 5.3	< 150	< 180	< 84	< 5.6	< 6.4	< 4.4	< 7.3	< 4.5	< 6.4
M24522SVF	24522 MARBELLA AVE	2012-04-20	10:30	Front	< 9.7	< 3.5	< 4.3	< 81	< 4.9	< 4	< 120	< 140 PF	< 64	< 4.3	< 4.9	< 3.4	< 5.6	< 34	< 4.9
M24522SVH	24522 MARBELLA AVE	2012-04-20	10:32	House	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110 PF	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24522SVB	24522 MARBELLA AVE	2012-04-20	11:11	Back	< 8.4	< 3	< 3.7	< 70	< 4.2	< 3.5	< 100	< 120 PF	< 55	< 3.7	< 4.2	< 2.9	< 4.8	< 30	< 4.2
M24522SVBD	24522 MARBELLA AVE	2012-04-20	11:11	Back	< 8.2	< 3	< 3.6	< 69	< 4.1	< 3.4	< 98	< 120 PF	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 29	< 4.1
N24522SVH	24522 NEPTUNE AVE	2010-06-15	14:13	House	< 11	< 4	< 4.9	< 93 N,J	< 5.6	< 4.6	< 130 N,J	< 160 N,J	< 73 N,J	< 4.9	< 5.6	< 3.9	< 6.3	< 3.9	< 5.6
N24522SVF	24522 NEPTUNE AVE	2010-06-15	14:59	Front	< 12	< 4.2	< 5.2	< 99 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.1	< 6.8	< 4.2	< 5.9
N24522SVH	24522 NEPTUNE AVE	2011-02-02	13:54	House	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
N24522SVBA	24522 NEPTUNE AVE	2011-02-02	14:25	Back	< 11	< 3.9	< 4.8	< 90	< 5.4	< 4.5	< 130	< 150	< 72	< 4.8	< 5.4	< 3.8	< 6.2	< 3.8	< 5.4
N24522SVF	24522 NEPTUNE AVE	2011-02-02	14:57	Front	21	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	7.2
N24522SVH	24522 NEPTUNE AVE	2012-04-05	09:57	House	< 8.2	< 3	< 3.6	< 69	< 4.1	< 3.4	< 98	< 120	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 29	< 4.1
N24522SVF	24522 NEPTUNE AVE	2012-04-05	09:59	Front	< 8.2	< 3	< 3.6	< 69	< 4.1	< 3.4	< 98	< 120	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 29	< 4.1
N24522SVFD	24522 NEPTUNE AVE	2012-04-05	09:59	Front	< 8.2	< 3	< 3.6	< 69	< 4.1	< 3.4	< 98	< 120	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 29	< 4.1
N24522SVBA	24522 NEPTUNE AVE	2012-04-05	10:55	Back	< 8.4	< 3	< 3.7	< 70	< 4.2	< 3.5	< 100	< 120	< 55	< 3.7	< 4.2	< 2.9	< 4.8	< 30	< 4.2
N24522SVH	24522 NEPTUNE AVE	2013-06-06	09:52	House	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 81	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
N24522SVBA	24522 NEPTUNE AVE	2013-06-06	10:09	Back	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 40	< 5.6
N24522SVBAS	24522 NEPTUNE AVE	2013-06-06	10:09	Back	< 19 U	< 1.9 U	< 3.9 U		< 1.9 U	< 1.9 U				< 1.9 U	< 1.9 U	< 3.9 U	< 1.9 U	< 1.9 U	< 1.9 U
N24522SVFS	24522 NEPTUNE AVE	2013-06-06	10:20	Front	< 19 U	< 1.9 U	< 3.8 U		< 1.9 U	< 1.9 U				< 1.9 U	< 1.9 U	< 3.8 U	< 1.9 U	< 1.9 U	< 1.9 U
P24522SVG	24522 PANAMA AVE	2010-06-09	12:59	Garage	< 12	< 4.4	< 5.4	< 100 N,J	< 6.1	< 5.1	< 140 N,J	< 170 N,J	< 80 N,J	< 5.4	< 6.1	< 4.3	< 7	< 4.3	< 6.1
P24522SVB	24522 PANAMA AVE	2010-06-09	14:01	Back	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
P24522SVH	24522 PANAMA AVE	2010-06-17	12:25	House	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24522SVHS	24522 PANAMA AVE	2010-06-17	12:25	House	< 3.5	< 1.8	< 3.5		< 1.8	< 1.8				< 1.8	< 1.8	< 3.5	< 1.8	< 1.8	< 1.8
P24522SVB	24522 PANAMA AVE	2013-03-22	15:11	Back	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
P24522SVBD	24522 PANAMA AVE	2013-03-22	15:11	Back	< 12	< 4.2	< 5.2	< 99	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.8	< 42	< 5.9
P24522SVH	24522 PANAMA AVE	2013-03-22	15:19	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
P24522SVG	24522 PANAMA AVE	2013-03-22	15:54	Garage	< 11	< 3.9	< 4.8	< 91	< 5.4	< 4.5	< 130	< 150	< 72	< 4.8	< 5.4	< 3.8	< 6.2	< 38	< 5.4
R24522SVH	24522 RAVENNA AVE	2010-11-01	13:28	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
R24522SVG	24522 RAVENNA AVE	2010-11-01	14:02	Garage	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
R24522SVB	24522 RAVENNA AVE	2010-11-01	14:41	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24522SVG	24522 RAVENNA AVE	2012-08-23	15:00	Garage	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 44	< 6.2
R24522SVH	24522 RAVENNA AVE	2012-08-23	15:08	House	31	5.5	< 5.2	< 99	< 5.9	5.1	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
R24522SVB	24522 RAVENNA AVE	2012-08-23	15:29	Back	< 13	< 4.5	< 5.6	180	< 6.3	< 5.3	230	< 180	< 84	< 5.6	< 6.3	< 4.4	< 7.2	< 45	< 6.3
R24522SVH	24522 RAVENNA AVE	2013-05-21	09:54	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
R24522SVB	24522 RAVENNA AVE	2013-05-21	09:59	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
R24522SVBD	24522 RAVENNA AVE	2013-05-21	09:59	Back	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
R24522SVG	24522 RAVENNA AVE	2013-05-21	10:33	Garage	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
M24523SVH	24523 MARBELLA AVE	2010-11-11	14:28	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24523SVG	24523 MARBELLA AVE	2010-11-11	15:24	Garage	< 11	< 4	5.4	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.3	< 3.9	< 5.6
M24523SVB	24523 MARBELLA AVE	2010-11-11	15:51	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 80	< 5.3	< 6	< 4.2	< 6.9	< 4.3	< 6
M24523SVB	24523 MARBELLA AVE	2012-04-24	14:30	Back	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
M24523SVG	24523 MARBELLA AVE	2012-04-27	10:08	Garage	< 7.5	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	< 26	< 3.7
M24523SVGD	24523 MARBELLA AVE	2012-04-27	10:08	Garage	< 7.5	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	< 26	< 3.7
M24523SVH	24523 MARBELLA AVE	2012-04-27	10:09	House	< 7.3	< 2.6	< 3.2	< 61	< 3.7	< 3	< 87	< 100	< 48	< 3.2	< 3.7	< 2.6	< 4.2	< 26	< 3.7
M24523SVB	24523 MARBELLA AVE	2012-04-27	10:46	Back	< 7.5	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	< 26	< 3.7
M24523SVH	24523 MARBELLA AVE	2013-08-28	09:42	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
M24523SVB	24523 MARBELLA AVE	2013-08-28	09:43	Back	< 11	< 3.9	< 4.8	< 91	< 5.4	< 4.5	< 130	< 150	< 72	< 4.8	< 5.4	< 3.8	< 6.2	< 38	< 5.4

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
				Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
				Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
M24523SVG	24523 MARBELLA AVE	2013-08-28	10:08	Garage	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	13	< 41	< 5.8
N24523SVH	24523 NEPTUNE AVE	2010-04-07	14:40	House	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
N24523SVF	24523 NEPTUNE AVE	2010-04-07	15:41	Front	< 12	< 4.2	< 5.2	< 99 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.1	< 6.8	< 4.2	< 5.9
N24523SVB	24523 NEPTUNE AVE	2010-04-07	16:36	Back	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24523SVH	24523 NEPTUNE AVE	2012-10-04	09:56	House	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
N24523SVF	24523 NEPTUNE AVE	2012-10-04	10:37	Front	< 10	4.1	< 4.6	< 87	< 5.2	< 4.3	< 120	< 150	< 69	< 4.6	< 5.2	< 3.6	< 6	< 37	< 5.2
N24523SVB	24523 NEPTUNE AVE	2012-10-04	10:50	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
N24523SVBS	24523 NEPTUNE AVE	2012-10-04	10:50	Back	< 20 U	< 2 U	< 4 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4 U	< 2 U	< 2 U	< 2 U
N24523SVH	24523 NEPTUNE AVE	2013-02-22	10:20	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
N24523SVHS	24523 NEPTUNE AVE	2013-02-22	10:20	House	< 20 U	< 2 U	< 4.1 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4.1 U	< 2 U	< 2 U	< 2 U
N24523SVB	24523 NEPTUNE AVE	2013-02-22	10:36	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24523SVBS	24523 NEPTUNE AVE	2013-02-22	10:36	Back	< 20 U	< 2 U	< 4 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4 U	< 2 U	< 2 U	< 2 U
N24523SVF	24523 NEPTUNE AVE	2013-02-22	11:09	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24523SVFD	24523 NEPTUNE AVE	2013-02-22	11:09	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24523SVF	24523 RAVENNA AVE	2009-11-08	10:58	Front	< 11	< 3.8	< 4.7		< 5.3	< 4.4				< 4.7	< 5.3	< 3.7	< 6.1	< 3.8	< 5.3
R24523SVFS	24523 RAVENNA AVE	2009-11-08	10:58	Front	0.95 J	< 1.9	< 3.8		< 1.9	< 1.9				< 1.9	1.4 J	< 3.8	1.3 J	< 1.9	< 1.9
R24523SVBa	24523 RAVENNA AVE	2009-12-03	16:11	Back	< 10	< 3.8	< 4.6	430 N,J	< 5.2	< 4.4	230 N,J	530 N,J	290 N,J	< 4.6	16	32	< 6	< 3.7	< 5.2
R24523SVH	24523 RAVENNA AVE	2010-08-24	09:54	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
R24523SVF	24523 RAVENNA AVE	2010-08-24	10:58	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24523SVB	24523 RAVENNA AVE	2010-08-24	11:00	Back	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	4.2	< 5.9
R24523SVH	24523 RAVENNA AVE	2011-03-25	09:23	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24526SVH	24526 MARBELLA AVE	2010-10-13	13:28	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
M24526SVG	24526 MARBELLA AVE	2010-10-13	14:08	Garage	< 9.9	< 3.6	< 4.4	< 83	< 5	< 4.1	< 120	< 140	< 65	< 4.4	< 5	< 3.5	< 5.7	< 3.5	< 5
M24526SVB	24526 MARBELLA AVE	2010-10-13	14:51	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24526SVH	24526 MARBELLA AVE	2012-04-19	10:00	House	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110 PF	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
M24526SVG	24526 MARBELLA AVE	2012-04-19	10:36	Garage	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110 PF	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24526SVGD	24526 MARBELLA AVE	2012-04-19	10:36	Garage	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110 PF	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24526SVB	24526 MARBELLA AVE	2012-04-19	10:41	Back	< 8.2	< 3	< 3.6	< 69	< 4.1	< 3.4	< 98	< 120 PF	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 29	< 4.1
N24528SVH	24528 NEPTUNE AVE	2010-11-03	09:42	House	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
N24528SVG	24528 NEPTUNE AVE	2010-11-03	10:25	Garage	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
N24528SVB	24528 NEPTUNE AVE	2010-11-03	11:34	Back	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24528SVH	24528 NEPTUNE AVE	2012-03-08	10:40	House	< 7.2	< 2.6	4.7	< 60	< 3.6	< 3	< 85	< 100	< 47	< 3.2	< 3.6	< 2.5	< 4.1	< 25	< 3.6
N24528SVG	24528 NEPTUNE AVE	2012-03-08	11:17	Garage	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
N24528SVGD	24528 NEPTUNE AVE	2012-03-08	11:17	Garage	< 7.9	4	< 3.5	< 66	< 4	4.9	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
N24528SVH	24528 NEPTUNE AVE	2013-08-20	10:26	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
N24528SVBA	24528 NEPTUNE AVE	2013-08-20	10:39	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
N24528SVBAS	24528 NEPTUNE AVE	2013-08-20	10:39	Back	< 19 U	< 1.9 U	< 3.9 U		< 1.9 U	< 1.9 U				< 1.9 U	< 1.9 U	< 3.9 U	< 1.9 U	< 1.9 U	< 1.9 U
N24528SVG	24528 NEPTUNE AVE	2013-08-20	10:48	Garage	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24529SVH	24529 NEPTUNE AVE	2010-11-19	12:48	House	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 4.3	< 6.1
N24529SVF	24529 NEPTUNE AVE	2010-11-19	13:22	Front	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24529SVH	24529 NEPTUNE AVE	2011-03-07	10:32	House	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24529SVF	24529 NEPTUNE AVE	2011-03-07	11:12	Front	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
N24529SVF	24529 NEPTUNE AVE	2012-03-02	09:58	Front	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
N24529SVFD	24529 NEPTUNE AVE	2012-03-02	09:58	Front	< 7.9	< 2.8	3.7	< 66	5.2	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
N24529SVP	24529 NEPTUNE AVE	2012-03-02	10:19	Parking	< 8.4	< 3	< 3.7	< 70	< 4.2	< 3.5	< 99	< 120	< 55	< 3.7	< 4.2	< 2.9	< 4.8	< 30	< 4.2
N24529SVH	24529 NEPTUNE AVE	2012-03-02	10:41	House	< 8.6	< 3.1	< 3.8	< 72	< 4.3	< 3.6	< 100	< 120	< 57	< 3.8	< 4.3	< 3	< 4.9	< 30	< 4.3
N24529SVH	24529 NEPTUNE AVE	2013-08-23	09:45	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24529SVF	24529 NEPTUNE AVE	2013-08-23	09:53	Front	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 44	< 6.2
N24529SVFS	24529 NEPTUNE AVE	2013-08-23	09:53	Front	< 22 U	< 2.2 U	< 4.4 U		< 2.2 U	< 2.2 U				< 2.2 U	< 2.2 U	< 4.4 U	< 2.2 U	< 2.2 U	< 2.2 U
N24529SVP	24529 NEPTUNE AVE	2013-08-23	10:32	Parking	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.3	< 39	< 5.6
P24529SVB	24529 PANAMA AVE	2012-05-17	10:17	Back	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
P24529SVBS	24529 PANAMA AVE	2012-05-17	10:17	Back	< 3.7 U	< 1.9 U	< 3.7 U		< 1.9 U	< 1.9 U				< 1.9 U	< 1.9 U	< 3.7 U	< 1.9 U	< 1.9 U	< 1.9 U

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
				Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
				Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
P24529SVF	24529 PANAMA AVE	2012-05-17	10:37	Front	< 8.2	< 3	< 3.6	< 69	< 4.1	< 3.4	< 98	< 120	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 29	< 4.1
P24529SVFS	24529 PANAMA AVE	2012-05-17	10:37	Front	< 4 U	< 2 U	< 4 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4 U	< 2 U	< 2 U	< 2 U
P24529SVHA	24529 PANAMA AVE	2012-05-31	08:20	House	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
R24529SVF	24529 RAVENNA AVE	2011-08-18	14:54	Front	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
R24529SVFS	24529 RAVENNA AVE	2011-08-18	14:54	Front	5.7	< 1.7 U	< 3.5 U		< 1.7 U	< 1.7 U				< 1.7 U	< 1.7 U	< 3.5 U	< 1.7 U	< 1.7 U	< 1.7 U
R24529SVH	24529 RAVENNA AVE	2011-08-18	15:25	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
R24529SVHS	24529 RAVENNA AVE	2011-08-18	15:25	House	< 3.5 U	< 1.8 U	< 3.5 U		< 1.8 U	< 1.8 U				< 1.8 U	< 1.8 U	< 3.5 U	< 1.8 U	< 1.8 U	< 1.8 U
R24529SVB	24529 RAVENNA AVE	2011-08-18	16:24	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
R24529SVBS	24529 RAVENNA AVE	2011-08-18	16:24	Back	< 3.5 U	< 1.8 U	5		< 1.8 U	< 1.8 U				< 1.8 U	< 1.8 U	< 3.5 U	< 1.8 U	< 1.8 U	< 1.8 U
R24529SVH	24529 RAVENNA AVE	2013-08-02	14:48	House	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 40	< 5.6
R24529SVB	24529 RAVENNA AVE	2013-08-02	14:54	Back	< 12	< 4.2	< 5.2	< 99	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.8	< 42	< 5.9
R24529SVF	24529 RAVENNA AVE	2013-08-02	15:18	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
M24532SVB	24532 MARBELLA AVE	2009-10-09	10:05	Back	< 11	< 4	< 5	< 93 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 4.9	< 5.6	< 3.9	< 6.4	< 4	< 5.6
M24532SVBS	24532 MARBELLA AVE	2009-10-09	10:05	Back	8.7	< 2.3	< 4.5		< 2.3	< 2.3				< 2.3	1.9 J	< 4.5	1.2 J	< 2.3	< 2.3
M24532SVF	24532 MARBELLA AVE	2009-10-09	11:40	Front	< 11	< 3.9	< 4.9	< 180 N,J	< 5.5	< 4.6	< 260 N,J	< 310 N,J	< 150 N,J	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
M24532SVFS	24532 MARBELLA AVE	2009-10-09	11:40	Front	< 4	< 2	< 4		< 2	< 2				< 2	0.75 J	< 4	1.3 J	< 2	< 2
M24532 SVH	24532 MARBELLA AVE	2011-09-23	08:33	House	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
M24532 SVF	24532 MARBELLA AVE	2011-09-23	09:04	Front	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
M24532 SVF D	24532 MARBELLA AVE	2011-09-23	09:04	Front	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
M24532 SVB	24532 MARBELLA AVE	2011-09-23	09:37	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24532SVH	24532 MARBELLA AVE	2012-04-05	15:17	House	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
M24532SVF	24532 MARBELLA AVE	2012-04-05	15:24	Front	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24532SVB	24532 MARBELLA AVE	2012-04-05	15:56	Back	< 7.3	< 2.6	< 3.2	< 61	< 3.7	< 3	< 87	< 100	< 48	< 3.2	< 3.7	< 2.6	< 4.2	< 26	< 3.7
M24532SVBD	24532 MARBELLA AVE	2012-04-05	15:56	Back	< 7.3	< 2.6	< 3.2	< 61	< 3.7	< 3	< 87	< 100	< 48	< 3.2	< 3.7	< 2.6	< 4.2	< 26	< 3.7
M24532SVH	24532 MARBELLA AVE	2013-08-23	13:48	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
M24532SVF	24532 MARBELLA AVE	2013-08-23	13:54	Front	< 13	< 4.5	< 5.6	< 100	< 6.3	< 5.3	< 150	< 180	< 83	< 5.6	< 6.3	< 4.4	< 7.2	< 45	< 6.3
M24532SVB	24532 MARBELLA AVE	2013-08-23	14:18	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
N24532SVG	24532 NEPTUNE AVE	2010-05-19	14:06	Garage	< 13	6.5	53	170 N,J	< 6.7	11	< 160 N,J	< 190 N,J	< 88 N,J	7.2	< 6.7	14	< 7.7	< 4.7	< 6.7
N24532SVH	24532 NEPTUNE AVE	2010-05-19	14:56	House	85	< 4.1	51	160 N,J	12	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	14	< 5.7	42	< 6.5	< 4	16
N24532SVB2	24532 NEPTUNE AVE	2010-09-03	13:33	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24532SVB2D	24532 NEPTUNE AVE	2010-09-03	13:33	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24532SVB2	24532 NEPTUNE AVE	2013-03-01	15:21	Back	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
N24532SVB2D	24532 NEPTUNE AVE	2013-03-01	15:21	Back	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
N24532SVG	24532 NEPTUNE AVE	2013-03-01	15:59	Garage	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.9	< 42	< 6
N24532SVHB	24532 NEPTUNE AVE	2013-06-19	10:01	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76 PF	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
N24532SVB2	24532 NEPTUNE AVE	2013-06-19	10:05	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74 PF	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
N24532SVB2D	24532 NEPTUNE AVE	2013-06-19	10:05	Back	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76 PF	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
N24532SVG	24532 NEPTUNE AVE	2013-06-19	10:33	Garage	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76 PF	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
P24532SVG	24532 PANAMA AVE	2012-05-10	09:54	Garage	< 8.1	< 2.9	< 3.6	< 67	< 4	< 3.4	< 95	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 28	< 4
P24532SVGS	24532 PANAMA AVE	2012-05-10	09:54	Garage	6.3	< 1.9 U	< 3.7 U		< 1.9 U	< 1.9 U				< 1.9 U	< 1.9 U	< 3.7 U	< 1.9 U	< 1.9 U	< 1.9 U
P24532SVH	24532 PANAMA AVE	2012-05-10	09:54	House	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
P24532SVB	24532 PANAMA AVE	2012-05-10	10:23	Back	< 7.3	< 2.6	< 3.2	< 61	< 3.7	< 3	< 87	< 100	< 48	< 3.2	< 3.7	< 2.6	< 4.2	< 26	< 3.7
P24532SVBS	24532 PANAMA AVE	2012-05-10	10:23	Back	< 3.5 U	< 1.7 U	< 3.5 U		< 1.7 U	< 1.7 U				< 1.7 U	< 1.7 U	< 3.5 U	< 1.7 U	< 1.7 U	< 1.7 U
P24532SVB	24532 PANAMA AVE	2013-08-21	14:40	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
P24532SVG	24532 PANAMA AVE	2013-08-21	15:11	Garage	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
P24532SVH	24532 PANAMA AVE	2013-08-21	15:51	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
R24532SVB	24532 RAVENNA AVE	2010-08-18	13:25	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24532SVF	24532 RAVENNA AVE	2010-08-18	13:58	Front	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 81	< 5.4	< 6.1	< 4.3	< 7	< 4.3	< 6.1
R24532SVB	24532 RAVENNA AVE	2011-05-11	14:05	Back	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
R24532SVF	24532 RAVENNA AVE	2011-05-11	15:02	Front	< 14	< 4.9	< 6	< 110	< 6.8	< 5.6	< 160	< 190	< 89	< 6	< 6.8	< 4.8	< 7.8	< 4.8	< 6.8
R24532SVFD	24532 RAVENNA AVE	2011-05-11	15:02	Front	< 13	< 4.8	< 5.9	< 110	< 6.7	< 5.6	< 160	< 190	< 88	< 5.9	< 6.7	< 4.7	< 7.7	< 4.7	< 6.7
R24532SVH	24532 RAVENNA AVE	2011-05-11	15:48	House	12	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
					Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
					Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
R24532SVHD	24532 RAVENNA AVE	2011-05-11	15:48	House	13	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24532SVB	24532 RAVENNA AVE	2012-11-16	14:54	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24532SVF	24532 RAVENNA AVE	2012-11-16	15:37	Front	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
R24532SVB	24532 RAVENNA AVE	2013-07-31	14:41	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 81	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
R24532SVF	24532 RAVENNA AVE	2013-07-31	15:31	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24532SVH	24532 RAVENNA AVE	2013-07-31	15:48	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
N24533SVH	24533 NEPTUNE AVE	2010-07-12	13:52	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24533SVF	24533 NEPTUNE AVE	2010-07-12	14:26	Front	< 12	< 4.2	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
N24533SVB	24533 NEPTUNE AVE	2010-07-12	15:01	Back	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
N24533SVB	24533 NEPTUNE AVE	2013-03-07	09:58	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
N24533SVBS	24533 NEPTUNE AVE	2013-03-07	09:58	Back	< 20 U	< 2 U	< 3.9 U		< 2 U	< 2 U				< 2 U	< 2 U	< 3.9 U	< 2 U	< 2 U	< 2 U
N24533SVH	24533 NEPTUNE AVE	2013-03-07	10:00	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
N24533SVF	24533 NEPTUNE AVE	2013-03-07	10:33	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24533SVFS	24533 NEPTUNE AVE	2013-03-07	10:33	Front	< 20 U	< 2 U	< 4 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4 U	< 2 U	< 2 U	< 2 U
N24533SVB	24533 NEPTUNE AVE	2013-07-03	09:44	Back	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
N24533SVBD	24533 NEPTUNE AVE	2013-07-03	09:44	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
N24533SVH	24533 NEPTUNE AVE	2013-07-03	10:00	House	< 12	< 4.2	< 5.2	< 99	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.8	< 42	< 5.9
N24533SVF	24533 NEPTUNE AVE	2013-07-03	10:10	Front	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
P24533SVH	24533 PANAMA AVE	2011-03-18	13:41	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
P24533SVBA	24533 PANAMA AVE	2011-03-18	14:10	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24533SVFA	24533 PANAMA AVE	2011-03-18	14:44	Front	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
P24533SVFAD	24533 PANAMA AVE	2011-03-18	14:44	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24533SVFA	24533 PANAMA AVE	2012-09-20	10:33	Front	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
P24533SVFAS	24533 PANAMA AVE	2012-09-20	10:33	Front	< 20 U	< 2 U	< 4 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4 U	< 2 U	< 2 U	< 2 U
P24533SVH	24533 PANAMA AVE	2012-09-20	10:44	House	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
P24533SVBA	24533 PANAMA AVE	2012-09-20	11:28	Back	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 44	< 6.2
P24533SVBA	24533 PANAMA AVE	2013-07-24	14:42	Back	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 44	< 6.2
P24533SVH	24533 PANAMA AVE	2013-07-24	14:47	House	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
P24533SVFA	24533 PANAMA AVE	2013-07-24	15:05	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24533SVG	24533 RAVENNA AVE	2010-09-07	09:26	Garage	< 13	< 4.7	< 5.8	< 110	< 6.6	< 5.5	< 160	< 190	< 87	< 5.8	< 6.6	< 4.6	< 7.6	< 4.7	< 6.6
R24533SVH	24533 RAVENNA AVE	2010-09-07	10:05	House	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	28	< 4.3	< 6.1
R24533SVB	24533 RAVENNA AVE	2010-09-07	11:04	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
R 24 533 SVH	24533 RAVENNA AVE	2012-09-27	10:16	House	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
R 24 533 SVG	24533 RAVENNA AVE	2012-09-27	10:18	Garage	< 11	7.4	< 4.7	< 88	< 5.3	5	< 120	< 150	< 70	< 4.7	< 5.3	< 3.7	< 6.1	< 38	< 5.3
R 24 533 SVB	24533 RAVENNA AVE	2012-09-27	11:05	Back	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
R24533SVHA	24533 RAVENNA AVE	2013-08-27	09:49	House	18	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24533SVB	24533 RAVENNA AVE	2013-08-27	09:55	Back	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 39	< 5.5
R24533SVBS	24533 RAVENNA AVE	2013-08-27	09:55	Back	< 19 U	12 j	< 3.8 U		< 1.9 U	9.4 j				< 1.9 U	< 1.9 U	< 3.8 U	< 1.9 U	< 1.9 U	< 1.9 U
R24533SVG	24533 RAVENNA AVE	2013-08-27	10:20	Garage	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 80	< 5.3	< 6	< 4.2	< 6.9	< 43	< 6
M24602SVF	24602 MARBELLA AVE	2010-11-04	13:10	Front	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
M24602SVB	24602 MARBELLA AVE	2010-11-04	13:54	Back	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 4.4	< 6.2
M24602SVH	24602 MARBELLA AVE	2012-06-01	09:55	House	< 7.5	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	< 26	< 3.7
M24602SVF	24602 MARBELLA AVE	2012-06-01	10:05	Front	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24602SVFS	24602 MARBELLA AVE	2012-06-01	10:05	Front	9.6	< 1.7 U	< 3.3 U		< 1.7 U	< 1.7 U				< 1.7 U	< 1.7 U	4.2	< 1.7 U	< 1.7 U	< 1.7 U
M24602SVB	24602 MARBELLA AVE	2012-06-01	10:29	Back	< 8	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.6	< 28	< 4
M24602SVBS	24602 MARBELLA AVE	2012-06-01	10:29	Back	< 3.5 U	< 1.8 U	< 3.5 U		< 1.8 U	< 1.8 U				< 1.8 U	< 1.8 U	< 3.5 U	< 1.8 U	< 1.8 U	< 1.8 U
M24602SVB	24602 MARBELLA AVE	2013-08-27	14:57	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 42	< 6
M24602SVH	24602 MARBELLA AVE	2013-08-27	15:00	House	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
M24602SVF	24602 MARBELLA AVE	2013-08-27	15:24	Front	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 44	< 6.2
N24602SVH	24602 NEPTUNE AVE	2010-07-27	09:30	House	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24602SVB	24602 NEPTUNE AVE	2010-07-27	10:10	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24602SVF	24602 NEPTUNE AVE	2010-07-27	11:00	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

