

MEARNS CONSULTING LLC

ENVIRONMENTAL CONSULTANTS

RISK ASSESSORS

738 Ashland Avenue, Santa Monica, California 90405

Cell 310.403.1921

Tel 310.396.9606 Fax 310.396.6878

Mearns.Consulting@verizon.net

www.MearnsConsulting.com

**Phase II Environmental Site Assessment
Former AmeriGas Site
2851 Orange Avenue
Long Beach, California 90806**

March 10, 2017

Prepared for:

**Signal Hill Petroleum, Inc.
2633 Cherry Avenue
Signal Hill, California 90755**

Prepared by:

**Mearns Consulting LLC
738 Ashland Avenue
Santa Monica, California 90405**

MEARNS CONSULTING LLC

ENVIRONMENTAL CONSULTANTS

RISK ASSESSORS

738 Ashland Avenue, Santa Monica, California 90405

Cell 310.403.1921

Tel 310.396.9606 Fax 310.396.6878

Mearns.Consulting@verizon.net

www.MearnsConsulting.com

March 10, 2017

via email

Mr. Kevin Laney
Vice President of Business Development
Signal Hill Petroleum, Inc.
2633 Cherry Avenue
Signal Hill, California 90755

RE: **Phase II Environmental Site Assessment
Former AmeriGas Site, 2851 Orange Avenue, Long Beach, California 90806**

Dear Mr. Laney:

I am pleased to present for your review this Phase II Environmental Site Assessment for the property located at 2851 Orange Avenue, Long Beach, California 90806 (the site), Figure 1, pursuant to your authorization.

Site Background

The irregularly shaped 7.74-acre site is located at the southwest corner of the intersection of Orange Avenue and Spring Street in Long Beach, California and is zoned for medium industrial use. The Los Angeles County Tax Assessor ID Number for the property is 7212-009-021.

The site was owned by the City of Long Beach (CLB) prior to the 1920s and reportedly was used by the CLB Department of Water. A natural gas processing and compression plant operated onsite from the 1920s through 2000, the plant was not operating from 2000-2007 but was permitted by the South Coast Air Quality Management Board as an emergency backup natural gas compressor plant for an off-site, modern, gas compression facility operated by Signal Hill Petroleum, Inc. (SHPI) located across Orange Avenue to the east.

The plant separated natural gasoline and natural gas from oil-field wet gas, refined natural gas, and compressed the refined natural gas for pipeline delivery. Refined products produced at the site included raw natural gasoline, butane, propane, and pipeline-quality natural gas (EPI 2012).

The site has been owned and/or operated by numerous entities including AmeriGas Partners, L.P. formed when UGI Corporation and AmeriGas acquired Petrolane Inc. in April 1995. SHPI leased the site from PetroLane, Inc. and operated the plant from 1994 through 2000. PetroLane-Lomita Gasoline Company operated the gas plant prior to 1994 (ESE 1993).

The plant capacity was 14 million cubic feet of natural gas per day (California State Department of Conservation, Division of Oil, Gas and Geothermal Resources 1991). The plant was originally constructed as a lean oil plant, and later downsized and converted to a refrigeration plant (ESE 1993).

Based on historical aerial photographs, a former swale or stream channel in the western portion of the parcel was utilized as a sump for collection of fluids and material from surrounding oil field exploration/production activities from the 1920s to the 1950s. The channel was filled with soil and debris (Dames & Moore 1988).

Petroleum hydrocarbons constitute the primary materials used on the parcel. Low molecular weight hydrocarbons would be expected to have evaporated over time, but higher molecular weight hydrocarbons may persist in soil. Natural degradation under anaerobic conditions could produce methane and low molecular weight hydrocarbons in soil gas (QST 1998).

Previous Environmental Investigations

Final Report Preliminary Site Characterization Long Beach Auto Mall - Dames & Moore (1988) placed 25 borings, collected 11 surface soil samples and installed 14 soil vapor probes onsite during a site characterization study. Dames & Moore concluded the depth of fill material along the western portion of the site ranged from 17 to 33 feet below ground surface (bgs). The analytical results of the soil samples indicated total recoverable petroleum hydrocarbons (TrPH) and benzene, toluene, ethylbenzene and total xylenes (BTEX) in the fill material and adjacent to aboveground appurtenances. The field measurements of soil vapor indicated concentrations greater than 1,000 parts per million (ppm) and concentrations of methane up to 74 percent.

Site Characterization Report for the PetroLane-Lomita Property – ESE (1993) placed 27 soil borings and 21 soil vapor probes onsite during a site characterization study in 1992 and 1993. Soil borings were drilled to depths ranging from 9-feet to 95-feet bgs. The analytical results from ESE's study indicated soil impacted with TrPH, BTEX and the presence of soil gas including methane.

Human Health Risk Assessment Proposed Long Beach Sports Park - Mearns Consulting LLC (2003) collected over 50 soil samples from the site from depths of 1-ft, 5-ft and 10-ft bgs as part of the effort to collect over 300 soil samples from the 56-acre property proposed redevelopment project, the Long Beach Sports Park. Heavy end carbon chains and metals were detected in the soil samples at concentrations that exceeded preliminary remediation goals and the potential health risks posed by exposure to these constituents was assessed. The HHRA concluded the site was safe to redevelop as a sports park. The HHRA was reviewed and approved by the State of California Environmental Protection Agency, Office of Environmental Health Hazard Assessment (OEHHA 2005). The Los Angeles Regional Water Quality Control Board (LARWQCB) issued a No Further Action Letter for the entire 56-acre property in 2012.

Risk-Based PCB Remediation Report – EPI (2012)

Environmental Partners, Inc. was retained by AmeriGas Partners, L.P. in 2010 through 2012 to appropriately abate, dismantle, demolish and dispose the structures, appurtenances, piping, concrete and asphalt rubble and polychlorinated biphenyls (PCBs) impacted soils onsite under the oversight of the USEPA.

Assessment activities conducted by EPI indicated that the sources of PCBs at the subject property were the lubricating oils used from the 1930s until 2000 in three of the four air compressors formerly located at the plant. Assessment and characterization analytical data indicated that PCB-containing oil was used strictly in the compressed air system.

Remediation activities including verification sample collection and analysis followed procedures approved by USEPA (USEPA July 2011). A total of 265.77 tons of concrete with PCBs concentrations less than or equal to 50mg/kg were disposed in a Subtitle D permitted landfill in Lancaster, California. A total of 2,255.92 tons of soil with PCBs concentrations less than or equal to 50mg/kg were disposed at a Subtitle D permitted municipal solid waste landfill in Simi Valley, California. A total of 61.32 tons of soil with total PCB concentrations greater than 50mg/kg was disposed at the US Ecology TSCA-permitted landfill in Beatty, Nevada.

Following excavation, verification soil samples were collected and analytical results and/or exposure point concentrations derived from the sampling locations and analytical results were compared to the USEPA approved cleanup level of 0.22mg/kg. USEPA issued an approval letter of the PCB remediation in August 2012.

Methane Assessment – Mearns Consulting LLC (2017)

Mearns Consulting LLC performed a methane assessment onsite in February 2017. Methane concentrations were recorded in the field at 100%LEL (equivalent to 50,000ppm) in vapor probes installed at 5-feet, 10-feet and 20-feet bgs and were reported by a stationary laboratory at concentrations of 90,600ppmv and 90,900ppmv.

Phase II Environmental Site Assessment

Soil Matrix - Soil samples were collected at 5-feet and 10-feet bgs from 20 locations (Figure 2) in accordance with SW846. Six soil sample locations were placed in proposed footprints of Buildings 1 and 2, spaced approximately 100-feet apart depending upon site topographic and rig access; two soil sample locations were placed in the proposed footprint of Building 3; three soil samples were placed in the proposed footprint of Building 4 and two soil samples were placed inbetween Buildings 3 and 4 (Figure 2). A truck mounted direct push rig was used to collect the soil samples. The sampling system was appropriately cleaned between each borehole; Rinsate from cleaning was appropriately disposed. Soil was collected in brass sleeves with Teflon liners and end caps with minimal headspace. Forty soil samples were logged onto a chain-of-custody form and stored in a cooler at 4°C until delivered to Sierra Analytical Labs, Inc. (a State of California Department of Health Services [DOHS] ELAP accredited laboratory; ELAP No. 2320) for analysis of: (1) total threshold limit concentration (TTL) metals, including hexavalent chromium, via USEPA method 6010B/7471; (2) volatile organic compounds (VOCs) via USEPA method 8260B, collected via USEPA 5035B; (3) semivolatile organic compounds (SVOCs) via USEPA method 8270C and (4) total petroleum hydrocarbons – gasoline range (TPH-g) – diesel range (TPH-d) - oil range (TPH-o) via USEPA method 8015B and via MADEP methods for aromatic and aliphatic carbon chain speciation.

All drilling, logging and sampling activities were conducted by or under the direct supervision of a California-Professional Geologist, and in accordance with California Well Standards presented in the Department of Water Resources (DWR) Bulletins 74-81 and 74-90. The Site Geology and Hydrogeology section and boring logs were prepared by Mr. Scott R. Fagan, a State of California Professional Geologist PG #4289.

Site Geology and Hydrogeology

The site lies on the western flank of the Signal Hill uplift, along the Newport Inglewood Uplift associated with the Newport Inglewood Fault Zone (*Bulletin 104, DWR 1961, Groundwater Geology of the Coastal Plain of Los Angeles County*). Two major structures are found in very close proximity, they are the Long Beach Anticline and the Cherry Hill Fault.

Surface sediments consist of Pleistocene river terrace deposits (Qt) generally composed of sands silts and clays (California Geologic Society, Geologic Atlas of California Map No. 007, Charles W. Jennings, 1962). Groundwater was not encountered during sampling at depths of 10 feet below grade.

The site is transected roughly north to south along the western property boundary by a former stream channel. Undocumented fill ranging in thickness from 0 to 30 feet comprise the near-surface materials. Approximately 12,000 feet of nonmarine and marine sediments underlying the undocumented fill. These sediments unconformably overlie Catalina Schist basement bed-rock formation. Many of the stratigraphic units that contain aquifers in the vicinity of the site have been removed through uplift and erosion along the Newport-Inglewood fault zone. The aquifers present beneath the site in stratigraphic order include the Gage, Hollydale, Jefferson, Lynwood, Silverado, and Sunnyside. These aquifers, with the exception of the Gage, comprise the San Pedro Formation.

The aquifers are reported to be separated from one another by relatively impermeable, fine-grained sediments and are not in hydraulic communication with each other (*Bulletin 104, DWR 1961, Groundwater Geology of the Coastal Plain of Los Angeles County*).

The site is immediately underlain by the Bellflower Aquiclude which extends from ground surface to approximately 70 feet bgs. The aquiclude serves as a relatively impermeable barrier to the downward movement of water. The aquiclude is composed of clays, silts and fine sands and includes terrace deposits, the Palos Verdes Sand and a portion of the San Pedro

Formation (*Bulletin 104, DWR 1961, Groundwater Geology of the Coastal Plain of Los Angeles County*).

The Gage aquifer which underlies the Bellflower Aquiclude, occurs at a depth 70 to 100 feet beneath the site. Sediments within this aquifer are primarily fine to coarse sand with variable amounts of gravel. The thickness of the Gage aquifer beneath the Site is approximately 100 feet. Due to the poor quality of water found in the Gage, it is not used for municipal supply.

Analytical Results

Total Threshold Limit Concentration (TTLC) Metals – The following metals were detected in concentrations greater than their respective reporting limits: arsenic, barium, cadmium, cobalt, chromium, hexavalent chromium, copper, mercury, molybdenum, nickel, lead, antimony, thallium, vanadium and zinc, but less than their respective USEPA Regional Screening Levels (RSLs) and CalEPA DTSC Screening Levels (SLs) for residential land use with the exception of arsenic, cobalt, hexavalent chromium, mercury, lead and thallium (Table 1).

Arsenic was detected in four soil samples and these detected concentrations exceed the RSL (0.68mg/kg) and SL (0.11mg/kg). Only one of 40 detected concentrations of cobalt (240mg/kg) exceeds the RSL (23mg/kg). Hexavalent chromium was detected in three soil samples, two of the detected concentrations exceed the RSL (0.3mg/kg). Mercury was detected in 39 soil samples and four of the detected concentrations exceeds the SL (0.89mg/kg). Lead was detected in 27 soil samples and two of the detected concentrations exceeds the SL (80mg/kg). Thallium was detected in one soil sample at 13mg/kg, a concentration that exceeds the RSL (1.6mg/kg).

Total Petroleum Hydrocarbons-gasoline range (TPH-g) – Total petroleum hydrocarbons gasoline range (TPH-g) (C4-C12) were detected in concentrations ranging from 0.084mg/kg to 810mg/kg. The RSL for aromatic hydrocarbons in the C4-C12 range is 82mg/kg. Three detected concentrations, 270mg/kg, 810mg/kg and 380mg/kg exceed the RSL for aromatic hydrocarbons in the C4-C12 range (Table 2).

Total Petroleum Hydrocarbons-diesel range (TPH-d) – Total petroleum hydrocarbons diesel range (TPH-d) (C10-C24) were detected in one soil sample (18mg/kg). The detected concentration is less than the RSL for aromatic (110mg/kg) and aliphatic (96mg/kg) hydrocarbons C10-C24 range (Table 2).

Total Petroleum Hydrocarbons-oil range (TPH-o) – Total petroleum hydrocarbons oil range (TPH-o) (C22-C36) were detected in 12 soil samples three of which exceed the RSL for aromatic hydrocarbons (2500mg/kg) in the C22-C36 range (Table 2).

Volatile Organic Compounds (VOCs) – Seventeen VOCs were detected in concentrations greater than their respective reporting limits but at concentrations less than their respective RSLs and SLs (Table 3).

SemiVolatile Organic Compounds (SVOCs) – 2-Methylnaphthalene (1.6mg/kg, 1.6mg/kg) and naphthalene (1.8mg/kg, 1.9mg/kg) were detected in SB10-5 and SB10-10, respectively. These concentrations are less than their RSLs for residential land use, 18mg/kg for 2-methylnaphthalene and 3.8mg/kg for naphthalene (USEPA May 2016). All other SVOCs were not detected in concentrations greater than the reporting limits of 0.33mg/kg or 1.6mg/kg.

Soil Vapor - Seventeen soil vapor probes were placed within the building footprints in a 100' x 100' grid (Figure 3) to a depth of 5-ft bgs in accordance with the Advisory Active Soil Gas Investigations (CalEPA July 2015). Soil vapor samples were collected greater than 24-hours after probe installation and analyzed for VOCs via USEPA method 8260B using a mobile laboratory by Jones Environmental, Inc. Soil Vapor probes SV-6-5' and SV-16-5'' were not sampled due to low flow.

The following VOCs were detected in soil vapor: benzene, n-butylbenzene, sec-butylbenzene, tert-butylbenzene, chloroform, 1,2-dibromoethane (EDB), dichlorodifluoromethane, ethylbenzene, isopropylbenzene, 4-isopropyltoluene,

naphthalene, n-propylbenzene, tetrachloroethene (PCE), toluene and trichlorofluoromethane (Table 4). Not all detected VOCs were detected in every soil vapor sample. Most of the detected concentrations of volatiles in the vapor phase 5-foot bgs are greater than their respective screening levels in residential air.

Phase II ESA Recommendations

Pursuant to DTSC and the USEPA guidance, a human health risk assessment should be prepared to evaluate the potential health impacts due to exposure to the residual concentrations of the constituents detected at least one time in site soils and in soil vapor underlying the building footprints.

A soil management plan should be prepared to provide guidance to building contractors in the event discolored or odiferous soils are discovered during onsite excavation and grading activities.

Should you have any questions or desire additional information, please contact me at your earliest convenience at 310.403.1921.

Sincerely,

X *Susan Mearns*

Susan L. Mearns, Ph.D.

Mearns Consulting LLC

References

CalEPA, DTSC/LARWQCB/SFRWQCB. July 2015. Advisory Active Soil Gas Investigations.

California State Department of Conservation, Department of Oil, Gas and Geothermal Resources (DOGGR).

Dames and Moore. May 18, 1988. Final Report, Preliminary Site Characterization, Long Beach Auto Mall, for the Redevelopment Agency, City of Long Beach, Long Beach, California.

Environmental Partners, Inc. (EPI). July 26, 2010. PCB Remediation Work-Plan, Former PetroLane-Lomita Gas Plant, 2851 Orange Avenue, Long Beach, California.

Environmental Partners, Inc. (EPI). August 19, 2010. PCB Sampling and Analysis Plan, Former PetroLane-Lomita Gas Plant, 2851 Orange Avenue, Long Beach, California.

Environmental Partners, Inc. (EPI). September 22, 2010. Response to USEPA's Conditional Approval of PCB remediation Work Plan and Sampling and Analysis Plan, Former PetroLane-Lomita Gas Plant, 2851 Orange Avenue, Long Beach, California. EPA ID No. CAR000214189

Environmental Partners, Inc. (EPI). July 11, 2011. Final Risk-Based PCB Disposal Approval Application, Former PetroLane-Lomita Gas Plant, 2851 Orange Avenue, Long Beach, California. EPA ID No. CAR000214189

Environmental Partners, Inc. (EPI). August 2, 2011. Response to USEPA's Conditional Approval of Final Risk-Based PCB Disposal Approval Application, Former PetroLane-Lomita Gas Plant, 2851 Orange Avenue, Long Beach, California. EPA ID No. CAR000214189

Environmental Partners, Inc. (EPI). October 1, 2011. Status of PCB Verification Soil Samples Figures and Tables Former PetroLane-Lomita Gas Plant, 2851 Orange Avenue, Long Beach, California. EPA ID No. CAR000214189

Environmental Partners, Inc. (EPI). December 1, 2011. Proposed Additional Excavation Figures and Tables Former PetroLane-Lomita Gas Plant, 2851 Orange Avenue, Long Beach, California. EPA ID No. CAR000214189

Environmental Partners, Inc. (EPI). July 30, 2012. Risk-based PCB Remediation Report, Former PetroLane-Lomita Gas Plant, 2851 Orange Avenue, Long Beach, California. EPA ID No. CAR000214189

Environmental Science and Engineering, Inc. February 11, 1993. Site Characterization Report, For the PetroLane-Lomita Property in the Proposed Long Beach I-405 Retail Center, Long Beach, California (2 volumes).

Environmental Science and Engineering, Inc. March 29, 1993. Analysis of Remedial Options For the PetroLane-Lomita Property in the Proposed Long Beach I-405 Retail Center, Long Beach, California.

Environmental Science and Engineering, Inc. July 13, 1993. Preliminary Geotechnical Investigation for the South Block of the Proposed Long Beach/405 Retail Center Redevelopment Project, Long Beach, California.

Environmental Solutions. July 19, 2006. XRF Lead-Paint Test Report, The PetroLane Lomita Site.

Environmental Solutions. March 15, 2010. Asbestos Abatement Work-Plan, @ AmeriGas Plant, 2851 Orange Avenue, Long Beach, California.

Los Angeles Regional Water Quality Control Board (LARWQCB). May 4, 2012. No Further Action (NFA) Former HillTop Sports Park, Assessor Number 7212-009-910, -911, -913, -021, Long Beach, California.

LSA. December 2004. Recirculated DRAFT Environmental Impact Report, Long Beach Sports Park, Long Beach, California.

Mearns Consulting LLC. August 15, 2003. Human Health Risk Assessment, Proposed Long Beach Sports Park, Long Beach, California (6 volumes).

Moffat & Nichols, Engineers. January 12, 1999. DRAFT Feasibility Analysis for the Long Beach Sports Park.

Office of Environmental Health Hazard Assessment (OEHHA). November 10, 2005. Review of Human Health Risk Assessment, Proposed Long Beach Sports Park.

Pilko & Associates, Inc. August 1989. Pre-acquisition Site Assessment Report of PetroLane-Lomita Gasoline Company.

QST Environmental Inc. August 6, 1998. Health Risk assessment for Soil and Vadose Zone within the Proposed HillTop Sports Park, City of Long Beach, Long Beach, California.

USEPA. September 8, 2010. Polychlorinated Biphenyls - USEPA Conditional Approval under 40 CFR 761.61(a), Toxic Substances Control Act, “*PCB Remediation Work Plan Former PetroLane-Lomita Gas Plant, July 26, 2010*”.

USEPA. July 29, 2011. Polychlorinated Biphenyls (PCBs) - USEPA Conditional Approval of July 11, 2011 “*Final Risk-Based PCB Disposal Approval Application Former PetroLane-Lomita Gas Plant*” Under Toxic Substances Control Act, 40 CFR 761.61(c).

USEPA. August 7, 2012. Toxic Substances Control Act (TSCA) Polychlorinated Biphenyls (PCBs), USEPA Approval of PCB Cleanup Completion Report – Risk Based PCB Remediation Report for the Former PetroLane-Lomita Gas Plant, Long Beach, California.

USEPA. May 2016. Regional Screening Levels.

TABLES

Table 1 - Metals Analytical Results in Soil

SAMPLE ID	DATE SAMPLED	As mg/kg	Ba mg/kg	Cd mg/kg	Co mg/kg	Cr mg/kg	Cr+6 mg/kg	Cu mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Pb mg/kg	Sb mg/kg	Tl mg/kg	V mg/kg	Zn mg/kg
RSLr		0.68	15000	71	23	120000	0.3	3100	11	390	670	400	31	1.6	390	23000
DTSC-SLr		0.11		4.5					0.89						1500	
HERO												80				
Offsite-1	4/4/2005	5.2	97	<0.51	8.1	21		25	<0.16	<1.7	12	12	<1.6	<1.5	35	62
Offsite-5	4/4/2005	12	160	<0.51	17	50		64	<0.18	<1.7	30	8.1	2.3	<1.5	75	99
Offsite-10	4/4/2005	12	170	<0.51	14	32		35	<0.18	<1.7	22	5.6	<1.6	<1.5	58	67
Offsite-20	4/4/2005	14	73	<0.51	17	35		80	<0.15	<1.7	22	10	<1.6	<1.5	67	95
SB1-5	1/3/17	3.7	110	<0.5	8.6	28	<0.21	37	3.56	<1	13	45	<2.5	<2.5	36	93
SB1-10	1/3/17	<3.5	71	<0.5	7.5	20	<0.19	17	0.09	<1	14	3.7	<2.5	<2.5	31	34
SB2-5	1/3/17	<3.5	170	<0.5	9.9	25	<0.19	25	0.26	<1	12	120	<2.5	<2.5	36	150
SB2-10	1/3/17	5.5	100	<0.5	11	23	<0.21	21	0.04	<1	20	9.1	<2.5	<2.5	39	40
SB3-5	1/3/17	<3.5	200	1.1	6.5	25	<0.21	190	2.05	<1	19	97	<2.5	<2.5	25	260
SB3-10	1/3/17	<3.5	79	<0.5	8.4	22	<0.19	21	0.03	<1	15	4.2	<2.5	<2.5	34	39
SB4-5	1/3/17	<3.5	74	<0.5	8.3	33	<0.21	22	0.04	<1	19	3.7	<2.5	<2.5	48	39
SB4-10	1/3/17	<3.5	34	<0.5	4.8	19	<0.21	9.5	0.02	<1	8.2	<3	<2.5	<2.5	30	27
SB5-5	1/3/17	<3.5	99	<0.5	6.3	130	<0.21	29	2.65	<1	17	46	4.8	<2.5	28	160
SB5-10	1/3/17	<3.5	49	<0.5	5.3	18	<0.21	10	0.04	<1	11	<3	<2.5	<2.5	31	30
SB6-5	1/3/17	<3.5	79	<0.5	6.3	14	<0.21	14	0.05	<1	12	3.4	<2.5	<2.5	21	26
SB6-10	1/3/17	<3.5	33	<0.5	5.6	18	<0.21	15	0.02	<1	11	3	<2.5	<2.5	22	24
SB7-5	1/3/17	3.5	230	<0.5	12	31	<0.19	28	0.03	<1	20	6.1	<2.5	<2.5	40	52
SB7-10	1/3/17	<3.5	79	<0.5	7.8	16	<0.21	16	0.03	<1	14	3.8	<2.5	<2.5	28	31
SB8-5	1/4/17	7.6	120	<0.5	7.5	25	<0.21	19	0.03	<1	17	<3	<2.5	<2.5	39	39
SB8-10	1/4/17	<3.5	78	<0.5	10	25	<0.21	17	0.02	1.1	13	<3	<2.5	<2.5	43	56
SB9-5	1/4/17	<3.2	55	<0.45	6.7	19	<0.21	19	0.1	0.93	14	<2.7	<2.3	<2.3	28	33
SB9-10	1/4/17	<3.5	35	<0.5	5.3	21	<0.21	15	0.04	<1	12	3.1	<2.5	<2.5	23	27
SB10-5	1/4/17	<3.5	140	<0.5	11	25	<0.19	21	0.12	<1	18	4.4	<2.5	<2.5	35	44
SB10-10	1/4/17	<3.5	45	<0.5	6.1	19	<0.19	11	0.04	<1	11	<3	<2.5	<2.5	20	27
SB11-5	1/4/17	<3.5	71	<0.5	8.1	21	0.25	15	0.05	<1	14	3.2	<2.5	<2.5	26	30
SB11-10	1/4/17	<3.5	32	<0.5	4.2	20	<0.21	10	0.1	<1	9.3	<3	<2.5	<2.5	13	24
SB12-5	1/4/17	<3.5	86	<0.5	9.5	23	<0.21	17	1.08	<1	13	28	<2.5	<2.5	32	120
SB12-10	1/4/17	<3.5	66	<0.5	6.5	21	<0.21	15	0.04	<1	11	3	<2.5	<2.5	30	36
SB13-5	1/4/17	<3.5	78	<0.5	7.5	17	<0.21	12	0.01	<1	11	3.8	<2.5	<2.5	26	37
SB13-10	1/4/17	<3.5	63	<0.5	8.2	21	<0.21	12	0.04	<1	13	<3	<2.5	<2.5	29	37
SB14-5	1/4/17	<3.2	110	<0.45	11	27	<0.21	22	0.04	<0.91	21	4.9	<2.3	<2.3	45	45
SB14-10	1/4/17	<3.2	38	<0.45	6.3	19	<0.19	10	0.02	<0.91	11	<2.7	<2.3	<2.3	18	28
SB15-5	1/4/17	<3.5	63	<0.5	6.4	15	<0.21	7.9	0.02	<1	8.4	<3	<2.5	<2.5	21	31
SB15-10	1/4/17	<3.5	58	<0.5	7.4	23	<0.21	7.5	<0.01	<1	12	<3	<2.5	<2.3	26	34
SB16-5	1/4/17	<3.2	100	<0.45	9.2	21	<0.21	40	0.06	<0.91	15	7.5	<2.3	<2.5	30	46
SB16-10	1/4/17	<3.5	80	<0.5	7.9	21	<0.21	13	0.05	<1	13	3	<2.5	<2.5	32	38
SB17-5	1/4/17	<3.5	60	<0.5	6.9	15	<0.21	11	0.05	<1	11	<3	<2.5	<2.3	24	30
SB17-10	1/4/17	<3.2	42	<0.45	6.3	27	<0.21	11	0.02	<0.91	12	3.2	<2.3	<2.5	23	32

Table 1 - Metals Analytical Results in Soil

SAMPLE ID	DATE SAMPLED	As mg/kg	Ba mg/kg	Cd mg/kg	Co mg/kg	Cr mg/kg	Cr+6 mg/kg	Cu mg/kg	Hg mg/kg	Mo mg/kg	Ni mg/kg	Pb mg/kg	Sb mg/kg	Tl mg/kg	V mg/kg	Zn mg/kg
RSLr		0.68	15000	71	23	120000	0.3	3100	11	390	670	400	31	1.6	390	23000
DTSC-SLr		0.11		4.5					0.89						1500	
HERO												80				
Offsite-1	4/4/2005	5.2	97	<0.51	8.1	21		25	<0.16	<1.7	12	12	<1.6	<1.5	35	62
Offsite-5	4/4/2005	12	160	<0.51	17	50		64	<0.18	<1.7	30	8.1	2.3	<1.5	75	99
Offsite-10	4/4/2005	12	170	<0.51	14	32		35	<0.18	<1.7	22	5.6	<1.6	<1.5	58	67
Offsite-20	4/4/2005	14	73	<0.51	17	35		80	<0.15	<1.7	22	10	<1.6	<1.5	67	95
SB18-5	1/4/17	<3.5	63	<0.5	8.8	19	<0.21	10	0.03	<1	13	4.1	<2.5	<2.5	30	36
SB18-10	1/4/17	<3.5	72	<0.5	9.7	39	<0.21	28	0.03	<1	30	4.7	<2.5	<2.5	32	44
SB19-5	1/4/17	<3.5	81	<0.5	5.8	35	0.36	30	0.27	<1	12	23	<2.5	<2.5	26	94
SB19-10	1/4/17	<3.5	59	<0.5	7.6	22	1.7	11	0.02	<1	12	<3	<2.5	<2.5	28	37
SB20-5	1/4/17	<3.2	150	0.77	240	220	<0.21	200	0.04	23	27	450	11	13	51	520
SB20-10	1/4/17	<3.2	140	<0.45	12	26	<0.21	33	0.03	<0.90	19	37	<2.3	<2.3	40	110

Notes:

mg/kg = milligram per kilogram

As = arsenic, Ba = barium, Cd = cadmium, Co = cobalt, Cr = chromium, Cr+6 = hexavalent chromium, Cu = copper, Hg = mercury, Mo = molybdenum, Ni = nickel,

Pb = lead, Se = selenium, V = vanadium, Zn = zinc

<3.5 = concentration is less than the Reporting Limit (3.5), i.e., not detected (ND)

SB1-5 = Soil Boring1, 5-feet below ground surface (bgs).