Analyte					Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
Units					UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
Frequency of Detection					4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
N24602SVB	24602 NEPTUNE AVE	2011-03-04	15:08	Back	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24602SVF	24602 NEPTUNE AVE	2011-03-04	15:22	Front	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
N24602SVFD	24602 NEPTUNE AVE	2011-03-04	15:22	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24602SVH	24602 NEPTUNE AVE	2011-03-04	15:56	House	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24602SVB	24602 NEPTUNE AVE	2012-06-29	09:59	Back	< 8.2	< 3	< 3.6	< 69	< 4.1	< 3.4	< 98	< 120	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 29	< 4.1
N24602SVBS	24602 NEPTUNE AVE	2012-06-29	09:59	Back	< 18 U	< 1.8 U	< 3.6 U		< 1.8 U	< 1.8 U				< 1.8 U	< 1.8 U	< 3.6 U	< 1.8 U	< 1.8 U	< 1.8 U
N24602SVH	24602 NEPTUNE AVE	2012-06-29	10:05	House	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
N24602SVF	24602 NEPTUNE AVE	2012-06-29	10:34	Front	< 8.2	< 3	< 3.6	< 69	< 4.1	< 3.4	< 98	< 120	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 29	< 4.1
N24602SVFS	24602 NEPTUNE AVE	2012-06-29	10:34	Front	< 17 U	< 1.7 U	< 3.5 U		< 1.7 U	< 1.7 U				< 1.7 U	< 1.7 U	< 3.5 U	< 1.7 U	< 1.7 U	< 1.7 U
R24602SVB	24602 RAVENNA AVE	2012-10-05	09:57	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
R24602SVF	24602 RAVENNA AVE	2012-10-05	09:57	Front	< 13	< 4.6	< 5.7	< 110	< 6.5	< 5.4	< 150	< 180	< 85	< 5.7	< 6.5	< 4.5	< 7.4	< 46	< 6.5
R24602SVFS	24602 RAVENNA AVE	2012-10-05	09:57	Front	< 26 U	< 2.6 U	< 5.3 U		< 2.6 U	< 2.6 U				< 2.6 U	< 2.6 U	< 5.3 U	< 2.6 U	< 2.6 U	< 2.6 U
R24602SVH	24602 RAVENNA AVE	2012-10-05	10:57	House	< 12	5.5	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
R24602SVB	24602 RAVENNA AVE	2013-04-10	10:04	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80 PF	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
R24602SVH	24602 RAVENNA AVE	2013-04-10	10:09	House	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77 PF	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
R24602SVF	24602 RAVENNA AVE	2013-04-10	10:35	Front	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72 PF	< 4.9	< 5.5	< 3.8	< 6.3	< 39	< 5.5
M24603SVB	24603 MARBELLA AVE	2009-09-24	11:29	Back	< 40	520	5200	1700 N,J	2200	400	3000 N,J	< 560 UJ,N,J	6700 N,J	1100	40	64	< 23	< 14	1300
M24603SVF	24603 MARBELLA AVE	2009-09-24	12:22	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 UJ,N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24603SVH	24603 MARBELLA AVE	2010-01-15	11:00	House	< 11	< 3.9	< 4.9	< 92 N,J	< 5.5	< 4.6	< 130 N,J	< 160 N,J	< 72 N,J	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
M24603SVF	24603 MARBELLA AVE	2010-01-15	11:56	Front	< 10	< 3.8	< 4.6	< 87 N,J	< 5.2	< 4.4	< 120 N,J	< 150 N,J	< 69 N,J	< 4.6	< 5.2	< 3.7	< 6	< 3.7	< 5.2
M24603SVB	24603 MARBELLA AVE	2010-01-15	12:34	Back	< 12	< 4.2	< 5.2	< 98 N,J	< 5.8	< 4.9	< 140 N,J	< 160 N,J	< 77 N,J	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
M24603SVH	24603 MARBELLA AVE	2010-10-15	13:37	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
M24603SVHS	24603 MARBELLA AVE	2010-10-15	13:37	House	< 3.5	< 1.8	< 3.5		< 1.8	< 1.8				< 1.8	< 1.8	< 3.5	< 1.8	< 1.8	< 1.8
M24603SVF	24603 MARBELLA AVE	2010-10-15	13:45	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24603SVB	24603 MARBELLA AVE	2010-10-15	14:17	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.3	< 7	< 4.3	< 6.1
N24603SVH	24603 NEPTUNE AVE	2010-11-04	09:20	House	< 10	< 3.7	< 4.6	< 86	< 5.2	< 4.3	< 120	< 150	< 68	< 4.6	< 5.2	< 3.6	< 5.9	< 3.6	< 5.2
N24603SVG	24603 NEPTUNE AVE	2010-11-04	09:59	Garage	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
N24603SVB	24603 NEPTUNE AVE	2010-11-04	10:35	Back	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
N24603SVBD	24603 NEPTUNE AVE	2010-11-04	10:35	Back	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
N24603SVB	24603 NEPTUNE AVE	2013-03-07	14:51	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24603SVBD	24603 NEPTUNE AVE	2013-03-07	14:51	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24603SVH	24603 NEPTUNE AVE	2013-03-07	14:54	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
N24603SVG	24603 NEPTUNE AVE	2013-03-07	15:25	Garage	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
N24603SVH	24603 NEPTUNE AVE	2013-07-18	15:02	House	< 10	< 3.7	< 4.6	< 87	< 5.2	< 4.3	< 120	< 150	< 69	< 4.6	< 5.2	< 3.6	< 6	< 37	< 5.2
N24603SVB	24603 NEPTUNE AVE	2013-07-18	15:13	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 42	< 6
N24603SVG	24603 NEPTUNE AVE	2013-07-18	15:26	Garage	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
P24603SVH	24603 PANAMA AVE	2011-02-10	08:56	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
P24603SVF	24603 PANAMA AVE	2011-02-10	09:30	Front	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
P24603SVG	24603 PANAMA AVE	2011-02-10	10:09	Garage	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
P24603SVGS	24603 PANAMA AVE	2011-02-10	10:09	Garage	< 3.6	< 1.8	< 3.6		< 1.8	< 1.8				< 1.8	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8
P24603SVH	24603 PANAMA AVE	2012-10-19	09:43	House	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
P24603SVF	24603 PANAMA AVE	2012-10-19	10:08	Front	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
P24603SVFD	24603 PANAMA AVE	2012-10-19	10:08	Front	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
P24603SVG	24603 PANAMA AVE	2012-10-19	10:16	Garage	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
R24603SVB	24603 RAVENNA AVE	2009-09-19	10:49	Back	< 11	< 4	< 4.9	< 93 N,J	< 5.6	< 4.6	< 130 N,J	< 160 UJ,N,J	< 73 N,J	< 4.9	< 5.6	< 3.9	< 6.3	< 3.9	< 5.6
R24603SVF	24603 RAVENNA AVE	2009-09-19	11:36	Front	< 13	< 4.6	< 5.7	< 110 N,J	< 6.5	< 5.4	< 150 N,J	< 180 UJ,N,J	< 85 N,J	< 5.7	< 6.5	< 4.5	< 7.4	< 4.6	< 6.5
R24603SVH	24603 RAVENNA AVE	2011-02-24	09:28	House	14	< 3.9	9.9	< 90	10	< 4.5	< 130	< 150	< 72	< 4.8	< 5.4	< 3.8	< 6.2	< 3.8	< 5.4
R24603SVF	24603 RAVENNA AVE	2011-02-24	10:10	Front	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
R24603SVB	24603 RAVENNA AVE	2011-02-24	11:07	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
R24603SVBS	24603 RAVENNA AVE	2011-02-24	11:07	Back	< 3.1	< 1.5	< 3.1		< 1.5	< 1.5				< 1.5	< 1.5	< 3.1	< 1.5	< 1.5	< 1.5
R24603SVH	24603 RAVENNA AVE	2012-06-01	15:50	House	< 7.9	< 2.8	< 3.5	< 66	< 3.9	< 3.3	< 93	< 110	< 52	< 3.5	< 3.9	< 2.8	< 4.5	< 28	< 3.9
R24603SVB	24603 RAVENNA AVE	2012-06-01	15:51	Back	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
					Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
					Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
R24603SVBD	24603 RAVENNA AVE	2012-06-01	15:51	Back	< 8	< 2.9	< 3.5	< 67	< 4	< 3.3	< 95	< 110	< 53	< 3.5	< 4	< 2.8	< 4.6	< 28	< 4
R24603SVF	24603 RAVENNA AVE	2012-06-01	16:24	Front	< 7.7	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 91	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
R24603SVFD	24603 RAVENNA AVE	2012-06-01	16:24	Front	< 7.7	< 2.8	< 3.4	< 64	< 3.8	< 3.2	< 91	< 110	< 51	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24606SVB	24606 MARBELLA AVE	2010-04-20	14:37	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24606SVF	24606 MARBELLA AVE	2010-04-20	15:41	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24606SVH	24606 MARBELLA AVE	2010-04-20	16:40	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.7	< 130 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24606SVF	24606 MARBELLA AVE	2012-01-13	12:28	Front	< 7.6	< 2.7	3.9	< 64	< 3.8	< 3.2	< 90	< 110	170	< 3.4	< 3.8	< 2.7	< 4.4	< 2.7	< 3.8
M24606SVFS	24606 MARBELLA AVE	2012-01-13	12:28	Front	< 3.4 U	< 1.7 U	< 3.4 U		< 1.7 U	< 1.7 U				< 1.7 U	< 1.7 U	< 3.4 U	< 1.7 U	< 1.7 U	< 1.7 U
M24606SVH	24606 MARBELLA AVE	2012-01-13	13:17	House	< 7.9	< 2.8	< 3.5	< 66	4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 2.8	< 4
M24606SVHS	24606 MARBELLA AVE	2012-01-13	13:17	House	< 3.6 U	< 1.8 U	< 3.6 U		2.1	< 1.8 U				< 1.8 U	< 1.8 U	< 3.6 U	< 1.8 U	< 1.8 U	< 1.8 U
M24606SVB	24606 MARBELLA AVE	2012-01-13	13:54	Back	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 2.7	< 3.9
M24606SVBS	24606 MARBELLA AVE	2012-01-13	13:54	Back	< 3.5 U	< 1.8 U	< 3.5 U		< 1.8 U	< 1.8 U				< 1.8 U	< 1.8 U	< 3.5 U	< 1.8 U	< 1.8 U	< 1.8 U
N24608SVF	24608 NEPTUNE AVE	2010-04-29	15:18	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.7	< 130 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24608SVB	24608 NEPTUNE AVE	2010-04-29	16:18	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24608SVH	24608 NEPTUNE AVE	2010-07-09	13:17	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24608SVH	24608 NEPTUNE AVE	2010-09-08	13:44	House	< 11	15	< 5	< 95	< 5.7	11	< 140	< 160	< 75	< 5	< 5.7	4.1	< 6.5	7.5	< 5.7
N24608SVF	24608 NEPTUNE AVE	2010-09-08	14:15	Front	< 12	6.9	< 5.3	< 100	< 6	6.8	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 4.2	< 6
N24608SVB	24608 NEPTUNE AVE	2010-09-08	15:06	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24608SVH	24608 NEPTUNE AVE	2012-05-18	14:50	House	< 7.7	< 2.7	< 3.4	< 64	< 3.8	3.7	< 91	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
N24608SVF	24608 NEPTUNE AVE	2012-05-18	15:04	Front	< 8.2	< 2.9	< 3.6	< 68	< 4.1	< 3.4	< 97	< 120	< 54	< 3.6	< 4.1	< 2.8	< 4.7	< 29	< 4.1
N24608SVFD	24608 NEPTUNE AVE	2012-05-18	15:04	Front	< 8.2	< 3	< 3.6	< 69	< 4.1	3.7	< 98	< 120	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 29	< 4.1
N24608SVB	24608 NEPTUNE AVE	2012-05-18	15:22	Back	< 8	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.6	< 28	< 4
N24608SVH	24608 NEPTUNE AVE	2013-08-30	15:02	House	37	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
N24608SVB	24608 NEPTUNE AVE	2013-08-30	15:18	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
N24608SVF	24608 NEPTUNE AVE	2013-08-30	15:41	Front	< 12	< 4.2	< 5.2	< 99	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.8	< 42	< 5.9
P24608SVB	24608 PANAMA AVE	2010-08-12	14:47	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	170 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24608SVF	24608 PANAMA AVE	2010-08-12	15:23	Front	< 12	< 4.2	< 5.2	< 98 N,J	< 5.8	< 4.9	< 140 N,J	< 160 N,J	< 77 N,J	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
P24608SVB	24608 PANAMA AVE	2012-04-06	15:43	Back	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
P24608SVBD	24608 PANAMA AVE	2012-04-06	15:43	Back	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
P24608SVF	24608 PANAMA AVE	2012-04-06	16:26	Front	< 7.5	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	< 26	< 3.7
P24608SVHA	24608 PANAMA AVE	2012-04-27	11:38	House	< 7.7	< 2.8	< 3.4	< 64	7.5	< 3.2	< 91	< 110	< 51	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
R24608SVB	24608 RAVENNA AVE	2010-04-08	11:15	Back	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
R24608SVF	24608 RAVENNA AVE	2010-04-08	12:14	Front	< 12	< 4.2	< 5.2	< 98 N,J	< 5.8	< 4.9	< 140 N,J	< 160 N,J	< 77 N,J	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
R24608SVG	24608 RAVENNA AVE	2010-08-04	13:23	Garage	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24608SVG	24608 RAVENNA AVE	2012-05-17	15:13	Garage	< 8.2	< 3	< 3.6	< 69	< 4.1	< 3.4	< 98	< 120	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 29	< 4.1
R24608SVGD	24608 RAVENNA AVE	2012-05-17	15:13	Garage	< 8.1	< 2.9	< 3.6	< 68	< 4	< 3.4	< 96	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 29	< 4
R24608SVB	24608 RAVENNA AVE	2012-05-17	15:25	Back	< 7.7	< 2.8	< 3.4	< 64	< 3.8	< 3.2	< 91	< 110	< 51	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
R24608SVF	24608 RAVENNA AVE	2012-05-17	16:01	Front	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
R24608SVG	24608 RAVENNA AVE	2013-08-22	10:02	Garage	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24608SVB	24608 RAVENNA AVE	2013-08-22	10:04	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
R24608SVF	24608 RAVENNA AVE	2013-08-22	10:33	Front	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 42	< 6
R24608SVFS	24608 RAVENNA AVE	2013-08-22	10:33	Front	< 20 U	< 2 U	< 4.1 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4.1 U	< 2 U	< 2 U	< 2 U
N24609SVH	24609 NEPTUNE AVE	2010-04-28	14:09	House	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
N24609SVF	24609 NEPTUNE AVE	2010-04-28	15:06	Front	< 12	< 4.2	< 5.2	< 99 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.1	< 6.8	< 4.2	< 5.9
N24609SVFS	24609 NEPTUNE AVE	2010-04-28	15:06	Front	< 3.5	< 1.7	< 3.5		< 1.7	< 1.7				< 1.7	< 1.7	< 3.5	< 1.7	< 1.7	< 1.7
N24609SVB	24609 NEPTUNE AVE	2010-04-28	15:48	Back	33	< 4.1	< 5.1	< 96 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 76 N,J	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
N24609SVF	24609 NEPTUNE AVE	2010-08-20	13:35	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24609SVH	24609 NEPTUNE AVE	2010-08-20	14:03	House	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 4.3	< 6.1
N24609SVB	24609 NEPTUNE AVE	2010-08-20	14:30	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24609SVH	24609 NEPTUNE AVE	2010-12-10	15:19	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
N24609SVB	24609 NEPTUNE AVE	2010-12-10	15:42	Back	< 11	< 3.9	< 4.8	< 90	< 5.4	< 4.5	< 130	< 150	< 72	< 4.8	< 5.4	< 3.8	< 6.2	< 3.8	< 5.4
N24609SVBD	24609 NEPTUNE AVE	2010-12-10	15:42	Back	< 11	< 3.9	< 4.8	< 90	< 5.4	< 4.5	< 130	< 150	< 72	< 4.8	< 5.4	< 3.8	< 6.2	< 3.8	< 5.4

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
				Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
				Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
N24609SVF	24609 NEPTUNE AVE	2010-12-10	15:52	Front	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
N24609SVH	24609 NEPTUNE AVE	2013-05-03	10:11	House	< 10	< 3.6	< 4.4	< 84	< 5	< 4.2	< 120	< 140	< 66	< 4.4	< 5	< 3.5	< 5.7	< 35	< 5
N24609SVB	24609 NEPTUNE AVE	2013-05-03	10:33	Back	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
N24609SVF	24609 NEPTUNE AVE	2013-05-03	10:55	Front	< 13	< 4.6	< 5.6	< 110	< 6.4	< 5.3	< 150	< 180	< 84	< 5.6	< 6.4	< 4.5	< 7.3	< 45	< 6.4
P24609SVH	24609 PANAMA AVE	2010-04-30	13:27	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24609SVF	24609 PANAMA AVE	2010-04-30	14:39	Front	13	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24609SVB	24609 PANAMA AVE	2010-04-30	15:33	Back	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24609SVH	24609 PANAMA AVE	2010-10-25	09:26	House	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 4.2	< 6
P24609SVF	24609 PANAMA AVE	2010-10-25	10:11	Front	< 9.8	< 3.5	< 4.3	< 82	< 4.9	< 4.1	< 120	< 140	< 64	< 4.3	< 4.9	< 3.4	< 5.6	< 3.4	< 4.9
P24609SVB	24609 PANAMA AVE	2010-10-25	10:56	Back	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
P24609SVBS	24609 PANAMA AVE	2010-10-25	10:56	Back	< 4.1	< 2	< 4.1		< 2	< 2				< 2	< 2	< 4.1	< 2	< 2	< 2
P24609SVF	24609 PANAMA AVE	2011-02-18	10:08	Front	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
P24609SVFS	24609 PANAMA AVE	2011-02-18	10:08	Front	< 3.4	< 1.7	< 3.4		< 1.7	< 1.7				< 1.7	< 1.7	< 3.4	2.4	< 1.7	< 1.7
P24609SVH	24609 PANAMA AVE	2011-02-18	10:31	House	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
P24609SVB	24609 PANAMA AVE	2011-02-18	11:28	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 4.2	< 6
R24609SVH	24609 RAVENNA AVE	2010-11-09	09:25	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
R24609SVG	24609 RAVENNA AVE	2010-11-09	09:59	Garage	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24609SVB	24609 RAVENNA AVE	2010-11-09	10:31	Back	< 11	< 3.9	< 4.8	< 91	< 5.5	< 4.6	< 130	< 160	< 72	< 4.8	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
R24609SVH	24609 RAVENNA AVE	2012-09-21	15:01	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
R24609SVB	24609 RAVENNA AVE	2010-11-09	10:31	Back	< 11	< 3.9	< 4.8	< 91	< 5.5	< 4.6	< 130	< 160	< 72	< 4.8	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
R24609SVH	24609 RAVENNA AVE	2012-09-21	15:01	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
R24609SVG	24609 RAVENNA AVE	2012-09-21	15:02	Garage	< 13	< 4.6	< 5.7	< 110	< 6.5	< 5.4	< 150	< 180	< 85	< 5.7	< 6.5	< 4.5	< 7.4	< 46	< 6.5
R24609SVB	24609 RAVENNA AVE	2012-09-21	15:34	Back	14	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 39	< 5.5
R24609SVH	24609 RAVENNA AVE	2013-04-30	14:54	House	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
R24609SVB	24609 RAVENNA AVE	2013-04-30	15:08	Back	< 12	< 4.4	< 5.4	< 100	< 6.2	< 5.1	< 150	< 170	< 81	< 5.4	< 6.2	< 4.3	< 7	< 44	< 6.2
R24609SVG	24609 RAVENNA AVE	2013-04-30	15:22	Garage	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
M24612SVH	24612 MARBELLA AVE	2010-08-13	09:15	House	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
M24612SVB	24612 MARBELLA AVE	2010-08-13	10:03	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24612SVG	24612 MARBELLA AVE	2010-08-13	10:48	Garage	< 12	< 4.2	< 5.2	< 98 N,J	< 5.8	< 4.9	< 140 N,J	< 160 N,J	< 77 N,J	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
M24612SVH	24612 MARBELLA AVE	2012-05-10	14:39	House	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24612SVG	24612 MARBELLA AVE	2012-05-10	14:53	Garage	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
M24612SVGD	24612 MARBELLA AVE	2012-05-10	14:53	Garage	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
M24612SVB	24612 MARBELLA AVE	2012-05-10	15:17	Back	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
N24612SVH	24612 NEPTUNE AVE	2010-11-11	09:14	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
N24612SVF	24612 NEPTUNE AVE	2010-11-11	09:44	Front	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
N24612SVFD	24612 NEPTUNE AVE	2010-11-11	09:44	Front	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
N24612SVBA	24612 NEPTUNE AVE	2011-02-07	09:21	Back	< 11	< 3.8	< 4.7	< 88	< 5.3	< 4.4	< 120	< 150	< 70	< 4.7	< 5.3	< 3.7	< 6.1	< 3.8	< 5.3
N24612SVBAS	24612 NEPTUNE AVE	2011-02-07	09:21	Back	< 3.3	< 1.6	< 3.3		< 1.6	< 1.6				< 1.6	< 1.6	< 3.3	< 1.6	< 1.6	< 1.6
N24612SVF	24612 NEPTUNE AVE	2011-03-11	14:50	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24612SVH	24612 NEPTUNE AVE	2011-03-11	15:17	House	< 12	5.7	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	4.5	< 5.9
N24612SVBA	24612 NEPTUNE AVE	2011-03-11	15:27	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24612SVH	24612 NEPTUNE AVE	2013-08-13	14:56	House	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.4	< 39	< 5.6
N24612SVF	24612 NEPTUNE AVE	2013-08-13	15:31	Front	21	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 42	< 6
N24612SVBA	24612 NEPTUNE AVE	2013-08-13	15:48	Back	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
P24612SVB	24612 PANAMA AVE	2013-01-25	10:24	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
P24612SVG	24612 PANAMA AVE	2013-01-25	10:58	Garage	< 11	< 3.8	< 4.7	< 88	< 5.3	< 4.4	< 120	< 150	< 70	< 4.7	< 5.3	< 3.7	< 6.1	< 38	< 5.3
P24612SVHA	24612 PANAMA AVE	2013-02-06	15:34	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
P24612SVHA	24612 PANAMA AVE	2013-05-17	14:51	House	< 12	5	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 81 PF	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
P24612SVB	24612 PANAMA AVE	2013-05-17	15:28	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79 PF	< 5.3	< 6	< 4.2	< 6.9	< 42	< 6
P24612SVBD	24612 PANAMA AVE	2013-05-17	15:28	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80 PF	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
P24612SVG	24612 PANAMA AVE	2013-05-17	15:34	Garage	< 12	6.7	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76 PF	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
R24612SVH	24612 RAVENNA AVE	2011-01-14	10:04	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24612SVG	24612 RAVENNA AVE	2011-01-14	10:51	Garage	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
R24612SVBB	24612 RAVENNA AVE	2011-01-14	11:35	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
					Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
					Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
R24612SVBB	24612 RAVENNA AVE	2012-11-01	14:46	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24612SVBBD	24612 RAVENNA AVE	2012-11-01	14:46	Back	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
R24612SVH	24612 RAVENNA AVE	2012-11-01	14:49	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
R24612SVG	24612 RAVENNA AVE	2012-11-01	15:32	Garage	< 11	< 3.8	< 4.7	< 89	< 5.4	< 4.5	< 130	< 150	< 70	< 4.7	< 5.4	< 3.8	< 6.1	< 38	< 5.4
R24612SVBB	24612 RAVENNA AVE	2013-06-25	14:50	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 80	< 5.3	< 6	< 4.2	< 6.9	< 43	< 6
R24612SVH	24612 RAVENNA AVE	2013-06-25	14:53	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24612SVG	24612 RAVENNA AVE	2013-06-25	15:18	Garage	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
M24613SVH	24613 MARBELLA AVE	2010-05-26	09:03	House	< 11	< 4	< 5	< 93 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 4.9	< 5.6	< 3.9	< 6.4	< 4	< 5.6
M24613SVG	24613 MARBELLA AVE	2010-05-26	10:01	Garage	< 12	< 4.1	< 5.1	< 96 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 76 N,J	32	< 5.8	< 4	< 6.6	< 4.1	< 5.8
M24613SVB	24613 MARBELLA AVE	2010-05-26	10:49	Back	< 12	< 4.1	< 5.1	< 96 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 76 N,J	< 5.1	< 5.8	< 4	< 6.6	4 J	< 5.8
M24613SVG	24613 MARBELLA AVE	2012-10-11	11:01	Garage	< 12	< 4.3	< 5.2	410	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
M24613SVGS	24613 MARBELLA AVE	2012-10-11	11:01	Garage	< 18 U	2.7	< 3.6 U		< 1.8 U	2.3				< 1.8 U	< 1.8 U	< 3.6 U	< 1.8 U	< 1.8 U	< 1.8 U
M24613SVB	24613 MARBELLA AVE	2012-10-11	11:41	Back	< 11	5.7	< 4.7	< 88	< 5.3	5	< 120	< 150	< 70	< 4.7	< 5.3	< 3.7	< 6.1	< 38	< 5.3
M24613SVHA	24613 MARBELLA AVE	2012-10-24	12:14	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
M24613SVHA	24613 MARBELLA AVE	2013-04-19	10:01	House	< 11	< 3.9	< 4.8	< 91	< 5.5	< 4.6	< 130	< 160	< 72 PF	< 4.8	< 5.5	< 3.8	< 6.3	< 39	< 5.5
M24613SVB	24613 MARBELLA AVE	2013-04-19	10:10	Back	< 12	< 4.2	< 5.2	< 99	< 5.9	< 4.9	< 140	< 170	< 78 PF	< 5.2	< 5.9	< 4.1	< 6.8	< 42	< 5.9
M24613SVBD	24613 MARBELLA AVE	2013-04-19	10:10	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 80 PF	< 5.3	< 6	< 4.2	< 6.9	< 43	< 6
M24613SVG	24613 MARBELLA AVE	2013-04-19	10:35	Garage	< 11	< 3.8	< 4.7	< 89	< 5.4	< 4.5	< 130	< 150	< 70 PF	< 4.7	< 5.4	< 3.8	< 6.1	< 38	< 5.4
N24613SVB	24613 NEPTUNE AVE	2010-08-09	13:59	Back	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24613SVF	24613 NEPTUNE AVE	2010-08-09	14:44	Front	< 12	< 4.2	< 5.2	< 98 N,J	< 5.8	< 4.9	< 140 N,J	< 160 N,J	< 77 N,J	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
N24613SVH	24613 NEPTUNE AVE	2012-05-11	09:55	House	< 7.5	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	< 26	< 3.7
N24613SVF	24613 NEPTUNE AVE	2012-05-11	10:04	Front	< 8.1	< 2.9	< 3.6	< 67	< 4	< 3.4	< 95	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 28	< 4
N24613SVFS	24613 NEPTUNE AVE	2012-05-11	10:04	Front	< 3.8 U	< 1.9 U	< 3.8 U		< 1.9 U	< 1.9 U				< 1.9 U	< 1.9 U	< 3.8 U	< 1.9 U	< 1.9 U	< 1.9 U
N24613SVB	24613 NEPTUNE AVE	2012-05-11	10:42	Back	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
N24613SVBS	24613 NEPTUNE AVE	2012-05-11	10:42	Back	< 3.5 U	< 1.8 U	< 3.5 U		< 1.8 U	< 1.8 U				< 1.8 U	< 1.8 U	< 3.5 U	< 1.8 U	< 1.8 U	< 1.8 U
N24613SVB	24613 NEPTUNE AVE	2013-08-29	09:42	Back	< 13	< 4.6	< 5.6	< 110	< 6.4	< 5.3	< 150	< 180	< 84	< 5.6	< 6.4	< 4.4	< 7.3	< 45	< 6.4
N24613SVBD	24613 NEPTUNE AVE	2013-08-29	09:42	Back	< 13	< 4.6	< 5.6	< 110	< 6.4	< 5.3	< 150	< 180	< 84	< 5.6	< 6.4	< 4.4	< 7.3	< 45	< 6.4
N24613SVH	24613 NEPTUNE AVE	2013-08-29	09:47	House	< 13	< 4.5	< 5.6	< 100	< 6.3	< 5.3	< 150	< 180	< 84	< 5.6	< 6.3	< 4.4	< 7.2	< 45	< 6.3
P24613SVF	24613 PANAMA AVE	2010-06-25	14:07	Front	< 12	< 4.2	< 5.2	< 99 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.1	< 6.8	< 4.2	< 5.9
P24613SVH	24613 PANAMA AVE	2010-06-25	14:43	House	13	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	56	< 5.9
P24613SVB	24613 PANAMA AVE	2010-06-25	15:25	Back	< 12	< 4.1	< 5.1	< 96 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 76 N,J	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
P24613SVH	24613 PANAMA AVE	2011-02-10	10:10	House	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
P24613SVF	24613 PANAMA AVE	2011-02-10	10:48	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24613SVB	24613 PANAMA AVE	2011-02-10	10:59	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
P24613SVB	24613 PANAMA AVE	2012-09-13	14:58	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
P24613SVBD	24613 PANAMA AVE	2012-09-13	14:58	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
P24613SVF	24613 PANAMA AVE	2012-09-13	15:05	Front	< 12	14	< 5.2	< 98	< 5.8	16	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
P24613SVH	24613 PANAMA AVE	2012-09-13	15:45	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
R24613SVH	24613 RAVENNA AVE	2009-12-31	13:46	House	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
R24613SVF	24613 RAVENNA AVE	2009-12-31	14:22	Front	14	< 4.3	27	< 100 N,J	13	< 5	< 140 N,J	< 170 N,J	< 79 N,J	7.6	< 6	< 4.2	< 6.8	< 4.2	10
R24613SVFS	24613 RAVENNA AVE	2009-12-31	14:22	Front	8.7	< 2.1	< 4.2		< 2.1	< 2.1				< 2.1	3	< 4.2	1.3 J	< 2.1	< 2.1
R24613SVB	24613 RAVENNA AVE	2009-12-31	15:07	Back	< 12	< 4.2	< 5.2	< 99 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.1	< 6.8	< 4.2	< 5.9
R24613SVH	24613 RAVENNA AVE	2011-05-20	10:20	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24613SVF	24613 RAVENNA AVE	2011-05-20	10:26	Front	< 22	< 8	< 9.8	< 180	< 11	10	< 260	< 320	< 150	< 9.8	< 11	< 7.8	< 13	< 7.9	< 11
R24613SVFS	24613 RAVENNA AVE	2011-05-20	10:26	Front	< 3.4 U	< 1.7 U	< 3.4 U		< 1.7 U	< 1.7 U				< 1.7 U	< 1.7 U	< 3.4 U	< 1.7 U	< 1.7 U	< 1.7 U
R24613SVB	24613 RAVENNA AVE	2011-05-20	10:55	Back	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
R24613SVBS	24613 RAVENNA AVE	2011-05-20	10:55	Back	< 3.5 U	< 1.8 U	< 3.5 U		< 1.8 U	< 1.8 U				< 1.8 U	< 1.8 U	< 3.5 U	< 1.8 U	< 1.8 U	< 1.8 U
M24616SVH	24616 MARBELLA AVE	2010-04-22	15:26	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	1100 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24616SVB	24616 MARBELLA AVE	2010-04-22	16:44	Back	< 22	< 8.1	< 9.9	< 190 N,J	< 11	< 9.4	< 270 N,J	770 N,J	< 150 N,J	< 9.9	< 11	< 7.9	< 13	< 8	< 11
M24616SVF	24616 MARBELLA AVE	2010-04-23	11:55	Front	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
M24616SVFD	24616 MARBELLA AVE	2010-04-23	11:55	Front	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
M24616SVH	24616 MARBELLA AVE	2010-08-25	09:07	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
Analyte																			
Units					UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
Frequency of Detection					4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
M24616SVB	24616 MARBELLA AVE	2010-08-25	09:52	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24616SVF	24616 MARBELLA AVE	2010-08-25	10:30	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
M24616SVH	24616 MARBELLA AVE	2011-03-18	15:10	House	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
M24616SVF	24616 MARBELLA AVE	2011-03-18	15:25	Front	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
M24616SVFD	24616 MARBELLA AVE	2011-03-18	15:25	Front	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
M24616SVB	24616 MARBELLA AVE	2011-03-18	15:52	Back	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
M24616SVB	24616 MARBELLA AVE	2013-08-06	14:48	Back	< 12	< 4.4	< 5.4	< 100	< 6.2	< 5.1	< 150	< 170	< 81	< 5.4	< 6.2	< 4.3	< 7	< 44	< 6.2
M24616SVH	24616 MARBELLA AVE	2013-08-06	14:48	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
M24616SVF	24616 MARBELLA AVE	2013-08-06	15:10	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
M24617SVB	24617 MARBELLA AVE	2010-08-03	09:05	Back	< 10	< 3.6	< 4.4	< 84 N,J	< 5	< 4.2	< 120 N,J	< 140 N,J	< 66 N,J	< 4.4	< 5	< 3.5	< 5.8	< 3.6	< 5
M24617SVG	24617 MARBELLA AVE	2010-08-03	10:01	Garage	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24617SVB	24617 MARBELLA AVE	2012-05-03	10:00	Back	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24617SVBS	24617 MARBELLA AVE	2012-05-03	10:00	Back	< 3.7 U	< 1.8 U	< 3.7 U		< 1.8 U	< 1.8 U				< 1.8 U	< 1.8 U	< 3.7 U	< 1.8 U	< 1.8 U	< 1.8 U
M24617SVH	24617 MARBELLA AVE	2012-05-03	10:20	House	< 7.4	< 2.6	< 3.2	< 61	< 3.7	< 3.1	< 87	< 100	< 48	< 3.2	< 3.7	< 2.6	< 4.2	< 26	< 3.7
M24617SVG	24617 MARBELLA AVE	2012-05-03	10:41	Garage	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
M24617SVGS	24617 MARBELLA AVE	2012-05-03	10:41	Garage	< 3.5 U	< 1.8 U	< 3.5 U		< 1.8 U	< 1.8 U				< 1.8 U	< 1.8 U	< 3.5 U	< 1.8 U	< 1.8 U	< 1.8 U
N24618SVH	24618 NEPTUNE AVE	2010-05-19	09:19	House	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24618SVB	24618 NEPTUNE AVE	2010-05-19	10:10	Back	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24618SVF	24618 NEPTUNE AVE	2010-05-19	11:06	Front	< 11	< 3.9	< 4.9	120 N,J	< 5.5	< 4.6	< 130 N,J	< 160 N,J	< 72 N,J	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
N24618SVH	24618 NEPTUNE AVE	2010-09-08	13:39	House	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
N24618SVF	24618 NEPTUNE AVE	2010-09-08	14:22	Front	< 12	< 4.2	6.9	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
N24618SVB	24618 NEPTUNE AVE	2010-09-08	15:07	Back	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
N24618SVF	24618 NEPTUNE AVE	2011-01-27	14:57	Front	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
N24618SVH	24618 NEPTUNE AVE	2011-01-27	15:40	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24618SVHD	24618 NEPTUNE AVE	2011-01-27	15:40	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24618SVB	24618 NEPTUNE AVE	2011-01-27	16:17	Back	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
N24618SVH	24618 NEPTUNE AVE	2012-07-27	14:51	House	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
N24618SVF	24618 NEPTUNE AVE	2012-07-27	14:59	Front	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
N24618SVB	24618 NEPTUNE AVE	2012-07-27	15:29	Back	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
P24618SVF	24618 PANAMA AVE	2010-05-14	09:40	Front	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
P24618SVG	24618 PANAMA AVE	2010-05-14	12:01	Garage	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24618SVGD	24618 PANAMA AVE	2010-05-14	12:01	Garage	< 15	< 5.4	< 6.7	< 130 N,J	< 7.6	< 6.3	< 180 N,J	< 210 N,J	< 100 N,J	< 6.7	< 7.6	< 5.3	< 8.6	< 5.4	< 7.6
P24618SVB	24618 PANAMA AVE	2010-08-11	10:08	Back	< 12	< 4.1	< 5.1	< 96 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 76 N,J	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
P24618SVG	24618 PANAMA AVE	2012-04-19	15:22	Garage	< 13	< 4.5	< 5.6	< 100	< 6.3	< 5.3	< 150	< 180 PF	< 83	< 5.6	< 6.3	< 4.4	< 7.2	< 45	< 6.3
P24618SVGD	24618 PANAMA AVE	2012-04-19	15:22	Garage	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110 PF	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
P24618SVF	24618 PANAMA AVE	2012-04-19	15:45	Front	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110 PF	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
R24618SVG	24618 RAVENNA AVE	2013-02-15	09:50	Garage	< 21	< 7.5	< 9.2	< 170	< 10	< 8.7	< 250	< 300	< 140	< 9.2	< 10	< 7.3	< 12	< 74	< 10
R24618SVB	24618 RAVENNA AVE	2013-02-15	10:21	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
R24618SVBD	24618 RAVENNA AVE	2013-02-15	10:21	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
R24618SVHA	24618 RAVENNA AVE	2013-02-27	14:57	House	15	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
R24618SVG	24618 RAVENNA AVE	2013-06-25	09:55	Garage	< 11	< 3.8	< 4.8	< 90	< 5.4	< 4.5	< 130	< 150	< 71	< 4.8	< 5.4	< 3.8	< 6.2	< 38	< 5.4
R24618SVGD	24618 RAVENNA AVE	2013-06-25	09:55	Garage	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.4	< 39	< 5.6
R24618SVHA	24618 RAVENNA AVE	2013-06-25	10:24	House	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.9	< 42	< 6
R24618SVB	24618 RAVENNA AVE	2013-06-25	10:37	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 42	< 6
N24619SVH	24619 NEPTUNE AVE	2010-06-17	09:36	House	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
N24619SVB	24619 NEPTUNE AVE	2010-06-17	10:26	Back	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
N24619SVF	24619 NEPTUNE AVE	2010-06-17	11:07	Front	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
N24619SVH	24619 NEPTUNE AVE	2012-07-13	10:14	House	< 8.1	< 2.9	< 3.6	< 67	< 4	< 3.4	< 95	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 28	< 4
N24619SVHS	24619 NEPTUNE AVE	2012-07-13	10:14	House	< 21 U	< 2.1 U	< 4.1 U		< 2.1 U	< 2.1 U				< 2.1 U	< 2.1 U	< 4.1 U	< 2.1 U	< 2.1 U	< 2.1 U
N24619SVF	24619 NEPTUNE AVE	2012-07-13	10:46	Front	< 8.4	< 3	< 3.7	< 70	< 4.2	< 3.5	< 100	< 120	< 55	< 3.7	< 4.2	< 2.9	< 4.8	< 30	< 4.2
N24619SVFS	24619 NEPTUNE AVE	2012-07-13	10:46	Front	< 21 U	< 2.1 U	< 4.2 U		< 2.1 U	< 2.1 U				< 2.1 U	< 2.1 U	< 4.2 U	< 2.1 U	< 2.1 U	< 2.1 U
N24619SVB	24619 NEPTUNE AVE	2012-07-13	11:01	Back	< 8.1	< 2.9	< 3.6	< 67	< 4	< 3.4	< 95	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 28	< 4

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
					Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
					Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
P24619SVH	24619 PANAMA AVE	2010-04-27	14:34	House	48	< 3.9	< 4.9	< 92 N,J	< 5.5	< 4.6	< 130 N,J	< 160 N,J	< 72 N,J	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
P24619SVB	24619 PANAMA AVE	2010-04-27	15:08	Back	< 12	< 4.2	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
P24619SVBD	24619 PANAMA AVE	2010-04-27	15:08	Back	< 12	< 4.2	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
P24619SVF	24619 PANAMA AVE	2010-04-27	15:58	Front	< 12	< 4.2	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
P24619SVH	24619 PANAMA AVE	2010-05-25	13:59	House	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24619SVH	24619 PANAMA AVE	2010-10-11	14:30	House	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 4.3	< 6.1
P24619SVF	24619 PANAMA AVE	2010-10-11	15:09	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
P24619SVB	24619 PANAMA AVE	2010-10-11	15:57	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24619SVBS	24619 PANAMA AVE	2010-10-11	15:57	Back	5.9	< 1.7	< 3.4		< 1.7	< 1.7				< 1.7	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7
P24619SVF	24619 PANAMA AVE	2011-02-11	14:43	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
P24619SVB	24619 PANAMA AVE	2011-02-11	15:10	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
P24619SVHA	24619 PANAMA AVE	2011-12-08	15:10	House	< 7.5	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	< 2.6	< 3.7
P24619SVF	24619 PANAMA AVE	2011-12-08	15:39	Front	< 8.1	< 2.9	< 3.6	< 67	< 4	< 3.4	< 95	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 2.8	< 4
P24619SVFS	24619 PANAMA AVE	2011-12-08	15:39	Front	< 3.7 U	< 1.8 U	< 3.7 U		< 1.8 U	< 1.8 U				< 1.8 U	< 1.8 U	< 3.7 U	< 1.8 U	< 1.8 U	< 1.8 U
P24619SVB	24619 PANAMA AVE	2011-12-08	16:09	Back	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 2.7	< 3.8
P24619SVBS	24619 PANAMA AVE	2011-12-08	16:09	Back	< 3.4 U	< 1.7 U	< 3.4 U		< 1.7 U	< 1.7 U				< 1.7 U	< 1.7 U	< 3.4 U	< 1.7 U	< 1.7 U	< 1.7 U
R24619SVF	24619 RAVENNA AVE	2010-08-30	13:40	Front	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	6.8 b	< 6.2
R24619SVB	24619 RAVENNA AVE	2010-08-30	14:24	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 4.2	< 6
R24619SVBD	24619 RAVENNA AVE	2010-08-30	14:24	Back	< 16	< 5.6	< 6.9	< 130	< 7.8	< 6.5	< 180	< 220	< 100	< 6.9	< 7.8	< 5.5	< 9	< 5.5	< 7.8
R24619SVF	24619 RAVENNA AVE	2013-03-01	09:58	Front	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 42	< 6
R24619SVFS	24619 RAVENNA AVE	2013-03-01	09:58	Front	< 17 U	< 1.7 U	< 3.3 U		< 1.7 U	< 1.7 U				< 1.7 U	< 1.7 U	< 3.3 U	< 1.7 U	< 1.7 U	< 1.7 U
R24619SVB	24619 RAVENNA AVE	2013-03-01	10:28	Back	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
R24619SVBS	24619 RAVENNA AVE	2013-03-01	10:28	Back	< 17 U	< 1.7 U	< 3.3 U		< 1.7 U	< 1.7 U				< 1.7 U	< 1.7 U	< 3.3 U	< 1.7 U	< 1.7 U	< 1.7 U
R24619SVHA	24619 RAVENNA AVE	2013-03-15	09:41	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
R24619SVHA	24619 RAVENNA AVE	2013-07-19	14:47	House	< 11	< 3.8	< 4.7	< 88	< 5.3	< 4.4	< 120	< 150	< 70	< 4.7	< 5.3	< 3.7	< 6.1	< 38	< 5.3
R24619SVB	24619 RAVENNA AVE	2013-07-19	14:49	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24619SVF	24619 RAVENNA AVE	2013-07-19	15:24	Front	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
M24622SVH	24622 MARBELLA AVE	2010-05-28	13:48	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.7	< 130 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24622SVB	24622 MARBELLA AVE	2010-05-28	14:26	Back	< 11	< 3.9	< 4.8	< 91 N,J	< 5.5	< 4.6	< 130 N,J	< 160 N,J	< 72 N,J	< 4.8	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
M24622SVG	24622 MARBELLA AVE	2010-05-28	15:27	Garage	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
M24622SVH	24622 MARBELLA AVE	2012-11-16	09:57	House	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 39	< 5.5
M24622SVG	24622 MARBELLA AVE	2012-11-16	10:05	Garage	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
M24622SVB	24622 MARBELLA AVE	2012-11-16	10:41	Back	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 39	< 5.5
M24622SVB	24622 MARBELLA AVE	2013-06-07	09:45	Back	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
M24622SVBS	24622 MARBELLA AVE	2013-06-07	09:45	Back	< 20 U	< 2 U	< 4 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4 U	< 2 U	< 2 U	< 2 U
M24622SVH	24622 MARBELLA AVE	2013-06-07	09:47	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
M24622SVG	24622 MARBELLA AVE	2013-06-07	10:09	Garage	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
M24622SVGS	24622 MARBELLA AVE	2013-06-07	10:09	Garage	< 20 U	< 2 U	< 4 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4 U	< 2 U	< 2 U	< 2 U
N24622SVB	24622 NEPTUNE AVE	2010-08-19	09:33	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
N24622SVH	24622 NEPTUNE AVE	2010-08-19	10:18	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24622SVF	24622 NEPTUNE AVE	2010-08-19	11:03	Front	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24622SVF	24622 NEPTUNE AVE	2011-02-01	09:40	Front	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
N24622SVB	24622 NEPTUNE AVE	2011-02-01	10:25	Back	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 4.4	< 6.2
N24622SVH	24622 NEPTUNE AVE	2011-02-01	11:06	House	< 12	< 4.3	< 5.2	< 99	8.1	< 5	1400	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	7.9
N24622SVH	24622 NEPTUNE AVE	2012-03-30	10:57	House	< 7.7	< 2.7	< 3.4	< 64	7.4	< 3.2	< 91	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
N24622SVF	24622 NEPTUNE AVE	2013-08-21	10:21	Front	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 42	< 6
N24622SVFS	24622 NEPTUNE AVE	2013-08-21	10:21	Front	< 21 U	2.1	< 4.2 U		< 2.1 U	< 2.1 U				< 2.1 U	< 2.1 U	< 4.2 U	< 2.1 U	< 2.1 U	< 2.1 U
N24622SVB	24622 NEPTUNE AVE	2013-08-21	10:40	Back	< 12	< 4.5	< 5.5	< 100	< 6.3	< 5.2	< 150	< 180	< 82	< 5.5	< 6.3	< 4.4	< 7.2	< 44	< 6.3
N24622SVHA	24622 NEPTUNE AVE	2013-08-23	12:34	House	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
M24623SVH	24623 MARBELLA AVE	2010-08-03	13:50	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	31	< 4	< 6.5	< 4	< 5.7
M24623SVG	24623 MARBELLA AVE	2010-08-03	14:07	Garage	< 12	< 4.2	< 5.2	< 98 N,J	< 5.8	< 4.9	< 140 N,J	< 160 N,J	< 77 N,J	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
M24623SVGD	24623 MARBELLA AVE	2010-08-03	14:07	Garage	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
				Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
				Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
M24623SVB	24623 MARBELLA AVE	2010-08-03	14:37	Back	< 12	< 4.4	< 5.4	< 100 N,J	< 6.1	< 5.1	< 140 N,J	< 170 N,J	< 80 N,J	< 5.4	< 6.1	< 4.2	< 6.9	< 4.3	12
M24623SVG	24623 MARBELLA AVE	2011-01-28	15:15	Garage	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24623SVH	24623 MARBELLA AVE	2011-01-28	15:21	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
M24623SVB	24623 MARBELLA AVE	2011-01-28	15:53	Back	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 4.4	< 6.2
N24623SVH	24623 NEPTUNE AVE	2010-06-11	13:58	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	220 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24623SVF	24623 NEPTUNE AVE	2010-06-11	14:50	Front	< 12	< 4.2	< 5.2	< 98 N,J	< 5.8	< 4.9	< 140 N,J	< 160 N,J	< 77 N,J	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
N24623SVB	24623 NEPTUNE AVE	2011-02-16	09:43	Back	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	72	< 4	< 5.6
N24623SVF	24623 NEPTUNE AVE	2011-02-16	10:20	Front	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24623SVFD	24623 NEPTUNE AVE	2011-02-16	10:20	Front	< 12	< 4.3	6	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24623SVH	24623 NEPTUNE AVE	2011-02-16	11:08	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
N24623SVF	24623 NEPTUNE AVE	2011-03-31	10:49	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24623SVFS	24623 NEPTUNE AVE	2011-03-31	10:49	Front	< 3.6	< 1.8	< 3.6		< 1.8	< 1.8				< 1.8	< 1.8	< 3.6	1.9	< 1.8	< 1.8
N24623SVH	24623 NEPTUNE AVE	2011-03-31	11:07	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24623SVB	24623 NEPTUNE AVE	2011-03-31	11:39	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	42	< 4	< 5.6
N24623SVBS	24623 NEPTUNE AVE	2011-03-31	11:39	Back	< 3.6	< 1.8	< 3.6		< 1.8	< 1.8				< 1.8	< 1.8	< 3.6	32	< 1.8	< 1.8
M24627SVH	24627 MARBELLA AVE	2010-07-19	13:48	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24627SVG	24627 MARBELLA AVE	2010-07-19	14:24	Garage	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24627SVB	24627 MARBELLA AVE	2010-07-19	15:05	Back	< 12	< 4.4	< 5.5	< 100 N,J	< 6.2	< 5.2	< 150 N,J	< 180 N,J	< 82 N,J	< 5.5	< 6.2	< 4.4	< 7.1	< 4.4	< 6.2
M24627SVH	24627 MARBELLA AVE	2012-05-11	14:43	House	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24627SVG	24627 MARBELLA AVE	2012-05-11	14:49	Garage	< 8.1	< 2.9	< 3.6	< 67	< 4	< 3.4	< 95	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 28	< 4
M24627SVGD	24627 MARBELLA AVE	2012-05-11	14:49	Garage	< 8.1	< 2.9	< 3.6	< 67	< 4	< 3.4	< 95	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 28	< 4
M24627SVB	24627 MARBELLA AVE	2012-05-11	15:21	Back	< 8.1	< 2.9	< 3.6	< 67	< 4	< 3.4	< 95	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 28	< 4
M24628SVF	24628 MARBELLA AVE	2010-12-03	13:44	Front	< 11	< 4.1	7.8	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24628SVFD	24628 MARBELLA AVE	2010-12-03	13:44	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
M24628SVB	24628 MARBELLA AVE	2010-12-03	14:31	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
M24628SVH	24628 MARBELLA AVE	2011-06-23	10:40	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24628SVHS	24628 MARBELLA AVE	2011-06-23	10:40	House	< 3.5 U	< 1.8 U	< 3.5 U		< 1.8 U	< 1.8 U				< 1.8 U	< 1.8 U	< 3.5 U	< 1.8 U	< 1.8 U	< 1.8 U
M24628SVB	24628 MARBELLA AVE	2011-06-23	11:24	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24628SVBS	24628 MARBELLA AVE	2011-06-23	11:24	Back	< 3.6 U	< 1.8 U	< 3.6 U		< 1.8 U	< 1.8 U				< 1.8 U	< 1.8 U	< 3.6 U	< 1.8 U	< 1.8 U	< 1.8 U
M24628SVF	24628 MARBELLA AVE	2011-06-23	12:12	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24628SVFD	24628 MARBELLA AVE	2011-06-23	12:12	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24628SVF	24628 MARBELLA AVE	2011-10-27	13:09	Front	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 2.8	< 4
M24628SVFS	24628 MARBELLA AVE	2011-10-27	13:09	Front	< 3.6 U	< 1.8 U	< 3.6 U		< 1.8 U	< 1.8 U				< 1.8 U	< 1.8 U	< 3.6 U	< 1.8 U	< 1.8 U	< 1.8 U
M24628SVH	24628 MARBELLA AVE	2011-10-27	14:12	House	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 2.8	< 4
M24628SVHS	24628 MARBELLA AVE	2011-10-27	14:12	House	< 3.6 U	< 1.8 U	< 3.6 U		< 1.8 U	< 1.8 U				< 1.8 U	< 1.8 U	< 3.6 U	< 1.8 U	< 1.8 U	< 1.8 U
M24628SVB	24628 MARBELLA AVE	2011-10-27	14:55	Back	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 2.7	< 3.8
M24628SVBS	24628 MARBELLA AVE	2011-10-27	14:55	Back	< 3.5 U	< 1.7 U	< 3.5 U		< 1.7 U	< 1.7 U				< 1.7 U	< 1.7 U	< 3.5 U	< 1.7 U	< 1.7 U	< 1.7 U
N24628SVH	24628 NEPTUNE AVE	2010-10-27	13:02	House	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
N24628SVG2	24628 NEPTUNE AVE	2010-10-27	13:35	Garage	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.3	< 3.9	< 5.6
N24628SVH	24628 NEPTUNE AVE	2013-02-07	14:34	House	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
N24628SVBA	24628 NEPTUNE AVE	2013-02-07	14:35	Back	< 26	< 9.3	< 12	< 220	< 13	< 11	< 310	< 370	< 170	< 12	< 13	< 9.1	< 15	< 92	< 13
N24628SVG2	24628 NEPTUNE AVE	2013-02-07	15:12	Garage	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24628SVBA	24628 NEPTUNE AVE	2013-06-19	15:03	Back	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74 PF	< 4.9	< 5.6	< 3.9	< 6.4	< 40	< 5.6
N24628SVBAD	24628 NEPTUNE AVE	2013-06-19	15:03	Back	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73 PF	< 4.9	< 5.6	< 3.9	< 6.3	< 39	< 5.6
N24628SVH	24628 NEPTUNE AVE	2013-06-19	15:05	House	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72 PF	< 4.9	< 5.5	< 3.8	< 6.3	< 39	< 5.5
N24628SVG2	24628 NEPTUNE AVE	2013-06-19	15:38	Garage	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75 PF	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24629SVH	24629 NEPTUNE AVE	2010-07-09	13:57	House	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24629SVF	24629 NEPTUNE AVE	2010-07-09	15:14	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	7.3	< 5.7
N24629SVB	24629 NEPTUNE AVE	2010-07-09	15:32	Back	12	< 4.1	< 5	< 95 N,J	9.2	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	100	< 4	< 6.5	< 4	< 5.7
N24629SVB	24629 NEPTUNE AVE	2011-02-03	15:16	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24629SVH	24629 NEPTUNE AVE	2011-02-03	15:24	House	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
N24629SVF	24629 NEPTUNE AVE	2011-02-03	15:57	Front	< 12	< 4.2	< 5.2	< 170	< 5.9	< 4.9	< 250	< 300	< 140	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
				Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
				Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
N24632SVF	24632 NEPTUNE AVE	2009-10-02	13:16	Front	< 12	< 4.2	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
N24632SVB	24632 NEPTUNE AVE	2009-10-02	14:09	Back	< 12	< 4.5	< 5.5	< 100 N,J	< 6.3	< 5.2	< 150 N,J	< 180 N,J	< 82 N,J	< 5.5	< 6.3	< 4.4	< 7.2	< 4.4	< 6.3
N24632SVF	24632 NEPTUNE AVE	2010-07-20	10:44	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24632SVG	24632 NEPTUNE AVE	2010-08-24	08:55	Garage	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
N24632SVB	24632 NEPTUNE AVE	2010-08-24	09:39	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24632SVF	24632 NEPTUNE AVE	2013-02-08	12:50	Front	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 39	< 5.5
N24632SVG	24632 NEPTUNE AVE	2013-02-08	13:28	Garage	< 11	< 3.9	< 4.8	< 90	< 5.4	< 4.5	< 130	< 150	< 71	< 4.8	< 5.4	< 3.8	< 6.2	< 38	< 5.4
N24632SVBA	24632 NEPTUNE AVE	2013-08-09	09:56	Back	< 12	14	< 5.5	120	< 6.3	9	650	1200	150	< 5.5	< 6.3	< 4.4	< 7.2	< 44	< 6.3
N24632SVBAS	24632 NEPTUNE AVE	2013-08-09	09:56	Back	< 21 U	13	< 4.3 U		< 2.1 U	8.3				< 2.1 U	< 2.1 U	< 4.3 U	< 2.1 U	< 2.1 U	< 2.1 U
N24632SVF	24632 NEPTUNE AVE	2013-08-09	10:04	Front	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 44	< 6.2
N24632SVG	24632 NEPTUNE AVE	2013-08-09	10:23	Garage	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.3	< 39	< 5.6
M24700SVH	24700 MARBELLA AVE	2010-06-09	09:02	House	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
M24700SVHS	24700 MARBELLA AVE	2010-06-09	09:02	House	< 3.5	< 1.7	< 3.5		< 1.7	< 1.7				< 1.7	< 1.7	< 3.5	< 1.7	< 1.7	< 1.7
M24700SVF	24700 MARBELLA AVE	2010-06-09	09:38	Front	< 12	< 4.2	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
M24700SVB	24700 MARBELLA AVE	2010-06-09	10:24	Back	88	25	< 5.1	1500 N,J	< 5.8	< 4.8	500 N,J	< 160 N,J	810 N,J	< 5.1	< 5.8	67	< 6.6	< 4.1	< 5.8
M24700SVB	24700 MARBELLA AVE	2010-07-15	14:27	Back	1400	28	< 5.9	930 N,J	< 6.7	< 5.6	390 N,J	< 190 N,J	560 N,J	< 5.9	< 6.7	30	< 7.6	< 4.7	< 6.7
M24700SVF	24700 MARBELLA AVE	2010-07-15	15:22	Front	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
M24700SVH	24700 MARBELLA AVE	2010-07-15	16:12	House	< 11	< 4	< 5	< 93 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 4.9	< 5.6	< 3.9	< 6.4	< 4	< 5.6
M24700SVF	24700 MARBELLA AVE	2011-10-20	10:29	Front	< 8.7	< 3.1	< 3.9	< 73	< 4.4	< 3.6	< 100	< 120	< 58	< 3.9	< 4.4	< 3.1	< 5	< 3.1	< 4.4
M24700SVB	24700 MARBELLA AVE	2011-10-20	11:10	Back	< 9.9	< 3.5	< 4.4	< 82	< 4.9	< 4.1	< 120	< 140	< 65	< 4.4	< 4.9	< 3.4	< 5.6	< 3.5	< 4.9
M24700SVH	24700 MARBELLA AVE	2011-10-20	15:18	House	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 2.8	< 4
M24700SVHD	24700 MARBELLA AVE	2011-10-20	15:18	House	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	2.9	< 4
M24700SVH	24700 MARBELLA AVE	2013-03-15	14:45	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
M24700SVB	24700 MARBELLA AVE	2013-03-15	14:47	Back	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.3	< 39	< 5.6
M24700SVBS	24700 MARBELLA AVE	2013-03-15	14:47	Back	< 24 U	< 2.4 U	< 4.9 U		< 2.4 U	< 2.4 U				< 2.4 U	< 2.4 U	< 4.9 U	< 2.4 U	< 2.4 U	< 2.4 U
M24700SVF	24700 MARBELLA AVE	2013-03-15	15:23	Front	< 11	< 3.9	< 4.8	< 91	< 5.4	< 4.5	530	1500	< 72	< 4.8	< 5.4	< 3.8	< 6.2	< 38	< 5.4
M24700SVFD	24700 MARBELLA AVE	2013-03-15	15:23	Front	< 11	< 4	< 4.9	< 92	< 5.5	< 4.6	590	1500	< 73	< 4.9	< 5.5	< 3.9	< 6.3	< 39	< 5.5
P24702SVH	24702 PANAMA AVE	2010-06-03	09:09	House	17	< 3.9	< 4.9	< 92 N,J	< 5.5	< 4.6	< 130 N,J	< 160 N,J	< 72 N,J	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
P24702SVG	24702 PANAMA AVE	2010-06-03	09:56	Garage	< 11	< 3.9	< 4.9	< 92 N,J	< 5.5	< 4.6	< 130 N,J	< 160 N,J	< 72 N,J	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
P24702SVGS	24702 PANAMA AVE	2010-06-03	09:56	Garage	< 3.3	< 1.7	< 3.3		< 1.7	< 1.7				< 1.7	< 1.7	< 3.3	< 1.7	< 1.7	< 1.7
P24702SVB	24702 PANAMA AVE	2010-06-03	10:38	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24702SVG	24702 PANAMA AVE	2011-02-24	15:30	Garage	< 11	< 3.8	< 4.7	< 89	< 5.4	< 4.5	< 130	< 150	< 70	< 4.7	< 5.4	< 3.8	< 6.1	< 3.8	< 5.4
P24702SVH	24702 PANAMA AVE	2011-02-24	15:34	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
P24702SVB	24702 PANAMA AVE	2011-02-24	16:20	Back	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
P24702SVB	24702 PANAMA AVE	2013-06-12	09:46	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
P24702SVBS	24702 PANAMA AVE	2013-06-12	09:46	Back	< 20 U	< 2 U	< 4.1 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4.1 U	< 2 U	< 2 U	< 2 U
P24702SVH	24702 PANAMA AVE	2013-06-12	09:56	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
P24702SVG	24702 PANAMA AVE	2013-06-12	10:18	Garage	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
P24702SVGS	24702 PANAMA AVE	2013-06-12	10:18	Garage	< 20 U	< 2 U	< 4 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4 U	< 2 U	< 2 U	< 2 U
M24703SVF	24703 MARBELLA AVE	2010-03-29	11:37	Front	< 12	< 4.2	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
M24703SVH	24703 MARBELLA AVE	2010-03-29	12:58	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	1100 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24703SVB	24703 MARBELLA AVE	2010-03-29	13:53	Back	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
M24703SVH	24703 MARBELLA AVE	2010-08-23	09:27	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
M24703SVF	24703 MARBELLA AVE	2010-08-23	10:15	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24703SVB	24703 MARBELLA AVE	2010-08-23	10:57	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24703SVH	24703 MARBELLA AVE	2012-04-20	14:49	House	8.3	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
M24703SVB	24703 MARBELLA AVE	2012-04-20	15:21	Back	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24703SVBD	24703 MARBELLA AVE	2012-04-20	15:21	Back	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24703SVF	24703 MARBELLA AVE	2012-04-20	15:47	Front	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24703SVB	24703 MARBELLA AVE	2013-07-11	09:37	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 80	< 5.3	< 6	< 4.2	< 6.9	< 43	< 6
M24703SVBD	24703 MARBELLA AVE	2013-07-11	09:37	Back	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
M24703SVF	24703 MARBELLA AVE	2013-07-11	09:45	Front	< 11	< 3.9	< 4.8	< 90	< 5.4	< 4.5	< 130	< 150	< 72	< 4.8	< 5.4	< 3.8	< 6.2	< 38	< 5.4