Analytical results are included as Appendix A

Soil was collected from 5-feet bgs and 10-feet bgs from the same boring.

Only detected concentrations of metals are presented in this table. All other metals were ND.

Offsite Soil Borings were collected from Spud Field, Signal Hill

RSLr = USEPA Regional Screening Level for residential soils (May 2016)

DTSC SLr = CalEPA DTSC Screening Level for residential soils (May 2015)

HERO = DTSC, CalEPA Human and Ecological Risk Office (October 26, 2016)

Table 2 - Total Petroleum Hydrocarbons Analytical Results in Soil

Sample ID	Date Sampled	TPH-g	TPH-d	TPH-o	Carbon Chain												
					<C8	C8-C9	C9-C10	C10-C11	C11-C12	C12-C14	C14-C16	C16-C18	C18-C20	C20-C24	C24-C28	C28-C32	C>32
RSLr Aromatic		82	110	2500													
RSLr Aliphatic		520	96	230,000													
DTSC SLr Aliphatic				8,400													
SB1-5	1/3/2017	1	18	22	<1	<1	<1	1	1.6	4.5	5.2	4	1.3	2.3	3.5	8.8	6.9
SB1-10	1/3/2017	2.9	<5	<5	<1	<1	3.5	24	45	42	2.9	<1	<1	<1	<1	<1	<1
SB2-5	1/3/2017	<0.039	<25	210	<5	<5	<5	<5	<5	<5	<5	<5	5	19	43	78	68
SB2-10	1/3/2017	<0.041	<5	66	<1	<1	<1	<1	<1	1.1	4.8	8	8.1	22	21	21	14
SB3-5	1/3/2017	14	<50	5000	<10	33	150	180	370	1000	780	750	710	1300	1200	690	1100
SB3-10	1/3/2017	12	<25	3500	<5	29	150	160	320	610	510	430	420	710	650	1100	1000
SB4-5	1/3/2017	<0.058	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB4-10	1/3/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB5-5	1/3/2017	270	<100	3900	<20	<20	30	56	180	270	94	<20	32	230	610	1100	1200
SB5-10	1/3/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB6-5	1/3/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB6-10	1/3/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB7-5	1/3/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB7-10	1/3/2017	0.17	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB8-5	1/4/2017	<0.073	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB8-10	1/4/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB9-5	1/4/2017	<0.044	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB9-10	1/4/2017	<0.039	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB10-5	1/4/2017	810	<5	11	4.9	24	620	930	570	56	49	10	2.8	1.6	<1	5.3	5.5
SB10-10	1/4/2017	380	<5	14	5.2	26	310	530	320	71	51	7.9	1.9	2.6	1.4	5.1	7
SB11-5	1/4/2017	<0.05	<5	280	<1	<1	<1	<1	<1	<1	<1	<1	4.4	21	59	120	81
SB11-10	1/4/2017	<0.07	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB12-5	1/4/2017	<0.038	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB12-10	1/4/2017	<0.042	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB13-5	1/4/2017	<0.035	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB13-10	1/4/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB14-5	1/4/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Table 2 - Total Petroleum Hydrocarbons Analytical Results in Soil

Sample ID	Date Sampled	TPH-g	TPH-d	TPH-o	Carbon Chain												
					<C8	C8-C9	C9-C10	C10-C11	C11-C12	C12-C14	C14-C16	C16-C18	C18-C20	C20-C24	C24-C28	C28-C32	C>32
RSLr Aromatic		82	110	2500													
RSLr Aliphatic		520	96	230,000													
DTSC SLr Aliphatic				8,400													
SB14-10	1/4/2017	<0.044	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB15-5	1/4/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB15-10	1/4/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB16-5	1/4/2017	<0.033	<5	46	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.4	10	21	11
SB16-10	1/4/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB17-5	1/4/2017	<0.043	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB17-10	1/4/2017	<0.043	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB18-5	1/4/2017	<0.05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB18-10	1/4/2017	<0.062	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB19-5	1/4/2017	<0.05	<5	570	<10	<10	<10	<10	<10	<10	<10	<10	12	58	110	210	180
SB19-10	1/4/2017	0.12	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SB20-5	1/4/2017	0.084	<25	1100	<5	<5	<5	<5	<5	<5	<5	<5	14	110	260	430	340
SB20-10	1/4/2017	<0.042	<25	320	<5	<5	<5	<5	<5	<5	<5	<5	<5	7	53	140	120

Notes:

TPH-g = Total Petroleum Hydrocarbons-gasoline range C4-C12

TPH-d = Total Petroleum Hydrocarbons-diesel range C10-C24

TPH-o = Total Petroleum Hydrocarbons-oil range C22-C36

mg/kg = milligram per kilogram

<0.039 = concentration is less than the Reporting Limit (0.039), i.e., not detected (ND)

SB1-5 = Soil Boring1, 5-feet below ground surface (bgs).

Analytical results are included as Appendix A and include MADEP Analysis by GC-FID

Soil was collected from 5-feet bgs and 10-feet bgs from the same boring.

RSLr = USEPA Regional Screening Level for residential soils (May 2016)

DTSC SLr = CalEPA DTSC Screening Level for residential soils (May 2015)

Table 3 - Volatile Organic Compounds Analytical Results in Soil

Sample ID	Date Sampled	Benzene	Bromodichloromethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	1,1,2,2-Tetrachloroethane	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	m,p-Xylenes	o-Xylene
RSLr		1.2	0.29	3900	7800	7800	5.8	1900	NA	3.8	3800	2	4900	58	780	0.59	550	650
DTSC-SLr		0.33	1600	1200	2200	2200	NA	NA	NA	NA	NA	550	1100	NA	210	0.15	NA	NA
SB1-5	1/3/2017	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	0.0048	<0.0039	<0.0039	<0.0039	0.0045	<0.0039	<0.0039	<0.0039	<0.0039
SB1-10	1/3/2017	<0.0037	<0.0037	0.022	0.03	<0.0037	<0.0037	0.0047	<0.0037	0.0076	0.0063	0.074	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037
SB2-5	1/3/2017	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	0.0046	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036
SB2-10	1/3/2017	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036
SB3-5	1/3/2017	<0.0045	0.0079	0.043	<0.0045	0.046	<0.0045	0.61	<0.0045	0.042	0.21	0.23	<0.0045	0.012	<0.0045	<0.0045	<0.0045	0.011
SB3-10	1/3/2017	<0.006	<0.006	<0.006	0.29	0.036	<0.006	0.41	<0.006	0.045	0.05	<0.006	<0.006	<0.006	<0.006	0.0076	<0.006	<0.006
SB4-5	1/3/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB4-10	1/3/2017	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042
SB5-5	1/3/2017	<0.0078	<0.0078	0.037	0.086	<0.0078	<0.0078	0.073	0.025	0.024	0.14	<0.0078	<0.0078	0.63	0.33	<0.0078	<0.0078	<0.0078
SB5-10	1/3/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB6-5	1/3/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB6-10	1/3/2017	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045
SB7-5	1/3/2017	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043
SB7-10	1/3/2017	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	0.0052	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044
SB8-5	1/4/2017	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083	<0.0083
SB8-10	1/4/2017	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
SB9-5	1/4/2017	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066
SB9-10	1/4/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB10-5	1/4/2017	<0.0039	<0.0039	0.074	0.0076	0.051	0.0079	0.23	<0.0039	0.023	0.04	0.23	<0.0039	0.043	0.041	<0.0039	0.0069	<0.0039
SB10-10	1/4/2017	<0.0044	<0.0044	0.089	0.012	0.06	0.0049	0.33	<0.0044	0.045	0.38	0.37	<0.0044	0.034	<0.0044	<0.0044	0.0047	<0.0044
SB11-5	1/4/2017	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045
SB11-10	1/4/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB12-5	1/4/2017	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039
SB12-10	1/4/2017	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044
SB13-5	1/4/2017	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037
SB13-10	1/4/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB14-5	1/4/2017	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038
SB14-10	1/4/2017	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044
SB15-5	1/4/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB15-10	1/4/2017	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045
SB16-5	1/4/2017	0.0088	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035
SB16-10	1/4/2017	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062

Table 3 - Volatile Organic Compounds Analytical Results in Soil

Sample ID	Date Sampled	Benzene	Bromodichloromethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	1,1,2,2-Tetrachloroethane	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	m,p-Xylenes	o-Xylene
RSLr		1.2	0.29	3900	7800	7800	5.8	1900	NA	3.8	3800	2	4900	58	780	0.59	550	650
DTSC-SLr		0.33	1600	1200	2200	2200	NA	NA	NA	NA	NA	550	1100	NA	210	0.15	NA	NA
SB17-5	1/4/2017	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044
SB17-10	1/4/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB18-5	1/4/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB18-10	1/4/2017	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067
SB19-5	1/4/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB19-10	1/4/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SB20-5	1/4/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0063	<0.005	<0.005	<0.005	<0.005	<0.005
SB20-10	1/4/2017	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036

Notes:

mg/kg = milligram per kilogram

<0.0039 = concentration is less than the Reporting Limit (0.0039), i.e., not detected (ND)

SB1-5 = Soil Boring1, 5-feet below ground surface (bgs).

Analytical results are included as Appendix A

Soil was collected from 5-feet bgs and 10-feet bgs from the same boring.

Only detected concentrations of VOCs are presented in this table. All other metals were ND.

RSLr = USEPA Regional Screening Level for residential soils (May 2016)

DTSC SLr = CalEPA DTSC Screening Level for residential soils (May 2015)

NA = Not Available

Table 4 - Soil Vapor Analytical Results

SAMPLE ID	DATE SAMPLED	Benzene µg/m³	n-Butylbenzene µg/m³	sec-Butylbenzene µg/m³	tert-Butylbenzene µg/m³	Chloroform µg/m³	EDB µg/m³	Dichlorodifluoromethane µg/m³	Ethylbenzene µg/m³	Isopropylbenzene µg/m³
RSLr		0.36	NA	NA	NA	0.12	0.0047	100	1.1	420
DTSC - SLr		0.097	210	NA	NA	0.12	0.0047	100	1.1	NA
SV-1-5'	2/16/17	<8	<8	365	<8	<8	<8	<8	<8	405
SV-2-5'	2/16/17	<8	<8	<8	<8	<8	<8	<8	<8	<8
SV-3-5'	2/16/17	<8	<8	<8	<8	<8	<8	<8	<8	<8
SV-4-5'	2/16/17	<8	<8	253	51.2	<8	<8	<8	<8	291
SV-5-5'	2/16/17	<8	<8	68.6	<8	<8	<8	<8	<8	143
SV-7-5'	2/16/17	<8	<8	<8	<8	<8	<8	<8	<8	<8
SV-8-5'	2/16/17	3060	597	2030	<8	<8	16600	<8	2490	6740
SV-7-5' REP	2/16/17	<8	<8	<8	<8	<8	<8	<8	<8	<8
SV-9-5'	2/16/17	<8	<8	11500	<8	<8	<8	<8	<8	10700
SV-10-5'	2/16/17	<8	<8	540	<8	<8	<8	10.2	<8	201
SV-11-5'	2/16/17	<8	40.8	83.8	<8	<8	<8	10.6	<8	39.2
SV-12-5'	2/16/17	<8	31.6	54.8	<8	<8	<8	<8	<8	34.6
SV-13-5'	2/16/17	<8	21	31.6	<8	<8	<8	<8	9.6	24.2
SV-14-5'	2/16/17	<8	12.8	19.2	<8	24.6	<8	<8	<8	17.4
SV15-5'	2/16/17	<8	10.4	14.2	<8	<8	<8	10.2	<8	13.6
SV-17-5'	2/16/17	<8	<8	<8	<8	<8	<8	10	<8	<8

Table 4 - Soil Vapor Analytical Results

SAMPLE ID	DATE SAMPLED	4-Isopropyltoluene µg/m ³	Naphthalene µg/m ³	n-Propylbenzene µg/m ³	PCE µg/m ³	Toluene µg/m ³	Trichlorofluoromethane µg/m ³
RSL _r		NA	0.083	1000	11	5200	NA
DTSC - SL _r		NA	0.083	1000	0.48	310	730
SV-1-5'	2/16/17	<8	<8	<8	<8	220	<8
SV-2-5'	2/16/17	<8	<8	<8	<8	<8	<8
SV-3-5'	2/16/17	<8	<8	<8	<8	<8	87
SV-4-5'	2/16/17	15	70.2	<8	<8	<8	13.4
SV-5-5'	2/16/17	67.2	<8	<8	<8	47.2	10
SV-7-5'	2/16/17	8.2	<8	<8	<8	<8	<8
SV-8-5'	2/16/17	404	569	5040	<8	1080	<8
SV-7-5' REP	2/16/17	<8	66.6	<8	<8	<8	<8
SV-9-5'	2/16/17	<8	11300	8090	<8	<8	65.4
SV-10-5'	2/16/17	<8	1640	441	<8	<8	<8
SV-11-5'	2/16/17	<8	504	101	<8	<8	<8
SV-12-5'	2/16/17	<8	321	90.6	11.2	<8	12.6
SV-13-5'	2/16/17	<8	184	58.8	12	<8	15.6
SV-14-5'	2/16/17	<8	111	40.4	10.6	12.4	<8
SV15-5'	2/16/17	<8	81.2	28.6	11.8	<8	<8
SV-17-5'	2/16/17	<8	45.8	8.4	11.2	<8	<8

Notes:

µg/m³ = micrograms per cubic meter

EDB = 1,2-Dibromoethane, PCE = tetrachloroethylene

<8 = concentration is less than the Practical Quantitation Limit (8), i.e., not detected (ND)

SV-1-5' = Soil Vapor Probe 1, 5' bgs

Analytical results are included as Appendix D

Only detected concentrations of VOCs are presented in this table. All other VOCs were ND.

RSL_r = USEPA Regional Screening Level for residential air (May 2016)

DTSC - SL_r = DTSC Screening Levels for residential air (May 2015)

NA = Not Available

FIGURES

Memorial Heights

Coast Ave

Long Beach Blvd

Elm Ave

Pasadena Ave

Linden Ave

S Atlantic Ave

E Canton St

2851 Orange Ave

E 32nd St

405

San Diego Fwy

E Spring St

E 29th St

N Elm Ave

E Patterson St

Atlantic Ave

N Olive Ave

California Ave

Orange Ave

© 2015 Google

Sundry Ave

Walnut Ave

N Gaviota Ave

Rose Ave

Cherry Ave

E 28th St

Brayon Ave

E 27th St

Google Earth

33°48'37.84" N 118°10'38.06" W elev 90 ft eye alt 6450 ft

1994

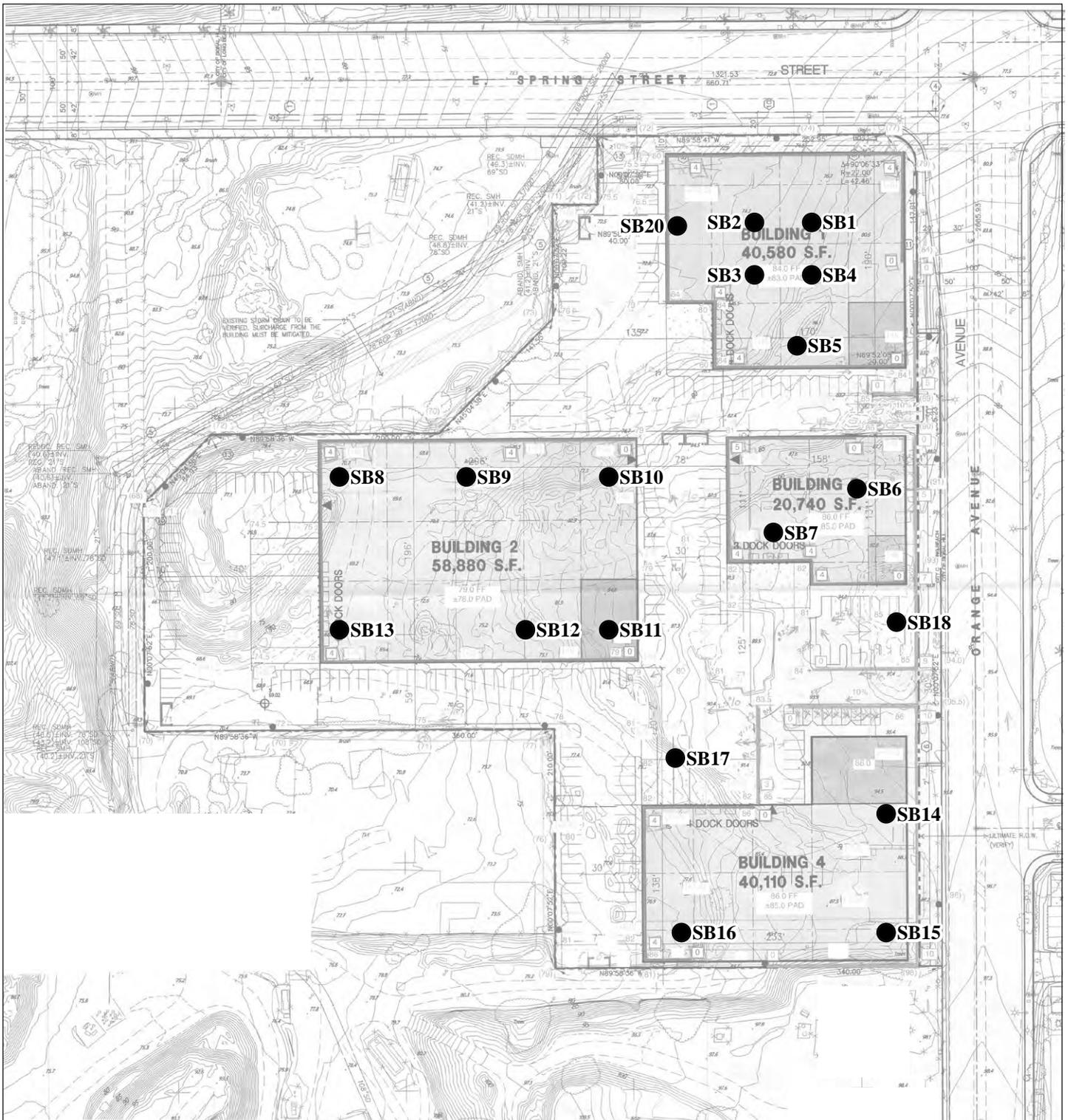
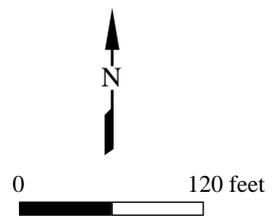


Figure 2:
Soil Boring Location Map
 Former AmeriGas Site
 2851 Orange Avenue, Long Beach CA

EXPLANATION
 SB1 ● Soil boring



Mearns Consulting LLC

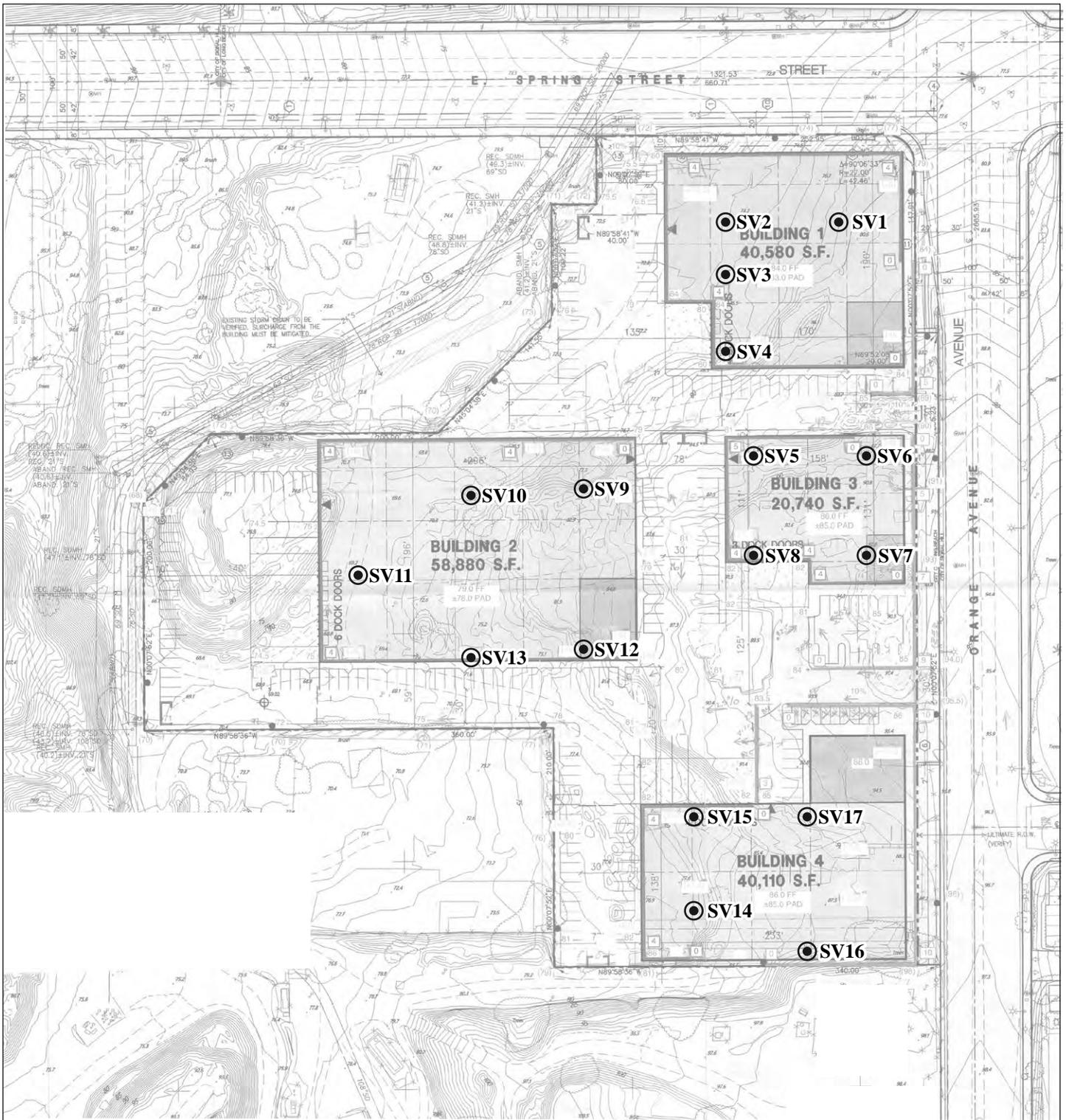


Figure 3:
Soil Vapor Probe Location Map
 Former AmeriGas Site
 2851 Orange Avenue, Long Beach CA

Mearns Consulting LLC

EXPLANATION

SV1 ● Soil vapor probe



APPENDIX A

**Sierra Analytical Labs, Inc.
Soil Analytical Results
January 10 and 12, 2017**



10 January 2017

Susan Mearns
Mearns Consulting LLC
738 Ashland Avenue
Santa Monica, CA 90405

RE:SHPI-Amerigas

Work Order No.: 1701037

Attached are the results of the analyses for samples received by the laboratory on 01/03/17 16:00.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report.
If you require any additional retaining time, please advise us.

Sincerely,

A handwritten signature in black ink that reads "Richard K. Forsyth". The signature is written in a cursive style and is positioned above a horizontal line.

Richard K. Forsyth

Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS),
Environmental Laboratory Accreditation Program (ELAP) No. 2320.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB1-5	1701037-01	Soil	01/03/17 10:02	01/03/17 16:00
SB1-10	1701037-02	Soil	01/03/17 10:17	01/03/17 16:00
SB2-5	1701037-03	Soil	01/03/17 10:38	01/03/17 16:00
SB2-10	1701037-04	Soil	01/03/17 10:49	01/03/17 16:00
SB3-5	1701037-05	Soil	01/03/17 11:10	01/03/17 16:00
SB3-10	1701037-06	Soil	01/03/17 11:24	01/03/17 16:00
SB4-5	1701037-07	Soil	01/03/17 11:50	01/03/17 16:00
SB4-10	1701037-08	Soil	01/03/17 12:03	01/03/17 16:00
SB5-5	1701037-09	Soil	01/03/17 13:03	01/03/17 16:00
SB5-10	1701037-10	Soil	01/03/17 13:20	01/03/17 16:00
SB6-5	1701037-11	Soil	01/03/17 14:20	01/03/17 16:00
SB6-10	1701037-12	Soil	01/03/17 14:31	01/03/17 16:00
SB7-5	1701037-13	Soil	01/03/17 14:50	01/03/17 16:00
SB7-10	1701037-14	Soil	01/03/17 14:58	01/03/17 16:00

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB1-5 (1701037-01) Soil Sampled: 01/03/17 10:02 Received: 01/03/17 16:00									
Silver	ND	1.0	mg/kg	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Arsenic	3.7	3.5	"	"	"	"	"	"	
Barium	110	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	8.6	2.5	"	"	"	"	"	"	
Chromium	28	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0565	01/05/17	01/09/17 12:05	EPA 7199A	
Copper	37	2.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Mercury	3.56	0.12	"	10	B7A0568	01/05/17	01/06/17 18:42	EPA 7471A	
Molybdenum	ND	1.0	"	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Nickel	13	4.0	"	"	"	"	"	"	
Lead	45	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
Vanadium	36	6.0	"	"	"	"	"	"	
Zinc	93	10	"	"	"	"	"	"	

SB1-10 (1701037-02) Soil Sampled: 01/03/17 10:17 Received: 01/03/17 16:00

Silver	ND	1.0	mg/kg	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
Barium	71	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	7.5	2.5	"	"	"	"	"	"	
Chromium	20	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.19	"	"	B7A0565	01/05/17	01/09/17 12:05	EPA 7199A	
Copper	17	2.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Mercury	0.09	0.01	"	"	B7A0568	01/05/17	01/06/17 18:42	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Nickel	14	4.0	"	"	"	"	"	"	
Lead	3.7	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
Vanadium	31	6.0	"	"	"	"	"	"	
Zinc	34	10	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB2-5 (1701037-03) Soil Sampled: 01/03/17 10:38 Received: 01/03/17 16:00									
Silver	ND	1.0	mg/kg	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
Barium	170	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	9.9	2.5	"	"	"	"	"	"	
Chromium	25	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.19	"	"	B7A0565	01/05/17	01/09/17 12:05	EPA 7199A	
Copper	25	2.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Mercury	0.26	0.01	"	"	B7A0568	01/05/17	01/06/17 18:42	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Nickel	12	4.0	"	"	"	"	"	"	
Lead	120	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
Vanadium	36	6.0	"	"	"	"	"	"	
Zinc	150	10	"	"	"	"	"	"	
SB2-10 (1701037-04) Soil Sampled: 01/03/17 10:49 Received: 01/03/17 16:00									
Silver	ND	1.0	mg/kg	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Arsenic	5.5	3.5	"	"	"	"	"	"	
Barium	100	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	11	2.5	"	"	"	"	"	"	
Chromium	23	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0565	01/05/17	01/09/17 12:05	EPA 7199A	
Copper	21	2.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Mercury	0.04	0.01	"	"	B7A0568	01/05/17	01/06/17 18:42	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Nickel	20	4.0	"	"	"	"	"	"	
Lead	9.1	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
Vanadium	39	6.0	"	"	"	"	"	"	
Zinc	40	10	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB3-5 (1701037-05) Soil Sampled: 01/03/17 11:10 Received: 01/03/17 16:00									
Silver	ND	1.0	mg/kg	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
Barium	200	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	1.1	0.50	"	"	"	"	"	"	
Cobalt	6.5	2.5	"	"	"	"	"	"	
Chromium	25	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0565	01/05/17	01/09/17 12:05	EPA 7199A	
Copper	190	2.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Mercury	2.05	0.07	"	5	B7A0568	01/05/17	01/06/17 18:42	EPA 7471A	
Molybdenum	ND	1.0	"	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Nickel	19	4.0	"	"	"	"	"	"	
Lead	97	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
Vanadium	25	6.0	"	"	"	"	"	"	
Zinc	260	10	"	"	"	"	"	"	
SB3-10 (1701037-06) Soil Sampled: 01/03/17 11:24 Received: 01/03/17 16:00									
Silver	ND	1.0	mg/kg	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
Barium	79	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	8.4	2.5	"	"	"	"	"	"	
Chromium	22	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.19	"	"	B7A0565	01/05/17	01/09/17 12:05	EPA 7199A	
Copper	21	2.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Mercury	0.03	0.01	"	"	B7A0568	01/05/17	01/06/17 18:42	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Nickel	15	4.0	"	"	"	"	"	"	
Lead	4.2	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
Vanadium	34	6.0	"	"	"	"	"	"	
Zinc	39	10	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
SB4-5 (1701037-07) Soil Sampled: 01/03/17 11:50 Received: 01/03/17 16:00										
Silver	ND	1.0	mg/kg	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B		
Arsenic	ND	3.5	"	"	"	"	"	"		
Barium	74	6.5	"	"	"	"	"	"		
Beryllium	ND	0.50	"	"	"	"	"	"		
Cadmium	ND	0.50	"	"	"	"	"	"		
Cobalt	8.3	2.5	"	"	"	"	"	"		
Chromium	33	3.0	"	"	"	"	"	"		
Hexavalent Chromium	ND	0.21	"	"	B7A0565	01/05/17	01/09/17 12:05	EPA 7199A		
Copper	22	2.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B		
Mercury	0.04	0.01	"	"	B7A0568	01/05/17	01/06/17 18:42	EPA 7471A		
Molybdenum	ND	1.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B		
Nickel	19	4.0	"	"	"	"	"	"		
Lead	3.7	3.0	"	"	"	"	"	"		
Antimony	ND	2.5	"	"	"	"	"	"		
Selenium	ND	6.0	"	"	"	"	"	"		
Thallium	ND	2.5	"	"	"	"	"	"		
Vanadium	48	6.0	"	"	"	"	"	"		
Zinc	39	10	"	"	"	"	"	"		
SB4-10 (1701037-08) Soil Sampled: 01/03/17 12:03 Received: 01/03/17 16:00										
Silver	ND	1.0	mg/kg	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B		
Arsenic	ND	3.5	"	"	"	"	"	"		
Barium	34	6.5	"	"	"	"	"	"		
Beryllium	ND	0.50	"	"	"	"	"	"		
Cadmium	ND	0.50	"	"	"	"	"	"		
Cobalt	4.8	2.5	"	"	"	"	"	"		
Chromium	19	3.0	"	"	"	"	"	"		
Hexavalent Chromium	ND	0.21	"	"	B7A0565	01/05/17	01/09/17 12:05	EPA 7199A		
Copper	9.5	2.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B		
Mercury	0.02	0.01	"	"	B7A0568	01/05/17	01/06/17 18:42	EPA 7471A		
Molybdenum	ND	1.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B		
Nickel	8.2	4.0	"	"	"	"	"	"		
Lead	ND	3.0	"	"	"	"	"	"		
Antimony	ND	2.5	"	"	"	"	"	"		
Selenium	ND	6.0	"	"	"	"	"	"		
Thallium	ND	2.5	"	"	"	"	"	"		
Vanadium	30	6.0	"	"	"	"	"	"		
Zinc	27	10	"	"	"	"	"	"		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB5-5 (1701037-09) Soil Sampled: 01/03/17 13:03 Received: 01/03/17 16:00									
Silver	ND	1.0	mg/kg	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
Barium	99	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	6.3	2.5	"	"	"	"	"	"	
Chromium	130	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0565	01/05/17	01/09/17 12:05	EPA 7199A	
Copper	29	2.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Mercury	2.65	0.06	"	5	B7A0568	01/05/17	01/06/17 18:42	EPA 7471A	
Molybdenum	ND	1.0	"	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Nickel	17	4.0	"	"	"	"	"	"	
Lead	46	3.0	"	"	"	"	"	"	
Antimony	4.8	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
Vanadium	28	6.0	"	"	"	"	"	"	
Zinc	160	10	"	"	"	"	"	"	
SB5-10 (1701037-10) Soil Sampled: 01/03/17 13:20 Received: 01/03/17 16:00									
Silver	ND	1.0	mg/kg	1	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
Barium	49	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	5.3	2.5	"	"	"	"	"	"	
Chromium	18	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0565	01/05/17	01/09/17 12:05	EPA 7199A	
Copper	10	2.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Mercury	0.04	0.01	"	"	B7A0568	01/05/17	01/06/17 18:42	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0460	01/04/17	01/05/17 13:22	EPA 6010B	
Nickel	11	4.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
Vanadium	31	6.0	"	"	"	"	"	"	
Zinc	30	10	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
SB6-5 (1701037-11) Soil Sampled: 01/03/17 14:20 Received: 01/03/17 16:00										
Silver	ND	1.0	mg/kg	1	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B		
Arsenic	ND	3.5	"	"	"	"	"	"		
Barium	79	6.5	"	"	"	"	"	"		
Beryllium	ND	0.50	"	"	"	"	"	"		
Cadmium	ND	0.50	"	"	"	"	"	"		
Cobalt	6.3	2.5	"	"	"	"	"	"		
Chromium	14	3.0	"	"	"	"	"	"		
Hexavalent Chromium	ND	0.21	"	"	B7A0566	01/05/17	01/09/17 12:06	EPA 7199A		
Copper	14	2.0	"	"	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B		
Mercury	0.05	0.01	"	"	B7A0569	01/05/17	01/06/17 18:46	EPA 7471A		
Molybdenum	ND	1.0	"	"	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B		
Nickel	12	4.0	"	"	"	"	"	"		
Lead	3.4	3.0	"	"	"	"	"	"		
Antimony	ND	2.5	"	"	"	"	"	"		
Selenium	ND	6.0	"	"	"	"	"	"		
Thallium	ND	2.5	"	"	"	"	"	"		
Vanadium	21	6.0	"	"	"	"	"	"		
Zinc	26	10	"	"	"	"	"	"		
SB6-10 (1701037-12) Soil Sampled: 01/03/17 14:31 Received: 01/03/17 16:00										
Silver	ND	1.0	mg/kg	1	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B		
Arsenic	ND	3.5	"	"	"	"	"	"		
Barium	33	6.5	"	"	"	"	"	"		
Beryllium	ND	0.50	"	"	"	"	"	"		
Cadmium	ND	0.50	"	"	"	"	"	"		
Cobalt	5.6	2.5	"	"	"	"	"	"		
Chromium	18	3.0	"	"	"	"	"	"		
Hexavalent Chromium	ND	0.21	"	"	B7A0566	01/05/17	01/09/17 12:06	EPA 7199A		
Copper	15	2.0	"	"	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B		
Mercury	0.02	0.01	"	"	B7A0569	01/05/17	01/06/17 18:46	EPA 7471A		
Molybdenum	ND	1.0	"	"	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B		
Nickel	11	4.0	"	"	"	"	"	"		
Lead	3.0	3.0	"	"	"	"	"	"		
Antimony	ND	2.5	"	"	"	"	"	"		
Selenium	ND	6.0	"	"	"	"	"	"		
Thallium	ND	2.5	"	"	"	"	"	"		
Vanadium	22	6.0	"	"	"	"	"	"		
Zinc	24	10	"	"	"	"	"	"		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB7-5 (1701037-13) Soil Sampled: 01/03/17 14:50 Received: 01/03/17 16:00									
Silver	ND	1.0	mg/kg	1	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B	
Arsenic	3.5	3.5	"	"	"	"	"	"	"
Barium	230	6.5	"	"	"	"	"	"	"
Beryllium	ND	0.50	"	"	"	"	"	"	"
Cadmium	ND	0.50	"	"	"	"	"	"	"
Cobalt	12	2.5	"	"	"	"	"	"	"
Chromium	31	3.0	"	"	"	"	"	"	"
Hexavalent Chromium	ND	0.19	"	"	B7A0566	01/05/17	01/09/17 12:06	EPA 7199A	
Copper	28	2.0	"	"	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B	
Mercury	0.03	0.01	"	"	B7A0569	01/05/17	01/06/17 18:46	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B	
Nickel	20	4.0	"	"	"	"	"	"	"
Lead	6.1	3.0	"	"	"	"	"	"	"
Antimony	ND	2.5	"	"	"	"	"	"	"
Selenium	ND	6.0	"	"	"	"	"	"	"
Thallium	ND	2.5	"	"	"	"	"	"	"
Vanadium	40	6.0	"	"	"	"	"	"	"
Zinc	52	10	"	"	"	"	"	"	"
SB7-10 (1701037-14) Soil Sampled: 01/03/17 14:58 Received: 01/03/17 16:00									
Silver	ND	1.0	mg/kg	1	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	"
Barium	79	6.5	"	"	"	"	"	"	"
Beryllium	ND	0.50	"	"	"	"	"	"	"
Cadmium	ND	0.50	"	"	"	"	"	"	"
Cobalt	7.8	2.5	"	"	"	"	"	"	"
Chromium	16	3.0	"	"	"	"	"	"	"
Hexavalent Chromium	ND	0.21	"	"	B7A0566	01/05/17	01/09/17 12:06	EPA 7199A	
Copper	16	2.0	"	"	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B	
Mercury	0.03	0.01	"	"	B7A0569	01/05/17	01/06/17 18:46	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0461	01/04/17	01/05/17 13:41	EPA 6010B	
Nickel	14	4.0	"	"	"	"	"	"	"
Lead	3.8	3.0	"	"	"	"	"	"	"
Antimony	ND	2.5	"	"	"	"	"	"	"
Selenium	ND	6.0	"	"	"	"	"	"	"
Thallium	ND	2.5	"	"	"	"	"	"	"
Vanadium	28	6.0	"	"	"	"	"	"	"
Zinc	31	10	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Total Volatile Petroleum Hydrocarbons (TVPH) by GC/FID
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB1-5 (1701037-01) Soil Sampled: 01/03/17 10:02 Received: 01/03/17 16:00									
Gasoline Range Hydrocarbons (C4-C12)	1.0	0.037	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		85.9 %	35-130		"	"	"	"	
SB1-10 (1701037-02) Soil Sampled: 01/03/17 10:17 Received: 01/03/17 16:00									
Gasoline Range Hydrocarbons (C4-C12)	2.9	0.050	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		89.2 %	35-130		"	"	"	"	
SB2-5 (1701037-03) Soil Sampled: 01/03/17 10:38 Received: 01/03/17 16:00									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.039	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		77.1 %	35-130		"	"	"	"	
SB2-10 (1701037-04) Soil Sampled: 01/03/17 10:49 Received: 01/03/17 16:00									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.041	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		87.3 %	35-130		"	"	"	"	
SB3-5 (1701037-05) Soil Sampled: 01/03/17 11:10 Received: 01/03/17 16:00									
Gasoline Range Hydrocarbons (C4-C12)	14	0.038	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		65.9 %	35-130		"	"	"	"	
SB3-10 (1701037-06) Soil Sampled: 01/03/17 11:24 Received: 01/03/17 16:00									
Gasoline Range Hydrocarbons (C4-C12)	12	0.040	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		76.5 %	35-130		"	"	"	"	
SB4-5 (1701037-07) Soil Sampled: 01/03/17 11:50 Received: 01/03/17 16:00									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.058	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		75.2 %	35-130		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Total Volatile Petroleum Hydrocarbons (TVPH) by GC/FID
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB4-10 (1701037-08) Soil Sampled: 01/03/17 12:03 Received: 01/03/17 16:00									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		79.0 %	35-130		"	"	"	"	
SB5-5 (1701037-09) Soil Sampled: 01/03/17 13:03 Received: 01/03/17 16:00									
Gasoline Range Hydrocarbons (C4-C12)	270	10	mg/kg	100	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		92.0 %	35-130		"	"	"	"	
SB5-10 (1701037-10) Soil Sampled: 01/03/17 13:20 Received: 01/03/17 16:00									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		78.3 %	35-130		"	"	"	"	
SB6-5 (1701037-11) Soil Sampled: 01/03/17 14:20 Received: 01/03/17 16:00									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		82.8 %	35-130		"	"	"	"	
SB6-10 (1701037-12) Soil Sampled: 01/03/17 14:31 Received: 01/03/17 16:00									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		78.8 %	35-130		"	"	"	"	
SB7-5 (1701037-13) Soil Sampled: 01/03/17 14:50 Received: 01/03/17 16:00									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		86.5 %	35-130		"	"	"	"	
SB7-10 (1701037-14) Soil Sampled: 01/03/17 14:58 Received: 01/03/17 16:00									
Gasoline Range Hydrocarbons (C4-C12)	0.17	0.044	mg/kg	1	B7A0451	01/04/17	01/04/17 13:16	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		85.1 %	35-130		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Total Petroleum Hydrocarbons (TPH) by GC/FID
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB1-5 (1701037-01) Soil Sampled: 01/03/17 10:02 Received: 01/03/17 16:00									
Diesel Range Organics (C10-C24)	18	5.0	mg/kg	1	B7A0330	01/04/17	01/05/17 12:02	EPA 8015B	
Surrogate: o-Terphenyl		127 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	22	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		127 %	60-175		"	"	"	"	
SB1-10 (1701037-02) Soil Sampled: 01/03/17 10:17 Received: 01/03/17 16:00									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0330	01/04/17	01/05/17 10:24	EPA 8015B	D-42
Surrogate: o-Terphenyl		101 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		101 %	60-175		"	"	"	"	
SB2-5 (1701037-03) Soil Sampled: 01/03/17 10:38 Received: 01/03/17 16:00									
Diesel Range Organics (C10-C24)	ND	25	mg/kg	5	B7A0330	01/04/17	01/05/17 12:26	EPA 8015B	
Surrogate: o-Terphenyl		128 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	210	25	"	"	"	"	"	"	
Surrogate: o-Terphenyl		128 %	60-175		"	"	"	"	
SB2-10 (1701037-04) Soil Sampled: 01/03/17 10:49 Received: 01/03/17 16:00									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0330	01/04/17	01/05/17 12:14	EPA 8015B	D-42
Surrogate: o-Terphenyl		162 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	66	5.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		162 %	60-175		"	"	"	"	
SB3-5 (1701037-05) Soil Sampled: 01/03/17 11:10 Received: 01/03/17 16:00									
Diesel Range Organics (C10-C24)	ND	50	mg/kg	10	B7A0330	01/04/17	01/05/17 15:20	EPA 8015B	D-42
Surrogate: o-Terphenyl		%	60-175		"	"	"	"	S-03
Oil Range Organics (C22-C36)	5000	50	"	"	"	"	"	"	
Surrogate: o-Terphenyl		%	60-175		"	"	"	"	S-03