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
				Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
				Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
M24703SVH	24703 MARBELLA AVE	2013-07-11	10:16	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24703SVB	24703 NEPTUNE AVE	2009-09-22	08:48	Back	< 13	< 4.8	< 5.9	< 110 N,J	< 6.7	< 5.6	< 160 N,J	< 190 UJ,N,J	< 88 N,J	< 5.9	10	< 4.7	< 7.6	< 4.7	< 6.7
N24703SVF	24703 NEPTUNE AVE	2009-09-22	09:36	Front	< 12	< 4.4	< 5.4	< 100 N,J	< 6.1	< 5.1	< 140 N,J	< 170 UJ,N,J	< 80 N,J	< 5.4	< 6.1	< 4.3	< 7	< 4.3	< 6.1
N24703SVFD	24703 NEPTUNE AVE	2009-09-22	09:36	Front	< 12	< 4.3	12	< 100 N,J	62	< 5	< 140 N,J	< 170 UJ,N,J	< 79 N,J	< 5.3	< 6	< 4.2	< 6.8	< 4.2	32
N24703SVH	24703 NEPTUNE AVE	2010-11-03	14:04	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
N24703SVF	24703 NEPTUNE AVE	2010-11-03	14:54	Front	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
N24703SVB	24703 NEPTUNE AVE	2010-11-03	15:45	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 80	< 5.3	< 6	< 4.2	< 6.9	< 4.3	< 6
N24703SVBS	24703 NEPTUNE AVE	2010-11-03	15:45	Back	< 3.6	< 1.8	< 3.6		< 1.8	< 1.8				< 1.8	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8
N24703SVB	24703 NEPTUNE AVE	2013-04-26	14:43	Back	< 12	< 4.5	< 5.6	< 100	< 6.3	< 5.2	< 150	< 180	< 83	< 5.6	< 6.3	< 4.4	< 7.2	< 44	< 6.3
N24703SVH	24703 NEPTUNE AVE	2013-04-26	14:54	House	< 11	< 3.9	< 4.8	< 91	< 5.4	< 4.5	< 130	< 150	< 72	< 4.8	< 5.4	< 3.8	< 6.2	< 38	< 5.4
N24703SVF	24703 NEPTUNE AVE	2013-04-26	15:16	Front	18	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
R24703SVH	24703 RAVENNA AVE	2010-10-11	09:26	House	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
R24703SVG	24703 RAVENNA AVE	2010-10-11	10:14	Garage	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24703SVGS	24703 RAVENNA AVE	2010-10-11	10:14	Garage	< 3.4	< 1.7	< 3.4		< 1.7	< 1.7				< 1.7	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7
R24703SVB	24703 RAVENNA AVE	2010-10-11	11:03	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24703SVH	24703 RAVENNA AVE	2013-03-08	09:42	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
R24703SVG	24703 RAVENNA AVE	2013-03-08	10:14	Garage	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
R24703SVGD	24703 RAVENNA AVE	2013-03-08	10:14	Garage	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
R24703SVH	24703 RAVENNA AVE	2013-07-24	09:53	House	14	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
R24703SVB	24703 RAVENNA AVE	2013-07-24	10:06	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
R24703SVBD	24703 RAVENNA AVE	2013-07-24	10:06	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
R24703SVG	24703 RAVENNA AVE	2013-07-24	10:25	Garage	20	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
M24706SVB	24706 MARBELLA AVE	2011-01-31	13:56	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
M24706SVG	24706 MARBELLA AVE	2011-01-31	14:48	Garage	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
M24706SVH	24706 MARBELLA AVE	2011-01-31	16:20	House	< 11	23	19	22000	17	< 4.6	11000	1600	16000	8.2	18	360	< 6.3	< 3.9	8.1
M24706SVH	24706 MARBELLA AVE	2011-09-15	14:30	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24706SVHD	24706 MARBELLA AVE	2011-09-15	14:30	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24706SVB	24706 MARBELLA AVE	2011-09-15	15:10	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24706SVG	24706 MARBELLA AVE	2011-09-15	16:01	Garage	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
M24706SVH	24706 MARBELLA AVE	2013-02-21	14:53	House	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 39	< 5.5
M24706SVB	24706 MARBELLA AVE	2013-02-21	15:09	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
M24706SVBD	24706 MARBELLA AVE	2013-02-21	15:09	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
M24706SVG	24706 MARBELLA AVE	2013-02-21	15:27	Garage	< 11	12	< 5	< 95	< 5.7	9.5	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
M24706SVB	24706 MARBELLA AVE	2013-06-26	14:49	Back	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 39	< 5.5
M24706SVH	24706 MARBELLA AVE	2013-06-26	14:51	House	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.3	< 39	< 5.6
M24706SVG	24706 MARBELLA AVE	2013-06-26	15:17	Garage	< 12	< 4.2	< 5.2	< 99	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.8	< 42	< 5.9
R24706SVB	24706 RAVENNA AVE	2010-08-23	00:00	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
R24706SVF	24706 RAVENNA AVE	2010-08-23	13:28	Front	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 4.4	< 6.2
R24706SVH	24706 RAVENNA AVE	2010-08-23	14:03	House	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
R24706SVB	24706 RAVENNA AVE	2013-04-25	14:57	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 42	< 6
R24706SVH	24706 RAVENNA AVE	2013-04-25	14:59	House	< 12	< 4.1	< 5.1	< 96	6.2	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
R24706SVF	24706 RAVENNA AVE	2013-04-25	15:28	Front	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
M24707SVH	24707 MARBELLA AVE	2010-06-28	09:52	House	12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	1300 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
M24707SVB	24707 MARBELLA AVE	2010-06-28	11:30	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24707SVH	24707 MARBELLA AVE	2011-05-06	14:12	House	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 81	< 5.4	< 6.1	< 4.3	< 7	< 4.3	< 6.1
M24707SVB	24707 MARBELLA AVE	2011-05-06	14:53	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24707SVBS	24707 MARBELLA AVE	2011-05-06	14:53	Back	< 3.6	< 1.8	< 3.6		< 1.8	< 1.8				< 1.8	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8
M24707SVF	24707 MARBELLA AVE	2011-05-06	15:24	Front	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
M24707SVFS	24707 MARBELLA AVE	2011-05-06	15:26	Front	< 4.1	< 2	< 4.1		< 2	< 2				< 2	< 2	< 4.1	< 2	< 2	< 2
M24707SVH	24707 MARBELLA AVE	2012-09-07	10:34	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
M24707SVF	24707 MARBELLA AVE	2012-09-07	11:01	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
M24707SVFS	24707 MARBELLA AVE	2012-09-07	11:01	Front	< 20 U	< 2 U	< 4 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4 U	< 2 U	< 2 U	< 2 U

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

Analyte					Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
Units					UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
Frequency of Detection					4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
M24707SVB	24707 MARBELLA AVE	2012-09-07	11:14	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
M24707SVB	24707 MARBELLA AVE	2013-04-18	09:53	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
M24707SVH	24707 MARBELLA AVE	2013-04-18	10:06	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
M24707SVF	24707 MARBELLA AVE	2013-04-19	11:34	Front	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78 PF	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
P24708SVH	24708 PANAMA AVE	2010-06-17	09:11	House	< 12	< 4.4	< 5.5	< 100 N,J	< 6.2	< 5.2	< 150 N,J	< 180 N,J	< 82 N,J	< 5.5	< 6.2	< 4.4	< 7.1	< 4.4	< 6.2
P24708SVG	24708 PANAMA AVE	2010-06-17	10:06	Garage	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24708SVGS	24708 PANAMA AVE	2010-06-17	10:06	Garage	< 3.5	< 1.8	< 3.5		< 1.8	< 1.8				< 1.8	< 1.8	< 3.5	< 1.8	< 1.8	< 1.8
P24708SVB	24708 PANAMA AVE	2010-06-17	11:03	Back	< 12	< 4.4	< 5.4	< 100 N,J	< 6.1	< 5.1	< 140 N,J	< 170 N,J	< 80 N,J	< 5.4	< 6.1	< 4.3	< 7	< 4.3	< 6.1
P24708SVBD	24708 PANAMA AVE	2010-06-17	11:03	Back	< 12	< 4.3	< 5.3	< 100 N,J	< 6	< 5	< 140 N,J	< 170 N,J	< 80 N,J	< 5.3	< 6	< 4.2	< 6.9	< 4.3	< 6
P24708SVH	24708 PANAMA AVE	2012-08-16	10:23	House	< 8.1	< 2.9	< 3.6	< 67	< 4	< 3.4	< 95	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 28	< 4
P24708SVG	24708 PANAMA AVE	2012-08-16	10:58	Garage	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
P24708SVGS	24708 PANAMA AVE	2012-08-16	10:58	Garage	< 20 U	< 2 U	< 4 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4 U	< 2 U	< 2 U	< 2 U
P24708SVB	24708 PANAMA AVE	2012-08-16	11:26	Back	< 8.1	< 2.9	< 3.6	< 67	< 4	< 3.4	< 95	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 28	< 4
P24708SVBS	24708 PANAMA AVE	2012-08-16	11:26	Back	< 20 U	< 2 U	< 4.1 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4.1 U	< 2 U	< 2 U	< 2 U
P24708SVB	24708 PANAMA AVE	2013-05-15	15:09	Back	< 11	< 4	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 73 PF	< 4.9	< 5.5	< 3.9	< 6.3	< 39	< 5.5
P24708SVH	24708 PANAMA AVE	2013-05-15	15:21	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78 PF	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
P24708SVG	24708 PANAMA AVE	2013-05-15	15:38	Garage	< 12	< 4.5	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82 PF	< 5.5	< 6.2	< 4.4	< 7.1	< 44	< 6.2
N24709SVH	24709 NEPTUNE AVE	2010-07-01	09:18	House	< 11	< 4.1	5	< 95 N,J	6.6	< 4.8	13000 N,J	4800 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24709SVB	24709 NEPTUNE AVE	2010-07-01	10:09	Back	< 12	< 4.4	< 5.4	< 100 N,J	< 6.1	< 5.1	210 N,J	< 170 N,J	< 80 N,J	< 5.4	< 6.1	< 4.2	< 6.9	< 4.3	< 6.1
N24709SVG	24709 NEPTUNE AVE	2010-07-01	10:44	Garage	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	170 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24709SVG	24709 NEPTUNE AVE	2012-08-10	10:03	Garage	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
N24709SVGS	24709 NEPTUNE AVE	2012-08-10	10:03	Garage	< 22 U	< 2.2 U	< 4.3 U		< 2.2 U	< 2.2 U				< 2.2 U	< 2.2 U	< 4.3 U	< 2.2 U	< 2.2 U	< 2.2 U
N24709SVH	24709 NEPTUNE AVE	2012-08-10	10:16	House	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
N24709SVB	24709 NEPTUNE AVE	2012-08-10	10:43	Back	< 8.6	< 3.1	< 3.8	< 72	< 4.3	< 3.6	< 100	< 120	< 57	< 3.8	< 4.3	< 3	< 4.9	< 30	< 4.3
N24709SVBS	24709 NEPTUNE AVE	2012-08-10	10:43	Back	< 23 U	< 2.3 U	< 4.6 U		< 2.3 U	< 2.3 U				< 2.3 U	< 2.3 U	< 4.6 U	< 2.3 U	< 2.3 U	< 2.3 U
N24709SVH	24709 NEPTUNE AVE	2013-05-22	09:55	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74 PF	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
N24709SVB	24709 NEPTUNE AVE	2013-05-22	10:06	Back	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76 PF	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
N24709SVBD	24709 NEPTUNE AVE	2013-05-22	10:06	Back	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76 PF	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
N24709SVG	24709 NEPTUNE AVE	2013-05-22	10:31	Garage	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76 PF	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
P24709SVH	24709 PANAMA AVE	2009-10-03	11:28	House	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	1200 N,J	< 74 N,J	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
P24709SVB	24709 PANAMA AVE	2009-10-03	12:20	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24709SVF	24709 PANAMA AVE	2009-10-03	13:23	Front	< 10	< 3.6	< 4.4	< 84 N,J	< 5	< 4.2	< 120 N,J	< 140 N,J	< 66 N,J	< 4.4	< 5	< 3.5	< 5.8	< 3.6	< 5
P24709SVB	24709 PANAMA AVE	2011-02-11	09:03	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
P24709SVBS	24709 PANAMA AVE	2011-02-11	09:03	Back	< 3.6	< 1.8	< 3.6		< 1.8	< 1.8				< 1.8	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8
P24709SVH	24709 PANAMA AVE	2011-02-11	09:51	House	< 10	< 3.8	< 4.6	< 87	< 5.2	< 4.4	< 120	< 150	< 69	< 4.6	< 5.2	< 3.7	< 6	< 3.7	< 5.2
P24709SVHS	24709 PANAMA AVE	2011-02-11	09:51	House	< 3.6	< 1.8	< 3.6		< 1.8	< 1.8				< 1.8	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8
P24709SVF	24709 PANAMA AVE	2011-02-11	10:49	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
P24709SVF	24709 PANAMA AVE	2012-03-08	15:54	Front	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
P24709SVH	24709 PANAMA AVE	2012-03-08	15:55	House	13	< 2.9	< 3.6	< 67	< 4	< 3.4	< 95	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 28	< 4
P24709SVHD	24709 PANAMA AVE	2012-03-08	15:55	House	< 8.1	< 2.9	< 3.6	< 67	< 4	< 3.4	< 95	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 28	< 4
P24709SVH	24709 PANAMA AVE	2013-06-27	10:24	House	< 11	< 3.9	< 4.8	< 91	< 5.5	< 4.6	< 130	< 160	< 72	< 4.8	< 5.5	< 3.8	< 6.3	< 39	< 5.5
P24709SVBA	24709 PANAMA AVE	2013-06-27	10:34	Back	< 13	< 4.5	< 5.6	< 100	< 6.3	< 5.3	< 150	< 180	< 83	< 5.6	< 6.3	< 4.4	< 7.2	< 45	< 6.3
P24709SVBAD	24709 PANAMA AVE	2013-06-27	10:34	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
P24709SVF	24709 PANAMA AVE	2013-06-27	10:54	Front	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
R24709SVB2	24709 RAVENNA AVE	2010-04-26	14:14	Back	< 12	< 4.2	45	360 N,J	25	< 4.8	730 N,J	700 N,J	< 77 N,J	8.6	15	< 4.1	< 6.6	< 4.1	22
R24709SVB	24709 RAVENNA AVE	2010-04-26	15:02	Back	< 12	< 4.2	< 5.2	< 99 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.1	< 6.8	< 4.2	< 5.9
R24709SVF	24709 RAVENNA AVE	2010-04-26	15:54	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24709SVH	24709 RAVENNA AVE	2010-08-16	09:18	House	< 12	< 4.3	< 5.3	< 100 N,J	< 6	< 5	< 140 N,J	< 170 N,J	< 79 N,J	< 5.3	< 6	< 4.2	< 6.8	< 4.2	< 6
R24709SVF	24709 RAVENNA AVE	2010-08-16	10:05	Front	< 12	< 4.4	< 5.5	< 100 N,J	< 6.2	< 5.2	< 150 N,J	< 180 N,J	< 82 N,J	< 5.5	< 6.2	< 4.3	< 7.1	< 4.4	< 6.2
R24709SVB2	24709 RAVENNA AVE	2010-08-16	11:16	Back	< 12	< 4.1	< 5.1	< 96 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 76 N,J	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
R24709SVB	24709 RAVENNA AVE	2010-08-16	12:33	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.7	< 130 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24709SVF	24709 RAVENNA AVE	2013-03-21	10:06	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
				Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
				Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
R24709SVFS	24709 RAVENNA AVE	2013-03-21	10:06	Front	< 20 U	< 2 U	< 4 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4 U	< 2 U	< 2 U	< 2 U
R24709SVB2	24709 RAVENNA AVE	2013-03-21	11:10	Back	< 11	< 4	< 4.9	< 93	< 5.6	4.9	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.3	< 39	< 5.6
R24709SVH	24709 RAVENNA AVE	2013-03-22	16:33	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24709SVB	24709 RAVENNA AVE	2013-08-14	14:49	Back	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.4	< 7.1	< 44	< 6.2
R24709SVH	24709 RAVENNA AVE	2013-08-14	14:52	House	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
R24709SVF	24709 RAVENNA AVE	2013-08-14	15:20	Front	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
R24709SVB2	24709 RAVENNA AVE	2013-08-14	15:28	Back	< 11	< 3.9	< 4.8	< 91	< 5.5	< 4.6	< 130	< 160	< 72	< 4.8	< 5.5	< 3.8	< 6.3	< 39	< 5.5
M24710SVB	24710 MARBELLA AVE	2010-09-14	14:59	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
M24710SVF	24710 MARBELLA AVE	2010-09-14	15:40	Front	< 11	< 3.9	< 4.8	< 90	< 5.4	< 4.5	< 130	< 150	< 71	< 4.8	< 5.4	< 3.8	< 6.2	< 3.8	< 5.4
M24710SVF	24710 MARBELLA AVE	2011-02-08	13:36	Front	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24710SVH	24710 MARBELLA AVE	2011-02-08	14:11	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24710SVB	24710 MARBELLA AVE	2011-02-08	15:14	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
M24710SVF	24710 MARBELLA AVE	2012-05-03	15:19	Front	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24710SVFD	24710 MARBELLA AVE	2012-05-03	15:19	Front	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24710SVH	24710 MARBELLA AVE	2012-05-03	15:38	House	< 7.8	< 2.8	12	< 65	6.8	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	6.1
M24710SVB	24710 MARBELLA AVE	2012-05-03	16:03	Back	< 8.4	< 3	57	150	60	< 3.5	< 100	< 120	< 55	7.4	< 4.2	< 2.9	< 4.8	< 30	29
N24712SVF	24712 NEPTUNE AVE	2010-04-21	14:48	Front	< 12	8.5	88	< 99 N,J	120	14	< 140 N,J	< 170 N,J	< 78 N,J	58	6.8	6.4	< 6.8	< 4.2	42
N24712SVB	24712 NEPTUNE AVE	2010-04-21	15:45	Back	< 12	< 4.2	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
N24712SVH2	24712 NEPTUNE AVE	2010-08-11	08:58	House	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24712SVF	24712 NEPTUNE AVE	2011-02-07	09:16	Front	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
N24712SVH2	24712 NEPTUNE AVE	2011-02-07	10:04	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24712SVB	24712 NEPTUNE AVE	2011-02-07	10:59	Back	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
N24712SVBS	24712 NEPTUNE AVE	2011-02-07	10:59	Back	< 3.4	< 1.7	< 3.4		< 1.7	< 1.7				< 1.7	< 1.7	< 3.4	< 1.7	1.8	< 1.7
N24712SVH2	24712 NEPTUNE AVE	2013-01-18	14:55	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24712SVB	24712 NEPTUNE AVE	2013-01-18	14:57	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24712SVF	24712 NEPTUNE AVE	2013-01-18	15:26	Front	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 44	< 6.2
N24712SVB	24712 NEPTUNE AVE	2013-06-12	14:48	Back	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
N24712SVH2	24712 NEPTUNE AVE	2013-06-12	15:02	House	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 39	< 5.5
N24712SVF	24712 NEPTUNE AVE	2013-06-12	15:14	Front	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
P24712SVH	24712 PANAMA AVE	2010-08-12	14:06	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24712SVB	24712 PANAMA AVE	2010-08-12	14:54	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24712SVF	24712 PANAMA AVE	2010-08-12	15:45	Front	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24712SVH	24712 PANAMA AVE	2011-02-25	15:09	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24712SVB	24712 PANAMA AVE	2011-02-25	15:36	Back	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 4	< 5.6
P24712SVBD	24712 PANAMA AVE	2011-02-25	15:36	Back	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 4	< 5.6
P24712SVF	24712 PANAMA AVE	2011-02-25	16:00	Front	< 12	12	< 5.1	< 96	< 5.8	12	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
R24712SVF	24712 RAVENNA AVE	2010-01-04	10:51	Front	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
R24712SVH	24712 RAVENNA AVE	2010-01-04	11:38	House	16	< 3.9	< 4.9	< 92 N,J	< 5.5	< 4.6	< 130 N,J	< 160 N,J	< 72 N,J	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
R24712SVB	24712 RAVENNA AVE	2010-01-04	12:30	Back	< 12	< 4.2	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
R24712SVB	24712 RAVENNA AVE	2011-06-10	11:35	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	50	< 6.1
R24712SVBS	24712 RAVENNA AVE	2011-06-10	11:35	Back	< 3.7 U	< 1.8 U	< 3.7 U		< 1.8 U	< 1.8 U				< 1.8 U	< 1.8 U	< 3.7 U	< 1.8 U	< 1.8 U	< 1.8 U
R24712SVF	24712 RAVENNA AVE	2011-06-10	12:17	Front	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
R24712SVFS	24712 RAVENNA AVE	2011-06-10	12:17	Front	< 3.6 U	< 1.8 U	< 3.6 U		< 1.8 U	< 1.8 U				< 1.8 U	< 1.8 U	< 3.6 U	< 1.8 U	< 1.8 U	< 1.8 U
R24712SVH	24712 RAVENNA AVE	2011-06-10	13:00	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
R24712SVHS	24712 RAVENNA AVE	2011-06-10	13:00	House	< 3.5 U	< 1.7 U	< 3.5 U		< 1.7 U	< 1.7 U				< 1.7 U	< 1.7 U	< 3.5 U	< 1.7 U	< 1.7 U	< 1.7 U
M24713SVH	24713 MARBELLA AVE	2011-04-26	14:01	House	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
M24713SVHD	24713 MARBELLA AVE	2011-04-26	14:01	House	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
M24713SVF	24713 MARBELLA AVE	2011-04-26	14:47	Front	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 4.4	< 6.2
M24713SVFD	24713 MARBELLA AVE	2011-04-26	14:47	Front	< 13	< 4.6	< 5.7	< 110	< 6.5	< 5.4	< 150	< 180	< 85	< 5.7	< 6.5	< 4.5	< 7.4	< 4.6	< 6.5
M24713SVB	24713 MARBELLA AVE	2011-04-26	15:28	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	6.1	< 5.8
M24713SVH	24713 MARBELLA AVE	2013-03-08	14:39	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
M24713SVB	24713 MARBELLA AVE	2013-03-08	15:03	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
				Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
				Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
M24713SVF	24713 MARBELLA AVE	2013-03-08	15:08	Front	< 11	< 3.9	< 4.8	< 91	< 5.5	< 4.6	< 130	< 160	< 72	< 4.8	< 5.5	< 3.8	< 6.3	< 39	< 5.5
M24713SVH	24713 MARBELLA AVE	2013-07-30	14:52	House	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.4	< 39	< 5.6
M24713SVB	24713 MARBELLA AVE	2013-07-30	15:06	Back	33	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
M24713SVF	24713 MARBELLA AVE	2013-07-30	15:23	Front	< 11	< 3.9	< 4.8	< 91	< 5.4	< 4.5	< 130	< 150	< 72	< 4.8	< 5.4	< 3.8	< 6.2	< 38	< 5.4
P24713SVH	24713 PANAMA AVE	2011-05-10	09:26	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24713SVB	24713 PANAMA AVE	2011-05-10	10:08	Back	< 11	< 4.1	12	< 95	8.2	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	6.8
P24713SVG	24713 PANAMA AVE	2011-05-10	10:59	Garage	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
P24713SVGS	24713 PANAMA AVE	2011-05-10	10:59	Garage	< 3.3	< 1.7	< 3.3		< 1.7	< 1.7				< 1.7	< 1.7	< 3.3	< 1.7	< 1.7	< 1.7
P24713SVH	24713 PANAMA AVE	2013-04-05	09:46	House	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79 PF	< 5.3	< 6	< 4.2	< 6.8	< 42	< 6
P24713SVB	24713 PANAMA AVE	2013-04-05	10:13	Back	< 23	< 8.2	< 10	< 190	< 11	< 9.5	< 270	< 320	< 150 PF	< 10	< 11	< 8	< 13	< 80	< 11
P24713SVBD	24713 PANAMA AVE	2013-04-05	10:13	Back	< 21	< 7.4	< 9.2	< 170	< 10	< 8.6	< 240	< 290	< 140 PF	< 9.2	< 10	< 7.3	< 12	< 73	< 10
P24713SVG	24713 PANAMA AVE	2013-04-05	10:16	Garage	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77 PF	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
P24713SVGD	24713 PANAMA AVE	2013-04-05	10:16	Garage	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77 PF	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
R24713SVH	24713 RAVENNA AVE	2011-04-06	13:59	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
R24713SVG	24713 RAVENNA AVE	2011-04-06	14:43	Garage	< 14	< 4.9	< 6	< 110	< 6.8	< 5.6	< 160	< 190	< 89	< 6	< 6.8	< 4.8	< 7.8	< 4.8	< 6.8
R24713SVGD	24713 RAVENNA AVE	2011-04-06	14:43	Garage	< 14	< 4.9	< 6	< 110	< 6.8	< 5.6	< 160	< 190	< 89	< 6	< 6.8	< 4.8	< 7.8	< 4.8	< 6.8
R24713SVB	24713 RAVENNA AVE	2011-04-06	15:27	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
R24713SVBD	24713 RAVENNA AVE	2011-04-06	15:27	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
R24713SVH	24713 RAVENNA AVE	2013-08-01	14:52	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24713SVB	24713 RAVENNA AVE	2013-08-01	15:06	Back	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
R24713SVG	24713 RAVENNA AVE	2013-08-01	15:16	Garage	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
N24715SVB	24715 NEPTUNE AVE	2010-04-26	09:40	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24715SVF	24715 NEPTUNE AVE	2010-04-26	10:30	Front	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
N24715SVH	24715 NEPTUNE AVE	2010-04-26	11:38	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24715SVB	24715 NEPTUNE AVE	2011-02-18	15:05	Back	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
N24715SVH	24715 NEPTUNE AVE	2011-02-18	15:48	House	< 14	< 4.9	< 6	< 110	< 6.8	< 5.6	< 160	< 190	< 89	< 6	< 6.8	< 4.8	< 7.8	< 4.8	< 6.8
N24715SVF	24715 NEPTUNE AVE	2011-02-18	16:41	Front	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
N24715SVH	24715 NEPTUNE AVE	2013-08-07	14:44	House	31	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
N24715SVB	24715 NEPTUNE AVE	2013-08-07	14:54	Back	< 12	< 4.5	< 5.5	< 100	< 6.3	< 5.2	< 150	< 180	< 82	< 5.5	< 6.3	< 4.4	< 7.2	< 44	< 6.3
N24715SVF	24715 NEPTUNE AVE	2013-08-07	15:38	Front	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 80	< 5.3	< 6	< 4.2	< 6.9	< 43	< 6
M24716SVG	24716 MARBELLA AVE	2010-07-02	14:50	Garage	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24716SVH	24716 MARBELLA AVE	2010-07-02	16:23	House	< 12	< 4.1	< 5.1	< 96 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 76 N,J	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
M24716SVH	24716 MARBELLA AVE	2011-04-19	14:21	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
M24716SVG	24716 MARBELLA AVE	2011-04-19	15:03	Garage	< 14	< 5.1	< 6.3	< 120	< 7.2	< 6	< 170	< 200	< 94	< 6.3	< 7.2	< 5	< 8.2	< 5	< 7.2
M24716SVB	24716 MARBELLA AVE	2011-04-19	15:40	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 4.2	< 6
M24716SVBD	24716 MARBELLA AVE	2011-04-19	15:40	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 80	< 5.3	< 6	< 4.2	< 6.9	< 4.3	< 6
M24716SVB	24716 MARBELLA AVE	2012-05-24	09:56	Back	< 10	< 3.7	< 4.6	< 86	< 5.2	< 4.3	< 120	< 150	< 68	< 4.6	< 5.2	< 3.6	< 5.9	< 37	< 5.2
M24716SVBD	24716 MARBELLA AVE	2012-05-24	09:56	Back	< 7.7	< 2.8	< 3.4	130	< 3.8	< 3.2	290 j	< 110	< 51	4.9	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24716SVH	24716 MARBELLA AVE	2012-05-24	10:29	House	< 7.5	< 2.7	< 3.3	200	< 3.8	< 3.1	< 89	< 110	< 50	< 3.3	< 3.8	9.8	< 4.3	< 26	< 3.8
M24716SVG	24716 MARBELLA AVE	2012-05-24	10:42	Garage	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24716SVH	24716 MARBELLA AVE	2013-07-25	09:55	House	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 44	< 6.2
M24716SVB	24716 MARBELLA AVE	2013-07-25	10:04	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
M24716SVBD	24716 MARBELLA AVE	2013-07-25	10:04	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
M24716SVG	24716 MARBELLA AVE	2013-07-25	10:25	Garage	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
R24716SVH	24716 RAVENNA AVE	2012-03-01	11:22	House	< 11	< 3.8	< 4.7	< 89	< 5.3	< 4.4	< 130	< 150	< 70	< 4.7	< 5.3	< 3.7	< 6.1	< 38	< 5.3
R24716SVHD	24716 RAVENNA AVE	2012-03-01	11:22	House	< 10	< 3.7	< 4.6	< 87	< 5.2	< 4.3	< 120	< 150	< 69	< 4.6	< 5.2	< 3.6	< 6	< 37	< 5.2
R24716SVG	24716 RAVENNA AVE	2012-03-01	11:32	Garage	< 9.6	< 3.4	< 4.2	< 80	< 4.8	< 4	< 110	< 140	< 63	< 4.2	< 4.8	< 3.4	< 5.5	< 34	< 4.8
R24716SVB	24716 RAVENNA AVE	2012-03-01	12:01	Back	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
M24717SVH	24717 MARBELLA AVE	2010-07-02	14:52	House	< 12	< 4.2	6.3	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
M24717SVF	24717 MARBELLA AVE	2010-07-02	16:12	Front	< 12	< 4.1	< 5.1	< 96 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 76 N,J	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
M24717SVB	24717 MARBELLA AVE	2010-07-02	16:51	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	4.6	< 5.7
M24717SVH	24717 MARBELLA AVE	2012-07-26	09:56	House	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
Analyte																			
Units					UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
Frequency of Detection					4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
M24717SVB	24717 MARBELLA AVE	2012-07-26	10:08	Back	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
M24717SVBD	24717 MARBELLA AVE	2012-07-26	10:08	Back	< 7.9	< 2.8	< 3.5	< 66	< 3.9	< 3.3	< 93	< 110	< 52	< 3.5	< 3.9	< 2.8	< 4.5	< 28	< 3.9
M24717SVF	24717 MARBELLA AVE	2012-07-26	10:27	Front	< 13	< 4.5	< 5.6	< 100	< 6.3	< 5.3	< 150	< 180	< 83	< 5.6	< 6.3	< 4.4	< 7.2	< 45	< 6.3
M24717SVH	24717 MARBELLA AVE	2013-05-23	14:49	House	< 12	5.9	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77 PF	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
M24717SVB	24717 MARBELLA AVE	2013-05-23	15:08	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 80 PF	< 5.3	< 6	< 4.2	< 6.9	< 43	< 6
M24717SVF	24717 MARBELLA AVE	2013-05-23	15:22	Front	< 11	5.3	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74 PF	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
N24718SVG	24718 NEPTUNE AVE	2010-09-08	09:57	Garage	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24718SVB	24718 NEPTUNE AVE	2010-09-08	10:47	Back	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
N24718SVHA	24718 NEPTUNE AVE	2011-02-04	09:36	House	< 11	< 3.9	< 4.8	< 90	< 5.4	< 4.5	< 130	< 150	< 71	< 4.8	< 5.4	< 3.8	< 6.2	< 3.8	< 5.4
N24718SVHB	24718 NEPTUNE AVE	2012-02-24	10:34	Back	14	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	< 26	< 3.7
N24718SVG	24718 NEPTUNE AVE	2012-02-24	10:58	Garage	< 7.5	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	39	< 3.7
N24718SVB	24718 NEPTUNE AVE	2012-02-24	11:25	Back	< 8.2	< 3	< 3.6	< 69	< 4.1	< 3.4	< 98	< 120	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 29	< 4.1
N24718SVBD	24718 NEPTUNE AVE	2012-02-24	11:25	Back	< 8.2	< 3	< 3.6	< 69	< 4.1	< 3.4	< 98	< 120	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 29	< 4.1
P24718SVB2	24718 PANAMA AVE	2010-06-24	09:32	Back	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
P24718SVF	24718 PANAMA AVE	2010-06-24	10:19	Front	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
P24718SVH	24718 PANAMA AVE	2010-06-24	11:18	House	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24718SVB2	24718 PANAMA AVE	2012-10-18	10:00	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
P24718SVB2D	24718 PANAMA AVE	2012-10-18	10:00	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
P24718SVH	24718 PANAMA AVE	2012-10-18	10:03	House	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 39	< 5.5
P24718SVF	24718 PANAMA AVE	2012-10-18	10:42	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
P24718SVH	24718 PANAMA AVE	2013-05-16	10:09	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
P24718SVG	24718 PANAMA AVE	2013-05-16	10:12	Garage	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
P24718SVB2	24718 PANAMA AVE	2013-05-16	10:51	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
P24718SVF	24718 PANAMA AVE	2013-05-16	11:10	Front	< 10	< 3.7	< 4.5	< 85	< 5.1	< 4.3	< 120	< 140	< 67	< 4.5	< 5.1	< 3.6	< 5.8	< 36	< 5.1
N24719SVB	24719 NEPTUNE AVE	2010-07-16	14:03	Back	22	< 4.4	< 5.4	< 100 N,J	< 6.1	< 5.1	< 140 N,J	< 170 N,J	< 80 N,J	< 5.4	< 6.1	< 4.3	< 7	< 4.3	< 6.1
N24719SVH	24719 NEPTUNE AVE	2010-07-16	14:52	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	6.7	< 4	< 6.5	< 4	< 5.7
N24719SVF	24719 NEPTUNE AVE	2010-07-16	15:43	Front	87	< 4.2	< 5.2	< 98 N,J	< 5.8	< 4.9	< 140 N,J	< 160 N,J	< 77 N,J	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
N24719SVH	24719 NEPTUNE AVE	2012-07-19	15:00	House	< 7.8	< 2.8	< 3.4	< 65	< 3.9 PF	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
N24719SVB	24719 NEPTUNE AVE	2012-07-19	15:32	Back	< 10	< 3.8	< 4.7	< 88	< 5.3 PF	< 4.4	< 120	< 150	< 70	< 4.7	< 5.3	< 3.7	< 6	< 37	< 5.3
N24719SVBD	24719 NEPTUNE AVE	2012-07-19	15:32	Back	< 7.9	< 2.8	< 3.5	< 66	< 4 PF	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
P24719SVH	24719 PANAMA AVE	2010-06-28	09:23	House	25	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	1400 N,J	10000 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24719SVF	24719 PANAMA AVE	2010-06-28	11:21	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.7	< 130 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24719SVBA	24719 PANAMA AVE	2011-03-04	08:51	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24719SVH	24719 PANAMA AVE	2011-03-04	09:38	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	600	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24719SVHS	24719 PANAMA AVE	2011-03-04	09:38	House	< 3.5	< 1.7	< 3.5		< 1.7	< 1.7				< 1.7	< 1.7	< 3.5	< 1.7	< 1.7	< 1.7
P24719SVF	24719 PANAMA AVE	2011-03-04	10:20	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24719SVFS	24719 PANAMA AVE	2011-03-04	10:20	Front	< 3.4	2.4	< 3.4		< 1.7	< 1.7				< 1.7	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7
P24719SVF	24719 PANAMA AVE	2012-09-28	09:49	Front	< 11	19	< 5	< 95	< 5.7	11	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
P24719SVBA	24719 PANAMA AVE	2012-09-28	10:34	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24719SVB	24719 RAVENNA AVE	2010-04-21	12:16	Back	< 12	< 4.2	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
R24719SVF	24719 RAVENNA AVE	2010-04-21	12:43	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24719 SVB	24719 RAVENNA AVE	2012-11-29	10:07	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
R24719 SVBD	24719 RAVENNA AVE	2012-11-29	10:07	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
R24719 SVH	24719 RAVENNA AVE	2012-11-29	10:11	House	14	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.3	< 39	< 5.6
R24719 SVF	24719 RAVENNA AVE	2012-11-29	10:44	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
M24722SVH	24722 MARBELLA AVE	2010-11-29	09:19	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24722SVF	24722 MARBELLA AVE	2010-11-29	09:55	Front	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24722SVFD	24722 MARBELLA AVE	2010-11-29	09:55	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
M24722SVB	24722 MARBELLA AVE	2010-11-29	11:03	Back	< 13	< 4.5	< 5.6	< 100	< 6.3	< 5.3	< 150	< 180	< 84	< 5.6	< 6.3	< 4.4	< 7.2	< 4.5	< 6.3
M24722SVH	24722 MARBELLA AVE	2012-06-07	10:06	House	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
M24722SVF	24722 MARBELLA AVE	2012-06-07	10:10	Front	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24722SVFS	24722 MARBELLA AVE	2012-06-07	10:10	Front	< 3.5 U	< 1.8 U	< 3.5 U		< 1.8 U	< 1.8 U				< 1.8 U	< 1.8 U	< 3.5 U	< 1.8 U	< 1.8 U	< 1.8 U

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

Analyte					Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
Units					UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
Frequency of Detection					4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	Address	Sample Date	Sample Time	Location															
M24722SVB	24722 MARBELLA AVE	2012-06-07	10:49	Back	< 8.4	< 3	< 3.7	< 70	< 4.2	< 3.5	< 100	< 120	< 56	< 3.7	< 4.2	< 3	< 4.8	< 30	< 4.2
M24722SVB	24722 MARBELLA AVE	2013-04-11	14:37	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78 PF	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
M24722SVBD	24722 MARBELLA AVE	2013-04-11	14:37	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78 PF	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
M24722SVH	24722 MARBELLA AVE	2013-04-11	15:12	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74 PF	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
M24722SVF	24722 MARBELLA AVE	2013-04-11	15:15	Front	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78 PF	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
N24722SVH	24722 NEPTUNE AVE	2010-07-23	13:35	House	< 11	< 3.9	< 4.9	< 92 N,J	< 5.5	< 4.6	< 130 N,J	< 160 N,J	< 72 N,J	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
N24722SVG	24722 NEPTUNE AVE	2010-07-23	14:07	Garage	< 11	< 3.9	< 4.8	< 90 N,J	< 5.4	< 4.5	< 130 N,J	< 150 N,J	< 71 N,J	< 4.8	< 5.4	< 3.8	< 6.2	< 3.8	< 5.4
N24722SVB	24722 NEPTUNE AVE	2010-07-23	14:42	Back	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24722SVH	24722 NEPTUNE AVE	2012-04-13	15:06	House	< 8	< 2.9	< 3.5	< 67	< 4	< 3.3	< 95	< 110	< 53	< 3.5	< 4	< 2.8	< 4.6	< 28	< 4
N24722SVG	24722 NEPTUNE AVE	2012-04-13	15:07	Garage	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
N24722SVG D	24722 NEPTUNE AVE	2012-04-13	15:07	Garage	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
N24722SVB	24722 NEPTUNE AVE	2012-04-13	15:49	Back	20	< 2.4	< 2.9	< 55	< 3.3	< 2.8	< 78	< 94	< 44	< 2.9	< 3.3	2.5	< 3.8	< 23	< 3.3
P24722SVB	24722 PANAMA AVE	2010-04-26	10:23	Back	< 12	5.5	< 5.4	< 100 N,J	< 6.1	< 5.1	< 140 N,J	< 170 N,J	< 80 N,J	< 5.4	< 6.1	< 4.3	< 7	< 4.3	< 6.1
P24722SVF	24722 PANAMA AVE	2010-04-26	11:28	Front	< 12	< 4.4	< 5.4	< 100 N,J	< 6.1	< 5.1	< 140 N,J	< 170 N,J	< 80 N,J	< 5.4	< 6.1	< 4.3	< 7	< 4.3	< 6.1
P24722SVFD	24722 PANAMA AVE	2010-04-26	11:28	Front	< 12	< 4.3	< 5.3	< 100 N,J	< 6	< 5	< 140 N,J	< 170 N,J	< 80 N,J	< 5.3	< 6	< 4.2	< 6.9	< 4.3	< 6
P24722SVH	24722 PANAMA AVE	2010-08-17	13:32	House	49	< 4.3	26	< 99 N,J	16 J	8.5	< 140 N,J	< 170 N,J	< 78 N,J	6.9	< 5.9	< 4.2	< 6.8	< 4.2	13
P24722SVF	24722 PANAMA AVE	2011-03-07	09:27	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24722SVFD	24722 PANAMA AVE	2011-03-07	09:27	Front	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
P24722SVG	24722 PANAMA AVE	2011-03-07	10:06	Garage	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 4	< 5.6
P24722SVGD	24722 PANAMA AVE	2011-03-07	10:06	Garage	< 11	< 4	< 5	< 93	7.5	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 4	< 5.6
P24722SVB	24722 PANAMA AVE	2011-03-07	10:49	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24722SVG	24722 PANAMA AVE	2012-04-26	10:06	Garage	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
P24722SVF	24722 PANAMA AVE	2012-04-26	10:23	Front	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
P24722SVFD	24722 PANAMA AVE	2012-04-26	10:23	Front	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
P24722SVB	24722 PANAMA AVE	2012-04-26	10:38	Back	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
R24722SVH	24722 RAVENNA AVE	2010-10-25	09:53	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
R24722SVF	24722 RAVENNA AVE	2010-10-25	10:39	Front	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 4.2	< 6
R24722SVB	24722 RAVENNA AVE	2010-10-25	11:16	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 81	< 5.4	< 6.1	< 4.3	< 7	< 4.3	< 6.1
R24722SVH	24722 RAVENNA AVE	2012-11-09	15:01	House	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
R24722SVB	24722 RAVENNA AVE	2012-11-09	15:15	Back	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	11	< 42	< 5.9
R24722SVF	24722 RAVENNA AVE	2012-11-09	15:39	Front	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
R24722SVB	24722 RAVENNA AVE	2013-05-02	09:54	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160 PF	< 75	< 5	< 5.7	< 4	7.5	< 40	< 5.7
R24722SVBD	24722 RAVENNA AVE	2013-05-02	09:54	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170 PF	< 78	< 5.2	< 5.9	< 4.2	7.7	< 42	< 5.9
R24722SVH	24722 RAVENNA AVE	2013-05-02	10:05	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160 PF	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
R24722SVF	24722 RAVENNA AVE	2013-05-02	10:31	Front	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160 PF	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
M24723SVB	24723 MARBELLA AVE	2010-03-29	16:23	Back	< 12	< 4.5	< 5.5	< 100 N,J	< 6.3	< 5.2	< 150 N,J	< 180 N,J	< 82 N,J	< 5.5	< 6.3	< 4.4	< 7.2	< 4.4	< 6.3
M24723SVH	24723 MARBELLA AVE	2010-04-07	12:12	House	< 12	< 4.1	< 5.1	< 96 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 76 N,J	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
M24723SVF	24723 MARBELLA AVE	2010-07-21	09:24	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24723SVF	24723 MARBELLA AVE	2012-06-21	15:14	Front	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
M24723SVFD	24723 MARBELLA AVE	2012-06-21	15:14	Front	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
M24723SVH	24723 MARBELLA AVE	2012-06-21	15:21	House	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
M24723SVB	24723 MARBELLA AVE	2012-06-21	15:47	Back	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
R24723SVB	24723 RAVENNA AVE	2010-11-02	13:51	Back	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 4.4	< 6.2
R24723SVH	24723 RAVENNA AVE	2010-11-02	13:54	House	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
R24723SVF	24723 RAVENNA AVE	2010-11-02	14:27	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24723SVF	24723 RAVENNA AVE	2012-11-08	10:04	Front	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
R24723SVFD	24723 RAVENNA AVE	2012-11-08	10:04	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
R24723SVH	24723 RAVENNA AVE	2012-11-08	10:23	House	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
R24723SVB	24723 RAVENNA AVE	2012-11-08	10:40	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
R24723SVH	24723 RAVENNA AVE	2013-04-23	10:15	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74 PF	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
R24723SVB	24723 RAVENNA AVE	2013-04-23	10:16	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74 PF	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
R24723SVF	24723 RAVENNA AVE	2013-04-23	10:58	Front	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82 PF	< 5.5	< 6.2	< 4.3	< 7.1	< 44	< 6.2