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Total Petroleum Hydrocarbons (TPH) by GC/FID
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB3-10 (1701037-06) Soil Sampled: 01/03/17 11:24 Received: 01/03/17 16:00									
Diesel Range Organics (C10-C24)	ND	25	mg/kg	5	B7A0330	01/04/17	01/05/17 12:49	EPA 8015B	D-42
Surrogate: <i>o</i> -Terphenyl		1400 %	60-175		"	"	"	"	S-07
Oil Range Organics (C22-C36)	3500	25	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		1400 %	60-175		"	"	"	"	S-07
SB4-5 (1701037-07) Soil Sampled: 01/03/17 11:50 Received: 01/03/17 16:00									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0330	01/04/17	01/05/17 10:37	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		111 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		111 %	60-175		"	"	"	"	
SB4-10 (1701037-08) Soil Sampled: 01/03/17 12:03 Received: 01/03/17 16:00									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0330	01/04/17	01/05/17 10:49	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		86.4 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		86.4 %	60-175		"	"	"	"	
SB5-5 (1701037-09) Soil Sampled: 01/03/17 13:03 Received: 01/03/17 16:00									
Diesel Range Organics (C10-C24)	ND	100	mg/kg	20	B7A0330	01/04/17	01/05/17 15:32	EPA 8015B	D-42
Surrogate: <i>o</i> -Terphenyl		%	60-175		"	"	"	"	S-03
Oil Range Organics (C22-C36)	3900	100	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		%	60-175		"	"	"	"	S-03
SB5-10 (1701037-10) Soil Sampled: 01/03/17 13:20 Received: 01/03/17 16:00									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0330	01/04/17	01/05/17 11:02	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		106 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		106 %	60-175		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Total Petroleum Hydrocarbons (TPH) by GC/FID
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB6-5 (1701037-11) Soil Sampled: 01/03/17 14:20 Received: 01/03/17 16:00									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0330	01/04/17	01/05/17 11:14	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		93.6 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		93.6 %	60-175		"	"	"	"	
SB6-10 (1701037-12) Soil Sampled: 01/03/17 14:31 Received: 01/03/17 16:00									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0330	01/04/17	01/05/17 11:26	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		94.0 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		94.0 %	60-175		"	"	"	"	
SB7-5 (1701037-13) Soil Sampled: 01/03/17 14:50 Received: 01/03/17 16:00									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0330	01/04/17	01/05/17 11:38	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		96.4 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		96.4 %	60-175		"	"	"	"	
SB7-10 (1701037-14) Soil Sampled: 01/03/17 14:58 Received: 01/03/17 16:00									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0330	01/04/17	01/05/17 11:50	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		64.4 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		64.4 %	60-175		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB1-5 (1701037-01) Soil Sampled: 01/03/17 10:02 Received: 01/03/17 16:00									
HC < C8	ND	1.0	mg/kg	1	B7A0330	01/04/17	01/05/17 12:02	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	1.0	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	1.6	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	4.5	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	5.2	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	4.0	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	1.3	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	2.3	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	3.5	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	8.8	1.0	"	"	"	"	"	"	"
HC >= C32	6.9	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	39	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		127 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.0074	"	"	B7A0451	01/04/17	01/04/17 13:16	"	"
C6 <= HC < C7	0.011	0.0074	"	"	"	"	"	"	"
C7 <= HC < C8	0.032	0.0074	"	"	"	"	"	"	"
C8 <= HC < C9	0.090	0.0074	"	"	"	"	"	"	"
C9 <= HC < C10	1.0	0.0074	"	"	"	"	"	"	"
C10 <= HC < C11	2.4	0.0074	"	"	"	"	"	"	"
C11 <= HC < C12	1.4	0.0074	"	"	"	"	"	"	"
HC >= C12	0.39	0.0074	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	5.4	0.037	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		85.9 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB1-10 (1701037-02) Soil Sampled: 01/03/17 10:17 Received: 01/03/17 16:00									
HC < C8	ND	1.0	mg/kg	1	B7A0330	01/04/17	01/05/17 10:24	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	3.5	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	24	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	45	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	42	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	2.9	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	120	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		101 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.010	"	"	B7A0451	01/04/17	01/04/17 13:16	"	"
C6 <= HC < C7	0.034	0.010	"	"	"	"	"	"	"
C7 <= HC < C8	0.12	0.010	"	"	"	"	"	"	"
C8 <= HC < C9	0.57	0.010	"	"	"	"	"	"	"
C9 <= HC < C10	2.9	0.010	"	"	"	"	"	"	"
C10 <= HC < C11	10	0.010	"	"	"	"	"	"	"
C11 <= HC < C12	3.5	0.010	"	"	"	"	"	"	"
HC >= C12	0.46	0.010	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	19	0.050	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		89.2 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB2-5 (1701037-03) Soil Sampled: 01/03/17 10:38 Received: 01/03/17 16:00									
HC < C8	ND	5.0	mg/kg	5	B7A0330	01/04/17	01/05/17 12:26	EPA 8015B	
C8 <= HC < C9	ND	5.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	5.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	5.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	5.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	5.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	5.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	5.0	"	"	"	"	"	"	"
C18 <= HC < C20	5.0	5.0	"	"	"	"	"	"	"
C20 <= HC < C24	19	5.0	"	"	"	"	"	"	"
C24 <= HC < C28	43	5.0	"	"	"	"	"	"	"
C28 <= HC < C32	78	5.0	"	"	"	"	"	"	"
HC >= C32	68	5.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	210	25	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		128 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.0078	"	1	B7A0451	01/04/17	01/04/17 13:16	"	"
C6 <= HC < C7	ND	0.0078	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.0078	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.0078	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.0078	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.0078	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.0078	"	"	"	"	"	"	"
HC >= C12	ND	0.0078	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.039	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		77.1 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
SB2-10 (1701037-04) Soil Sampled: 01/03/17 10:49 Received: 01/03/17 16:00										
HC < C8	ND	1.0	mg/kg	1	B7A0330	01/04/17	01/05/17 12:14	EPA 8015B		
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"	
C12 <= HC < C14	1.1	1.0	"	"	"	"	"	"	"	
C14 <= HC < C16	4.8	1.0	"	"	"	"	"	"	"	
C16 <= HC < C18	8.0	1.0	"	"	"	"	"	"	"	
C18 <= HC < C20	8.1	1.0	"	"	"	"	"	"	"	
C20 <= HC < C24	22	1.0	"	"	"	"	"	"	"	
C24 <= HC < C28	21	1.0	"	"	"	"	"	"	"	
C28 <= HC < C32	21	1.0	"	"	"	"	"	"	"	
HC >= C32	14	1.0	"	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	100	5.0	"	"	"	"	"	"	"	
<hr/>										
<i>Surrogate: o-Terphenyl</i>		162 %	60-175		"	"	"	"	"	
C5 <= HC < C6	ND	0.0083	"	"	B7A0451	01/04/17	01/04/17 13:16	"	"	
C6 <= HC < C7	ND	0.0083	"	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.0083	"	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.0083	"	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.0083	"	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.0083	"	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.0083	"	"	"	"	"	"	"	
HC >= C12	ND	0.0083	"	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.041	"	"	"	"	"	"	"	
<hr/>										
<i>Surrogate: a,a,a-Trifluorotoluene</i>		87.3 %	35-130		"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB3-5 (1701037-05) Soil Sampled: 01/03/17 11:10 Received: 01/03/17 16:00									
HC < C8	ND	10	mg/kg	10	B7A0330	01/04/17	01/05/17 15:20	EPA 8015B	
C8 <= HC < C9	33	10	"	"	"	"	"	"	"
C9 <= HC < C10	150	10	"	"	"	"	"	"	"
C10 <= HC < C11	180	10	"	"	"	"	"	"	"
C11 <= HC < C12	370	10	"	"	"	"	"	"	"
C12 <= HC < C14	1000	10	"	"	"	"	"	"	"
C14 <= HC < C16	780	10	"	"	"	"	"	"	"
C16 <= HC < C18	750	10	"	"	"	"	"	"	"
C18 <= HC < C20	710	10	"	"	"	"	"	"	"
C20 <= HC < C24	1300	10	"	"	"	"	"	"	"
C24 <= HC < C28	1200	10	"	"	"	"	"	"	"
C28 <= HC < C32	690	10	"	"	"	"	"	"	"
HC >= C32	1100	10	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	8300	50	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>		%	60-175		"	"	"	"	S-03
C5 <= HC < C6	ND	0.0075	"	1	B7A0451	01/04/17	01/04/17 13:16	"	
C6 <= HC < C7	0.038	0.0075	"	"	"	"	"	"	
C7 <= HC < C8	0.37	0.0075	"	"	"	"	"	"	
C8 <= HC < C9	4.6	0.0075	"	"	"	"	"	"	
C9 <= HC < C10	10	0.0075	"	"	"	"	"	"	
C10 <= HC < C11	8.2	0.0075	"	"	"	"	"	"	
C11 <= HC < C12	3.0	0.0075	"	"	"	"	"	"	
HC >= C12	0.34	0.0075	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	27	0.038	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		65.9 %	35-130		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB3-10 (1701037-06) Soil Sampled: 01/03/17 11:24 Received: 01/03/17 16:00									
HC < C8	ND	5.0	mg/kg	5	B7A0330	01/04/17	01/05/17 12:49	EPA 8015B	
C8 <= HC < C9	29	5.0	"	"	"	"	"	"	
C9 <= HC < C10	150	5.0	"	"	"	"	"	"	
C10 <= HC < C11	160	5.0	"	"	"	"	"	"	
C11 <= HC < C12	320	5.0	"	"	"	"	"	"	
C12 <= HC < C14	610	5.0	"	"	"	"	"	"	
C14 <= HC < C16	510	5.0	"	"	"	"	"	"	
C16 <= HC < C18	430	5.0	"	"	"	"	"	"	
C18 <= HC < C20	420	5.0	"	"	"	"	"	"	
C20 <= HC < C24	710	5.0	"	"	"	"	"	"	
C24 <= HC < C28	650	5.0	"	"	"	"	"	"	
C28 <= HC < C32	1100	5.0	"	"	"	"	"	"	
HC >= C32	1000	5.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	6100	25	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>		1400 %	60-175		"	"	"	"	S-07
C5 <= HC < C6	ND	0.0081	"	1	B7A0451	01/04/17	01/04/17 13:16	"	
C6 <= HC < C7	0.056	0.0081	"	"	"	"	"	"	
C7 <= HC < C8	0.38	0.0081	"	"	"	"	"	"	
C8 <= HC < C9	3.6	0.0081	"	"	"	"	"	"	
C9 <= HC < C10	8.5	0.0081	"	"	"	"	"	"	
C10 <= HC < C11	9.0	0.0081	"	"	"	"	"	"	
C11 <= HC < C12	3.8	0.0081	"	"	"	"	"	"	
HC >= C12	0.47	0.0081	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	26	0.040	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		76.5 %	35-130		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB4-5 (1701037-07) Soil Sampled: 01/03/17 11:50 Received: 01/03/17 16:00									
HC < C8	ND	1.0	mg/kg	1	B7A0330	01/04/17	01/05/17 10:37	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		111 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.012	"	"	B7A0451	01/04/17	01/04/17 13:16	"	"
C6 <= HC < C7	ND	0.012	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.012	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.012	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.012	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.012	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.012	"	"	"	"	"	"	"
HC >= C12	ND	0.012	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.058	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		75.2 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB4-10 (1701037-08) Soil Sampled: 01/03/17 12:03 Received: 01/03/17 16:00									
HC < C8	ND	1.0	mg/kg	1	B7A0330	01/04/17	01/05/17 10:49	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		86.4 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.010	"	"	B7A0451	01/04/17	01/04/17 13:16	"	"
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	"
HC >= C12	ND	0.010	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		79.0 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB5-5 (1701037-09) Soil Sampled: 01/03/17 13:03 Received: 01/03/17 16:00									
HC < C8	ND	20	mg/kg	20	B7A0330	01/04/17	01/05/17 15:32	EPA 8015B	
C8 <= HC < C9	ND	20	"	"	"	"	"	"	
C9 <= HC < C10	30	20	"	"	"	"	"	"	
C10 <= HC < C11	56	20	"	"	"	"	"	"	
C11 <= HC < C12	180	20	"	"	"	"	"	"	
C12 <= HC < C14	270	20	"	"	"	"	"	"	
C14 <= HC < C16	94	20	"	"	"	"	"	"	
C16 <= HC < C18	ND	20	"	"	"	"	"	"	
C18 <= HC < C20	32	20	"	"	"	"	"	"	
C20 <= HC < C24	230	20	"	"	"	"	"	"	
C24 <= HC < C28	610	20	"	"	"	"	"	"	
C28 <= HC < C32	1100	20	"	"	"	"	"	"	
HC >= C32	1200	20	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	3800	100	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>		%	60-175		"	"	"	"	S-03
C5 <= HC < C6	ND	2.0	"	100	B7A0451	01/04/17	01/04/17 13:16	"	
C6 <= HC < C7	7.7	2.0	"	"	"	"	"	"	
C7 <= HC < C8	32	2.0	"	"	"	"	"	"	
C8 <= HC < C9	93	2.0	"	"	"	"	"	"	
C9 <= HC < C10	93	2.0	"	"	"	"	"	"	
C10 <= HC < C11	61	2.0	"	"	"	"	"	"	
C11 <= HC < C12	68	2.0	"	"	"	"	"	"	
HC >= C12	18	2.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	370	10	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		92.0 %	35-130		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB5-10 (1701037-10) Soil Sampled: 01/03/17 13:20 Received: 01/03/17 16:00									
HC < C8	ND	1.0	mg/kg	1	B7A0330	01/04/17	01/05/17 11:02	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		106 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.010	"	"	B7A0451	01/04/17	01/04/17 13:16	"	"
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	"
HC >= C12	ND	0.010	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		78.3 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
SB6-5 (1701037-11) Soil Sampled: 01/03/17 14:20 Received: 01/03/17 16:00										
HC < C8	ND	1.0	mg/kg	1	B7A0330	01/04/17	01/05/17 11:14	EPA 8015B		
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>										
		93.6 %	60-175		"	"	"	"	"	
C5 <= HC < C6	ND	0.010	"	"	B7A0451	01/04/17	01/04/17 13:16	"	"	
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	"	
HC >= C12	ND	0.010	"	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>										
		82.8 %	35-130		"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB6-10 (1701037-12) Soil Sampled: 01/03/17 14:31 Received: 01/03/17 16:00									
HC < C8	ND	1.0	mg/kg	1	B7A0330	01/04/17	01/05/17 11:26	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		94.0 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.010	"	"	B7A0451	01/04/17	01/04/17 13:16	"	"
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	"
HC >= C12	ND	0.010	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		78.8 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB7-5 (1701037-13) Soil Sampled: 01/03/17 14:50 Received: 01/03/17 16:00									
HC < C8	ND	1.0	mg/kg	1	B7A0330	01/04/17	01/05/17 11:38	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>		96.4 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.010	"	"	B7A0451	01/04/17	01/04/17 13:16	"	"
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	"
HC >= C12	ND	0.010	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		86.5 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB7-10 (1701037-14) Soil Sampled: 01/03/17 14:58 Received: 01/03/17 16:00									
HC < C8	ND	1.0	mg/kg	1	B7A0330	01/04/17	01/05/17 11:50	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		64.4 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.0087	"	"	B7A0451	01/04/17	01/04/17 13:16	"	"
C6 <= HC < C7	0.014	0.0087	"	"	"	"	"	"	"
C7 <= HC < C8	0.022	0.0087	"	"	"	"	"	"	"
C8 <= HC < C9	0.049	0.0087	"	"	"	"	"	"	"
C9 <= HC < C10	0.095	0.0087	"	"	"	"	"	"	"
C10 <= HC < C11	0.16	0.0087	"	"	"	"	"	"	"
C11 <= HC < C12	0.19	0.0087	"	"	"	"	"	"	"
HC >= C12	0.077	0.0087	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	0.60	0.044	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		85.1 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB1-5 (1701037-01) Soil Sampled: 01/03/17 10:02 Received: 01/03/17 16:00										
Benzene	ND	3.9		µg/kg	1	B7A0452	01/04/17	01/04/17 17:01	EPA 8260B	
Bromobenzene	ND	3.9		"	"	"	"	"	"	"
Bromochloromethane	ND	3.9		"	"	"	"	"	"	"
Bromodichloromethane	ND	3.9		"	"	"	"	"	"	"
Bromoform	ND	3.9		"	"	"	"	"	"	"
Bromomethane	ND	3.9		"	"	"	"	"	"	"
n-Butylbenzene	ND	3.9		"	"	"	"	"	"	"
sec-Butylbenzene	ND	3.9		"	"	"	"	"	"	"
tert-Butylbenzene	ND	3.9		"	"	"	"	"	"	"
Carbon tetrachloride	ND	3.9		"	"	"	"	"	"	"
Chlorobenzene	ND	3.9		"	"	"	"	"	"	"
Chloroethane	ND	3.9		"	"	"	"	"	"	"
Chloroform	ND	3.9		"	"	"	"	"	"	"
Chloromethane	ND	3.9		"	"	"	"	"	"	"
2-Chlorotoluene	ND	3.9		"	"	"	"	"	"	"
4-Chlorotoluene	ND	3.9		"	"	"	"	"	"	"
Dibromochloromethane	ND	3.9		"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	3.9		"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	3.9		"	"	"	"	"	"	"
Dibromomethane	ND	3.9		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	3.9		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	3.9		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	3.9		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	3.9		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	3.9		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	3.9		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	3.9		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	3.9		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	3.9		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	3.9		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	3.9		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	3.9		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	3.9		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	3.9		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	3.9		"	"	"	"	"	"	"
Ethylbenzene	ND	3.9		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	3.9		"	"	"	"	"	"	"
Isopropylbenzene	ND	3.9		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	3.9		"	"	"	"	"	"	"
Methylene chloride	ND	3.9		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	3.9		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB1-5 (1701037-01) Soil Sampled: 01/03/17 10:02 Received: 01/03/17 16:00										
Naphthalene	4.8	3.9		µg/kg	1	B7A0452	01/04/17	01/04/17 17:01	EPA 8260B	
n-Propylbenzene	ND	3.9		"	"	"	"	"	"	"
Styrene	ND	3.9		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	3.9		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	3.9		"	"	"	"	"	"	"
Tetrachloroethene	ND	3.9		"	"	"	"	"	"	"
Toluene	ND	3.9		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	3.9		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	3.9		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	3.9		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	3.9		"	"	"	"	"	"	"
Trichloroethene	ND	3.9		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	3.9		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	3.9		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	4.5	3.9		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	3.9		"	"	"	"	"	"	"
Vinyl chloride	ND	3.9		"	"	"	"	"	"	"
m,p-Xylene	ND	3.9		"	"	"	"	"	"	"
o-Xylene	ND	3.9		"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		111 %		80-120		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		85.1 %		81-117		"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		98.5 %		74-121		"	"	"	"	"

SB1-10 (1701037-02) Soil Sampled: 01/03/17 10:17 Received: 01/03/17 16:00										
Benzene	ND	3.7		µg/kg	1	B7A0452	01/04/17	01/04/17 17:42	EPA 8260B	
Bromobenzene	ND	3.7		"	"	"	"	"	"	"
Bromochloromethane	ND	3.7		"	"	"	"	"	"	"
Bromodichloromethane	ND	3.7		"	"	"	"	"	"	"
Bromoform	ND	3.7		"	"	"	"	"	"	"
Bromomethane	ND	3.7		"	"	"	"	"	"	"
n-Butylbenzene	22	3.7		"	"	"	"	"	"	"
sec-Butylbenzene	30	3.7		"	"	"	"	"	"	"
tert-Butylbenzene	ND	3.7		"	"	"	"	"	"	"
Carbon tetrachloride	ND	3.7		"	"	"	"	"	"	"
Chlorobenzene	ND	3.7		"	"	"	"	"	"	"
Chloroethane	ND	3.7		"	"	"	"	"	"	"
Chloroform	ND	3.7		"	"	"	"	"	"	"
Chloromethane	ND	3.7		"	"	"	"	"	"	"
2-Chlorotoluene	ND	3.7		"	"	"	"	"	"	"
4-Chlorotoluene	ND	3.7		"	"	"	"	"	"	"
Dibromochloromethane	ND	3.7		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB1-10 (1701037-02) Soil Sampled: 01/03/17 10:17 Received: 01/03/17 16:00										
1,2-Dibromo-3-chloropropane	ND	3.7		µg/kg	1	B7A0452	01/04/17	01/04/17 17:42	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	3.7		"	"	"	"	"	"	
Dibromomethane	ND	3.7		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.7		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.7		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.7		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.7		"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.7		"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.7		"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.7		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.7		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.7		"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.7		"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.7		"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.7		"	"	"	"	"	"	
1,1-Dichloropropene	ND	3.7		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	3.7		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.7		"	"	"	"	"	"	
Ethylbenzene	ND	3.7		"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.7		"	"	"	"	"	"	
Isopropylbenzene	4.7	3.7		"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.7		"	"	"	"	"	"	
Methylene chloride	ND	3.7		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	3.7		"	"	"	"	"	"	
Naphthalene	7.6	3.7		"	"	"	"	"	"	
n-Propylbenzene	6.3	3.7		"	"	"	"	"	"	
Styrene	ND	3.7		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.7		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	74	3.7		"	"	"	"	"	"	
Tetrachloroethene	ND	3.7		"	"	"	"	"	"	
Toluene	ND	3.7		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.7		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.7		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.7		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.7		"	"	"	"	"	"	
Trichloroethene	ND	3.7		"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.7		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.7		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.7		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.7		"	"	"	"	"	"	
Vinyl chloride	ND	3.7		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB1-10 (1701037-02) Soil Sampled: 01/03/17 10:17 Received: 01/03/17 16:00									
m,p-Xylene	ND	3.7	µg/kg	1	B7A0452	01/04/17	01/04/17 17:42	EPA 8260B	
o-Xylene	ND	3.7	"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		<i>112 %</i>	<i>80-120</i>		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		<i>110 %</i>	<i>81-117</i>		"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>110 %</i>	<i>74-121</i>		"	"	"	"	"
SB2-5 (1701037-03) Soil Sampled: 01/03/17 10:38 Received: 01/03/17 16:00									
Benzene	ND	3.6	µg/kg	1	B7A0452	01/04/17	01/04/17 18:22	EPA 8260B	
Bromobenzene	ND	3.6	"	"	"	"	"	"	"
Bromochloromethane	ND	3.6	"	"	"	"	"	"	"
Bromodichloromethane	ND	3.6	"	"	"	"	"	"	"
Bromoform	ND	3.6	"	"	"	"	"	"	"
Bromomethane	ND	3.6	"	"	"	"	"	"	"
n-Butylbenzene	ND	3.6	"	"	"	"	"	"	"
sec-Butylbenzene	ND	3.6	"	"	"	"	"	"	"
tert-Butylbenzene	ND	3.6	"	"	"	"	"	"	"
Carbon tetrachloride	ND	3.6	"	"	"	"	"	"	"
Chlorobenzene	ND	3.6	"	"	"	"	"	"	"
Chloroethane	ND	3.6	"	"	"	"	"	"	"
Chloroform	ND	3.6	"	"	"	"	"	"	"
Chloromethane	ND	3.6	"	"	"	"	"	"	"
2-Chlorotoluene	ND	3.6	"	"	"	"	"	"	"
4-Chlorotoluene	ND	3.6	"	"	"	"	"	"	"
Dibromochloromethane	ND	3.6	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	3.6	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	3.6	"	"	"	"	"	"	"
Dibromomethane	ND	3.6	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	3.6	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	3.6	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	3.6	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	3.6	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	3.6	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	3.6	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	3.6	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	3.6	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	3.6	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	3.6	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	3.6	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	3.6	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	3.6	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	3.6	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB2-5 (1701037-03) Soil Sampled: 01/03/17 10:38 Received: 01/03/17 16:00										
trans-1,3-Dichloropropene	ND	3.6		µg/kg	1	B7A0452	01/04/17	01/04/17 18:22	EPA 8260B	
Ethylbenzene	ND	3.6		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	3.6		"	"	"	"	"	"	"
Isopropylbenzene	ND	3.6		"	"	"	"	"	"	"
p-Isopropyltoluene	4.6	3.6		"	"	"	"	"	"	"
Methylene chloride	ND	3.6		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	3.6		"	"	"	"	"	"	"
Naphthalene	ND	3.6		"	"	"	"	"	"	"
n-Propylbenzene	ND	3.6		"	"	"	"	"	"	"
Styrene	ND	3.6		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	3.6		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	3.6		"	"	"	"	"	"	"
Tetrachloroethene	ND	3.6		"	"	"	"	"	"	"
Toluene	ND	3.6		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	3.6		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	3.6		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	3.6		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	3.6		"	"	"	"	"	"	"
Trichloroethene	ND	3.6		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	3.6		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	3.6		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	3.6		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	3.6		"	"	"	"	"	"	"
Vinyl chloride	ND	3.6		"	"	"	"	"	"	"
m,p-Xylene	ND	3.6		"	"	"	"	"	"	"
o-Xylene	ND	3.6		"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		91.9 %		80-120		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		101 %		81-117		"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		110 %		74-121		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB2-10 (1701037-04) Soil Sampled: 01/03/17 10:49 Received: 01/03/17 16:00										
Benzene	ND	3.6		µg/kg	1	B7A0452	01/04/17	01/04/17 19:04	EPA 8260B	
Bromobenzene	ND	3.6		"	"	"	"	"	"	"
Bromochloromethane	ND	3.6		"	"	"	"	"	"	"
Bromodichloromethane	ND	3.6		"	"	"	"	"	"	"
Bromoform	ND	3.6		"	"	"	"	"	"	"
Bromomethane	ND	3.6		"	"	"	"	"	"	"
n-Butylbenzene	ND	3.6		"	"	"	"	"	"	"
sec-Butylbenzene	ND	3.6		"	"	"	"	"	"	"
tert-Butylbenzene	ND	3.6		"	"	"	"	"	"	"
Carbon tetrachloride	ND	3.6		"	"	"	"	"	"	"
Chlorobenzene	ND	3.6		"	"	"	"	"	"	"
Chloroethane	ND	3.6		"	"	"	"	"	"	"
Chloroform	ND	3.6		"	"	"	"	"	"	"
Chloromethane	ND	3.6		"	"	"	"	"	"	"
2-Chlorotoluene	ND	3.6		"	"	"	"	"	"	"
4-Chlorotoluene	ND	3.6		"	"	"	"	"	"	"
Dibromochloromethane	ND	3.6		"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	3.6		"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	3.6		"	"	"	"	"	"	"
Dibromomethane	ND	3.6		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	3.6		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	3.6		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	3.6		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	3.6		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	3.6		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	3.6		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	3.6		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	3.6		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	3.6		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	3.6		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	3.6		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	3.6		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	3.6		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	3.6		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	3.6		"	"	"	"	"	"	"
Ethylbenzene	ND	3.6		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	3.6		"	"	"	"	"	"	"
Isopropylbenzene	ND	3.6		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	3.6		"	"	"	"	"	"	"
Methylene chloride	ND	3.6		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	3.6		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting			Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units							
SB2-10 (1701037-04) Soil Sampled: 01/03/17 10:49 Received: 01/03/17 16:00										
Naphthalene	ND	3.6	µg/kg	1	B7A0452	01/04/17	01/04/17 19:04	EPA 8260B		
n-Propylbenzene	ND	3.6	"	"	"	"	"	"	"	"
Styrene	ND	3.6	"	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	3.6	"	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	3.6	"	"	"	"	"	"	"	"
Tetrachloroethene	ND	3.6	"	"	"	"	"	"	"	"
Toluene	ND	3.6	"	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	3.6	"	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	3.6	"	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	3.6	"	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	3.6	"	"	"	"	"	"	"	"
Trichloroethene	ND	3.6	"	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	3.6	"	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	3.6	"	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	3.6	"	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	3.6	"	"	"	"	"	"	"	"
Vinyl chloride	ND	3.6	"	"	"	"	"	"	"	"
m,p-Xylene	ND	3.6	"	"	"	"	"	"	"	"
o-Xylene	ND	3.6	"	"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		101 %		80-120	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		93.1 %		81-117	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		108 %		74-121	"	"	"	"	"	"

SB3-5 (1701037-05) Soil Sampled: 01/03/17 11:10 Received: 01/03/17 16:00										
Benzene	ND	4.5	µg/kg	1	B7A0452	01/04/17	01/04/17 19:47	EPA 8260B		
Bromobenzene	ND	4.5	"	"	"	"	"	"	"	"
Bromochloromethane	ND	4.5	"	"	"	"	"	"	"	"
Bromodichloromethane	7.9	4.5	"	"	"	"	"	"	"	"
Bromoform	ND	4.5	"	"	"	"	"	"	"	"
Bromomethane	ND	4.5	"	"	"	"	"	"	"	"
n-Butylbenzene	43	4.5	"	"	"	"	"	"	"	"
sec-Butylbenzene	ND	4.5	"	"	"	"	"	"	"	"
tert-Butylbenzene	46	4.5	"	"	"	"	"	"	"	"
Carbon tetrachloride	ND	4.5	"	"	"	"	"	"	"	"
Chlorobenzene	ND	4.5	"	"	"	"	"	"	"	"
Chloroethane	ND	4.5	"	"	"	"	"	"	"	"
Chloroform	ND	4.5	"	"	"	"	"	"	"	"
Chloromethane	ND	4.5	"	"	"	"	"	"	"	"
2-Chlorotoluene	ND	4.5	"	"	"	"	"	"	"	"
4-Chlorotoluene	ND	4.5	"	"	"	"	"	"	"	"
Dibromochloromethane	ND	4.5	"	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB3-5 (1701037-05) Soil Sampled: 01/03/17 11:10 Received: 01/03/17 16:00										
1,2-Dibromo-3-chloropropane	ND	4.5		µg/kg	1	B7A0452	01/04/17	01/04/17 19:47	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	4.5		"	"	"	"	"	"	"
Dibromomethane	ND	4.5		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	4.5		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	4.5		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	4.5		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	4.5		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.5		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.5		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.5		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.5		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.5		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.5		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	4.5		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	4.5		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	4.5		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.5		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.5		"	"	"	"	"	"	"
Ethylbenzene	ND	4.5		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	4.5		"	"	"	"	"	"	"
Isopropylbenzene	610	4.5		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	4.5		"	"	"	"	"	"	"
Methylene chloride	ND	4.5		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	4.5		"	"	"	"	"	"	"
Naphthalene	42	4.5		"	"	"	"	"	"	"
n-Propylbenzene	210	4.5		"	"	"	"	"	"	"
Styrene	ND	4.5		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	4.5		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	230	4.5		"	"	"	"	"	"	"
Tetrachloroethene	ND	4.5		"	"	"	"	"	"	"
Toluene	ND	4.5		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	4.5		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	4.5		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	4.5		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	4.5		"	"	"	"	"	"	"
Trichloroethene	ND	4.5		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	4.5		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	4.5		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	12	4.5		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	4.5		"	"	"	"	"	"	"
Vinyl chloride	ND	4.5		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB3-5 (1701037-05) Soil Sampled: 01/03/17 11:10 Received: 01/03/17 16:00									
m,p-Xylene	ND	4.5	µg/kg	1	B7A0452	01/04/17	01/04/17 19:47	EPA 8260B	
o-Xylene	11	4.5	"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		102 %	80-120		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		98.9 %	81-117		"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	74-121		"	"	"	"	"
SB3-10 (1701037-06) Soil Sampled: 01/03/17 11:24 Received: 01/03/17 16:00									
Benzene	ND	6.0	µg/kg	1	B7A0452	01/04/17	01/04/17 20:30	EPA 8260B	
Bromobenzene	ND	6.0	"	"	"	"	"	"	"
Bromochloromethane	ND	6.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	6.0	"	"	"	"	"	"	"
Bromoform	ND	6.0	"	"	"	"	"	"	"
Bromomethane	ND	6.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	6.0	"	"	"	"	"	"	"
sec-Butylbenzene	290	6.0	"	"	"	"	"	"	"
tert-Butylbenzene	36	6.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	6.0	"	"	"	"	"	"	"
Chlorobenzene	ND	6.0	"	"	"	"	"	"	"
Chloroethane	ND	6.0	"	"	"	"	"	"	"
Chloroform	ND	6.0	"	"	"	"	"	"	"
Chloromethane	ND	6.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	6.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	6.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	6.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	6.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	6.0	"	"	"	"	"	"	"
Dibromomethane	ND	6.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	6.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	6.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	6.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	6.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	6.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	6.0	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	6.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	6.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	6.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	6.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	6.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	6.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	6.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	6.0	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB3-10 (1701037-06) Soil Sampled: 01/03/17 11:24 Received: 01/03/17 16:00									
trans-1,3-Dichloropropene	ND	6.0	µg/kg	1	B7A0452	01/04/17	01/04/17 20:30	EPA 8260B	
Ethylbenzene	ND	6.0	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	6.0	"	"	"	"	"	"	"
Isopropylbenzene	410	6.0	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	6.0	"	"	"	"	"	"	"
Methylene chloride	ND	6.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	6.0	"	"	"	"	"	"	"
Naphthalene	45	6.0	"	"	"	"	"	"	"
n-Propylbenzene	50	6.0	"	"	"	"	"	"	"
Styrene	ND	6.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	6.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	6.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	6.0	"	"	"	"	"	"	"
Toluene	ND	6.0	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	6.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	6.0	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	6.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	6.0	"	"	"	"	"	"	"
Trichloroethene	ND	6.0	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	6.0	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	6.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	6.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	6.0	"	"	"	"	"	"	"
Vinyl chloride	7.6	6.0	"	"	"	"	"	"	"
m,p-Xylene	ND	6.0	"	"	"	"	"	"	"
o-Xylene	ND	6.0	"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		91.6 %		80-120	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		94.8 %		81-117	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		116 %		74-121	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB4-5 (1701037-07) Soil Sampled: 01/03/17 11:50 Received: 01/03/17 16:00										
Benzene	ND	5.0		µg/kg	1	B7A0452	01/04/17	01/04/17 21:11	EPA 8260B	
Bromobenzene	ND	5.0		"	"	"	"	"	"	"
Bromochloromethane	ND	5.0		"	"	"	"	"	"	"
Bromodichloromethane	ND	5.0		"	"	"	"	"	"	"
Bromoform	ND	5.0		"	"	"	"	"	"	"
Bromomethane	ND	5.0		"	"	"	"	"	"	"
n-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
sec-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
tert-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
Carbon tetrachloride	ND	5.0		"	"	"	"	"	"	"
Chlorobenzene	ND	5.0		"	"	"	"	"	"	"
Chloroethane	ND	5.0		"	"	"	"	"	"	"
Chloroform	ND	5.0		"	"	"	"	"	"	"
Chloromethane	ND	5.0		"	"	"	"	"	"	"
2-Chlorotoluene	ND	5.0		"	"	"	"	"	"	"
4-Chlorotoluene	ND	5.0		"	"	"	"	"	"	"
Dibromochloromethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0		"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	"	"
Dibromomethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
Ethylbenzene	ND	5.0		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0		"	"	"	"	"	"	"
Isopropylbenzene	ND	5.0		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	5.0		"	"	"	"	"	"	"
Methylene chloride	ND	5.0		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB4-5 (1701037-07) Soil Sampled: 01/03/17 11:50 Received: 01/03/17 16:00										
Naphthalene	ND	5.0		µg/kg	1	B7A0452	01/04/17	01/04/17 21:11	EPA 8260B	
n-Propylbenzene	ND	5.0		"	"	"	"	"	"	"
Styrene	ND	5.0		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	"
Tetrachloroethene	ND	5.0		"	"	"	"	"	"	"
Toluene	ND	5.0		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0		"	"	"	"	"	"	"
Trichloroethene	ND	5.0		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.0		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	5.0		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	"
Vinyl chloride	ND	5.0		"	"	"	"	"	"	"
m,p-Xylene	ND	5.0		"	"	"	"	"	"	"
o-Xylene	ND	5.0		"	"	"	"	"	"	"
Surrogate: Dibromofluoromethane		101 %		80-120		"	"	"	"	"
Surrogate: Toluene-d8		105 %		81-117		"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		107 %		74-121		"	"	"	"	"

SB4-10 (1701037-08) Soil Sampled: 01/03/17 12:03 Received: 01/03/17 16:00										
Benzene	ND	4.2		µg/kg	1	B7A0452	01/04/17	01/04/17 21:52	EPA 8260B	
Bromobenzene	ND	4.2		"	"	"	"	"	"	"
Bromochloromethane	ND	4.2		"	"	"	"	"	"	"
Bromodichloromethane	ND	4.2		"	"	"	"	"	"	"
Bromoform	ND	4.2		"	"	"	"	"	"	"
Bromomethane	ND	4.2		"	"	"	"	"	"	"
n-Butylbenzene	ND	4.2		"	"	"	"	"	"	"
sec-Butylbenzene	ND	4.2		"	"	"	"	"	"	"
tert-Butylbenzene	ND	4.2		"	"	"	"	"	"	"
Carbon tetrachloride	ND	4.2		"	"	"	"	"	"	"
Chlorobenzene	ND	4.2		"	"	"	"	"	"	"
Chloroethane	ND	4.2		"	"	"	"	"	"	"
Chloroform	ND	4.2		"	"	"	"	"	"	"
Chloromethane	ND	4.2		"	"	"	"	"	"	"
2-Chlorotoluene	ND	4.2		"	"	"	"	"	"	"
4-Chlorotoluene	ND	4.2		"	"	"	"	"	"	"
Dibromochloromethane	ND	4.2		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB4-10 (1701037-08) Soil Sampled: 01/03/17 12:03 Received: 01/03/17 16:00										
1,2-Dibromo-3-chloropropane	ND	4.2		µg/kg	1	B7A0452	01/04/17	01/04/17 21:52	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	4.2		"	"	"	"	"	"	"
Dibromomethane	ND	4.2		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	4.2		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	4.2		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	4.2		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	4.2		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.2		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.2		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.2		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.2		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.2		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.2		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	4.2		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	4.2		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	4.2		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.2		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.2		"	"	"	"	"	"	"
Ethylbenzene	ND	4.2		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	4.2		"	"	"	"	"	"	"
Isopropylbenzene	ND	4.2		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	4.2		"	"	"	"	"	"	"
Methylene chloride	ND	4.2		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	4.2		"	"	"	"	"	"	"
Naphthalene	ND	4.2		"	"	"	"	"	"	"
n-Propylbenzene	ND	4.2		"	"	"	"	"	"	"
Styrene	ND	4.2		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	4.2		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	4.2		"	"	"	"	"	"	"
Tetrachloroethene	ND	4.2		"	"	"	"	"	"	"
Toluene	ND	4.2		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	4.2		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	4.2		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	4.2		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	4.2		"	"	"	"	"	"	"
Trichloroethene	ND	4.2		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	4.2		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	4.2		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	4.2		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	4.2		"	"	"	"	"	"	"
Vinyl chloride	ND	4.2		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB4-10 (1701037-08) Soil Sampled: 01/03/17 12:03 Received: 01/03/17 16:00									
m,p-Xylene	ND	4.2	µg/kg	1	B7A0452	01/04/17	01/04/17 21:52	EPA 8260B	
o-Xylene	ND	4.2	"	"	"	"	"	"	"
Surrogate: Dibromofluoromethane		97.2 %	80-120		"	"	"	"	"
Surrogate: Toluene-d8		98.8 %	81-117		"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		110 %	74-121		"	"	"	"	"
SB5-5 (1701037-09) Soil Sampled: 01/03/17 13:03 Received: 01/03/17 16:00									
Benzene	ND	7.8	µg/kg	1	B7A0452	01/04/17	01/04/17 22:32	EPA 8260B	
Bromobenzene	ND	7.8	"	"	"	"	"	"	"
Bromochloromethane	ND	7.8	"	"	"	"	"	"	"
Bromodichloromethane	ND	7.8	"	"	"	"	"	"	"
Bromoform	ND	7.8	"	"	"	"	"	"	"
Bromomethane	ND	7.8	"	"	"	"	"	"	"
n-Butylbenzene	37	7.8	"	"	"	"	"	"	"
sec-Butylbenzene	86	7.8	"	"	"	"	"	"	"
tert-Butylbenzene	ND	7.8	"	"	"	"	"	"	"
Carbon tetrachloride	ND	7.8	"	"	"	"	"	"	"
Chlorobenzene	ND	7.8	"	"	"	"	"	"	"
Chloroethane	ND	7.8	"	"	"	"	"	"	"
Chloroform	ND	7.8	"	"	"	"	"	"	"
Chloromethane	ND	7.8	"	"	"	"	"	"	"
2-Chlorotoluene	ND	7.8	"	"	"	"	"	"	"
4-Chlorotoluene	ND	7.8	"	"	"	"	"	"	"
Dibromochloromethane	ND	7.8	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	7.8	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	"
Dibromomethane	ND	7.8	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	7.8	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	7.8	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	7.8	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	7.8	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	7.8	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	7.8	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	7.8	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	7.8	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	7.8	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	7.8	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	7.8	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	7.8	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	7.8	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	7.8	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB5-5 (1701037-09) Soil Sampled: 01/03/17 13:03 Received: 01/03/17 16:00										
trans-1,3-Dichloropropene	ND	7.8		µg/kg	1	B7A0452	01/04/17	01/04/17 22:32	EPA 8260B	
Ethylbenzene	ND	7.8		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	7.8		"	"	"	"	"	"	"
Isopropylbenzene	73	7.8		"	"	"	"	"	"	"
p-Isopropyltoluene	25	7.8		"	"	"	"	"	"	"
Methylene chloride	ND	7.8		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	7.8		"	"	"	"	"	"	"
Naphthalene	24	7.8		"	"	"	"	"	"	"
n-Propylbenzene	140	7.8		"	"	"	"	"	"	"
Styrene	ND	7.8		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	7.8		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	7.8		"	"	"	"	"	"	"
Tetrachloroethene	ND	7.8		"	"	"	"	"	"	"
Toluene	ND	7.8		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	7.8		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	7.8		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	7.8		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	7.8		"	"	"	"	"	"	"
Trichloroethene	ND	7.8		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	7.8		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	7.8		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	630	7.8		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	330	7.8		"	"	"	"	"	"	"
Vinyl chloride	ND	7.8		"	"	"	"	"	"	"
m,p-Xylene	ND	7.8		"	"	"	"	"	"	"
o-Xylene	ND	7.8		"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		102 %		80-120		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		98.8 %		81-117		"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		110 %		74-121		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB5-10 (1701037-10) Soil Sampled: 01/03/17 13:20 Received: 01/03/17 16:00										
Benzene	ND	5.0		µg/kg	1	B7A0452	01/04/17	01/04/17 23:12	EPA 8260B	
Bromobenzene	ND	5.0		"	"	"	"	"	"	"
Bromochloromethane	ND	5.0		"	"	"	"	"	"	"
Bromodichloromethane	ND	5.0		"	"	"	"	"	"	"
Bromoform	ND	5.0		"	"	"	"	"	"	"
Bromomethane	ND	5.0		"	"	"	"	"	"	"
n-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
sec-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
tert-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
Carbon tetrachloride	ND	5.0		"	"	"	"	"	"	"
Chlorobenzene	ND	5.0		"	"	"	"	"	"	"
Chloroethane	ND	5.0		"	"	"	"	"	"	"
Chloroform	ND	5.0		"	"	"	"	"	"	"
Chloromethane	ND	5.0		"	"	"	"	"	"	"
2-Chlorotoluene	ND	5.0		"	"	"	"	"	"	"
4-Chlorotoluene	ND	5.0		"	"	"	"	"	"	"
Dibromochloromethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0		"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	"	"
Dibromomethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
Ethylbenzene	ND	5.0		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0		"	"	"	"	"	"	"
Isopropylbenzene	ND	5.0		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	5.0		"	"	"	"	"	"	"
Methylene chloride	ND	5.0		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB5-10 (1701037-10) Soil Sampled: 01/03/17 13:20 Received: 01/03/17 16:00										
Naphthalene	ND	5.0		µg/kg	1	B7A0452	01/04/17	01/04/17 23:12	EPA 8260B	
n-Propylbenzene	ND	5.0		"	"	"	"	"	"	"
Styrene	ND	5.0		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	"
Tetrachloroethene	ND	5.0		"	"	"	"	"	"	"
Toluene	ND	5.0		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0		"	"	"	"	"	"	"
Trichloroethene	ND	5.0		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.0		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	5.0		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	"
Vinyl chloride	ND	5.0		"	"	"	"	"	"	"
m,p-Xylene	ND	5.0		"	"	"	"	"	"	"
o-Xylene	ND	5.0		"	"	"	"	"	"	"
Surrogate: Dibromofluoromethane		94.2 %		80-120		"	"	"	"	"
Surrogate: Toluene-d8		95.0 %		81-117		"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		106 %		74-121		"	"	"	"	"

SB6-5 (1701037-11) Soil Sampled: 01/03/17 14:20 Received: 01/03/17 16:00

Benzene	ND	5.0		µg/kg	1	B7A0452	01/04/17	01/04/17 23:52	EPA 8260B	
Bromobenzene	ND	5.0		"	"	"	"	"	"	"
Bromochloromethane	ND	5.0		"	"	"	"	"	"	"
Bromodichloromethane	ND	5.0		"	"	"	"	"	"	"
Bromoform	ND	5.0		"	"	"	"	"	"	"
Bromomethane	ND	5.0		"	"	"	"	"	"	"
n-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
sec-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
tert-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
Carbon tetrachloride	ND	5.0		"	"	"	"	"	"	"
Chlorobenzene	ND	5.0		"	"	"	"	"	"	"
Chloroethane	ND	5.0		"	"	"	"	"	"	"
Chloroform	ND	5.0		"	"	"	"	"	"	"
Chloromethane	ND	5.0		"	"	"	"	"	"	"
2-Chlorotoluene	ND	5.0		"	"	"	"	"	"	"
4-Chlorotoluene	ND	5.0		"	"	"	"	"	"	"
Dibromochloromethane	ND	5.0		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB6-5 (1701037-11) Soil Sampled: 01/03/17 14:20 Received: 01/03/17 16:00									
1,2-Dibromo-3-chloropropane	ND	5.0	µg/kg	1	B7A0452	01/04/17	01/04/17 23:52	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	"
Dibromomethane	ND	5.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
Ethylbenzene	ND	5.0	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	"
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	"
Methylene chloride	ND	5.0	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	"
Naphthalene	ND	5.0	"	"	"	"	"	"	"
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	"
Styrene	ND	5.0	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	"
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	"
Toluene	ND	5.0	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	"
Trichloroethene	ND	5.0	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	"
Vinyl chloride	ND	5.0	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB6-5 (1701037-11) Soil Sampled: 01/03/17 14:20 Received: 01/03/17 16:00									
m,p-Xylene	ND	5.0	µg/kg	1	B7A0452	01/04/17	01/04/17 23:52	EPA 8260B	
o-Xylene	ND	5.0	"	"	"	"	"	"	"
Surrogate: Dibromofluoromethane		95.8 %	80-120		"	"	"	"	"
Surrogate: Toluene-d8		96.2 %	81-117		"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		90.3 %	74-121		"	"	"	"	"
SB6-10 (1701037-12) Soil Sampled: 01/03/17 14:31 Received: 01/03/17 16:00									
Benzene	ND	4.5	µg/kg	1	B7A0452	01/04/17	01/05/17 00:31	EPA 8260B	
Bromobenzene	ND	4.5	"	"	"	"	"	"	"
Bromochloromethane	ND	4.5	"	"	"	"	"	"	"
Bromodichloromethane	ND	4.5	"	"	"	"	"	"	"
Bromoform	ND	4.5	"	"	"	"	"	"	"
Bromomethane	ND	4.5	"	"	"	"	"	"	"
n-Butylbenzene	ND	4.5	"	"	"	"	"	"	"
sec-Butylbenzene	ND	4.5	"	"	"	"	"	"	"
tert-Butylbenzene	ND	4.5	"	"	"	"	"	"	"
Carbon tetrachloride	ND	4.5	"	"	"	"	"	"	"
Chlorobenzene	ND	4.5	"	"	"	"	"	"	"
Chloroethane	ND	4.5	"	"	"	"	"	"	"
Chloroform	ND	4.5	"	"	"	"	"	"	"
Chloromethane	ND	4.5	"	"	"	"	"	"	"
2-Chlorotoluene	ND	4.5	"	"	"	"	"	"	"
4-Chlorotoluene	ND	4.5	"	"	"	"	"	"	"
Dibromochloromethane	ND	4.5	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	4.5	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	4.5	"	"	"	"	"	"	"
Dibromomethane	ND	4.5	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	4.5	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.5	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.5	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.5	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	4.5	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	4.5	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB6-10 (1701037-12) Soil Sampled: 01/03/17 14:31 Received: 01/03/17 16:00									
trans-1,3-Dichloropropene	ND	4.5	µg/kg	1	B7A0452	01/04/17	01/05/17 00:31	EPA 8260B	
Ethylbenzene	ND	4.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.5	"	"	"	"	"	"	
Isopropylbenzene	ND	4.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.5	"	"	"	"	"	"	
Methylene chloride	ND	4.5	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	4.5	"	"	"	"	"	"	
Naphthalene	ND	4.5	"	"	"	"	"	"	
n-Propylbenzene	ND	4.5	"	"	"	"	"	"	
Styrene	ND	4.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
Tetrachloroethene	ND	4.5	"	"	"	"	"	"	
Toluene	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.5	"	"	"	"	"	"	
Trichloroethene	ND	4.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.5	"	"	"	"	"	"	
Vinyl chloride	ND	4.5	"	"	"	"	"	"	
m,p-Xylene	ND	4.5	"	"	"	"	"	"	
o-Xylene	ND	4.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		99.3 %		80-120	"	"	"	"	
Surrogate: Toluene-d8		99.8 %		81-117	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		74-121	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB7-5 (1701037-13) Soil Sampled: 01/03/17 14:50 Received: 01/03/17 16:00										
Benzene	ND	4.3		µg/kg	1	B7A0452	01/04/17	01/05/17 01:11	EPA 8260B	
Bromobenzene	ND	4.3		"	"	"	"	"	"	"
Bromochloromethane	ND	4.3		"	"	"	"	"	"	"
Bromodichloromethane	ND	4.3		"	"	"	"	"	"	"
Bromoform	ND	4.3		"	"	"	"	"	"	"
Bromomethane	ND	4.3		"	"	"	"	"	"	"
n-Butylbenzene	ND	4.3		"	"	"	"	"	"	"
sec-Butylbenzene	ND	4.3		"	"	"	"	"	"	"
tert-Butylbenzene	ND	4.3		"	"	"	"	"	"	"
Carbon tetrachloride	ND	4.3		"	"	"	"	"	"	"
Chlorobenzene	ND	4.3		"	"	"	"	"	"	"
Chloroethane	ND	4.3		"	"	"	"	"	"	"
Chloroform	ND	4.3		"	"	"	"	"	"	"
Chloromethane	ND	4.3		"	"	"	"	"	"	"
2-Chlorotoluene	ND	4.3		"	"	"	"	"	"	"
4-Chlorotoluene	ND	4.3		"	"	"	"	"	"	"
Dibromochloromethane	ND	4.3		"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	4.3		"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	4.3		"	"	"	"	"	"	"
Dibromomethane	ND	4.3		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	4.3		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	4.3		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	4.3		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	4.3		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.3		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.3		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.3		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.3		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.3		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.3		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	4.3		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	4.3		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	4.3		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.3		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.3		"	"	"	"	"	"	"
Ethylbenzene	ND	4.3		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	4.3		"	"	"	"	"	"	"
Isopropylbenzene	ND	4.3		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	4.3		"	"	"	"	"	"	"
Methylene chloride	ND	4.3		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	4.3		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting			Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units							
SB7-5 (1701037-13) Soil Sampled: 01/03/17 14:50 Received: 01/03/17 16:00										
Naphthalene	ND	4.3	µg/kg	1	B7A0452	01/04/17	01/05/17 01:11	EPA 8260B		
n-Propylbenzene	ND	4.3	"	"	"	"	"	"	"	"
Styrene	ND	4.3	"	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	4.3	"	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	4.3	"	"	"	"	"	"	"	"
Tetrachloroethene	ND	4.3	"	"	"	"	"	"	"	"
Toluene	ND	4.3	"	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	4.3	"	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	4.3	"	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	4.3	"	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	4.3	"	"	"	"	"	"	"	"
Trichloroethene	ND	4.3	"	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	4.3	"	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	4.3	"	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	4.3	"	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	4.3	"	"	"	"	"	"	"	"
Vinyl chloride	ND	4.3	"	"	"	"	"	"	"	"
m,p-Xylene	ND	4.3	"	"	"	"	"	"	"	"
o-Xylene	ND	4.3	"	"	"	"	"	"	"	"
Surrogate: Dibromofluoromethane		104 %		80-120	"	"	"	"	"	"
Surrogate: Toluene-d8		95.4 %		81-117	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		97.7 %		74-121	"	"	"	"	"	"