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

Analyte					Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
Units					UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
Frequency of Detection					4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
N24725SVB	24725 NEPTUNE AVE	2009-10-02	09:53	Back	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24725SVF	24725 NEPTUNE AVE	2009-10-02	10:54	Front	< 12	< 4.3	< 5.3	< 100 N,J	< 6	< 5	< 140 N,J	< 170 N,J	< 80 N,J	< 5.3	< 6	< 4.2	< 6.9	< 4.3	< 6
N24725SVH	24725 NEPTUNE AVE	2010-06-16	09:14	House	< 12	< 4.3	< 5.3	< 100 N,J	< 6	< 5	< 140 N,J	< 170 N,J	< 79 N,J	< 5.3	< 6	< 4.2	< 6.8	< 4.2	< 6
N24725SVB	24725 NEPTUNE AVE	2010-06-16	10:30	Back	< 11	< 4.1	11	< 95 N,J	7.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	6.6
N24725SVF	24725 NEPTUNE AVE	2010-06-16	11:18	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24725SVH	24725 NEPTUNE AVE	2012-06-22	14:51	House	< 8 PF	< 2.9	< 3.5	< 67	< 4	< 3.3	< 95	< 110	< 53	< 3.5	< 4	< 2.8	< 4.6	< 28	< 4
N24725SVB	24725 NEPTUNE AVE	2012-06-22	15:21	Back	< 7.7 PF	< 2.8	< 3.4	< 64	< 3.8	< 3.2	< 91	< 110	< 51	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
N24725SVBD	24725 NEPTUNE AVE	2012-06-22	15:21	Back	< 7.7 PF	< 2.8	< 3.4	< 64	< 3.8	< 3.2	< 91	< 110	< 51	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
N24725SVF	24725 NEPTUNE AVE	2012-06-22	15:27	Front	< 7.7 PF	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 91	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24726SVH	24726 MARBELLA AVE	2010-06-07	09:03	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24726SVB	24726 MARBELLA AVE	2010-06-07	10:06	Back	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
M24726SVF	24726 MARBELLA AVE	2010-08-19	08:52	Front	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 4	< 5.6
M24726SVHA	24726 MARBELLA AVE	2012-12-14	15:04	House	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 39	< 5.5
M24726SVG	24726 MARBELLA AVE	2012-12-19	11:07	Garage	< 22	< 8	< 9.8	< 180	< 11	< 9.3	< 260	< 310	< 150	< 9.8	< 11	< 7.8	< 13	< 78	< 11
R24726SVBA	24726 RAVENNA AVE	2011-03-14	10:13	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
R24726SVBAD	24726 RAVENNA AVE	2011-03-14	10:13	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
R24726SVH	24726 RAVENNA AVE	2011-03-14	11:00	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24726SVH	24726 RAVENNA AVE	2012-12-20	14:58	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
R24726SVG	24726 RAVENNA AVE	2012-12-20	15:01	Garage	20 b	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24726SVBA	24726 RAVENNA AVE	2012-12-20	15:33	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24728SVG	24728 NEPTUNE AVE	2010-05-14	14:56	Garage	< 12	4.5	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
N24728SVH2	24728 NEPTUNE AVE	2010-05-14	15:49	House	50	< 4.2	< 5.2	< 99 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.1	< 6.8	< 4.2	< 5.9
N24728SVH	24728 NEPTUNE AVE	2010-05-14	16:37	House	90	< 4.1	< 5.1	< 96 N,J	< 5.8	< 4.8	< 140 N,J	300 N,J	< 76 N,J	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
N24728SVH2	24728 NEPTUNE AVE	2010-09-21	09:25	House	< 11	< 3.8	9.2	< 88	7	< 4.4	< 120	< 150	< 70	< 4.7	< 5.3	< 3.7	< 6.1	< 3.8	< 5.3
N24728SVH	24728 NEPTUNE AVE	2010-09-21	10:07	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24728SVG	24728 NEPTUNE AVE	2010-09-21	10:46	Garage	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
N24728SVGD	24728 NEPTUNE AVE	2010-09-21	10:46	Garage	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
N24728SVG	24728 NEPTUNE AVE	2013-05-31	09:54	Garage	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 80	< 5.3	< 6	< 4.2	< 6.9	< 43	< 6
N24728SVGS	24728 NEPTUNE AVE	2013-05-31	09:54	Garage	< 20 U	< 2 U	< 4.1 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4.1 U	< 2 U	< 2 U	< 2 U
N24728SVH	24728 NEPTUNE AVE	2013-05-31	10:23	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
P24728SVH	24728 PANAMA AVE	2010-11-08	09:17	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24728SVB	24728 PANAMA AVE	2010-11-08	10:09	Back	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
P24728SVG	24728 PANAMA AVE	2010-11-08	11:20	Garage	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24728SVGS	24728 PANAMA AVE	2010-11-08	11:20	Garage	< 3.4	< 1.7	< 3.4		< 1.7	< 1.7				< 1.7	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7
P24728SVG	24728 PANAMA AVE	2012-11-02	10:05	Garage	< 13	< 4.7	< 5.8	< 110	< 6.6	< 5.5	< 160	< 190	< 87	< 5.8	< 6.6	< 4.6	< 7.6	< 47	< 6.6
P24728SVGD	24728 PANAMA AVE	2012-11-02	10:05	Garage	< 13	< 4.5	< 5.6	< 100	< 6.3	< 5.3	< 150	< 180	< 84	< 5.6	< 6.3	< 4.4	< 7.2	< 45	< 6.3
P24728SVB	24728 PANAMA AVE	2012-11-02	10:20	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
P24728SVB	24728 PANAMA AVE	2013-06-18	15:28	Back	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72 PF	< 4.9	< 5.5	< 3.8	< 6.3	< 39	< 5.5
P24728SVH2	24728 PANAMA AVE	2013-06-18	15:32	House	< 12	< 4.2	16	< 98	15	< 4.9	< 140	< 170	< 77 PF	< 5.2	< 5.9	< 4.1	< 6.7	< 42	9.8 EZ
P24728SVG	24728 PANAMA AVE	2013-06-18	16:07	Garage	< 13	< 4.7	< 5.8	< 110	< 6.6	< 5.5	< 160	< 190	< 87 PF	< 5.8	< 6.6	< 4.6	< 7.5	< 46	< 6.6
N24729SVB	24729 NEPTUNE AVE	2009-09-18	09:13	Back	< 12	< 4.2	< 5.2	< 98 N,J	< 5.8	< 4.9	< 140 N,J	< 160 UJ	< 77 N,J	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
N24729SVF	24729 NEPTUNE AVE	2009-09-18	10:38	Front	< 13	< 4.6	< 5.7	< 110 N,J	< 6.5	< 5.4	< 150 N,J	< 180 UJ	< 85 N,J	< 5.7	< 6.5	< 4.5	< 7.4	< 4.6	< 6.5
N24729SVH	24729 NEPTUNE AVE	2010-07-08	09:11	House	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24729SVF	24729 NEPTUNE AVE	2010-07-08	09:54	Front	< 10	< 3.6	< 4.4	< 84 N,J	< 5	< 4.2	< 120 N,J	< 140 N,J	< 66 N,J	< 4.4	< 5	< 3.5	< 5.8	< 3.6	< 5
N24729SVFD	24729 NEPTUNE AVE	2010-07-08	09:54	Front	< 10	< 3.7	< 4.5	< 86 N,J	< 5.1	< 4.3	< 120 N,J	< 140 N,J	< 68 N,J	< 4.5	< 5.1	< 3.6	< 5.9	< 3.6	< 5.1
N24729SVB	24729 NEPTUNE AVE	2010-07-08	10:54	Back	< 12	< 4.2	< 5.2	< 98 N,J	< 5.8	< 4.9	< 140 N,J	< 160 N,J	< 77 N,J	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
N24729SVF	24729 NEPTUNE AVE	2010-08-24	13:35	Front	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 4.2	< 6
N24729SVF	24729 NEPTUNE AVE	2012-10-19	14:30	Front	< 10	< 3.6	< 4.4	< 84	< 5	< 4.2	< 120	< 140	< 66	< 4.4	< 5	< 3.5	< 5.8	< 36	< 5
N24729SVB	24729 NEPTUNE AVE	2012-10-19	14:56	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24729SVH	24729 NEPTUNE AVE	2012-10-19	15:20	House	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 44	< 6.2
R24729SVB	24729 RAVENNA AVE	2010-07-14	13:57	Back	< 12	< 4.4	< 5.5	< 100 N,J	< 6.2	< 5.2	< 150 N,J	< 180 N,J	< 82 N,J	< 5.5	< 6.2	< 4.4	< 7.1	< 4.4	< 6.2
R24729SVH	24729 RAVENNA AVE	2010-07-14	14:44	House	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
					Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
					Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
R24729SVF	24729 RAVENNA AVE	2010-07-14	15:25	Front	< 12	< 4.2	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
R24729SVH	24729 RAVENNA AVE	2012-08-24	14:48	House	13	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24729SVF	24729 RAVENNA AVE	2012-08-24	14:49	Front	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
R24729SVB	24729 RAVENNA AVE	2012-08-24	15:18	Back	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 44	< 6.2
R24729SVB	24729 RAVENNA AVE	2013-06-20	15:29	Back	< 13	< 4.5	< 5.6	< 100	< 6.3	< 5.3	< 150	< 180	< 83 PF	< 5.6	< 6.3	< 4.4	< 7.2	< 45	< 6.3
R24729SVH	24729 RAVENNA AVE	2013-06-20	15:31	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76 PF	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
R24729SVF	24729 RAVENNA AVE	2013-06-20	16:01	Front	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80 PF	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
M24732SVF	24732 MARBELLA AVE	2010-07-01	09:40	Front	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24732SVB	24732 MARBELLA AVE	2010-07-01	10:19	Back	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24732SVH	24732 MARBELLA AVE	2013-01-11	09:47	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
M24732SVB	24732 MARBELLA AVE	2013-01-11	10:12	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
M24732SVBD	24732 MARBELLA AVE	2013-01-11	10:12	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
M24732SVF	24732 MARBELLA AVE	2013-01-11	10:16	Front	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 40	< 5.6
M24732SVH	24732 MARBELLA AVE	2013-05-23	10:13	House	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77 PF	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
M24732SVB	24732 MARBELLA AVE	2013-05-23	10:14	Back	< 12	4.7	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77 PF	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
M24732SVBD	24732 MARBELLA AVE	2013-05-23	10:14	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75 PF	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
M24732SVF	24732 MARBELLA AVE	2013-05-23	10:36	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77 PF	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
N24732SVH	24732 NEPTUNE AVE	2010-09-20	14:13	House	< 11	< 3.8	< 4.7	550	< 5.4	< 4.5	280	< 150	510	< 4.7	< 5.4	14	< 6.1	< 3.8	< 5.4
N24732SVHD	24732 NEPTUNE AVE	2010-09-20	14:13	House	< 11	3.9	< 4.7	520	< 5.4	4.8	230	< 150	500	< 4.7	< 5.4	12	< 6.1	< 3.8	< 5.4
N24732SVB	24732 NEPTUNE AVE	2010-09-20	15:13	Back	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	250	200	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
N24732SVF	24732 NEPTUNE AVE	2010-09-20	16:00	Front	< 32	< 11	< 14	< 270	< 16	< 13	< 380	< 450	< 210	< 14	< 16	< 11	< 18	< 11	< 16
N24732SVHA	24732 NEPTUNE AVE	2011-02-18	09:09	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24732SVF	24732 NEPTUNE AVE	2011-02-18	09:52	Front	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
N24732SVFS	24732 NEPTUNE AVE	2011-02-18	09:52	Front	< 3.4	1.8	< 3.4		< 1.7	< 1.7				< 1.7	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7
N24732SVB	24732 NEPTUNE AVE	2011-02-18	10:42	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24732SVBS	24732 NEPTUNE AVE	2011-02-18	10:42	Back	< 3.4	< 1.7	< 3.4		< 1.7	< 1.7				< 1.7	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7
N24732SVF	24732 NEPTUNE AVE	2011-03-10	09:56	Front	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24732SVFS	24732 NEPTUNE AVE	2011-03-10	09:56	Front	< 3.6	< 1.8	< 3.6		< 1.8	< 1.8				< 1.8	< 1.8	< 3.6	2	< 1.8	< 1.8
N24732SVHA	24732 NEPTUNE AVE	2011-03-10	10:38	House	< 10	< 3.6	< 4.4	< 84	< 5	< 4.2	< 120	< 140	< 66	< 4.4	< 5	< 3.5	< 5.8	< 3.6	< 5
N24732SVB	24732 NEPTUNE AVE	2011-03-10	11:13	Back	< 12	< 4.2	< 5.2	170	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
P24732SVF	24732 PANAMA AVE	2010-04-22	15:11	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24732SVB	24732 PANAMA AVE	2010-04-22	17:02	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24732SVH	24732 PANAMA AVE	2010-04-23	10:34	House	< 11	< 3.9	< 4.9	< 92 N,J	< 5.5	< 4.6	< 130 N,J	< 160 N,J	< 72 N,J	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
P24732SVH	24732 PANAMA AVE	2010-08-31	13:58	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	160	< 160	< 75	< 5	< 5.7	< 4	< 6.5	4.3	< 5.7
P24732SVB	24732 PANAMA AVE	2010-08-31	14:36	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24732SVBD	24732 PANAMA AVE	2010-08-31	14:36	Back	< 12	< 4.3	14	< 99	29	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	19
P24732SVF	24732 PANAMA AVE	2010-08-31	15:16	Front	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 81	< 5.4	< 6.1	< 4.3	< 7	7.4	< 6.1
P24732SVH	24732 PANAMA AVE	2012-06-14	14:49	House	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
P24732SVF	24732 PANAMA AVE	2012-06-14	15:01	Front	< 7.5	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	< 26	< 3.7
P24732SVFD	24732 PANAMA AVE	2012-06-14	15:01	Front	< 7.5	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	< 26	< 3.7
P24732SVB	24732 PANAMA AVE	2012-06-14	15:27	Back	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
R24732SVH	24732 RAVENNA AVE	2010-10-11	09:20	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
R24732SVG	24732 RAVENNA AVE	2010-10-11	10:23	Garage	13	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24732SVGS	24732 RAVENNA AVE	2010-10-11	10:23	Garage	< 3.4	< 1.7	< 3.4		< 1.7	< 1.7				< 1.7	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7
R24732SVB	24732 RAVENNA AVE	2010-10-11	11:09	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24732SVG	24732 RAVENNA AVE	2012-06-22	10:00	Garage	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
R24732SVB	24732 RAVENNA AVE	2012-06-22	10:11	Back	< 8.2	< 3	< 3.6	< 69	< 4.1	< 3.4	< 98	< 120	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 29	< 4.1
R24732SVBS	24732 RAVENNA AVE	2012-06-22	10:11	Back	< 18 U	< 1.8 U	< 3.6 U		< 1.8 U	< 1.8 U				< 1.8 U	< 1.8 U	< 3.6 U	< 1.8 U	< 1.8 U	< 1.8 U
R24732SVH	24732 RAVENNA AVE	2012-06-22	10:33	House	< 7.7	< 2.8	< 3.4	< 64	< 3.8	< 3.2	< 91	< 110	< 51	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24733SVH	24733 MARBELLA AVE	2010-08-06	09:12	House	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24733SVG	24733 MARBELLA AVE	2010-08-06	09:53	Garage	< 12	< 4.2	< 5.2	< 98 N,J	< 5.8	< 4.9	< 140 N,J	170 N,J	< 77 N,J	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
M24733SVGD	24733 MARBELLA AVE	2010-08-06	09:53	Garage	< 12	< 4.2	< 5.2	< 98 N,J	< 5.8	< 4.9	< 140 N,J	< 160 N,J	< 77 N,J	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

Analyte					Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
Units					UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
Frequency of Detection					4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
M24733SVB	24733 MARBELLA AVE	2010-08-06	10:38	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24733SVG	24733 MARBELLA AVE	2012-06-08	14:36	Garage	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
M24733SVGD	24733 MARBELLA AVE	2012-06-08	14:36	Garage	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
M24733SVB	24733 MARBELLA AVE	2012-06-08	15:08	Back	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
M24733SVB	24733 MARBELLA AVE	2013-04-04	14:39	Back	< 10	< 3.8	< 4.6	< 88	< 5.2	< 4.4	< 120	< 150	< 69 PF	< 4.6	< 5.2	< 3.7	< 6	< 37	< 5.3
M24733SVHA	24733 MARBELLA AVE	2013-04-04	14:47	House	< 8.6	< 3.1	< 3.8	< 72	< 4.3	< 3.6	< 100	< 120	< 57 PF	< 3.8	< 4.3	< 3	< 4.9	< 30	< 4.3
M24733SVG	24733 MARBELLA AVE	2013-04-04	15:08	Garage	< 9.1	< 3.3	< 4	< 76	< 4.5	< 3.8	< 110	< 130	< 60 PF	< 4	< 4.5	< 3.2	< 5.2	< 32	< 4.5
P24733SVH	24733 PANAMA AVE	2011-01-27	09:40	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24733SVF	24733 PANAMA AVE	2011-01-27	10:20	Front	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
P24733SVFS	24733 PANAMA AVE	2011-01-27	10:20	Front	< 3.5	< 1.7	< 3.5		< 1.7	< 1.7				< 1.7	< 1.7	< 3.5	< 1.7	< 1.7	< 1.7
P24733SVB	24733 PANAMA AVE	2011-01-27	11:04	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 4.2	< 6
P24733SVB	24733 PANAMA AVE	2013-02-21	09:54	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
P24733SVBS	24733 PANAMA AVE	2013-02-21	09:54	Back	< 19 U	< 1.9 U	< 3.8 U		< 1.9 U	< 1.9 U				< 1.9 U	< 1.9 U	< 3.8 U	< 1.9 U	< 1.9 U	< 1.9 U
P24733SVH	24733 PANAMA AVE	2013-02-21	10:06	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
P24733SVF	24733 PANAMA AVE	2013-02-21	10:36	Front	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
P24733SVH	24733 PANAMA AVE	2013-07-23	09:48	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
P24733SVB	24733 PANAMA AVE	2013-07-23	09:51	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
P24733SVBD	24733 PANAMA AVE	2013-07-23	09:51	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
P24733SVF	24733 PANAMA AVE	2013-07-23	10:10	Front	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
R24733SVH	24733 RAVENNA AVE	2010-04-08	13:49	House	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
R24733SVF	24733 RAVENNA AVE	2010-04-08	14:57	Front	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
R24733SVB	24733 RAVENNA AVE	2010-04-08	15:49	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24733SVH	24733 RAVENNA AVE	2012-07-27	10:03	House	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
R24733SVB	24733 RAVENNA AVE	2012-07-27	10:42	Back	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
R24733SVBD	24733 RAVENNA AVE	2012-07-27	10:42	Back	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
R24733SVF	24733 RAVENNA AVE	2012-07-27	10:46	Front	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
N24735SVH	24735 NEPTUNE AVE	2010-11-17	09:23	House	16	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
N24735SVF	24735 NEPTUNE AVE	2010-11-17	10:19	Front	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24735SVB	24735 NEPTUNE AVE	2010-11-17	11:03	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24735SVBD	24735 NEPTUNE AVE	2010-11-17	11:03	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24735SVB	24735 NEPTUNE AVE	2012-11-15	10:03	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24735SVBD	24735 NEPTUNE AVE	2012-11-15	10:03	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24735SVF	24735 NEPTUNE AVE	2012-11-15	10:45	Front	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
N24735SVH	24735 NEPTUNE AVE	2012-11-20	13:43	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
N24735SVB	24735 NEPTUNE AVE	2013-06-11	14:49	Back	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
N24735SVH	24735 NEPTUNE AVE	2013-06-11	15:00	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
N24735SVF	24735 NEPTUNE AVE	2013-06-11	15:23	Front	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
R24736SVH	24736 RAVENNA AVE	2010-04-28	14:11	House	< 12	< 4.2	< 5.2	< 98 N,J	170	< 4.9	820 N,J	880 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	63
R24736SVF	24736 RAVENNA AVE	2010-04-28	15:04	Front	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
R24736SVFS	24736 RAVENNA AVE	2010-04-28	15:04	Front	< 3.6	< 1.8	< 3.6		< 1.8	< 1.8				< 1.8	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8
R24736SVB	24736 RAVENNA AVE	2010-04-28	15:50	Back	< 11	< 4	< 5	< 93 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 4.9	< 5.6	< 3.9	< 6.4	< 4	< 5.6
R24736SVB	24736 RAVENNA AVE	2013-06-04	14:50	Back	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
R24736SVH	24736 RAVENNA AVE	2013-06-04	14:59	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24736SVF	24736 RAVENNA AVE	2013-06-04	15:18	Front	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 44	< 6.2
M24737SVB	24737 MARBELLA AVE	2010-04-30	09:18	Back	< 12	< 4.2	12	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
M24737SVF	24737 MARBELLA AVE	2010-04-30	10:04	Front	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
M24737SVH	24737 MARBELLA AVE	2010-04-30	11:03	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24737SVH	24737 MARBELLA AVE	2010-09-03	09:56	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	300	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
M24737SVHS	24737 MARBELLA AVE	2010-09-03	09:56	House	< 3.4	< 1.7	< 3.4		< 1.7	< 1.7				< 1.7	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7
M24737SVF	24737 MARBELLA AVE	2010-09-03	10:37	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24737SVB	24737 MARBELLA AVE	2010-09-03	12:02	Back	< 24	< 8.5	< 10	< 200	< 12	< 9.8	< 280	< 340	< 160	< 10	< 12	< 8.3	< 14	< 8.4	< 12
M24737SVB	24737 MARBELLA AVE	2012-12-07	15:05	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

Analyte					Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
Units					UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
Frequency of Detection					4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
M24737SVH	24737 MARBELLA AVE	2012-12-07	15:12	House	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
M24737SVF	24737 MARBELLA AVE	2012-12-07	15:42	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
M24737SVB	24737 MARBELLA AVE	2013-05-24	09:56	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
M24737SVBD	24737 MARBELLA AVE	2013-05-24	09:56	Back	< 11	4.1	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
M24737SVH	24737 MARBELLA AVE	2013-05-24	09:56	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
M24737SVF	24737 MARBELLA AVE	2013-05-24	10:24	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24738SVB	24738 NEPTUNE AVE	2009-09-23	09:00	Back	< 11	< 4	< 5	< 94 N,J	11	< 4.7	< 130 N,J	< 160 N,J,UJ	< 74 N,J	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
N24738SVF	24738 NEPTUNE AVE	2009-09-23	09:45	Front	< 12	< 4.1	< 5.1	< 96 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J,UJ	< 76 N,J	< 5.1	6.5	< 4	< 6.6	< 4.1	< 5.8
N24738SVH	24738 NEPTUNE AVE	2012-02-23	10:03	House	< 10	< 3.7	< 4.6	< 86	< 5.2	< 4.3	< 120	< 150	< 68	< 4.6	< 5.2	< 3.6	< 5.9	< 3.6	< 5.2
N24738SVF	24738 NEPTUNE AVE	2012-02-23	10:33	Front	< 11	< 3.9	6.1	< 91	< 5.5	< 4.6	< 130	< 160	87	< 4.8	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
N24738SVFD	24738 NEPTUNE AVE	2012-02-23	10:33	Front	< 11	< 3.8	< 4.8	< 90	< 5.4	< 4.5	< 130	< 150	100	< 4.8	< 5.4	< 3.8	< 6.2	< 3.8	< 5.4
N24738SVF	24738 NEPTUNE AVE	2013-08-28	15:10	Front	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 44	< 6.2
N24738SVFD	24738 NEPTUNE AVE	2013-08-28	15:10	Front	< 12	< 4.4	< 5.4	< 100	< 6.2	< 5.1	< 150	< 170	< 81	< 5.4	< 6.2	< 4.3	< 7	< 44	< 6.2
N24738SVB	24738 NEPTUNE AVE	2013-08-28	15:44	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
P24738SVH	24738 PANAMA AVE	2010-09-07	13:44	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24738SVHD	24738 PANAMA AVE	2010-09-07	13:44	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24738SVB	24738 PANAMA AVE	2010-09-07	14:25	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
P24738SVF	24738 PANAMA AVE	2010-09-07	15:03	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
P24738SVH	24738 PANAMA AVE	2012-09-07	14:53	House	170	< 4	< 5	19000	< 5.6	< 4.7	12000	4500 PE	1400	170	40	32	< 6.4	< 40	< 5.6
P24738SVF	24738 PANAMA AVE	2012-09-07	15:37	Front	< 11	4.6	< 4.7	180	< 5.3	< 4.4	290	< 150	< 70	< 4.7	< 5.3	< 3.7	< 6.1	< 38	< 5.3
P24738SVB	24738 PANAMA AVE	2012-09-07	15:55	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
P24738SVH	24738 PANAMA AVE	2013-06-11	09:41	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
P24738SVB	24738 PANAMA AVE	2013-06-11	09:46	Back	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
P24738SVBS	24738 PANAMA AVE	2013-06-11	09:46	Back	< 30 U	< 3 U	< 5.9 U		< 3 U	< 3 U				< 3 U	< 3 U	< 5.9 U	< 3 U	< 3 U	< 3 U
P24738SVF	24738 PANAMA AVE	2013-06-11	10:19	Front	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
P24738SVFS	24738 PANAMA AVE	2013-06-11	10:19	Front	< 21 U	< 2.1 U	< 4.2 U		< 2.1 U	< 2.1 U				< 2.1 U	< 2.1 U	< 4.2 U	< 2.1 U	< 2.1 U	< 2.1 U
N24739SVH	24739 NEPTUNE AVE	2010-10-12	09:45	House	< 9.9	< 3.6	< 4.4	< 83	< 5	< 4.1	< 120	< 140	< 65	< 4.4	< 5	< 3.5	< 5.7	< 3.5	< 5
N24739SVF	24739 NEPTUNE AVE	2010-10-12	11:48	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24739SVG	24739 NEPTUNE AVE	2011-11-11	12:08	Garage	< 7.5	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	< 2.6	< 3.7
N24739SVH	24739 NEPTUNE AVE	2011-11-11	12:45	House	< 7.5	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	< 2.6	< 3.7
N24739SVF	24739 NEPTUNE AVE	2011-11-11	13:30	Front	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 2.7	< 3.8
N24739SVFD	24739 NEPTUNE AVE	2011-11-11	13:30	Front	< 7.6	< 2.7	23 j	< 64	19 j	< 3.2	< 90	< 110	< 50	4.6	< 3.8	< 2.7	< 4.4	< 2.7	11 j
N24739SVH	24739 NEPTUNE AVE	2012-09-21	10:05	House	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
N24739SVG	24739 NEPTUNE AVE	2012-09-21	10:10	Garage	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
N24739SVGS	24739 NEPTUNE AVE	2012-09-21	10:10	Garage	< 19 U	< 1.9 U	< 3.7 U		< 1.9 U	< 1.9 U				< 1.9 U	< 1.9 U	< 3.7 U	< 1.9 U	4.4	< 1.9 U
N24739SVG	24739 NEPTUNE AVE	2013-04-30	10:10	Garage	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
N24739SVGD	24739 NEPTUNE AVE	2013-04-30	10:10	Garage	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
N24739SVH	24739 NEPTUNE AVE	2013-04-30	10:51	House	< 12	12	< 5.2	< 98	< 5.9	10	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
P24739SVH	24739 PANAMA AVE	2011-02-07	13:57	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24739SVHS	24739 PANAMA AVE	2011-02-07	13:57	House	< 3.5	< 1.7	< 3.5		< 1.7	< 1.7				< 1.7	< 1.7	< 3.5	< 1.7	< 1.7	< 1.7
P24739SVB	24739 PANAMA AVE	2011-02-07	14:43	Back				< 100			< 150	< 180	< 82						
P24739SVF	24739 PANAMA AVE	2011-02-07	14:43	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24739SVB	24739 PANAMA AVE	2011-02-07	15:15	Back	< 12	< 4.4	< 5.5		< 6.2	< 5.2				< 5.5	< 6.2	< 4.3	< 7.1	< 4.4	< 6.2
P24739SVB	24739 PANAMA AVE	2012-10-26	10:02	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
P24739SVBD	24739 PANAMA AVE	2012-10-26	10:02	Back	< 11	< 3.9	< 4.8	< 90	< 5.4	< 4.5	< 130	< 150	< 72	< 4.8	< 5.4	< 3.8	< 6.2	< 38	< 5.4
P24739SVH	24739 PANAMA AVE	2012-10-26	10:30	House	< 11	7.6	< 4.8	< 90	< 5.4	7	< 130	< 150	74	< 4.8	< 5.4	< 3.8	< 6.2	< 38	< 5.4
P24739SVF	24739 PANAMA AVE	2012-10-26	10:33	Front	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
P24739SVF	24739 PANAMA AVE	2013-06-13	14:50	Front	< 12	< 4.2	< 5.2	< 99	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.8	< 42	< 5.9
P24739SVH	24739 PANAMA AVE	2013-06-13	14:59	House	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 44	< 6.2
P24739SVB	24739 PANAMA AVE	2013-06-13	15:21	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.9	< 42	< 6
R24739SVH	24739 RAVENNA AVE	2010-10-13	09:06	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
R24739SVB	24739 RAVENNA AVE	2010-10-13	09:42	Back	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
				Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
				Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
R24739SVF	24739 RAVENNA AVE	2010-10-13	10:14	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24739SVFD	24739 RAVENNA AVE	2010-10-13	10:14	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24739SVF	24739 RAVENNA AVE	2011-03-03	09:57	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
R24739SVH	24739 RAVENNA AVE	2011-03-03	10:35	House	< 11	< 4.1	< 5	< 95	40	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24739SVB	24739 RAVENNA AVE	2011-03-03	11:10	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24739SVB D	24739 RAVENNA AVE	2011-03-03	11:10	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24739SVB	24739 RAVENNA AVE	2013-07-03	14:39	Back	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
R24739SVH	24739 RAVENNA AVE	2013-07-03	14:54	House	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 81	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
R24739SVF	24739 RAVENNA AVE	2013-07-03	15:09	Front	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.9	< 42	< 6
M24741SVH	24741 MARBELLA AVE	2010-05-28	09:20	House	20	< 4.1	< 5	240 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24741SVB	24741 MARBELLA AVE	2010-05-28	10:01	Back	< 12	< 4.2	< 5.2	< 99 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.1	< 6.8	< 4.2	< 5.9
M24741SVF	24741 MARBELLA AVE	2010-05-28	10:37	Front	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24741SVF	24741 MARBELLA AVE	2012-06-15	09:59	Front	< 7.4	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.2	< 26	< 3.7
M24741SVFS	24741 MARBELLA AVE	2012-06-15	09:59	Front	< 3.3 U	< 1.7 U	< 3.3 U		< 1.7 U	< 1.7 U				< 1.7 U	< 1.7 U	< 3.3 U	1.9	< 1.7 U	< 1.7 U
M24741SVB	24741 MARBELLA AVE	2012-06-15	10:08	Back	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
M24741SVBS	24741 MARBELLA AVE	2012-06-15	10:08	Back	< 3.4 U	< 1.7 U	< 3.4 U		< 1.7 U	< 1.7 U				< 1.7 U	< 1.7 U	< 3.4 U	1.7	< 1.7 U	< 1.7 U
M24741SVHA	24741 MARBELLA AVE	2012-06-22	12:08	House	< 7.5	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	5	< 26	< 3.7
R24743SVH	24743 RAVENNA AVE	2010-10-25	13:41	House	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
R24743SVG	24743 RAVENNA AVE	2010-10-25	14:14	Garage	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.3	< 3.9	< 5.6
R24743SVB	24743 RAVENNA AVE	2010-10-25	14:51	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 4	< 5.6
R24743SVB	24743 RAVENNA AVE	2013-02-14	15:08	Back	< 11	5	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24743SVH	24743 RAVENNA AVE	2013-02-14	15:09	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
R24743SVG	24743 RAVENNA AVE	2013-02-14	15:43	Garage	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
R24743SVB	24743 RAVENNA AVE	2013-07-10	14:40	Back	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
R24743SVG	24743 RAVENNA AVE	2013-07-10	14:50	Garage	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
R24743SVH	24743 RAVENNA AVE	2013-07-10	15:32	House	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 81	< 5.4	< 6.1	< 4.3	< 7	< 43	< 6.1
M24744SVF	24744 MARBELLA AVE	2010-04-23	15:07	Front	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
M24744SVB	24744 MARBELLA AVE	2010-04-23	16:04	Back	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
M24744SVH	24744 MARBELLA AVE	2010-04-23	17:13	House	12	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
M24744SVH	24744 MARBELLA AVE	2010-08-02	09:39	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24744SVG	24744 MARBELLA AVE	2010-08-17	08:50	Garage	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
M24744 SVH	24744 MARBELLA AVE	2011-02-09	09:26	House	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
M24744 SVG	24744 MARBELLA AVE	2011-02-09	10:02	Garage	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.3	< 3.9	< 5.6
M24744 SVB	24744 MARBELLA AVE	2011-02-09	10:52	Back	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 4	< 5.6
M24744 SVB D	24744 MARBELLA AVE	2011-02-09	10:52	Back	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 4	< 5.6
M24744 SVH	24744 MARBELLA AVE	2012-03-15	15:26	House	< 18	< 6.6	< 8.2	< 150	< 9.2	< 7.7	< 220	< 260	< 120	< 8.2	< 9.2	< 6.5	< 10	< 65	< 9.2
M24744 SVG	24744 MARBELLA AVE	2012-03-15	15:30	Garage	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
M24744 SVB	24744 MARBELLA AVE	2012-03-15	16:11	Back	< 8.2	< 3	< 3.6	< 69	< 4.1	< 3.4	< 98	< 120	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 29	< 4.1
M24744 SVBD	24744 MARBELLA AVE	2012-03-15	16:11	Back	< 8.2	4.3	< 3.6	< 69	< 4.1	< 3.4	< 98	< 120	< 54	< 3.6	< 4.1	< 2.9	< 4.7	< 29	< 4.1
R24748SVH	24748 RAVENNA AVE	2010-07-15	09:41	House	< 12	< 4.2	< 5.2	< 99 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	6.6	< 4.1	< 6.8	< 4.2	< 5.9
R24748SVF	24748 RAVENNA AVE	2010-07-15	10:32	Front	< 12	< 4.1	< 5.1	< 96 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 76 N,J	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
R24748SVB	24748 RAVENNA AVE	2010-07-15	11:13	Back	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
R24748SVF	24748 RAVENNA AVE	2012-09-14	10:13	Front	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
R24748SVFS	24748 RAVENNA AVE	2012-09-14	10:13	Front	< 21 U	< 2.1 U	< 4.2 U		< 2.1 U	< 2.1 U				< 2.1 U	< 2.1 U	< 4.2 U	< 2.1 U	< 2.1 U	< 2.1 U
R24748SVB	24748 RAVENNA AVE	2012-09-14	10:33	Back	< 14	< 4.9	< 6	< 110	< 6.8	< 5.6	< 160	< 190	< 89	< 6	< 6.8	< 4.8	< 7.8	< 48	< 6.8
R24748SVH	24748 RAVENNA AVE	2012-09-14	11:03	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
R24748SVH	24748 RAVENNA AVE	2013-04-16	09:50	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74 PF	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
R24748SVF	24748 RAVENNA AVE	2013-04-16	10:02	Front	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79 PF	< 5.3	< 6	< 4.2	< 6.9	< 42	< 6
R24748SVF D	24748 RAVENNA AVE	2013-04-16	10:02	Front	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78 PF	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
R24748SVB	24748 RAVENNA AVE	2013-04-16	10:22	Back	< 10	< 3.7	< 4.6	< 87	< 5.2	< 4.3	< 120	< 150	< 69 PF	< 4.6	< 5.2	< 3.6	< 6	< 37	< 5.2
R24749SVH	24749 RAVENNA AVE	2010-09-10	09:09	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
R24749SVB	24749 RAVENNA AVE	2010-09-10	09:45	Back	< 12	< 4.3	< 5.2	100	< 5.9	6.5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
					Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
					Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**																
R24749SVBD	24749 RAVENNA AVE	2010-09-10	09:45	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
R24749SVG	24749 RAVENNA AVE	2010-09-10	10:25	Garage	< 290	4100	< 130		< 150	2700				200	< 150	14000	< 170	< 100	< 150
R24749SVH	24749 RAVENNA AVE	2010-12-17	12:14	House	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
R24749SVHS	24749 RAVENNA AVE	2010-12-17	12:14	House	< 3.3	< 1.6	< 3.3		< 1.6	< 1.6				< 1.6	< 1.6	< 3.3	< 1.6	< 1.6	< 1.6
R24749SVG	24749 RAVENNA AVE	2010-12-17	12:37	Garage	< 58	1500	49	120000	< 29	910	44000	8500	15000	120	< 29	6800	< 33	< 20	< 29
R24749SVB	24749 RAVENNA AVE	2010-12-17	13:05	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24749SVB	24749 RAVENNA AVE	2013-08-06	10:00	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
R24749SVBD	24749 RAVENNA AVE	2013-08-06	10:00	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
R24749SVH	24749 RAVENNA AVE	2013-08-06	10:02	House	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
R24749SVG	24749 RAVENNA AVE	2013-08-06	10:29	Garage	< 11	310	20	27000	< 5.5	89	13000	4800	3000	38	13	560	< 6.3	< 39	< 5.5
R24752SVF	24752 RAVENNA AVE	2010-04-09	11:14	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
R24752SVB	24752 RAVENNA AVE	2010-04-09	12:34	Back	< 12	< 4.2	< 5.2	< 98 N,J	< 5.8	< 4.9	< 140 N,J	< 160 N,J	< 77 N,J	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
R24752SVH2	24752 RAVENNA AVE	2010-05-21	13:38	House	< 20	< 7.2	< 8.9	< 95 N,J	< 10	< 8.4	< 140 N,J	< 160 N,J	< 75 N,J	< 8.9	< 10	< 7	< 12	< 7.1	< 10
R24752SVH2	24752 RAVENNA AVE	2012-07-20	15:01	House	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
R24752SVF	24752 RAVENNA AVE	2012-07-20	15:08	Front	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
R24752SVB	24752 RAVENNA AVE	2012-07-20	15:45	Back	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
N24803SVG	24803 NEPTUNE AVE	2010-09-07	14:58	Garage	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24803SVB	24803 NEPTUNE AVE	2010-09-07	15:46	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 4.3	< 6.1
N24803SVBD	24803 NEPTUNE AVE	2010-09-07	15:46	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24803SVHA	24803 NEPTUNE AVE	2011-03-31	14:15	House	< 13	< 4.6	< 5.7	< 110	< 6.5	< 5.4	< 150	< 180	< 85	< 5.7	< 6.5	< 4.5	< 7.4	< 4.6	< 6.5
N24803SVG	24803 NEPTUNE AVE	2011-03-31	14:59	Garage	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24803SVB	24803 NEPTUNE AVE	2011-03-31	15:33	Back	< 13	< 4.5	< 5.6	< 100	< 6.3	< 5.3	< 150	< 180	< 84	< 5.6	< 6.3	< 4.4	< 7.2	< 4.5	< 6.3
N24803SVBD	24803 NEPTUNE AVE	2011-03-31	15:33	Back	< 13	< 4.5	< 5.6	< 100	< 6.3	< 5.3	< 150	< 180	< 84	< 5.6	< 6.3	< 4.4	< 7.2	< 4.5	< 6.3
N24803SVHB	24803 NEPTUNE AVE	2013-02-01	14:38	House	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
N24803SVB	24803 NEPTUNE AVE	2013-02-01	14:47	Back	< 13	< 4.5	< 5.6	< 100	< 6.3	< 5.3	< 150	< 180	< 84	< 5.6	< 6.3	< 4.4	< 7.2	< 45	< 6.3
N24803SVG	24803 NEPTUNE AVE	2013-02-01	15:18	Garage	< 11	< 3.9	< 4.8	< 90	< 5.4	< 4.5	< 130	< 150	< 71	< 4.8	< 5.4	< 3.8	< 6.2	< 38	< 5.4
N24803SVB	24803 NEPTUNE AVE	2013-07-12	14:58	Back	30	< 3.6	18	< 84	< 5.1	< 4.2	< 120	< 140	< 67	12	< 5.1	10	< 5.8	< 36	< 5.1
N24803SVG	24803 NEPTUNE AVE	2013-07-12	15:20	Garage	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 42	< 6
N24803SVHB	24803 NEPTUNE AVE	2013-07-15	11:15	House	17	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 42	< 6
P24803SVH	24803 PANAMA AVE	2010-08-09	14:02	House	< 12	< 4.2	< 5.2	< 98 N,J	< 5.8	< 4.9	< 140 N,J	< 160 N,J	< 77 N,J	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
P24803SVB	24803 PANAMA AVE	2010-08-09	15:14	Back	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24803SVF	24803 PANAMA AVE	2010-08-09	15:45	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24803SVH	24803 PANAMA AVE	2011-02-18	14:16	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24803SVB	24803 PANAMA AVE	2011-02-18	14:28	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24803SVG	24803 PANAMA AVE	2011-02-18	15:05	Garage	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 80	< 5.3	< 6	< 4.2	< 6.9	< 4.3	< 6
P24803SVG	24803 PANAMA AVE	2013-01-31	14:39	Garage	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
P24803SVH	24803 PANAMA AVE	2013-01-31	14:40	House	< 13	< 4.7	< 5.8	< 110	< 6.6	< 5.5	< 160	< 190	< 87	< 5.8	< 6.6	< 4.6	< 7.6	< 47	< 6.6
P24803SVB	24803 PANAMA AVE	2013-01-31	15:12	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
P24803SVH	24803 PANAMA AVE	2013-08-08	14:45	House	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
P24803SVB	24803 PANAMA AVE	2013-08-08	14:48	Back	< 13	< 4.6	< 5.6	< 110	< 6.4	< 5.3	< 150	< 180	< 84	< 5.6	< 6.4	< 4.4	< 7.3	< 45	< 6.4
P24803SVG	24803 PANAMA AVE	2013-08-08	15:15	Garage	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
N24809SVB	24809 NEPTUNE AVE	2010-10-15	08:57	Back	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
N24809 SVFS	24809 NEPTUNE AVE	2010-10-15	09:35	Front	< 3.1	< 1.6	< 3.1		< 1.6	< 1.6				< 1.6	< 1.6	< 3.1	< 1.6	< 1.6	< 1.6
N24809SVF	24809 NEPTUNE AVE	2010-10-15	09:35	Front	< 11	< 3.9	< 4.8	< 90	< 5.4	< 4.5	< 130	< 150	< 71	< 4.8	< 5.4	< 3.8	< 6.2	< 3.8	< 5.4
N24809SVH	24809 NEPTUNE AVE	2010-10-15	10:42	House	< 11	< 4.1	< 5	120	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24809SVB	24809 NEPTUNE AVE	2012-07-20	10:05	Back	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
N24809SVH	24809 NEPTUNE AVE	2012-07-20	10:15	House	55	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
N24809SVF	24809 NEPTUNE AVE	2012-07-20	10:52	Front	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
P24809SVF	24809 PANAMA AVE	2009-10-15	13:49	Front	< 12	< 4.2	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
P24809SVH	24809 PANAMA AVE	2009-10-15	15:07	House	< 12	< 4.2	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
P24809SVHS	24809 PANAMA AVE	2009-10-15	15:07	House	3.6 J	< 2.1	< 4.1		< 2.1	< 2.1				< 2.1	1 J	< 4.1	2.9	< 2.1	< 2.1
P24809SVB	24809 PANAMA AVE	2009-10-15	16:08	Back	< 12	< 4.2	< 5.2	< 99 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.1	< 6.8	< 4.2	< 5.9

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

Analyte					Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
Units					UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
Frequency of Detection					4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
P24809SVBD	24809 PANAMA AVE	2009-10-15	16:08	Back	< 12	< 4.2	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
P24809SVB	24809 PANAMA AVE	2010-07-28	10:19	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24809SVF	24809 PANAMA AVE	2010-07-28	11:02	Front	< 12	< 4.4	< 5.4	< 100 N,J	< 6.1	< 5.1	< 140 N,J	< 170 N,J	< 80 N,J	< 5.4	< 6.1	< 4.3	< 7	< 4.3	< 6.1
P24809SVH	24809 PANAMA AVE	2011-02-08	09:21	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24809SVHA	24809 PANAMA AVE	2012-03-23	10:28	House	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
P24809SVF	24809 PANAMA AVE	2012-03-23	11:04	Front	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
P24809SVB	24809 PANAMA AVE	2012-03-23	11:12	Back	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
P24809SVBS	24809 PANAMA AVE	2012-03-23	11:12	Back	< 3.4 U	< 1.7 U	< 3.4 U		< 1.7 U	< 1.7 U				< 1.7 U	< 1.7 U	< 3.4 U	< 1.7 U	< 1.7 U	< 1.7 U
P24812SVH	24812 PANAMA AVE	2010-05-05	08:54	House	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24812SVB	24812 PANAMA AVE	2010-05-05	10:21	Back	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
P24812SVBD	24812 PANAMA AVE	2010-05-05	10:21	Back	< 12	< 4.2	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
P24812SVF	24812 PANAMA AVE	2010-05-05	11:08	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24812SVH	24812 PANAMA AVE	2012-12-06	15:07	House	< 12	7.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
P24812SVB	24812 PANAMA AVE	2012-12-06	15:08	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
P24812SVF	24812 PANAMA AVE	2012-12-06	15:39	Front	< 12	4.5	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 44	< 6.2
P24812SVB	24812 PANAMA AVE	2013-05-01	14:58	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
P24812SVH	24812 PANAMA AVE	2013-05-01	15:14	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
P24812SVF	24812 PANAMA AVE	2013-05-01	15:34	Front	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.8	< 42	< 6
P24813SVH	24813 PANAMA AVE	2010-10-26	09:15	House	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
P24813SVB	24813 PANAMA AVE	2010-10-26	10:54	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
P24813SVFA	24813 PANAMA AVE	2010-11-23	10:00	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24813SVFAS	24813 PANAMA AVE	2010-11-23	10:00	Front	< 3.3	< 1.7	< 3.3		2.7	< 1.7				< 1.7	< 1.7	< 3.3	2.3	1.8	< 1.7
P24813SVH	24813 PANAMA AVE	2012-08-23	10:00	House	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
P24813SVFA	24813 PANAMA AVE	2012-08-23	10:06	Front	14	< 4.3	< 5.2	1100 j	< 5.9	< 5	570 j	< 170	< 78	7.8	< 5.9	5.3	< 6.8	< 42	< 5.9
P24813SVFAD	24813 PANAMA AVE	2012-08-23	10:06	Front	< 12	< 4.3	< 5.2	120 j	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
P24813SVB	24813 PANAMA AVE	2012-08-23	10:28	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
P24813SVB	24813 PANAMA AVE	2013-06-04	10:00	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
P24813SVBS	24813 PANAMA AVE	2013-06-04	10:00	Back	< 20 U	< 2 U	< 4 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4 U	< 2 U	3.2	< 2 U
P24813SVH	24813 PANAMA AVE	2013-06-04	10:08	House	< 11	< 3.8	< 4.7	< 89	< 5.4	< 4.5	< 130	< 150	< 70	< 4.7	< 5.4	< 3.8	< 6.1	< 38	< 5.4
P24813SVFA	24813 PANAMA AVE	2013-06-04	10:32	Front	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 40	< 5.6
P24813SVFAS	24813 PANAMA AVE	2013-06-04	10:32	Front	< 19 U	< 1.9 U	< 3.9 U		< 1.9 U	< 1.9 U				< 1.9 U	< 1.9 U	< 3.9 U	< 1.9 U	4	< 1.9 U
N24815SVB	24815 NEPTUNE AVE	2009-09-17	14:43	Back	< 6.8	< 2.4	< 3	< 110 N,J	< 3.4	< 2.8	< 150 N,J	< 180 N,J,UJ	< 84 N,J	< 3	< 3.4	< 2.4	< 3.9	< 2.4	< 3.4
N24815SVF	24815 NEPTUNE AVE	2009-09-17	15:57	Front	< 12	< 4.3	< 5.3	< 100 N,J	< 6	< 5	< 140 N,J	< 170 N,J,UJ	< 80 N,J	< 5.3	< 6	< 4.2	< 6.9	< 4.3	< 6
N24815SVH	24815 NEPTUNE AVE	2010-08-13	10:09	House	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
N24815SVF	24815 NEPTUNE AVE	2010-08-13	10:54	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24815SVB	24815 NEPTUNE AVE	2010-08-13	11:59	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24815SVH	24815 NEPTUNE AVE	2012-03-29	09:58	House	< 7.7	< 2.8	< 3.4	< 64	< 3.8	< 3.2	< 91	< 110	< 51	< 3.4	< 3.8	< 2.7	< 4.4	< 27	< 3.8
N24815SVHS	24815 NEPTUNE AVE	2012-03-29	09:58	House	< 3.5 U	< 1.7 U	< 3.5 U		< 1.7 U	< 1.7 U				< 1.7 U	< 1.7 U	< 3.5 U	< 1.7 U	< 1.7 U	< 1.7 U
N24815SVB	24815 NEPTUNE AVE	2012-03-29	10:25	Back	< 7.5	< 2.7	< 3.3	< 62	< 3.7	< 3.1	< 88	< 100	< 49	< 3.3	< 3.7	< 2.6	< 4.3	< 26	< 3.7
N24815SVF	24815 NEPTUNE AVE	2012-03-29	10:37	Front	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
P24818SVH	24818 PANAMA AVE	2010-11-12	10:21	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24818SVHS	24818 PANAMA AVE	2010-11-12	10:21	House	< 3.4	< 1.7	< 3.4		< 1.7	< 1.7				< 1.7	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7
P24818SVF	24818 PANAMA AVE	2010-11-12	11:06	Front	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24818SVFD	24818 PANAMA AVE	2010-11-12	11:06	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
P24818SVF	24818 PANAMA AVE	2012-06-08	10:25	Front	< 8.1	< 2.9	< 3.6	< 67	< 4	< 3.4	< 95	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 28	< 4
P24818SVFS	24818 PANAMA AVE	2012-06-08	10:25	Front	< 3.5 U	< 1.7 U	< 3.5 U		< 1.7 U	< 1.7 U				< 1.7 U	< 1.7 U	< 3.5 U	< 1.7 U	< 1.7 U	< 1.7 U
P24818SVH	24818 PANAMA AVE	2012-06-08	10:30	House	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
P24818SVBA	24818 PANAMA AVE	2012-06-08	11:02	Back	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 27	< 3.9
P24818SVBAS	24818 PANAMA AVE	2012-06-08	11:02	Back	< 3.5 U	< 1.7 U	< 3.5 U		< 1.7 U	< 1.7 U				< 1.7 U	< 1.7 U	< 3.5 U	< 1.7 U	< 1.7 U	< 1.7 U
P24818SVBA	24818 PANAMA AVE	2013-03-29	15:42	Back	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 40	< 5.6
P24818SVFA	24818 PANAMA AVE	2013-04-02	15:37	Front	< 11	< 4	< 5	< 93	< 5.6	< 4.7	230	< 160	< 74 PF	< 4.9	< 5.6	< 3.9	< 6.4	< 40	< 5.6
P24818SVHA	24818 PANAMA AVE	2013-04-02	15:40	House	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78 PF	< 5.2	< 5.9	4.5	< 6.7	< 42	< 5.9