SB7-10 (1701037-14) Soil Sampled: 01/03/17 14:58 Received: 01/03/17 16:00										
Benzene	ND	4.4	µg/kg	1	B7A0452	01/04/17	01/05/17 01:50	EPA 8260B		
Bromobenzene	ND	4.4	"	"	"	"	"	"	"	"
Bromochloromethane	ND	4.4	"	"	"	"	"	"	"	"
Bromodichloromethane	ND	4.4	"	"	"	"	"	"	"	"
Bromoform	ND	4.4	"	"	"	"	"	"	"	"
Bromomethane	ND	4.4	"	"	"	"	"	"	"	"
n-Butylbenzene	ND	4.4	"	"	"	"	"	"	"	"
sec-Butylbenzene	ND	4.4	"	"	"	"	"	"	"	"
tert-Butylbenzene	ND	4.4	"	"	"	"	"	"	"	"
Carbon tetrachloride	ND	4.4	"	"	"	"	"	"	"	"
Chlorobenzene	ND	4.4	"	"	"	"	"	"	"	"
Chloroethane	ND	4.4	"	"	"	"	"	"	"	"
Chloroform	ND	4.4	"	"	"	"	"	"	"	"
Chloromethane	ND	4.4	"	"	"	"	"	"	"	"
2-Chlorotoluene	ND	4.4	"	"	"	"	"	"	"	"
4-Chlorotoluene	ND	4.4	"	"	"	"	"	"	"	"
Dibromochloromethane	ND	4.4	"	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB7-10 (1701037-14) Soil Sampled: 01/03/17 14:58 Received: 01/03/17 16:00										
1,2-Dibromo-3-chloropropane	ND	4.4		µg/kg	1	B7A0452	01/04/17	01/05/17 01:50	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	4.4		"	"	"	"	"	"	"
Dibromomethane	ND	4.4		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	4.4		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	4.4		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	4.4		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	4.4		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.4		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.4		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.4		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.4		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.4		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.4		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	4.4		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	4.4		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	4.4		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.4		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.4		"	"	"	"	"	"	"
Ethylbenzene	ND	4.4		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	4.4		"	"	"	"	"	"	"
Isopropylbenzene	ND	4.4		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	4.4		"	"	"	"	"	"	"
Methylene chloride	ND	4.4		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	4.4		"	"	"	"	"	"	"
Naphthalene	5.2	4.4		"	"	"	"	"	"	"
n-Propylbenzene	ND	4.4		"	"	"	"	"	"	"
Styrene	ND	4.4		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	4.4		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	4.4		"	"	"	"	"	"	"
Tetrachloroethene	ND	4.4		"	"	"	"	"	"	"
Toluene	ND	4.4		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	4.4		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	4.4		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	4.4		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	4.4		"	"	"	"	"	"	"
Trichloroethene	ND	4.4		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	4.4		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	4.4		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	4.4		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	4.4		"	"	"	"	"	"	"
Vinyl chloride	ND	4.4		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB7-10 (1701037-14) Soil Sampled: 01/03/17 14:58 Received: 01/03/17 16:00									
m,p-Xylene	ND	4.4	µg/kg	1	B7A0452	01/04/17	01/05/17 01:50	EPA 8260B	
o-Xylene	ND	4.4	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		94.7 %	80-120		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		83.6 %	81-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		91.1 %	74-121		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB1-5 (1701037-01) Soil Sampled: 01/03/17 10:02 Received: 01/03/17 16:00										
Acenaphthene	ND	0.33		mg/kg	1	B7A0331	01/04/17	01/05/17 09:38	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB1-5 (1701037-01) Soil Sampled: 01/03/17 10:02 Received: 01/03/17 16:00										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0331	01/04/17	01/05/17 09:38	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		96.2 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		79.2 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		73.0 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		99.1 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		89.8 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		78.7 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB1-10 (1701037-02) Soil Sampled: 01/03/17 10:17 Received: 01/03/17 16:00										
Acenaphthene	ND	0.33		mg/kg	1	B7A0331	01/04/17	01/05/17 10:19	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benztidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB1-10 (1701037-02) Soil Sampled: 01/03/17 10:17 Received: 01/03/17 16:00										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0331	01/04/17	01/05/17 10:19	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		99.8 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		79.6 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		83.8 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		101 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		94.2 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		82.6 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB2-5 (1701037-03) Soil Sampled: 01/03/17 10:38 Received: 01/03/17 16:00									
Acenaphthene	ND	1.6	mg/kg	5	B7A0331	01/04/17	01/05/17 10:59	EPA 8270C	
Acenaphthylene	ND	1.6	"	"	"	"	"	"	"
Anthracene	ND	1.6	"	"	"	"	"	"	"
Benzidine	ND	1.6	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	1.6	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	1.6	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	1.6	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	1.6	"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	1.6	"	"	"	"	"	"	"
Benzyl alcohol	ND	1.6	"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	1.6	"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	1.6	"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	1.6	"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	1.6	"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	1.6	"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	1.6	"	"	"	"	"	"	"
4-Chloroaniline	ND	1.6	"	"	"	"	"	"	"
2-Chlorophenol	ND	1.6	"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1.6	"	"	"	"	"	"	"
2-Chloronaphthalene	ND	1.6	"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	1.6	"	"	"	"	"	"	"
Chrysene	ND	1.6	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	1.6	"	"	"	"	"	"	"
Dibenzofuran	ND	1.6	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	1.6	"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1.6	"	"	"	"	"	"	"
Diethyl phthalate	ND	1.6	"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1.6	"	"	"	"	"	"	"
Dimethyl phthalate	ND	1.6	"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	1.6	"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	1.6	"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	1.6	"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	1.6	"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1.6	"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	1.6	"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	1.6	"	"	"	"	"	"	"
Fluoranthene	ND	1.6	"	"	"	"	"	"	"
Fluorene	ND	1.6	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB2-5 (1701037-03) Soil Sampled: 01/03/17 10:38 Received: 01/03/17 16:00									
Hexachlorobenzene	ND	1.6	mg/kg	5	B7A0331	01/04/17	01/05/17 10:59	EPA 8270C	
Hexachlorobutadiene	ND	1.6	"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1.6	"	"	"	"	"	"	"
Hexachloroethane	ND	1.6	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	1.6	"	"	"	"	"	"	"
Isophorone	ND	1.6	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	1.6	"	"	"	"	"	"	"
2-Methylphenol	ND	1.6	"	"	"	"	"	"	"
4-Methylphenol	ND	1.6	"	"	"	"	"	"	"
Naphthalene	ND	1.6	"	"	"	"	"	"	"
2-Nitroaniline	ND	1.6	"	"	"	"	"	"	"
3-Nitroaniline	ND	1.6	"	"	"	"	"	"	"
4-Nitroaniline	ND	1.6	"	"	"	"	"	"	"
Nitrobenzene	ND	1.6	"	"	"	"	"	"	"
2-Nitrophenol	ND	1.6	"	"	"	"	"	"	"
4-Nitrophenol	ND	1.6	"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	1.6	"	"	"	"	"	"	"
Diphenylamine	ND	1.6	"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	1.6	"	"	"	"	"	"	"
Pentachlorophenol	ND	1.6	"	"	"	"	"	"	"
Phenanthrene	ND	1.6	"	"	"	"	"	"	"
Phenol	ND	1.6	"	"	"	"	"	"	"
Pyrene	ND	1.6	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1.6	"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1.6	"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		100 %		25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		76.6 %		24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		65.5 %		23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		94.6 %		30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		106 %		19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		84.1 %		18-137	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB2-10 (1701037-04) Soil Sampled: 01/03/17 10:49 Received: 01/03/17 16:00										
Acenaphthene	ND	0.33		mg/kg	1	B7A0331	01/04/17	01/05/17 11:39	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB2-10 (1701037-04) Soil Sampled: 01/03/17 10:49 Received: 01/03/17 16:00										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0331	01/04/17	01/05/17 11:39	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		112 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		89.2 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		85.3 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		114 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		89.6 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		87.4 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB3-5 (1701037-05) Soil Sampled: 01/03/17 11:10 Received: 01/03/17 16:00									
Acenaphthene	ND	1.6	mg/kg	5	B7A0331	01/04/17	01/05/17 12:19	EPA 8270C	
Acenaphthylene	ND	1.6	"	"	"	"	"	"	"
Anthracene	ND	1.6	"	"	"	"	"	"	"
Benzidine	ND	1.6	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	1.6	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	1.6	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	1.6	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	1.6	"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	1.6	"	"	"	"	"	"	"
Benzyl alcohol	ND	1.6	"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	1.6	"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	1.6	"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	1.6	"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	1.6	"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	1.6	"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	1.6	"	"	"	"	"	"	"
4-Chloroaniline	ND	1.6	"	"	"	"	"	"	"
2-Chlorophenol	ND	1.6	"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1.6	"	"	"	"	"	"	"
2-Chloronaphthalene	ND	1.6	"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	1.6	"	"	"	"	"	"	"
Chrysene	ND	1.6	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	1.6	"	"	"	"	"	"	"
Dibenzofuran	ND	1.6	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	1.6	"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1.6	"	"	"	"	"	"	"
Diethyl phthalate	ND	1.6	"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1.6	"	"	"	"	"	"	"
Dimethyl phthalate	ND	1.6	"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	1.6	"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	1.6	"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	1.6	"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	1.6	"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1.6	"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	1.6	"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	1.6	"	"	"	"	"	"	"
Fluoranthene	ND	1.6	"	"	"	"	"	"	"
Fluorene	ND	1.6	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB3-5 (1701037-05) Soil Sampled: 01/03/17 11:10 Received: 01/03/17 16:00									
Hexachlorobenzene	ND	1.6	mg/kg	5	B7A0331	01/04/17	01/05/17 12:19	EPA 8270C	
Hexachlorobutadiene	ND	1.6	"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1.6	"	"	"	"	"	"	"
Hexachloroethane	ND	1.6	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	1.6	"	"	"	"	"	"	"
Isophorone	ND	1.6	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	1.6	"	"	"	"	"	"	"
2-Methylphenol	ND	1.6	"	"	"	"	"	"	"
4-Methylphenol	ND	1.6	"	"	"	"	"	"	"
Naphthalene	ND	1.6	"	"	"	"	"	"	"
2-Nitroaniline	ND	1.6	"	"	"	"	"	"	"
3-Nitroaniline	ND	1.6	"	"	"	"	"	"	"
4-Nitroaniline	ND	1.6	"	"	"	"	"	"	"
Nitrobenzene	ND	1.6	"	"	"	"	"	"	"
2-Nitrophenol	ND	1.6	"	"	"	"	"	"	"
4-Nitrophenol	ND	1.6	"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	1.6	"	"	"	"	"	"	"
Diphenylamine	ND	1.6	"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	1.6	"	"	"	"	"	"	"
Pentachlorophenol	ND	1.6	"	"	"	"	"	"	"
Phenanthrene	ND	1.6	"	"	"	"	"	"	"
Phenol	ND	1.6	"	"	"	"	"	"	"
Pyrene	ND	1.6	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1.6	"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1.6	"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		<i>113 %</i>		<i>25-121</i>					
<i>Surrogate: Phenol-d6</i>		<i>95.4 %</i>		<i>24-113</i>					
<i>Surrogate: Nitrobenzene-d5</i>		<i>91.6 %</i>		<i>23-120</i>					
<i>Surrogate: 2-Fluorobiphenyl</i>		<i>85.0 %</i>		<i>30-115</i>					
<i>Surrogate: 2,4,6-Tribromophenol</i>		<i>97.6 %</i>		<i>19-122</i>					
<i>Surrogate: Terphenyl-d14</i>		<i>112 %</i>		<i>18-137</i>					

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB3-10 (1701037-06) Soil Sampled: 01/03/17 11:24 Received: 01/03/17 16:00										
Acenaphthene	ND	1.6		mg/kg	5	B7A0331	01/04/17	01/05/17 12:59	EPA 8270C	
Acenaphthylene	ND	1.6		"	"	"	"	"	"	"
Anthracene	ND	1.6		"	"	"	"	"	"	"
Benzidine	ND	1.6		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	1.6		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	1.6		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	1.6		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	1.6		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	1.6		"	"	"	"	"	"	"
Benzyl alcohol	ND	1.6		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	1.6		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	1.6		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	1.6		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	1.6		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	1.6		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	1.6		"	"	"	"	"	"	"
4-Chloroaniline	ND	1.6		"	"	"	"	"	"	"
2-Chlorophenol	ND	1.6		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1.6		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	1.6		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	1.6		"	"	"	"	"	"	"
Chrysene	ND	1.6		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	1.6		"	"	"	"	"	"	"
Dibenzofuran	ND	1.6		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.6		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.6		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.6		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	1.6		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1.6		"	"	"	"	"	"	"
Diethyl phthalate	ND	1.6		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1.6		"	"	"	"	"	"	"
Dimethyl phthalate	ND	1.6		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	1.6		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	1.6		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	1.6		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	1.6		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1.6		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	1.6		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	1.6		"	"	"	"	"	"	"
Fluoranthene	ND	1.6		"	"	"	"	"	"	"
Fluorene	ND	1.6		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB3-10 (1701037-06) Soil Sampled: 01/03/17 11:24 Received: 01/03/17 16:00									
Hexachlorobenzene	ND	1.6	mg/kg	5	B7A0331	01/04/17	01/05/17 12:59	EPA 8270C	
Hexachlorobutadiene	ND	1.6	"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1.6	"	"	"	"	"	"	"
Hexachloroethane	ND	1.6	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	1.6	"	"	"	"	"	"	"
Isophorone	ND	1.6	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	1.6	"	"	"	"	"	"	"
2-Methylphenol	ND	1.6	"	"	"	"	"	"	"
4-Methylphenol	ND	1.6	"	"	"	"	"	"	"
Naphthalene	ND	1.6	"	"	"	"	"	"	"
2-Nitroaniline	ND	1.6	"	"	"	"	"	"	"
3-Nitroaniline	ND	1.6	"	"	"	"	"	"	"
4-Nitroaniline	ND	1.6	"	"	"	"	"	"	"
Nitrobenzene	ND	1.6	"	"	"	"	"	"	"
2-Nitrophenol	ND	1.6	"	"	"	"	"	"	"
4-Nitrophenol	ND	1.6	"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	1.6	"	"	"	"	"	"	"
Diphenylamine	ND	1.6	"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	1.6	"	"	"	"	"	"	"
Pentachlorophenol	ND	1.6	"	"	"	"	"	"	"
Phenanthrene	ND	1.6	"	"	"	"	"	"	"
Phenol	ND	1.6	"	"	"	"	"	"	"
Pyrene	ND	1.6	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1.6	"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1.6	"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		97.0 %		25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		81.6 %		24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		71.5 %		23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		97.0 %		30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		115 %		19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		94.0 %		18-137	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB4-5 (1701037-07) Soil Sampled: 01/03/17 11:50 Received: 01/03/17 16:00										
Acenaphthene	ND	0.33		mg/kg	1	B7A0331	01/04/17	01/05/17 13:38	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB4-5 (1701037-07) Soil Sampled: 01/03/17 11:50 Received: 01/03/17 16:00										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0331	01/04/17	01/05/17 13:38	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		102 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		85.6 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		80.5 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		113 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		92.0 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		95.8 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB4-10 (1701037-08) Soil Sampled: 01/03/17 12:03 Received: 01/03/17 16:00										
Acenaphthene	ND	0.33		mg/kg	1	B7A0331	01/04/17	01/05/17 14:18	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB4-10 (1701037-08) Soil Sampled: 01/03/17 12:03 Received: 01/03/17 16:00										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0331	01/04/17	01/05/17 14:18	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		99.2 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		79.2 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		76.0 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		105 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		79.4 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		91.3 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB5-5 (1701037-09) Soil Sampled: 01/03/17 13:03 Received: 01/03/17 16:00										
Acenaphthene	ND	0.33		mg/kg	1	B7A0331	01/04/17	01/05/17 14:59	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB5-5 (1701037-09) Soil Sampled: 01/03/17 13:03 Received: 01/03/17 16:00										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0331	01/04/17	01/05/17 14:59	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		93.6 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		68.0 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		108 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		96.7 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		72.0 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		99.7 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB5-10 (1701037-10) Soil Sampled: 01/03/17 13:20 Received: 01/03/17 16:00										
Acenaphthene	ND	0.33		mg/kg	1	B7A0331	01/04/17	01/05/17 15:39	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benztidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB5-10 (1701037-10) Soil Sampled: 01/03/17 13:20 Received: 01/03/17 16:00										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0331	01/04/17	01/05/17 15:39	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		90.8 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		95.2 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		75.4 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		114 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		78.4 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		120 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB6-5 (1701037-11) Soil Sampled: 01/03/17 14:20 Received: 01/03/17 16:00										
Acenaphthene	ND	0.33		mg/kg	1	B7A0331	01/04/17	01/05/17 16:19	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB6-5 (1701037-11) Soil Sampled: 01/03/17 14:20 Received: 01/03/17 16:00										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0331	01/04/17	01/05/17 16:19	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		106 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		83.2 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		70.0 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		104 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		85.4 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		127 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB6-10 (1701037-12) Soil Sampled: 01/03/17 14:31 Received: 01/03/17 16:00										
Acenaphthene	ND	0.33		mg/kg	1	B7A0331	01/04/17	01/05/17 17:00	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB6-10 (1701037-12) Soil Sampled: 01/03/17 14:31 Received: 01/03/17 16:00										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0331	01/04/17	01/05/17 17:00	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		102 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		110 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		105 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		106 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		88.2 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		122 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB7-5 (1701037-13) Soil Sampled: 01/03/17 14:50 Received: 01/03/17 16:00										
Acenaphthene	ND	0.33		mg/kg	1	B7A0331	01/04/17	01/05/17 17:40	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB7-5 (1701037-13) Soil Sampled: 01/03/17 14:50 Received: 01/03/17 16:00										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0331	01/04/17	01/05/17 17:40	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		98.0 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		79.6 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		64.0 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		96.7 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		85.4 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		99.1 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB7-10 (1701037-14) Soil Sampled: 01/03/17 14:58 Received: 01/03/17 16:00										
Acenaphthene	ND	0.33		mg/kg	1	B7A0331	01/04/17	01/05/17 18:20	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB7-10 (1701037-14) Soil Sampled: 01/03/17 14:58 Received: 01/03/17 16:00										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0331	01/04/17	01/05/17 18:20	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		98.2 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		85.6 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		70.3 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		104 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		93.6 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		114 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0460 - EPA 3050B

Blank (B7A0460-BLK1)

Prepared: 01/04/17 Analyzed: 01/05/17

Antimony	ND	2.5	mg/kg							
Arsenic	ND	3.5	"							
Barium	ND	6.5	"							
Beryllium	ND	0.50	"							
Cadmium	ND	0.50	"							
Chromium	ND	3.0	"							
Cobalt	ND	2.5	"							
Copper	ND	2.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	1.0	"							
Nickel	ND	4.0	"							
Selenium	ND	6.0	"							
Silver	ND	1.0	"							
Thallium	ND	2.5	"							
Vanadium	ND	6.0	"							
Zinc	ND	10	"							

LCS (B7A0460-BS1)

Prepared: 01/04/17 Analyzed: 01/05/17

Antimony	108	2.5	mg/kg	100	108	75-125
Arsenic	99.7	3.5	"	100	99.7	78-122
Barium	105	6.5	"	100	105	80-120
Beryllium	102	0.50	"	100	102	80-120
Cadmium	107	0.50	"	100	107	80-120
Chromium	104	3.0	"	100	104	80-120
Cobalt	109	2.5	"	100	109	80-120
Copper	107	2.0	"	100	107	78-122
Lead	103	3.0	"	100	103	80-120
Molybdenum	102	1.0	"	100	102	80-120
Nickel	108	4.0	"	100	108	80-120
Selenium	102	6.0	"	100	102	76-124
Silver	77.7	1.0	"	100	77.7	60-140
Thallium	104	2.5	"	100	104	80-120
Vanadium	102	6.0	"	100	102	80-120
Zinc	99.3	10	"	100	99.3	80-120

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0460 - EPA 3050B

LCS Dup (B7A0460-BSD1)

Prepared: 01/04/17 Analyzed: 01/05/17

Antimony	106	2.5	mg/kg	100		106	75-125	1.87	20	
Arsenic	101	3.5	"	100		101	78-122	1.30	20	
Barium	103	6.5	"	100		103	80-120	1.92	20	
Beryllium	103	0.50	"	100		103	80-120	0.976	20	
Cadmium	106	0.50	"	100		106	80-120	0.939	20	
Chromium	103	3.0	"	100		103	80-120	0.966	20	
Cobalt	108	2.5	"	100		108	80-120	0.922	20	
Copper	110	2.0	"	100		110	78-122	2.76	20	
Lead	104	3.0	"	100		104	80-120	0.966	20	
Molybdenum	101	1.0	"	100		101	80-120	0.985	20	
Nickel	107	4.0	"	100		107	80-120	0.930	20	
Selenium	101	6.0	"	100		101	76-124	0.985	20	
Silver	76.2	1.0	"	100		76.2	60-140	1.95	40	
Thallium	102	2.5	"	100		102	80-120	1.94	20	
Vanadium	101	6.0	"	100		101	80-120	0.985	20	
Zinc	98.6	10	"	100		98.6	80-120	0.707	20	

Matrix Spike (B7A0460-MS1)

Source: 1701037-01

Prepared: 01/04/17 Analyzed: 01/05/17

Antimony	85.8	2.3	mg/kg	90.4	1.2	93.6	60-140			
Arsenic	88.4	3.2	"	90.4	3.7	93.7	70-130			
Barium	251	5.9	"	90.4	110	156	70-130			QM-07
Beryllium	86.4	0.45	"	90.4	0.32	95.2	70-130			
Cadmium	87.6	0.45	"	90.4	0.075	96.8	70-130			
Chromium	112	2.7	"	90.4	28	92.9	70-130			
Cobalt	99.5	2.3	"	90.4	8.6	101	70-130			
Copper	124	1.8	"	90.4	37	96.2	70-130			
Lead	116	2.7	"	90.4	45	78.5	70-130			
Molybdenum	88.0	0.90	"	90.4	0.65	96.6	70-130			
Nickel	115	3.6	"	90.4	13	113	70-130			
Selenium	87.3	5.4	"	90.4	ND	96.6	70-130			
Silver	90.1	0.90	"	90.4	ND	99.7	60-140			
Thallium	84.0	2.3	"	90.4	1.6	91.2	70-130			
Vanadium	127	5.4	"	90.4	36	101	70-130			
Zinc	167	9.0	"	90.4	93	81.9	70-130			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0460 - EPA 3050B

Matrix Spike Dup (B7A0460-MSD1)

Source: 1701037-01

Prepared: 01/04/17

Analyzed: 01/05/17

Antimony	85.8	2.3	mg/kg	90.5	1.2	93.5	60-140	0.00	20	
Arsenic	88.8	3.2	"	90.5	3.7	94.0	70-130	0.451	20	
Barium	251	5.9	"	90.5	110	156	70-130	0.00	20	QM-07
Beryllium	86.6	0.45	"	90.5	0.32	95.3	70-130	0.231	20	
Cadmium	87.7	0.45	"	90.5	0.075	96.8	70-130	0.114	20	
Chromium	113	2.7	"	90.5	28	93.9	70-130	0.889	20	
Cobalt	99.7	2.3	"	90.5	8.6	101	70-130	0.201	20	
Copper	127	1.8	"	90.5	37	99.4	70-130	2.39	30	
Lead	116	2.7	"	90.5	45	78.5	70-130	0.00	30	
Molybdenum	88.6	0.90	"	90.5	0.65	97.2	70-130	0.680	20	
Nickel	100	3.6	"	90.5	13	96.1	70-130	14.0	20	
Selenium	86.3	5.4	"	90.5	ND	95.4	70-130	1.15	20	
Silver	83.6	0.90	"	90.5	ND	92.4	60-140	7.48	40	
Thallium	83.7	2.3	"	90.5	1.6	90.7	70-130	0.358	20	
Vanadium	127	5.4	"	90.5	36	101	70-130	0.00	20	
Zinc	165	9.0	"	90.5	93	79.6	70-130	1.20	20	

Batch B7A0461 - EPA 3050B

Blank (B7A0461-BLK1)

Prepared: 01/04/17 Analyzed: 01/05/17

Antimony	ND	2.5	mg/kg
Arsenic	ND	3.5	"
Barium	ND	6.5	"
Beryllium	ND	0.50	"
Cadmium	ND	0.50	"
Chromium	ND	3.0	"
Cobalt	ND	2.5	"
Copper	ND	2.0	"
Lead	ND	3.0	"
Molybdenum	ND	1.0	"
Nickel	ND	4.0	"
Selenium	ND	6.0	"
Silver	ND	1.0	"
Thallium	ND	2.5	"
Vanadium	ND	6.0	"
Zinc	ND	10	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0461 - EPA 3050B

LCS (B7A0461-BS1)

Prepared: 01/04/17 Analyzed: 01/05/17

Antimony	109	2.5	mg/kg	100		109	75-125			
Arsenic	101	3.5	"	100		101	78-122			
Barium	103	6.5	"	100		103	80-120			
Beryllium	101	0.50	"	100		101	80-120			
Cadmium	105	0.50	"	100		105	80-120			
Chromium	102	3.0	"	100		102	80-120			
Cobalt	107	2.5	"	100		107	80-120			
Copper	106	2.0	"	100		106	78-122			
Lead	103	3.0	"	100		103	80-120			
Molybdenum	101	1.0	"	100		101	80-120			
Nickel	106	4.0	"	100		106	80-120			
Selenium	102	6.0	"	100		102	76-124			
Silver	102	1.0	"	100		102	60-140			
Thallium	102	2.5	"	100		102	80-120			
Vanadium	102	6.0	"	100		102	80-120			
Zinc	111	10	"	100		111	80-120			

LCS Dup (B7A0461-BS1)

Prepared: 01/04/17 Analyzed: 01/05/17

Antimony	109	2.5	mg/kg	100		109	75-125	0.00	20	
Arsenic	102	3.5	"	100		102	78-122	0.985	20	
Barium	102	6.5	"	100		102	80-120	0.976	20	
Beryllium	99.2	0.50	"	100		99.2	80-120	1.80	20	
Cadmium	104	0.50	"	100		104	80-120	0.957	20	
Chromium	101	3.0	"	100		101	80-120	0.985	20	
Cobalt	106	2.5	"	100		106	80-120	0.939	20	
Copper	107	2.0	"	100		107	78-122	0.939	20	
Lead	102	3.0	"	100		102	80-120	0.976	20	
Molybdenum	102	1.0	"	100		102	80-120	0.985	20	
Nickel	107	4.0	"	100		107	80-120	0.939	20	
Selenium	103	6.0	"	100		103	76-124	0.976	20	
Silver	109	1.0	"	100		109	60-140	6.64	40	
Thallium	103	2.5	"	100		103	80-120	0.976	20	
Vanadium	101	6.0	"	100		101	80-120	0.985	20	
Zinc	110	10	"	100		110	80-120	0.905	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0461 - EPA 3050B

Matrix Spike (B7A0461-MS1)

Source: 1701037-11

Prepared: 01/04/17

Analyzed: 01/05/17

Antimony	95.7	2.5	mg/kg	95.9	0.99	98.8	60-140			
Arsenic	95.4	3.5	"	95.9	1.3	98.1	70-130			
Barium	167	6.5	"	95.9	79	91.8	70-130			
Beryllium	94.0	0.50	"	95.9	0.074	97.9	70-130			
Cadmium	93.0	0.50	"	95.9	ND	97.0	70-130			
Chromium	107	3.0	"	95.9	14	97.0	70-130			
Cobalt	102	2.5	"	95.9	6.3	99.8	70-130			
Copper	105	2.0	"	95.9	14	94.9	70-130			
Lead	95.0	3.0	"	95.9	3.4	95.5	70-130			
Molybdenum	95.8	1.0	"	95.9	ND	99.9	70-130			
Nickel	108	4.0	"	95.9	12	100	70-130			
Selenium	96.1	6.0	"	95.9	ND	100	70-130			
Silver	98.7	1.0	"	95.9	ND	103	60-140			
Thallium	89.5	2.5	"	95.9	1.5	91.8	70-130			
Vanadium	111	6.0	"	95.9	21	93.8	70-130			
Zinc	98.5	10	"	95.9	26	75.6	70-130			

Matrix Spike Dup (B7A0461-MSD1)

Source: 1701037-11

Prepared: 01/04/17

Analyzed: 01/05/17

Antimony	95.3	2.5	mg/kg	95.7	0.99	98.5	60-140	0.419	20	
Arsenic	95.5	3.5	"	95.7	1.3	98.4	70-130	0.105	20	
Barium	164	6.5	"	95.7	79	88.8	70-130	1.81	20	
Beryllium	92.7	0.50	"	95.7	0.074	96.8	70-130	1.39	20	
Cadmium	92.5	0.50	"	95.7	ND	96.7	70-130	0.539	20	
Chromium	100	3.0	"	95.7	14	89.9	70-130	6.76	20	
Cobalt	102	2.5	"	95.7	6.3	100	70-130	0.00	20	
Copper	104	2.0	"	95.7	14	94.0	70-130	0.957	30	
Lead	94.9	3.0	"	95.7	3.4	95.6	70-130	0.105	30	
Molybdenum	95.3	1.0	"	95.7	ND	99.6	70-130	0.523	20	
Nickel	108	4.0	"	95.7	12	100	70-130	0.00	20	
Selenium	95.9	6.0	"	95.7	ND	100	70-130	0.208	20	
Silver	94.4	1.0	"	95.7	ND	98.6	60-140	4.45	40	
Thallium	89.0	2.5	"	95.7	1.5	91.4	70-130	0.560	20	
Vanadium	110	6.0	"	95.7	21	93.0	70-130	0.905	20	
Zinc	98.5	10	"	95.7	26	75.8	70-130	0.00	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0565 - EPA 3060A

Blank (B7A0565-BLK1)				Prepared: 01/05/17 Analyzed: 01/09/17						
Hexavalent Chromium	ND	0.21	mg/kg							
LCS (B7A0565-BS1)				Prepared: 01/05/17 Analyzed: 01/09/17						
Hexavalent Chromium	0.151	0.21	mg/kg	0.150		101	80-120			
Matrix Spike (B7A0565-MS1)				Source: 1701037-01		Prepared: 01/05/17 Analyzed: 01/09/17				
Hexavalent Chromium	0.154	0.21	mg/kg	0.144	ND	107	75-125			
Matrix Spike Dup (B7A0565-MSD1)				Source: 1701037-01		Prepared: 01/05/17 Analyzed: 01/09/17				
Hexavalent Chromium	0.151	0.21	mg/kg	0.144	ND	105	75-125	1.97	20	

Batch B7A0566 - EPA 3060A

Blank (B7A0566-BLK1)				Prepared: 01/05/17 Analyzed: 01/09/17						
Hexavalent Chromium	ND	0.21	mg/kg							
LCS (B7A0566-BS1)				Prepared: 01/05/17 Analyzed: 01/09/17						
Hexavalent Chromium	0.144	0.21	mg/kg	0.150		96.0	80-120			
Matrix Spike (B7A0566-MS1)				Source: 1701037-11		Prepared: 01/05/17 Analyzed: 01/09/17				
Hexavalent Chromium	0.145	0.21	mg/kg	0.150	ND	96.7	75-125			
Matrix Spike Dup (B7A0566-MSD1)				Source: 1701037-11		Prepared: 01/05/17 Analyzed: 01/09/17				
Hexavalent Chromium	0.150	0.21	mg/kg	0.150	ND	100	75-125	3.39	20	

Batch B7A0568 - EPA 7471A

Blank (B7A0568-BLK1)				Prepared: 01/05/17 Analyzed: 01/06/17						
Mercury	ND	0.01	mg/kg							