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
				Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
				Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
P24819SVH	24819 PANAMA AVE	2010-06-10	09:16	House	13	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24819SVB	24819 PANAMA AVE	2010-06-10	11:10	Back	< 11	< 3.9	< 4.9	< 92 N,J	< 5.5	< 4.6	< 130 N,J	< 160 N,J	< 72 N,J	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
P24819SVF	24819 PANAMA AVE	2010-06-10	11:17	Front	< 11	< 4	5.4	< 93 N,J	15	< 4.6	< 130 N,J	1400 N,J	< 73 N,J	< 4.9	< 5.6	< 3.9	< 6.3	< 3.9	10
P24819SVF	24819 PANAMA AVE	2011-04-21	11:16	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24819SVFS	24819 PANAMA AVE	2011-04-21	11:16	Front	< 4	< 2	< 4		< 2	< 2				< 2	< 2	< 4	< 2	< 2	< 2
P24819SVH	24819 PANAMA AVE	2011-04-21	12:22	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24819SVHS	24819 PANAMA AVE	2011-04-21	12:22	House	< 2.9	< 1.4	< 2.9		< 1.4	< 1.4				< 1.4	< 1.4	< 2.9	< 1.4	< 1.4	< 1.4
P24819SVB	24819 PANAMA AVE	2011-04-21	12:31	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24819SVBS	24819 PANAMA AVE	2011-04-21	12:31	Back	< 3.5	< 1.7	< 3.5		< 1.7	< 1.7				< 1.7	< 1.7	< 3.5	< 1.7	< 1.7	< 1.7
P24819SVB	24819 PANAMA AVE	2013-08-22	14:46	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
P24819SVH	24819 PANAMA AVE	2013-08-22	15:07	House	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
P24819SVF	24819 PANAMA AVE	2013-08-22	15:22	Front	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
P24822SVH	24822 PANAMA AVE	2010-06-23	09:06	House	< 11	6.3	5.4	< 95 N,J	< 5.7	5.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24822SVB	24822 PANAMA AVE	2010-06-23	09:51	Back	< 12	< 4.2	< 5.2	< 98 N,J	< 5.8	< 4.9	< 140 N,J	< 160 N,J	< 77 N,J	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
P24822SVF	24822 PANAMA AVE	2010-06-23	10:32	Front	< 11	< 3.9	< 4.8	< 90 N,J	< 5.4	< 4.5	440 N,J	< 150 N,J	< 71 N,J	< 4.8	< 5.4	< 3.8	< 6.2	< 3.8	< 5.4
P24822SVH	24822 PANAMA AVE	2013-06-20	10:29	House	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80 PF	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
P24822SVF	24822 PANAMA AVE	2013-06-20	10:35	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75 PF	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
P24822SVFD	24822 PANAMA AVE	2013-06-20	10:35	Front	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76 PF	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
P24822SVB	24822 PANAMA AVE	2013-06-21	08:41	Back	< 12	< 4.4	< 5.4	< 100	< 6.2	< 5.1	< 150	< 170	< 81 PF	< 5.4	< 6.2	< 4.3	< 7	< 44	< 6.2
P24828SVH	24828 PANAMA AVE	2011-10-27	08:46	House	< 7.6	< 2.7	< 3.4	< 64	< 3.8	< 3.2	< 90	< 110	< 50	< 3.4	< 3.8	< 2.7	< 4.4	< 2.7	< 3.8
P24828SVB	24828 PANAMA AVE	2011-10-27	09:21	Back	< 7.2	< 2.6	< 3.2	< 60	< 3.6	< 3	< 85	< 100	< 47	< 3.2	< 3.6	< 2.5	< 4.1	< 2.5	< 3.6
P24828SVBS	24828 PANAMA AVE	2011-10-27	09:21	Back	< 3.3 U	< 1.6 U	< 3.3 U		< 1.6 U	< 1.6 U				< 1.6 U	< 1.6 U	< 3.3 U	< 1.6 U	< 1.6 U	< 1.6 U
P24828SVF	24828 PANAMA AVE	2011-10-27	10:03	Front	< 7.8	< 2.8	< 3.4	< 65	< 3.9	< 3.2	< 92	< 110	< 51	< 3.4	< 3.9	< 2.7	< 4.4	< 2.7	< 3.9
P24828SVB	24828 PANAMA AVE	2012-09-13	10:20	Back	< 12	8.7 j	< 5.2	< 98	< 5.8	19 j	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
P24828SVBS	24828 PANAMA AVE	2012-09-13	10:20	Back	< 20 U	< 2 U	< 3.9 U		< 2 U	< 2 U				< 2 U	< 2 U	< 3.9 U	< 2 U	< 2 U	< 2 U
P24828SVH	24828 PANAMA AVE	2012-09-13	10:24	House	< 11	< 3.8	< 4.7	< 88	< 5.3	< 4.4	< 120	< 150	< 70	< 4.7	< 5.3	< 3.7	< 6.1	< 38	< 5.3
P24828SVF	24828 PANAMA AVE	2012-09-13	10:51	Front	< 11	6.9	< 5	< 94	< 5.6	5.5	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
P24828SVB	24828 PANAMA AVE	2013-04-16	14:53	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
P24828SVH	24828 PANAMA AVE	2013-04-16	15:01	House	< 12	< 4.5	< 5.6	< 100	< 6.3	< 5.2	< 150	< 180	< 83	< 5.6	< 6.3	< 4.4	< 7.2	< 44	< 6.3
P24828SVF	24828 PANAMA AVE	2013-04-16	15:21	Front	< 12	< 4.5	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.4	< 7.1	< 44	< 6.2
P24829SVH	24829 PANAMA AVE	2010-05-21	09:17	House	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
P24829SVP	24829 PANAMA AVE	2010-05-21	10:31	Back Patio	< 11	< 3.9	< 4.9	< 92 N,J	< 5.5	< 4.6	< 130 N,J	< 160 N,J	< 72 N,J	< 4.9	9.3	< 3.8	< 6.3	9.3	< 5.5
P24829SVPS	24829 PANAMA AVE	2010-05-21	10:31	Back Patio	< 3.3	< 1.7	< 3.3		< 1.7	< 1.7				< 1.7	2.1	< 3.3	< 1.7	< 1.7	< 1.7
P24829SVF	24829 PANAMA AVE	2010-05-21	11:21	Front	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
P24829SVH	24829 PANAMA AVE	2010-09-13	08:53	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24829SVF	24829 PANAMA AVE	2010-09-13	09:52	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
P24829SVFS	24829 PANAMA AVE	2010-09-13	09:52	Front	< 3.5	< 1.7	< 3.5		< 1.7	< 1.7				< 1.7	< 1.7	< 3.5	< 1.7	< 1.7	< 1.7
P24829SVB	24829 PANAMA AVE	2010-09-13	10:42	Back Patio	< 11	< 4.1	< 5	6400	< 5.7	< 4.8	2100	480	340	9.8	16	< 4	< 6.5	< 4	< 5.7
P24829SVBS	24829 PANAMA AVE	2010-09-13	10:42	Back Patio	< 3.4	< 1.7	< 3.4		< 1.7	< 1.7				< 1.7	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7
P24829SVH	24829 PANAMA AVE	2013-05-09	10:16	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160 PF	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
P24829SVF	24829 PANAMA AVE	2013-05-09	10:26	Front	< 12	< 4.5	< 5.5	< 100	< 6.3	< 5.2	< 150	< 180 PF	< 82	< 5.5	< 6.3	< 4.4	< 7.2	< 44	< 6.3
P24829SVFD	24829 PANAMA AVE	2013-05-09	10:26	Front	< 12	< 4.5	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180 PF	< 82	< 5.5	< 6.2	< 4.4	< 7.1	< 44	< 6.2
P24832SVG	24832 PANAMA AVE	2010-10-06	09:38	Garage	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24832SVB	24832 PANAMA AVE	2010-10-06	10:13	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.7	< 130	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24832SVH	24832 PANAMA AVE	2010-10-06	10:56	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24832SVB	24832 PANAMA AVE	2012-09-28	15:01	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
P24832SVG	24832 PANAMA AVE	2012-09-28	15:21	Garage	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
P24832SVH	24832 PANAMA AVE	2012-09-28	16:10	House	< 11	4.3	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
P24832SVH	24832 PANAMA AVE	2013-05-16	14:55	House	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79 PF	< 5.3	< 6	< 4.2	< 6.9	< 42	< 6
P24832SVB	24832 PANAMA AVE	2013-05-16	15:04	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78 PF	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
P24832SVBD	24832 PANAMA AVE	2013-05-16	15:04	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79 PF	< 5.3	< 6	< 4.2	< 6.8	< 42	< 6
P24832SVG	24832 PANAMA AVE	2013-05-16	15:28	Garage	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73 PF	< 4.9	< 5.6	< 3.9	< 6.4	< 39	< 5.6

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

				Analyte	Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
				Units	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
				Frequency of Detection	4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
P24833SVH	24833 PANAMA AVE	2010-10-14	09:36	House	29	14	< 4.5	330	< 5.1	14	1400	330	260	< 4.5	< 5.1	< 3.6	< 5.9	< 3.6	< 5.1
P24833SVF	24833 PANAMA AVE	2010-10-14	10:20	Front	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 77	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
P24833SVB	24833 PANAMA AVE	2010-10-14	11:06	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
P24833 SVB	24833 PANAMA AVE	2012-11-29	14:47	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
P24833 SVH	24833 PANAMA AVE	2012-11-29	14:49	House	< 11	< 3.9	< 4.8	< 90	< 5.4	< 4.5	< 130	< 150	< 71	< 4.8	< 5.4	< 3.8	< 6.2	< 38	< 5.4
P24833 SVF	24833 PANAMA AVE	2012-11-29	15:19	Front	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 44	< 6.2
P24833SVH	24833 PANAMA AVE	2013-05-09	14:46	House	12	< 4.1	< 5	< 95	< 5.7	12	< 130	< 160	< 75 PF	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
P24833SVB	24833 PANAMA AVE	2013-05-09	14:51	Back	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 77 PF	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
P24833SVF	24833 PANAMA AVE	2013-05-09	15:15	Front	< 70	< 25	< 31	< 580	< 35	< 29	< 830	< 990	< 460 PF	< 31	< 35	< 24	< 40	< 250	< 35
P24838SVB2	24838 PANAMA AVE	2009-09-22	14:17	Back	< 13	< 4.5	< 5.6	< 100 N,J	< 6.3	< 5.3	< 150 N,J	< 180 UJ,N,J	< 83 N,J	< 5.6	8	< 4.4	< 7.2	< 4.5	< 6.3
P24838SVF	24838 PANAMA AVE	2009-09-22	14:54	Front	< 12	< 4.5	< 5.5	< 100 N,J	< 6.3	< 5.2	< 150 N,J	< 180 UJ,N,J	< 82 N,J	< 5.5	< 6.3	< 4.4	< 7.2	< 4.4	< 6.3
P24838SVH	24838 PANAMA AVE	2010-06-01	09:00	House	< 12	< 4.1	5.4	< 96 N,J	9.3	< 4.8	< 140 N,J	< 160 N,J	< 76 N,J	< 5.1	< 5.8	< 4	< 6.6	< 4.1	5.8
P24838SVF	24838 PANAMA AVE	2010-06-01	10:36	Front	110	< 4	< 5	< 93 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 4.9	< 5.6	< 3.9	< 6.4	< 4	< 5.6
P24838SVB3	24838 PANAMA AVE	2010-09-08	08:55	Back	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
P24838SVB3	24838 PANAMA AVE	2013-05-08	10:40	Back	< 13	< 4.7	< 5.8	< 110	< 6.5	< 5.4	< 150	< 180	< 86 PF	< 5.8	< 6.5	< 4.6	< 7.4	< 46	< 6.5
P24838SVH	24838 PANAMA AVE	2013-05-08	10:45	House	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79 PF	< 5.3	< 6	< 4.2	< 6.9	< 42	< 6
P24838SVF	24838 PANAMA AVE	2013-05-08	11:08	Front	< 12	< 4.2	< 5.2	< 98	< 5.9	< 4.9	< 140	< 170	< 78 PF	< 5.2	< 5.9	< 4.1	< 6.7	< 42	< 5.9
P24838SVFD	24838 PANAMA AVE	2013-05-08	11:08	Front	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76 PF	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
N24904SVH	24904 NEPTUNE AVE	2010-07-16	13:01	House	< 13	< 4.6	< 5.7	< 110 N,J	< 6.5	< 5.4	< 150 N,J	< 180 N,J	< 85 N,J	< 5.7	< 6.5	< 4.5	< 7.4	< 4.6	< 6.5
N24904SVG	24904 NEPTUNE AVE	2010-07-16	13:35	Garage	< 13	< 4.5	< 5.6	< 100 N,J	< 6.3	< 5.3	< 150 N,J	< 180 N,J	< 84 N,J	< 5.6	< 6.3	< 4.4	< 7.2	< 4.5	< 6.3
N24904SVB	24904 NEPTUNE AVE	2010-07-16	14:11	Back	< 11	< 4.1	< 5	< 190 N,J	< 5.7	< 4.8	< 270 N,J	< 320 N,J	< 150 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
N24904SVG	24904 NEPTUNE AVE	2012-09-14	16:04	Garage	< 12	7.5 j	< 5.2	< 99	< 5.9	14 j	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
N24904SVGD	24904 NEPTUNE AVE	2012-09-14	16:04	Garage	26	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
N24904SVH	24904 NEPTUNE AVE	2012-09-14	16:15	House	56	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
N24904SVB	24904 NEPTUNE AVE	2012-09-14	16:39	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
N24904SVB	24904 NEPTUNE AVE	2013-06-18	09:52	Back	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79 PF	< 5.3	< 6	< 4.2	< 6.8	< 42	< 6
N24904SVBS	24904 NEPTUNE AVE	2013-06-18	09:52	Back	< 21 U	< 2.1 U	< 4.2 U		< 2.1 U	< 2.1 U				< 2.1 U	< 2.1 U	< 4.2 U	< 2.1 U	< 2.1 U	< 2.1 U
N24904SVH	24904 NEPTUNE AVE	2013-06-18	10:06	House	< 11	< 3.9	< 4.8	< 91	< 5.5	< 4.6	< 130	< 160	< 72 PF	< 4.8	< 5.5	< 3.8	< 6.3	< 39	< 5.5
N24904SVG	24904 NEPTUNE AVE	2013-06-18	10:33	Garage	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78 PF	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
N24904SVGS	24904 NEPTUNE AVE	2013-06-18	10:33	Garage	< 20 U	< 2 U	< 4.1 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4.1 U	< 2 U	< 2 U	< 2 U
N24912SVB	24912 NEPTUNE AVE	2009-09-30	13:15	Back	< 12	< 4.3	< 5.3	< 100 N,J	< 6	< 5	< 140 N,J	< 170 UJ,N,J	< 79 N,J	< 5.3	< 6	< 4.2	< 6.8	< 4.2	< 6
N24912SVF	24912 NEPTUNE AVE	2009-09-30	13:55	Front	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 UJ,N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
N24912SVH	24912 NEPTUNE AVE	2010-06-14	09:58	House	< 12	< 4.1	< 5.1	< 96 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 76 N,J	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
N24912SVB	24912 NEPTUNE AVE	2010-06-14	10:48	Back	< 13	9	43	1200 N,J	130	44	440 N,J	< 180 N,J	< 83 N,J	110	28	9.2	< 7.2	< 4.5	37
N24912SVF	24912 NEPTUNE AVE	2010-06-14	11:36	Front	< 12	< 4.3	< 5.3	< 100 N,J	< 6	< 5	< 140 N,J	< 170 N,J	< 79 N,J	< 5.3	9.2	< 4.2	< 6.8	< 4.2	< 6
N24912SVH	24912 NEPTUNE AVE	2012-03-16	15:11	House	< 9.6	< 3.4	< 4.2	< 80	< 4.8	< 4	< 110	< 140	< 63	< 4.2	< 4.8	< 3.4	< 5.5	< 34	< 4.8
N24912SVF	24912 NEPTUNE AVE	2012-03-16	15:32	Front	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
N24912SVFD	24912 NEPTUNE AVE	2012-03-16	15:32	Front	< 7.9	< 2.8	< 3.5	< 66	< 4	< 3.3	< 94	< 110	< 52	< 3.5	< 4	< 2.8	< 4.5	< 28	< 4
N24912SVB	24912 NEPTUNE AVE	2012-03-16	16:13	Back	11	< 2.9	< 3.6	< 67	< 4	< 3.4	< 95	< 110	< 53	< 3.6	< 4	< 2.8	< 4.6	< 28	< 4
244301SVH	301 244TH ST	2010-10-18	09:35	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
244301SVF	301 244TH ST	2010-10-18	10:08	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
244301SVB	301 244TH ST	2010-10-18	10:51	Back	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
244301SVH	301 244TH ST	2013-01-31	09:50	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
244301SVB	301 244TH ST	2013-01-31	10:06	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
244301SVF	301 244TH ST	2013-01-31	10:19	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
244301SVFD	301 244TH ST	2013-01-31	10:19	Front	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
244301SVH	301 244TH ST	2013-06-26	10:17	House	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 40	< 5.6
244301SVF	301 244TH ST	2013-06-26	10:40	Front	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 40	< 5.6
244301SVB	301 244TH ST	2013-06-26	10:44	Back	< 13	< 4.6	< 5.7	< 110	< 6.4	< 5.3	< 150	< 180	< 84	< 5.7	< 6.4	< 4.5	< 7.3	< 45	< 6.4
244301SVBD	301 244TH ST	2013-06-26	10:44	Back	< 12	< 4.4	< 5.5	< 100	< 6.2	< 5.2	< 150	< 180	< 82	< 5.5	< 6.2	< 4.3	< 7.1	< 44	< 6.2
244305SVH	305 244TH ST	2010-07-01	14:36	House	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
244305SVG	305 244TH ST	2010-07-01	15:23	Garage	< 12	< 4.2	< 5.2	< 98 N,J	< 5.8	< 4.9	< 140 N,J	< 160 N,J	< 77 N,J	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8

Table B-2
Sub-Slab Soil Vapor Results
Former Kast Property
Carson, California

					Isopropanol	Hexane	p/m-Xylene	C6-C8 Aliphatics	1,2,4-Trimethyl-benzene	Heptane	C8-C10 Aliphatics	C10-C12 Aliphatics	C5-C6 Aliphatics	Ethyl-benzene	Cumene (Isopropyl-benzene)	Cyclohexane	Freon 11	Methylene Chloride	4-Ethyltoluene
Analyte																			
Units					UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3	UG/M3
Frequency of Detection					4.47%	3.74%	3.12%	2.72%	2.63%	2.63%	2.54%	2.01%	2.01%	1.97%	1.89%	1.89%	1.72%	1.72%	1.60%
Sample ID	**Address**	**Sample Date**	**Sample Time**	**Location**															
244305SVB	305 244TH ST	2010-07-01	16:06	Back	< 12	< 4.4	< 5.5	< 100 N,J	< 6.2	< 5.2	< 150 N,J	< 180 N,J	< 82 N,J	< 5.5	< 6.2	< 4.4	< 7.1	< 4.4	< 6.2
244305SVH	305 244TH ST	2012-10-18	14:50	House	< 12	7.8	< 5.2	< 98	< 5.8	4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
244305SVG	305 244TH ST	2012-10-18	15:00	Garage	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
244305SVB	305 244TH ST	2012-10-22	12:54	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
244305SVG	305 244TH ST	2013-04-24	15:14	Garage	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76 PF	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
244305SVH	305 244TH ST	2013-04-24	15:14	House	< 12	< 4.5	< 5.6	< 100	< 6.3	< 5.2	< 150	< 180	< 83 PF	< 5.6	< 6.3	< 4.4	< 7.2	< 44	< 6.3
244305SVHD	305 244TH ST	2013-04-24	15:14	House	< 12	< 4.5	< 5.6	< 100	< 6.3	< 5.2	< 150	< 180	< 83 PF	< 5.6	< 6.3	< 4.4	< 7.2	< 44	< 6.3
244305SVB	305 244TH ST	2013-04-24	15:58	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74 PF	< 5	< 5.6	< 3.9	< 6.4	< 40	< 5.6
244317SVH	317 244TH ST	2011-01-24	09:07	House	< 11	< 4	< 5	< 93	< 5.6	< 4.7	< 130	< 160	< 74	< 4.9	< 5.6	< 3.9	< 6.4	< 4	< 5.6
244317SVG	317 244TH ST	2011-01-24	09:51	Garage	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.3	< 3.9	< 5.6
244317SVB	317 244TH ST	2011-01-24	10:27	Back	< 46	< 16	< 20	< 380	< 23	< 19	< 540	< 650	< 300	< 20	< 23	< 16	< 26	23	< 23
244317SVB	317 244TH ST	2011-03-24	15:44	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 4.1	< 5.8
244317SVBS	317 244TH ST	2011-03-24	15:44	Back	< 3.5	< 1.8	< 3.5		< 1.8	< 1.8				< 1.8	< 1.8	< 3.5	< 1.8	< 1.8	< 1.8
244317SVG	317 244TH ST	2011-03-24	15:58	Garage	< 11	< 3.9	< 4.9	< 92	< 5.5	< 4.6	< 130	< 160	< 72	< 4.9	< 5.5	< 3.8	< 6.3	< 3.9	< 5.5
244317SVH	317 244TH ST	2011-03-24	16:33	House	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
244321SVH	321 244TH ST	2010-11-18	08:54	House	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 4.1	< 5.8
244321SVB	321 244TH ST	2010-11-18	09:36	Back	< 11	< 3.8	< 4.7	< 88	< 5.3	< 4.4	< 120	< 150	< 70	< 4.7	< 5.3	< 3.7	< 6.1	< 3.8	< 5.3
244321SVBD	321 244TH ST	2010-11-18	09:36	Back	< 10	< 3.8	< 4.6	< 87	< 5.2	< 4.4	< 120	< 150	< 69	< 4.6	< 5.2	< 3.7	< 6	< 3.7	< 5.2
244321SVF	321 244TH ST	2010-11-18	10:13	Front	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
244321SVB	321 244TH ST	2013-03-22	09:59	Back	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.4	< 39	< 5.6
244321SVBS	321 244TH ST	2013-03-22	09:59	Back	< 19 U	< 1.9 U	< 3.7 U		< 1.9 U	< 1.9 U				< 1.9 U	< 1.9 U	< 3.7 U	< 1.9 U	< 1.9 U	< 1.9 U
244321SVH	321 244TH ST	2013-03-22	09:59	House	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.9	< 42	< 6
244321SVF	321 244TH ST	2013-03-22	10:33	Front	< 12	< 4.3	< 5.3	< 100	< 6	< 5	< 140	< 170	< 79	< 5.3	< 6	< 4.2	< 6.9	< 42	< 6
244321SVFS	321 244TH ST	2013-03-22	10:33	Front	< 20 U	< 2 U	< 4.1 U		< 2 U	< 2 U				< 2 U	< 2 U	< 4.1 U	< 2 U	< 2 U	< 2 U
244321SVH	321 244TH ST	2013-08-02	09:31	House	< 10	< 3.7	< 4.6	< 87	< 5.2	< 4.3	< 120	< 150	< 69	< 4.6	< 5.2	< 3.6	< 6	< 37	< 5.2
244321SVB	321 244TH ST	2013-08-02	09:47	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
244321SVBS	321 244TH ST	2013-08-02	09:47	Back	< 21 U	< 2.1 U	< 4.1 U		< 2.1 U	< 2.1 U				< 2.1 U	< 2.1 U	< 4.1 U	< 2.1 U	< 2.1 U	< 2.1 U
244321SVF	321 244TH ST	2013-08-02	09:58	Front	< 12	< 4.1	< 5.1	< 96	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4	< 6.6	< 41	< 5.8
244327SVH	327 244TH ST	2010-05-05	13:40	House	< 12	< 4.2	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
244327SVG	327 244TH ST	2010-05-05	15:51	Garage	< 12	< 4.3	< 5.2	< 99 N,J	< 5.9	< 5	< 140 N,J	< 170 N,J	< 78 N,J	< 5.2	< 5.9	< 4.2	< 6.8	< 4.2	< 5.9
244327SVB	327 244TH ST	2010-05-05	16:39	Back	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7
244327SVB	327 244TH ST	2013-02-14	10:05	Back	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
244327SVBD	327 244TH ST	2013-02-14	10:05	Back	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
244327SVH	327 244TH ST	2013-02-14	10:12	House	< 12	< 4.2	< 5.2	< 98	< 5.8	< 4.9	< 140	< 160	< 77	< 5.2	< 5.8	< 4.1	< 6.7	< 41	< 5.8
244327SVG	327 244TH ST	2013-02-14	10:39	Garage	< 12	< 4.3	< 5.2	< 99	< 5.9	< 5	< 140	< 170	< 78	< 5.2	< 5.9	< 4.2	< 6.8	< 42	< 5.9
244327SVB	327 244TH ST	2013-07-31	09:53	Back	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.4	< 39	< 5.6
244327SVBD	327 244TH ST	2013-07-31	09:53	Back	< 11	< 4	< 4.9	< 93	< 5.6	< 4.6	< 130	< 160	< 73	< 4.9	< 5.6	< 3.9	< 6.3	< 39	< 5.6
244327SVH	327 244TH ST	2013-07-31	10:02	House	< 12	< 4.2	< 5.2	< 99	< 5.9	< 4.9	< 140	< 170	< 78	< 5.2	< 5.9	< 4.1	< 6.8	< 42	< 5.9
244327SVG	327 244TH ST	2013-07-31	10:24	Garage	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
244331SVH	331 244TH ST	2010-08-04	13:23	House	< 12	< 4.2	< 5.2	< 98 N,J	< 5.9	< 4.9	< 140 N,J	< 170 N,J	< 77 N,J	< 5.2	< 5.9	< 4.1	< 6.7	< 4.2	< 5.9
244331SVG	331 244TH ST	2010-08-04	14:04	Garage	< 12	< 4.1	< 5.1	< 96 N,J	< 5.8	< 4.8	< 140 N,J	320 N,J	< 76 N,J	< 5.1	15	< 4	< 6.6	< 4.1	< 5.8
244331SVB	331 244TH ST	2010-08-04	14:40	Back	< 12	< 4.2	< 5.1	< 97 N,J	< 5.8	< 4.8	< 140 N,J	< 160 N,J	< 77 N,J	< 5.1	< 5.8	< 4.1	< 6.6	< 4.1	< 5.8
244331SVH	331 244TH ST	2012-08-30	15:14	House	14	5.1	< 4.7	< 88	< 5.3	< 4.4	< 120	< 150	< 70	< 4.7	< 5.3	< 3.7	< 6.1	< 38	< 5.3
244331SVG	331 244TH ST	2012-08-30	15:50	Garage	14	13	< 5.6	< 100	< 6.3	8.6	< 150	< 180	< 84	< 5.6	< 6.3	< 4.4	< 7.2	< 45	< 6.3
244331SVB	331 244TH ST	2012-08-30	16:39	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
244331SVBD	331 244TH ST	2012-08-30	16:39	Back	< 12	< 4.4	< 5.4	< 100	< 6.1	< 5.1	< 140	< 170	< 80	< 5.4	< 6.1	< 4.2	< 6.9	< 43	< 6.1
244331SVH	331 244TH ST	2013-05-01	10:25	House	< 12	< 4.2	< 5.1	< 97	< 5.8	< 4.8	< 140	< 160	< 76	< 5.1	< 5.8	< 4.1	< 6.6	< 41	< 5.8
244331SVG	331 244TH ST	2013-05-01	10:52	Garage	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
244331SVB	331 244TH ST	2013-05-01	11:14	Back	< 11	< 4	< 5	< 94	< 5.6	< 4.7	< 130	< 160	< 74	< 5	< 5.6	< 4	< 6.5	< 40	< 5.6
244331SVBD	331 244TH ST	2013-05-01	11:14	Back	< 11	< 4.1	< 5	< 95	< 5.7	< 4.8	< 140	< 160	< 75	< 5	< 5.7	< 4	< 6.5	< 40	< 5.7
244337SVH	337 244TH ST	2010-08-16	14:11	House	< 11	< 4	< 5	< 94 N,J	< 5.6	< 4.7	< 130 N,J	< 160 N,J	< 74 N,J	< 5	< 5.6	< 3.9	< 6.4	< 4	< 5.6
244337SVF	337 244TH ST	2010-08-16	14:49	Front	< 11	< 4.1	< 5	< 95 N,J	< 5.7	< 4.8	< 140 N,J	< 160 N,J	< 75 N,J	< 5	< 5.7	< 4	< 6.5	< 4	< 5.7