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0568 - EPA 7471A

LCS (B7A0568-BS1)

Prepared: 01/05/17 Analyzed: 01/06/17

Mercury	0.17	0.01	mg/kg	0.167		102	70-130			
---------	------	------	-------	-------	--	-----	--------	--	--	--

Matrix Spike (B7A0568-MS1)

Source: 1701037-01

Prepared: 01/05/17 Analyzed: 01/06/17

Mercury	4.09	0.12	mg/kg	0.142	3.56	373	70-130			QM-07
---------	------	------	-------	-------	------	-----	--------	--	--	-------

Matrix Spike Dup (B7A0568-MSD1)

Source: 1701037-01

Prepared: 01/05/17 Analyzed: 01/06/17

Mercury	4.07	0.12	mg/kg	0.143	3.56	357	70-130	0.490	30	QM-07
---------	------	------	-------	-------	------	-----	--------	-------	----	-------

Batch B7A0569 - EPA 7471A

Blank (B7A0569-BLK1)

Prepared: 01/05/17 Analyzed: 01/06/17

Mercury	ND	0.01	mg/kg							
---------	----	------	-------	--	--	--	--	--	--	--

LCS (B7A0569-BS1)

Prepared: 01/05/17 Analyzed: 01/06/17

Mercury	0.17	0.01	mg/kg	0.167		102	70-130			
---------	------	------	-------	-------	--	-----	--------	--	--	--

Matrix Spike (B7A0569-MS1)

Source: 1701037-11

Prepared: 01/05/17 Analyzed: 01/06/17

Mercury	0.19	0.01	mg/kg	0.156	0.05	89.7	70-130			
---------	------	------	-------	-------	------	------	--------	--	--	--

Matrix Spike Dup (B7A0569-MSD1)

Source: 1701037-11

Prepared: 01/05/17 Analyzed: 01/06/17

Mercury	0.19	0.01	mg/kg	0.156	0.05	89.7	70-130	0.00	30	
---------	------	------	-------	-------	------	------	--------	------	----	--

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Total Volatile Petroleum Hydrocarbons (TVPH) by GC/FID - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0451 - EPA 5035 P & T

Blank (B7A0451-BLK1)				Prepared & Analyzed: 01/04/17						
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>0.0178</i>		"	<i>0.0200</i>		<i>89.0</i>	<i>35-130</i>			
LCS (B7A0451-BS1)				Prepared & Analyzed: 01/04/17						
Gasoline Range Hydrocarbons (C4-C12)	0.510	0.050	mg/kg	0.600		85.0	85-115			
Matrix Spike (B7A0451-MS1)				Source: 1701037-13 Prepared & Analyzed: 01/04/17						
Gasoline Range Hydrocarbons (C4-C12)	0.619	0.050	mg/kg	0.600	ND	103	50-150			
Matrix Spike Dup (B7A0451-MSD1)				Source: 1701037-13 Prepared & Analyzed: 01/04/17						
Gasoline Range Hydrocarbons (C4-C12)	0.542	0.050	mg/kg	0.600	ND	90.3	50-150	13.3	30	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Total Petroleum Hydrocarbons (TPH) by GC/FID - Quality Control
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0330 - EPA 3550B Solid Ext

Blank (B7A0330-BLK1)

Prepared & Analyzed: 01/03/17

Diesel Range Organics (C10-C24)	ND	5.0	mg/kg							
Oil Range Organics (C22-C36)	ND	5.0	"							
Surrogate: <i>o</i> -Terphenyl	2.11		"	2.50		84.4	60-175			
Surrogate: <i>o</i> -Terphenyl	2.11		"	2.50		84.4	60-175			

LCS (B7A0330-BS1)

Prepared & Analyzed: 01/03/17

Diesel Range Organics (C10-C24)	42.4	5.0	mg/kg	50.0		84.8	80-120			
Diesel Range Organics (C10-C24)	42.4	5.0	"	50.0		84.8	80-120			

Matrix Spike (B7A0330-MS1)

Source: 1612353-02

Prepared & Analyzed: 01/03/17

Diesel Range Organics (C10-C24)	41.2	5.0	mg/kg	50.0	ND	82.4	50-150			
Diesel Range Organics (C10-C24)	41.2	5.0	"	50.0	ND	82.4	50-150			

Matrix Spike Dup (B7A0330-MSD1)

Source: 1612353-02

Prepared & Analyzed: 01/03/17

Diesel Range Organics (C10-C24)	45.0	5.0	mg/kg	50.0	ND	90.0	50-150	8.82	30	
Diesel Range Organics (C10-C24)	45.0	5.0	"	50.0	ND	90.0	50-150	8.82	30	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0330 - EPA 3550B Solid Ext

Blank (B7A0330-BLK1)

Prepared & Analyzed: 01/03/17

HC < C8	ND	1.0	mg/kg							
C8 <= HC < C9	ND	1.0	"							
C9 <= HC < C10	ND	1.0	"							
C10 <= HC < C11	ND	1.0	"							
C11 <= HC < C12	ND	1.0	"							
C12 <= HC < C14	ND	1.0	"							
C14 <= HC < C16	ND	1.0	"							
C16 <= HC < C18	ND	1.0	"							
C18 <= HC < C20	ND	1.0	"							
C20 <= HC < C24	ND	1.0	"							
C24 <= HC < C28	ND	1.0	"							
C28 <= HC < C32	ND	1.0	"							
HC >= C32	ND	1.0	"							
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"							
<i>Surrogate: o-Terphenyl</i>	2.11		"	2.50		84.4	60-175			

LCS (B7A0330-BS1)

Prepared & Analyzed: 01/03/17

Diesel Range Organics (C10-C24)	42.4	5.0	mg/kg	50.0		84.8	80-120			
---------------------------------	------	-----	-------	------	--	------	--------	--	--	--

Matrix Spike (B7A0330-MS1)

Source: 1612353-02

Prepared & Analyzed: 01/03/17

Diesel Range Organics (C10-C24)	41.2	5.0	mg/kg	50.0	ND	82.4	50-150			
---------------------------------	------	-----	-------	------	----	------	--------	--	--	--

Matrix Spike Dup (B7A0330-MSD1)

Source: 1612353-02

Prepared & Analyzed: 01/03/17

Diesel Range Organics (C10-C24)	45.0	5.0	mg/kg	50.0	ND	90.0	50-150	8.82	30	
---------------------------------	------	-----	-------	------	----	------	--------	------	----	--

Batch B7A0451 - EPA 5035 P & T

Blank (B7A0451-BLK1)

Prepared & Analyzed: 01/04/17

C5 <= HC < C6	ND	0.010	mg/kg							
C6 <= HC < C7	ND	0.010	"							
C7 <= HC < C8	ND	0.010	"							
C8 <= HC < C9	ND	0.010	"							
C9 <= HC < C10	ND	0.010	"							
C10 <= HC < C11	ND	0.010	"							
C11 <= HC < C12	ND	0.010	"							
HC >= C12	ND	0.010	"							
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.0178		"	0.0200		89.0	35-130			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0451 - EPA 5035 P & T

LCS (B7A0451-BS1)

Prepared & Analyzed: 01/04/17

Gasoline Range Hydrocarbons (C4-C12)	0.510	0.050	mg/kg	0.600		85.0	80-120			
--------------------------------------	-------	-------	-------	-------	--	------	--------	--	--	--

Matrix Spike (B7A0451-MS1)

Source: 1701037-13

Prepared & Analyzed: 01/04/17

Gasoline Range Hydrocarbons (C4-C12)	0.619	0.050	mg/kg	0.600	ND	103	50-150			
--------------------------------------	-------	-------	-------	-------	----	-----	--------	--	--	--

Matrix Spike Dup (B7A0451-MSD1)

Source: 1701037-13

Prepared & Analyzed: 01/04/17

Gasoline Range Hydrocarbons (C4-C12)	0.542	0.050	mg/kg	0.600	ND	90.3	50-150	13.3	30	
--------------------------------------	-------	-------	-------	-------	----	------	--------	------	----	--

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0452 - EPA 5035 P & T

Blank (B7A0452-BLK1)

Prepared & Analyzed: 01/04/17

Benzene	ND	5.0	µg/kg							
Bromobenzene	ND	5.0	"							
Bromochloromethane	ND	5.0	"							
Bromodichloromethane	ND	5.0	"							
Bromoform	ND	5.0	"							
Bromomethane	ND	5.0	"							
n-Butylbenzene	ND	5.0	"							
sec-Butylbenzene	ND	5.0	"							
tert-Butylbenzene	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	5.0	"							
2-Chlorotoluene	ND	5.0	"							
4-Chlorotoluene	ND	5.0	"							
Dibromochloromethane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Dibromomethane	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
Dichlorodifluoromethane	ND	5.0	"							
1,1-Dichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
1,1-Dichloroethene	ND	5.0	"							
cis-1,2-Dichloroethene	ND	5.0	"							
trans-1,2-Dichloroethene	ND	5.0	"							
1,2-Dichloropropane	ND	5.0	"							
1,3-Dichloropropane	ND	5.0	"							
2,2-Dichloropropane	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
cis-1,3-Dichloropropene	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0452 - EPA 5035 P & T

Blank (B7A0452-BLK1)

Prepared & Analyzed: 01/04/17

Isopropylbenzene	ND	5.0	µg/kg							
p-Isopropyltoluene	ND	5.0	"							
Methylene chloride	ND	5.0	"							
Methyl tert-butyl ether	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
Toluene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
m,p-Xylene	ND	5.0	"							
o-Xylene	ND	5.0	"							
<i>Surrogate: Dibromofluoromethane</i>	44.4		"	50.0		88.8	80-120			
<i>Surrogate: Toluene-d8</i>	53.0		"	50.0		106	81-117			
<i>Surrogate: 4-Bromofluorobenzene</i>	46.7		"	50.0		93.4	74-121			

LCS (B7A0452-BS1)

Prepared & Analyzed: 01/04/17

Benzene	50.3	5.0	µg/kg	50.0		101	80-120			
Chlorobenzene	53.2	5.0	"	50.0		106	80-120			
1,1-Dichloroethene	50.4	5.0	"	50.0		101	80-120			
Toluene	59.1	5.0	"	50.0		118	80-120			
Trichloroethene	43.5	5.0	"	50.0		87.0	80-120			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/10/17 12:32

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0452 - EPA 5035 P & T

LCS (B7A0452-BS2)

Prepared: 01/04/17 Analyzed: 01/05/17

Benzene	52.3	5.0	µg/kg	50.0		105	80-120			
Chlorobenzene	52.2	5.0	"	50.0		104	80-120			
1,1-Dichloroethene	57.7	5.0	"	50.0		115	80-120			
Toluene	56.8	5.0	"	50.0		114	80-120			
Trichloroethene	43.9	5.0	"	50.0		87.8	80-120			

LCS Dup (B7A0452-BSD1)

Prepared: 01/04/17 Analyzed: 01/05/17

Benzene	51.8	5.0	µg/kg	50.0		104	80-120	2.94	30	
Chlorobenzene	52.8	5.0	"	50.0		106	80-120	0.755	30	
1,1-Dichloroethene	55.9	5.0	"	50.0		112	80-120	10.3	30	
Toluene	57.7	5.0	"	50.0		115	80-120	2.40	30	
Trichloroethene	48.3	5.0	"	50.0		96.6	80-120	10.5	30	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0331 - EPA 3550B Solid Ext

Blank (B7A0331-BLK1)

Prepared & Analyzed: 01/03/17

Acenaphthene	ND	0.33	mg/kg							
Acenaphthylene	ND	0.33	"							
Anthracene	ND	0.33	"							
Benzidine	ND	0.33	"							
Benzo (a) anthracene	ND	0.33	"							
Benzo (b) fluoranthene	ND	0.33	"							
Benzo (k) fluoranthene	ND	0.33	"							
Benzo (a) pyrene	ND	0.33	"							
Benzo (g,h,i) perylene	ND	0.33	"							
Benzyl alcohol	ND	0.33	"							
Bis(2-chloroethyl)ether	ND	0.33	"							
Bis(2-chloroethoxy)methane	ND	0.33	"							
Bis(2-ethylhexyl)phthalate	ND	0.33	"							
Bis(2-chloroisopropyl)ether	ND	0.33	"							
4-Bromophenyl phenyl ether	ND	0.33	"							
Butyl benzyl phthalate	ND	0.33	"							
4-Chloroaniline	ND	0.33	"							
2-Chlorophenol	ND	0.33	"							
4-Chloro-3-methylphenol	ND	0.33	"							
2-Chloronaphthalene	ND	0.33	"							
4-Chlorophenyl phenyl ether	ND	0.33	"							
Chrysene	ND	0.33	"							
Dibenz (a,h) anthracene	ND	0.33	"							
Dibenzofuran	ND	0.33	"							
1,3-Dichlorobenzene	ND	0.33	"							
1,2-Dichlorobenzene	ND	0.33	"							
1,4-Dichlorobenzene	ND	0.33	"							
3,3'-Dichlorobenzidine	ND	0.33	"							
2,4-Dichlorophenol	ND	0.33	"							
Diethyl phthalate	ND	0.33	"							
2,4-Dimethylphenol	ND	0.33	"							
Dimethyl phthalate	ND	0.33	"							
Di-n-butyl phthalate	ND	0.33	"							
2,4-Dinitrophenol	ND	0.33	"							
4,6-Dinitro-2-methylphenol	ND	0.33	"							
2,4-Dinitrotoluene	ND	0.33	"							
2,6-Dinitrotoluene	ND	0.33	"							

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0331 - EPA 3550B Solid Ext

Blank (B7A0331-BLK1)

Prepared & Analyzed: 01/03/17

Di-n-octyl phthalate	ND	0.33	mg/kg							
1,2-Diphenylhydrazine	ND	0.33	"							
Fluoranthene	ND	0.33	"							
Fluorene	ND	0.33	"							
Hexachlorobenzene	ND	0.33	"							
Hexachlorobutadiene	ND	0.33	"							
Hexachlorocyclopentadiene	ND	0.33	"							
Hexachloroethane	ND	0.33	"							
Indeno (1,2,3-cd) pyrene	ND	0.33	"							
Isophorone	ND	0.33	"							
2-Methylnaphthalene	ND	0.33	"							
2-Methylphenol	ND	0.33	"							
4-Methylphenol	ND	0.33	"							
Naphthalene	ND	0.33	"							
2-Nitroaniline	ND	0.33	"							
3-Nitroaniline	ND	0.33	"							
4-Nitroaniline	ND	0.33	"							
Nitrobenzene	ND	0.33	"							
2-Nitrophenol	ND	0.33	"							
4-Nitrophenol	ND	0.33	"							
N-Nitrosodimethylamine	ND	0.33	"							
Diphenylamine	ND	0.33	"							
N-Nitrosodi-n-propylamine	ND	0.33	"							
Pentachlorophenol	ND	0.33	"							
Phenanthrene	ND	0.33	"							
Phenol	ND	0.33	"							
Pyrene	ND	0.33	"							
1,2,4-Trichlorobenzene	ND	0.33	"							
2,4,5-Trichlorophenol	ND	0.33	"							
2,4,6-Trichlorophenol	ND	0.33	"							
<i>Surrogate: 2-Fluorophenol</i>	<i>0.451</i>		<i>"</i>	<i>0.500</i>		<i>90.2</i>	<i>25-121</i>			
<i>Surrogate: Phenol-d6</i>	<i>0.504</i>		<i>"</i>	<i>0.500</i>		<i>101</i>	<i>24-113</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>0.298</i>		<i>"</i>	<i>0.333</i>		<i>89.5</i>	<i>23-120</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0.271</i>		<i>"</i>	<i>0.333</i>		<i>81.4</i>	<i>30-115</i>			
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>0.428</i>		<i>"</i>	<i>0.500</i>		<i>85.6</i>	<i>19-122</i>			
<i>Surrogate: Terphenyl-d14</i>	<i>0.302</i>		<i>"</i>	<i>0.333</i>		<i>90.7</i>	<i>18-137</i>			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0331 - EPA 3550B Solid Ext

LCS (B7A0331-BS1)

Prepared & Analyzed: 01/03/17

Acenaphthene	0.317	0.33	mg/kg	0.333		95.2	47-145			
2-Chlorophenol	0.572	0.33	"	0.667		85.8	23-134			
4-Chloro-3-methylphenol	0.521	0.33	"	0.667		78.1	22-147			
1,4-Dichlorobenzene	0.282	0.33	"	0.333		84.7	20-124			
2,4-Dinitrotoluene	0.264	0.33	"	0.333		79.3	39-139			
4-Nitrophenol	0.277	0.33	"	0.667		41.5	0-132			
N-Nitrosodi-n-propylamine	0.262	0.33	"	0.333		78.7	0-230			
Pentachlorophenol	0.270	0.33	"	0.667		40.5	14-176			
Phenol	0.306	0.33	"	0.667		45.9	5-112			
Pyrene	0.292	0.33	"	0.333		87.7	52-115			
1,2,4-Trichlorobenzene	0.307	0.33	"	0.333		92.2	44-142			

Matrix Spike (B7A0331-MS1)

Source: 1612353-02

Prepared & Analyzed: 01/03/17

Acenaphthene	0.311	0.33	mg/kg	0.333	ND	93.4	47-145			
2-Chlorophenol	0.541	0.33	"	0.667	ND	81.1	23-134			
4-Chloro-3-methylphenol	0.508	0.33	"	0.667	ND	76.2	22-147			
1,4-Dichlorobenzene	0.288	0.33	"	0.333	ND	86.5	20-124			
2,4-Dinitrotoluene	0.268	0.33	"	0.333	ND	80.5	39-139			
4-Nitrophenol	0.271	0.33	"	0.667	ND	40.6	0-132			
N-Nitrosodi-n-propylamine	0.264	0.33	"	0.333	ND	79.3	0-230			
Pentachlorophenol	0.274	0.33	"	0.667	ND	41.1	14-176			
Phenol	0.311	0.33	"	0.667	ND	46.6	5-112			
Pyrene	0.288	0.33	"	0.333	ND	86.5	52-115			
1,2,4-Trichlorobenzene	0.304	0.33	"	0.333	ND	91.3	44-142			

Matrix Spike Dup (B7A0331-MSD1)

Source: 1612353-02

Prepared & Analyzed: 01/03/17

Acenaphthene	0.306	0.33	mg/kg	0.333	ND	91.9	47-145	1.62	30	
2-Chlorophenol	0.557	0.33	"	0.667	ND	83.5	23-134	2.91	30	
4-Chloro-3-methylphenol	0.497	0.33	"	0.667	ND	74.5	22-147	2.19	30	
1,4-Dichlorobenzene	0.293	0.33	"	0.333	ND	88.0	20-124	1.72	30	
2,4-Dinitrotoluene	0.263	0.33	"	0.333	ND	79.0	39-139	1.88	30	
4-Nitrophenol	0.279	0.33	"	0.667	ND	41.8	0-132	2.91	30	
N-Nitrosodi-n-propylamine	0.255	0.33	"	0.333	ND	76.6	0-230	3.47	30	
Pentachlorophenol	0.270	0.33	"	0.667	ND	40.5	14-176	1.47	30	
Phenol	0.304	0.33	"	0.667	ND	45.6	5-112	2.28	30	
Pyrene	0.297	0.33	"	0.333	ND	89.2	52-115	3.08	30	
1,2,4-Trichlorobenzene	0.311	0.33	"	0.333	ND	93.4	44-142	2.28	30	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/10/17 12:32

Notes and Definitions

- D-34 Sample diluted due to high levels of petroleum hydrocarbons.
- D-42 Sample non-detect (ND) for requested fuel type. Other hydrocarbons may be present.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- S-03 Surrogate diluted out.
- S-07 Surrogate recovery outside of control limits due to coelution with high levels of petroleum hydrocarbons.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



SIERRA ANALYTICAL
 TEL: 949 • 348 • 9389
 FAX: 949 • 348 • 9115
 26052 Merit Circle • Suite 104 • Laguna Hills, CA • 92653

CHAIN OF CUSTODY RECORD

Date: 1 / 3 / 17 Page: 2 of 2

Lab Work Order No.: 1701037

Client: MEARNS CONSULTING CORP
 Client Address: 338 ASHLAND AVE
 SANTA MONICA CA 90405
 Client Tel. No.: 310 403 1921
 Client Fax. No.: 310 396 6878
 Client Proj. Mgr.: SUSAN L MEARNS PHD

Client Project ID: SHPI - AMERIGAS

Turn Around Time Requested:
 24 Hour
 48 Hour
 72 Hour
 4 Day
 5 Day
 Normal
 Mobile

Analyses Requested										Geotracker EDD Info:									
Client Sample ID	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	VOCs 826B/5035B	SVCs 827C	TLC METALS 6000/7000	CH	TPH-g 8015B	TPH-l 8015B	TPH-o 8015B	AMPHATIC C RANGE **	AROMATIC C RANGE **	Client LOGCODE	Site Global ID	Field Point Names / Comments
BUILDING 3 SB6-5	11	1-3-17	1410	SOIL	ICE PRESERVED	SS SW VOA VIAL	4	X	X	X	X	X	X	X	X	X			
SB6-10	12		1431					X	X	X	X	X	X	X	X	X			
SB7-5	13		1450					X	X	X	X	X	X	X	X	X			
SB7-10	14		1458					X	X	X	X	X	X	X	X	X			

Shipped Via: _____
 (Carrier/Vehicle No.)
 Received By: Scott Fagan
 Date: 1-3-17 Time: 16:00
 Company: MEARNS CONSULTING CORP
 Received By: _____
 Date: _____ Time: _____
 Company: _____
 Received By: _____
 Date: _____ Time: _____
 Company: _____

Total Number of Containers Submitted to Laboratory: _____

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under SIERRA'S Terms and Conditions, unless otherwise agreed upon in writing between SIERRA and CLIENT.
 * - Samples determined to be hazardous by SIERRA will be returned to CLIENT.

Total Number of Containers Received by Laboratory: _____

FOR LABORATORY USE ONLY - Sample Receipt Conditions:
 Intact
 Sample Seals
 Properly Labelled
 Appropriate Sample Container
 Appropriate Storage Location

Chilled - Temp (°C) 40
 Preservatives - Verified By _____
 Other _____

Sample Disposal:
 Return to Client
 Lab Disposal *
 Archive _____
 Other _____

Special Instructions: * SOIL ANALYZED FOR VOCs VIA 826B COLLECTED & PRESERVED IN FIELD VIA 5035B
 ** AMPHATIC & AROMATIC C CHAIN RANGES PER MADEP GUIDANCE



12 January 2017

Susan Mearns
Mearns Consulting LLC
738 Ashland Avenue
Santa Monica, CA 90405

RE:SHPI-Amerigas

Work Order No.: 1701054

Attached are the results of the analyses for samples received by the laboratory on 01/04/17 16:27.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report.
If you require any additional retaining time, please advise us.

Sincerely,

A handwritten signature in black ink that reads "Richard K. Forsyth". The signature is written in a cursive style and is positioned above a horizontal line.

Richard K. Forsyth

Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS),
Environmental Laboratory Accreditation Program (ELAP) No. 2320.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB8-5	1701054-01	Soil	01/04/17 08:46	01/04/17 16:27
SB8-10	1701054-02	Soil	01/04/17 08:57	01/04/17 16:27
SB9-5	1701054-03	Soil	01/04/17 09:17	01/04/17 16:27
SB9-10	1701054-04	Soil	01/04/17 09:30	01/04/17 16:27
SB10-5	1701054-05	Soil	01/04/17 09:48	01/04/17 16:27
SB10-10	1701054-06	Soil	01/04/17 10:07	01/04/17 16:27
SB11-5	1701054-07	Soil	01/04/17 10:11	01/04/17 16:27
SB11-10	1701054-08	Soil	01/04/17 10:19	01/04/17 16:27
SB12-5	1701054-09	Soil	01/04/17 10:48	01/04/17 16:27
SB12-10	1701054-10	Soil	01/04/17 10:55	01/04/17 16:27
SB13-5	1701054-11	Soil	01/04/17 11:18	01/04/17 16:27
SB13-10	1701054-12	Soil	01/04/17 11:35	01/04/17 16:27
SB14-5	1701054-13	Soil	01/04/17 11:58	01/04/17 16:27
SB14-10	1701054-14	Soil	01/04/17 12:10	01/04/17 16:27
SB17-5	1701054-15	Soil	01/04/17 12:33	01/04/17 16:27
SB17-10	1701054-16	Soil	01/04/17 12:40	01/04/17 16:27
SB15-5	1701054-17	Soil	01/04/17 13:20	01/04/17 16:27
SB15-10	1701054-18	Soil	01/04/17 13:28	01/04/17 16:27
SB16-5	1701054-19	Soil	01/04/17 13:42	01/04/17 16:27
SB16-10	1701054-20	Soil	01/04/17 13:48	01/04/17 16:27
SB18-5	1701054-21	Soil	01/04/17 14:11	01/04/17 16:27
SB18-10	1701054-22	Soil	01/04/17 14:20	01/04/17 16:27
SB19-5	1701054-23	Soil	01/04/17 14:37	01/04/17 16:27
SB19-10	1701054-24	Soil	01/04/17 14:45	01/04/17 16:27
SB20-5	1701054-25	Soil	01/04/17 14:58	01/04/17 16:27
SB20-10	1701054-26	Soil	01/04/17 15:06	01/04/17 16:27

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB8-5 (1701054-01) Soil Sampled: 01/04/17 08:46 Received: 01/04/17 16:27									
Silver	ND	1.0	mg/kg	1	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Arsenic	7.6	3.5	"	"	"	"	"	"	
Barium	120	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	7.5	2.5	"	"	"	"	"	"	
Chromium	25	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0585	01/05/17	01/09/17 12:07	EPA 7199A	
Copper	19	2.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Mercury	0.03	0.01	"	"	B7A0581	01/05/17	01/06/17 18:47	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Nickel	17	4.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
Vanadium	39	6.0	"	"	"	"	"	"	
Zinc	39	10	"	"	"	"	"	"	
SB8-10 (1701054-02) Soil Sampled: 01/04/17 08:57 Received: 01/04/17 16:27									
Silver	ND	1.0	mg/kg	1	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
Barium	78	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	10	2.5	"	"	"	"	"	"	
Chromium	25	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0585	01/05/17	01/09/17 12:07	EPA 7199A	
Copper	17	2.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Mercury	0.02	0.01	"	"	B7A0581	01/05/17	01/06/17 18:47	EPA 7471A	
Molybdenum	1.1	1.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Nickel	13	4.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
Vanadium	43	6.0	"	"	"	"	"	"	
Zinc	56	10	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB9-5 (1701054-03) Soil Sampled: 01/04/17 09:17 Received: 01/04/17 16:27										
Silver	ND	0.91		mg/kg	1	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Arsenic	ND	3.2		"	"	"	"	"	"	
Barium	55	5.9		"	"	"	"	"	"	
Beryllium	ND	0.45		"	"	"	"	"	"	
Cadmium	ND	0.45		"	"	"	"	"	"	
Cobalt	6.7	2.3		"	"	"	"	"	"	
Chromium	19	2.7		"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21		"	"	B7A0585	01/05/17	01/09/17 12:07	EPA 7199A	
Copper	19	1.8		"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Mercury	0.10	0.01		"	"	B7A0581	01/05/17	01/06/17 18:47	EPA 7471A	
Molybdenum	0.93	0.91		"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Nickel	14	3.6		"	"	"	"	"	"	
Lead	ND	2.7		"	"	"	"	"	"	
Antimony	ND	2.3		"	"	"	"	"	"	
Selenium	ND	5.4		"	"	"	"	"	"	
Thallium	ND	2.3		"	"	"	"	"	"	
Vanadium	28	5.4		"	"	"	"	"	"	
Zinc	33	9.1		"	"	"	"	"	"	
SB9-10 (1701054-04) Soil Sampled: 01/04/17 09:30 Received: 01/04/17 16:27										
Silver	ND	1.0		mg/kg	1	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Arsenic	ND	3.5		"	"	"	"	"	"	
Barium	35	6.5		"	"	"	"	"	"	
Beryllium	ND	0.50		"	"	"	"	"	"	
Cadmium	ND	0.50		"	"	"	"	"	"	
Cobalt	5.3	2.5		"	"	"	"	"	"	
Chromium	21	3.0		"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21		"	"	B7A0585	01/05/17	01/09/17 12:07	EPA 7199A	
Copper	15	2.0		"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Mercury	0.04	0.01		"	"	B7A0581	01/05/17	01/06/17 18:47	EPA 7471A	
Molybdenum	ND	1.0		"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Nickel	12	4.0		"	"	"	"	"	"	
Lead	3.1	3.0		"	"	"	"	"	"	
Antimony	ND	2.5		"	"	"	"	"	"	
Selenium	ND	6.0		"	"	"	"	"	"	
Thallium	ND	2.5		"	"	"	"	"	"	
Vanadium	23	6.0		"	"	"	"	"	"	
Zinc	27	10		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB10-5 (1701054-05) Soil Sampled: 01/04/17 09:48 Received: 01/04/17 16:27									
Silver	ND	1.0	mg/kg	1	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
Barium	140	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	11	2.5	"	"	"	"	"	"	
Chromium	25	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.19	"	"	B7A0585	01/05/17	01/09/17 12:07	EPA 7199A	
Copper	21	2.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Mercury	0.12	0.01	"	"	B7A0581	01/05/17	01/06/17 18:47	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Nickel	18	4.0	"	"	"	"	"	"	
Lead	4.4	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
Vanadium	35	6.0	"	"	"	"	"	"	
Zinc	44	10	"	"	"	"	"	"	
SB10-10 (1701054-06) Soil Sampled: 01/04/17 10:07 Received: 01/04/17 16:27									
Silver	ND	1.0	mg/kg	1	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
Barium	45	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	6.1	2.5	"	"	"	"	"	"	
Chromium	19	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.19	"	"	B7A0585	01/05/17	01/09/17 12:07	EPA 7199A	
Copper	11	2.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Mercury	0.04	0.01	"	"	B7A0581	01/05/17	01/06/17 18:47	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Nickel	11	4.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
Vanadium	20	6.0	"	"	"	"	"	"	
Zinc	27	10	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB11-5 (1701054-07) Soil Sampled: 01/04/17 10:11 Received: 01/04/17 16:27									
Silver	ND	1.0	mg/kg	1	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
Barium	71	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	8.1	2.5	"	"	"	"	"	"	
Chromium	21	3.0	"	"	"	"	"	"	
Hexavalent Chromium	0.25	0.21	"	"	B7A0585	01/05/17	01/09/17 12:07	EPA 7199A	
Copper	15	2.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Mercury	0.05	0.01	"	"	B7A0581	01/05/17	01/06/17 18:47	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Nickel	14	4.0	"	"	"	"	"	"	
Lead	3.2	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
Vanadium	26	6.0	"	"	"	"	"	"	
Zinc	30	10	"	"	"	"	"	"	
SB11-10 (1701054-08) Soil Sampled: 01/04/17 10:19 Received: 01/04/17 16:27									
Silver	ND	1.0	mg/kg	1	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
Barium	32	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	4.2	2.5	"	"	"	"	"	"	
Chromium	20	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0585	01/05/17	01/09/17 12:07	EPA 7199A	
Copper	10	2.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Mercury	0.10	0.01	"	"	B7A0581	01/05/17	01/06/17 18:47	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Nickel	9.3	4.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
Vanadium	13	6.0	"	"	"	"	"	"	
Zinc	24	10	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB12-5 (1701054-09) Soil Sampled: 01/04/17 10:48 Received: 01/04/17 16:27									
Silver	ND	1.0	mg/kg	1	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
Barium	86	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	9.5	2.5	"	"	"	"	"	"	
Chromium	23	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0585	01/05/17	01/09/17 12:07	EPA 7199A	
Copper	17	2.0	"	"	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Mercury	1.08	0.02	"	2	B7A0581	01/05/17	01/06/17 18:47	EPA 7471A	
Molybdenum	ND	1.0	"	1	B7A0578	01/05/17	01/06/17 20:04	EPA 6010B	
Nickel	13	4.0	"	"	"	"	"	"	
Lead	28	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
Vanadium	32	6.0	"	"	"	"	"	"	
Zinc	120	10	"	"	"	"	"	"	
SB12-10 (1701054-10) Soil Sampled: 01/04/17 10:55 Received: 01/04/17 16:27									
Silver	ND	1.0	mg/kg	1	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
Barium	66	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	6.5	2.5	"	"	"	"	"	"	
Chromium	21	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0585	01/05/17	01/09/17 12:07	EPA 7199A	
Copper	15	2.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Mercury	0.04	0.01	"	"	B7A0581	01/05/17	01/06/17 18:47	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Nickel	11	4.0	"	"	"	"	"	"	
Lead	3.0	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
Vanadium	30	6.0	"	"	"	"	"	"	
Zinc	36	10	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
SB13-5 (1701054-11) Soil Sampled: 01/04/17 11:18 Received: 01/04/17 16:27										
Silver	ND	1.0	mg/kg	1	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B		
Arsenic	ND	3.5	"	"	"	"	"	"		
Barium	78	6.5	"	"	"	"	"	"		
Beryllium	ND	0.50	"	"	"	"	"	"		
Cadmium	ND	0.50	"	"	"	"	"	"		
Cobalt	7.5	2.5	"	"	"	"	"	"		
Chromium	17	3.0	"	"	"	"	"	"		
Hexavalent Chromium	ND	0.21	"	"	B7A0586	01/05/17	01/09/17 12:09	EPA 7199A		
Copper	12	2.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B		
Mercury	0.01	0.01	"	"	B7A0582	01/05/17	01/06/17 18:51	EPA 7471A		
Molybdenum	ND	1.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B		
Nickel	11	4.0	"	"	"	"	"	"		
Lead	3.8	3.0	"	"	"	"	"	"		
Antimony	ND	2.5	"	"	"	"	"	"		
Selenium	ND	6.0	"	"	"	"	"	"		
Thallium	ND	2.5	"	"	"	"	"	"		
Vanadium	26	6.0	"	"	"	"	"	"		
Zinc	37	10	"	"	"	"	"	"		
SB13-10 (1701054-12) Soil Sampled: 01/04/17 11:35 Received: 01/04/17 16:27										
Silver	ND	1.0	mg/kg	1	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B		
Arsenic	ND	3.5	"	"	"	"	"	"		
Barium	63	6.5	"	"	"	"	"	"		
Beryllium	ND	0.50	"	"	"	"	"	"		
Cadmium	ND	0.50	"	"	"	"	"	"		
Cobalt	8.2	2.5	"	"	"	"	"	"		
Chromium	21	3.0	"	"	"	"	"	"		
Hexavalent Chromium	ND	0.21	"	"	B7A0586	01/05/17	01/09/17 12:09	EPA 7199A		
Copper	12	2.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B		
Mercury	0.04	0.01	"	"	B7A0582	01/05/17	01/06/17 18:51	EPA 7471A		
Molybdenum	ND	1.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B		
Nickel	13	4.0	"	"	"	"	"	"		
Lead	ND	3.0	"	"	"	"	"	"		
Antimony	ND	2.5	"	"	"	"	"	"		
Selenium	ND	6.0	"	"	"	"	"	"		
Thallium	ND	2.5	"	"	"	"	"	"		
Vanadium	29	6.0	"	"	"	"	"	"		
Zinc	37	10	"	"	"	"	"	"		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB14-5 (1701054-13) Soil Sampled: 01/04/17 11:58 Received: 01/04/17 16:27									
Silver	ND	0.91	mg/kg	1	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Arsenic	ND	3.2	"	"	"	"	"	"	
Barium	110	5.9	"	"	"	"	"	"	
Beryllium	ND	0.45	"	"	"	"	"	"	
Cadmium	ND	0.45	"	"	"	"	"	"	
Cobalt	11	2.3	"	"	"	"	"	"	
Chromium	27	2.7	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0586	01/05/17	01/09/17 12:09	EPA 7199A	
Copper	22	1.8	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Mercury	0.04	0.01	"	"	B7A0582	01/05/17	01/06/17 18:51	EPA 7471A	
Molybdenum	ND	0.91	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Nickel	21	3.6	"	"	"	"	"	"	
Lead	4.9	2.7	"	"	"	"	"	"	
Antimony	ND	2.3	"	"	"	"	"	"	
Selenium	ND	5.4	"	"	"	"	"	"	
Thallium	ND	2.3	"	"	"	"	"	"	
Vanadium	45	5.4	"	"	"	"	"	"	
Zinc	45	9.1	"	"	"	"	"	"	
SB14-10 (1701054-14) Soil Sampled: 01/04/17 12:10 Received: 01/04/17 16:27									
Silver	ND	0.91	mg/kg	1	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Arsenic	ND	3.2	"	"	"	"	"	"	
Barium	38	5.9	"	"	"	"	"	"	
Beryllium	ND	0.45	"	"	"	"	"	"	
Cadmium	ND	0.45	"	"	"	"	"	"	
Cobalt	6.3	2.3	"	"	"	"	"	"	
Chromium	19	2.7	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.19	"	"	B7A0586	01/05/17	01/09/17 12:09	EPA 7199A	
Copper	10	1.8	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Mercury	0.02	0.01	"	"	B7A0582	01/05/17	01/06/17 18:51	EPA 7471A	
Molybdenum	ND	0.91	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Nickel	11	3.6	"	"	"	"	"	"	
Lead	ND	2.7	"	"	"	"	"	"	
Antimony	ND	2.3	"	"	"	"	"	"	
Selenium	ND	5.4	"	"	"	"	"	"	
Thallium	ND	2.3	"	"	"	"	"	"	
Vanadium	18	5.4	"	"	"	"	"	"	
Zinc	28	9.1	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB17-5 (1701054-15) Soil Sampled: 01/04/17 12:33 Received: 01/04/17 16:27									
Silver	ND	1.0	mg/kg	1	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
Barium	60	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	6.9	2.5	"	"	"	"	"	"	
Chromium	15	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0586	01/05/17	01/09/17 12:09	EPA 7199A	
Copper	11	2.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Mercury	0.05	0.01	"	"	B7A0582	01/05/17	01/06/17 18:51	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Nickel	11	4.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
Vanadium	24	6.0	"	"	"	"	"	"	
Zinc	30	10	"	"	"	"	"	"	
SB17-10 (1701054-16) Soil Sampled: 01/04/17 12:40 Received: 01/04/17 16:27									
Silver	ND	0.91	mg/kg	1	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Arsenic	ND	3.2	"	"	"	"	"	"	
Barium	42	5.9	"	"	"	"	"	"	
Beryllium	ND	0.45	"	"	"	"	"	"	
Cadmium	ND	0.45	"	"	"	"	"	"	
Cobalt	6.3	2.3	"	"	"	"	"	"	
Chromium	27	2.7	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0586	01/05/17	01/09/17 12:09	EPA 7199A	
Copper	11	1.8	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Mercury	0.02	0.01	"	"	B7A0582	01/05/17	01/06/17 18:51	EPA 7471A	
Molybdenum	ND	0.91	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Nickel	12	3.6	"	"	"	"	"	"	
Lead	3.2	2.7	"	"	"	"	"	"	
Antimony	ND	2.3	"	"	"	"	"	"	
Selenium	ND	5.4	"	"	"	"	"	"	
Thallium	ND	2.3	"	"	"	"	"	"	
Vanadium	23	5.4	"	"	"	"	"	"	
Zinc	32	9.1	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
SB15-5 (1701054-17) Soil Sampled: 01/04/17 13:20 Received: 01/04/17 16:27										
Silver	ND	1.0	mg/kg	1	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B		
Arsenic	ND	3.5	"	"	"	"	"	"		
Barium	63	6.5	"	"	"	"	"	"		
Beryllium	ND	0.50	"	"	"	"	"	"		
Cadmium	ND	0.50	"	"	"	"	"	"		
Cobalt	6.4	2.5	"	"	"	"	"	"		
Chromium	15	3.0	"	"	"	"	"	"		
Hexavalent Chromium	ND	0.21	"	"	B7A0586	01/05/17	01/09/17 12:09	EPA 7199A		
Copper	7.9	2.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B		
Mercury	0.02	0.01	"	"	B7A0582	01/05/17	01/06/17 18:51	EPA 7471A		
Molybdenum	ND	1.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B		
Nickel	8.4	4.0	"	"	"	"	"	"		
Lead	ND	3.0	"	"	"	"	"	"		
Antimony	ND	2.5	"	"	"	"	"	"		
Selenium	ND	6.0	"	"	"	"	"	"		
Thallium	ND	2.5	"	"	"	"	"	"		
Vanadium	21	6.0	"	"	"	"	"	"		
Zinc	31	10	"	"	"	"	"	"		
SB15-10 (1701054-18) Soil Sampled: 01/04/17 13:28 Received: 01/04/17 16:27										
Silver	ND	1.0	mg/kg	1	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B		
Arsenic	ND	3.5	"	"	"	"	"	"		
Barium	58	6.5	"	"	"	"	"	"		
Beryllium	ND	0.50	"	"	"	"	"	"		
Cadmium	ND	0.50	"	"	"	"	"	"		
Cobalt	7.4	2.5	"	"	"	"	"	"		
Chromium	23	3.0	"	"	"	"	"	"		
Hexavalent Chromium	ND	0.21	"	"	B7A0586	01/05/17	01/09/17 12:09	EPA 7199A		
Copper	7.5	2.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B		
Mercury	ND	0.01	"	"	B7A0582	01/05/17	01/06/17 18:51	EPA 7471A		
Molybdenum	ND	1.0	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B		
Nickel	12	4.0	"	"	"	"	"	"		
Lead	ND	3.0	"	"	"	"	"	"		
Antimony	ND	2.5	"	"	"	"	"	"		
Selenium	ND	6.0	"	"	"	"	"	"		
Thallium	ND	2.5	"	"	"	"	"	"		
Vanadium	26	6.0	"	"	"	"	"	"		
Zinc	34	10	"	"	"	"	"	"		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB16-5 (1701054-19) Soil Sampled: 01/04/17 13:42 Received: 01/04/17 16:27									
Silver	ND	0.91	mg/kg	1	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Arsenic	ND	3.2	"	"	"	"	"	"	
Barium	100	5.9	"	"	"	"	"	"	
Beryllium	ND	0.45	"	"	"	"	"	"	
Cadmium	ND	0.45	"	"	"	"	"	"	
Cobalt	9.2	2.3	"	"	"	"	"	"	
Chromium	21	2.7	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0586	01/05/17	01/09/17 12:09	EPA 7199A	
Copper	40	1.8	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Mercury	0.06	0.01	"	"	B7A0582	01/05/17	01/06/17 18:51	EPA 7471A	
Molybdenum	ND	0.91	"	"	B7A0579	01/05/17	01/09/17 12:16	EPA 6010B	
Nickel	15	3.6	"	"	"	"	"	"	
Lead	7.5	2.7	"	"	"	"	"	"	
Antimony	ND	2.3	"	"	"	"	"	"	
Selenium	ND	5.4	"	"	"	"	"	"	
Thallium	ND	2.3	"	"	"	"	"	"	
Vanadium	30	5.4	"	"	"	"	"	"	
Zinc	46	9.1	"	"	"	"	"	"	
SB16-10 (1701054-20) Soil Sampled: 01/04/17 13:48 Received: 01/04/17 16:27									
Silver	ND	1.0	mg/kg	1	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
Barium	80	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	7.9	2.5	"	"	"	"	"	"	
Chromium	21	3.0	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0586	01/05/17	01/09/17 12:09	EPA 7199A	
Copper	13	2.0	"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Mercury	0.05	0.01	"	"	B7A0582	01/05/17	01/06/17 18:51	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Nickel	13	4.0	"	"	"	"	"	"	
Lead	3.0	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
Vanadium	32	6.0	"	"	"	"	"	"	
Zinc	38	10	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
SB18-5 (1701054-21) Soil Sampled: 01/04/17 14:11 Received: 01/04/17 16:27										
Silver	ND	1.0	mg/kg	1	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B		
Arsenic	ND	3.5	"	"	"	"	"	"		
Barium	63	6.5	"	"	"	"	"	"		
Beryllium	ND	0.50	"	"	"	"	"	"		
Cadmium	ND	0.50	"	"	"	"	"	"		
Cobalt	8.8	2.5	"	"	"	"	"	"		
Chromium	19	3.0	"	"	"	"	"	"		
Hexavalent Chromium	ND	0.21	"	"	B7A0587	01/05/17	01/09/17 12:10	EPA 7199A		
Copper	19	2.0	"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B		
Mercury	0.03	0.01	"	"	B7A0583	01/05/17	01/06/17 18:52	EPA 7471A		
Molybdenum	ND	1.0	"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B		
Nickel	13	4.0	"	"	"	"	"	"		
Lead	4.1	3.0	"	"	"	"	"	"		
Antimony	ND	2.5	"	"	"	"	"	"		
Selenium	ND	6.0	"	"	"	"	"	"		
Thallium	ND	2.5	"	"	"	"	"	"		
Vanadium	30	6.0	"	"	"	"	"	"		
Zinc	36	10	"	"	"	"	"	"		
SB18-10 (1701054-22) Soil Sampled: 01/04/17 14:20 Received: 01/04/17 16:27										
Silver	ND	1.0	mg/kg	1	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B		
Arsenic	ND	3.5	"	"	"	"	"	"		
Barium	72	6.5	"	"	"	"	"	"		
Beryllium	ND	0.50	"	"	"	"	"	"		
Cadmium	ND	0.50	"	"	"	"	"	"		
Cobalt	9.7	2.5	"	"	"	"	"	"		
Chromium	39	3.0	"	"	"	"	"	"		
Hexavalent Chromium	ND	0.21	"	"	B7A0587	01/05/17	01/09/17 12:10	EPA 7199A		
Copper	28	2.0	"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B		
Mercury	0.03	0.01	"	"	B7A0583	01/05/17	01/06/17 18:52	EPA 7471A		
Molybdenum	ND	1.0	"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B		
Nickel	30	4.0	"	"	"	"	"	"		
Lead	4.7	3.0	"	"	"	"	"	"		
Antimony	ND	2.5	"	"	"	"	"	"		
Selenium	ND	6.0	"	"	"	"	"	"		
Thallium	ND	2.5	"	"	"	"	"	"		
Vanadium	32	6.0	"	"	"	"	"	"		
Zinc	44	10	"	"	"	"	"	"		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB19-5 (1701054-23) Soil Sampled: 01/04/17 14:37 Received: 01/04/17 16:27									
Silver	ND	1.0	mg/kg	1	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
Barium	81	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	5.8	2.5	"	"	"	"	"	"	
Chromium	35	3.0	"	"	"	"	"	"	
Hexavalent Chromium	0.36	0.19	"	"	B7A0587	01/05/17	01/09/17 12:10	EPA 7199A	
Copper	30	2.0	"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Mercury	0.27	0.01	"	"	B7A0583	01/05/17	01/06/17 18:52	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Nickel	12	4.0	"	"	"	"	"	"	
Lead	23	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
Vanadium	26	6.0	"	"	"	"	"	"	
Zinc	94	10	"	"	"	"	"	"	
SB19-10 (1701054-24) Soil Sampled: 01/04/17 14:45 Received: 01/04/17 16:27									
Silver	ND	1.0	mg/kg	1	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Arsenic	ND	3.5	"	"	"	"	"	"	
Barium	59	6.5	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	7.6	2.5	"	"	"	"	"	"	
Chromium	22	3.0	"	"	"	"	"	"	
Hexavalent Chromium	1.7	1.1	"	5	B7A0587	01/05/17	01/09/17 12:10	EPA 7199A	
Copper	11	2.0	"	1	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Mercury	0.02	0.01	"	"	B7A0583	01/05/17	01/06/17 18:52	EPA 7471A	
Molybdenum	ND	1.0	"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Nickel	12	4.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	"	"	"	"	"	
Selenium	ND	6.0	"	"	"	"	"	"	
Thallium	ND	2.5	"	"	"	"	"	"	
Vanadium	28	6.0	"	"	"	"	"	"	
Zinc	37	10	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB20-5 (1701054-25) Soil Sampled: 01/04/17 14:58 Received: 01/04/17 16:27									
Silver	ND	0.91	mg/kg	1	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Arsenic	ND	3.2	"	"	"	"	"	"	
Barium	150	5.9	"	"	"	"	"	"	
Beryllium	ND	0.45	"	"	"	"	"	"	
Cadmium	0.77	0.45	"	"	"	"	"	"	
Cobalt	240	2.3	"	"	"	"	"	"	
Chromium	220	2.7	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0587	01/05/17	01/09/17 12:10	EPA 7199A	
Copper	200	1.8	"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Mercury	0.04	0.01	"	"	B7A0583	01/05/17	01/06/17 18:52	EPA 7471A	
Molybdenum	23	0.91	"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Nickel	27	3.6	"	"	"	"	"	"	
Lead	450	2.7	"	"	"	"	"	"	
Antimony	11	2.3	"	"	"	"	"	"	
Selenium	ND	5.4	"	"	"	"	"	"	
Thallium	13	2.3	"	"	"	"	"	"	
Vanadium	51	5.4	"	"	"	"	"	"	
Zinc	520	9.1	"	"	"	"	"	"	
SB20-10 (1701054-26) Soil Sampled: 01/04/17 15:06 Received: 01/04/17 16:27									
Silver	ND	0.90	mg/kg	1	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Arsenic	ND	3.2	"	"	"	"	"	"	
Barium	140	5.9	"	"	"	"	"	"	
Beryllium	ND	0.45	"	"	"	"	"	"	
Cadmium	ND	0.45	"	"	"	"	"	"	
Cobalt	12	2.3	"	"	"	"	"	"	
Chromium	26	2.7	"	"	"	"	"	"	
Hexavalent Chromium	ND	0.21	"	"	B7A0587	01/05/17	01/09/17 12:10	EPA 7199A	
Copper	33	1.8	"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Mercury	0.03	0.01	"	"	B7A0583	01/05/17	01/06/17 18:52	EPA 7471A	
Molybdenum	ND	0.90	"	"	B7A0580	01/05/17	01/09/17 12:40	EPA 6010B	
Nickel	19	3.6	"	"	"	"	"	"	
Lead	37	2.7	"	"	"	"	"	"	
Antimony	ND	2.3	"	"	"	"	"	"	
Selenium	ND	5.4	"	"	"	"	"	"	
Thallium	ND	2.3	"	"	"	"	"	"	
Vanadium	40	5.4	"	"	"	"	"	"	
Zinc	110	9.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Total Volatile Petroleum Hydrocarbons (TVPH) by GC/FID
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB8-5 (1701054-01) Soil Sampled: 01/04/17 08:46 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.073	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		80.4 %	35-130		"	"	"	"	
SB8-10 (1701054-02) Soil Sampled: 01/04/17 08:57 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		89.9 %	35-130		"	"	"	"	
SB9-5 (1701054-03) Soil Sampled: 01/04/17 09:17 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.044	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		87.0 %	35-130		"	"	"	"	
SB9-10 (1701054-04) Soil Sampled: 01/04/17 09:30 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.039	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		88.5 %	35-130		"	"	"	"	
SB10-5 (1701054-05) Soil Sampled: 01/04/17 09:48 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	810	5.0	mg/kg	100	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		97.9 %	35-130		"	"	"	"	
SB10-10 (1701054-06) Soil Sampled: 01/04/17 10:07 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	380	4.2	mg/kg	100	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		86.2 %	35-130		"	"	"	"	
SB11-5 (1701054-07) Soil Sampled: 01/04/17 10:11 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		85.7 %	35-130		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Volatile Petroleum Hydrocarbons (TVPH) by GC/FID
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB11-10 (1701054-08) Soil Sampled: 01/04/17 10:19 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.070	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		78.9 %	35-130		"	"	"	"	
SB12-5 (1701054-09) Soil Sampled: 01/04/17 10:48 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.038	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		85.6 %	35-130		"	"	"	"	
SB12-10 (1701054-10) Soil Sampled: 01/04/17 10:55 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.042	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		86.8 %	35-130		"	"	"	"	
SB13-5 (1701054-11) Soil Sampled: 01/04/17 11:18 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.035	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		88.7 %	35-130		"	"	"	"	
SB13-10 (1701054-12) Soil Sampled: 01/04/17 11:35 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		83.5 %	35-130		"	"	"	"	
SB14-5 (1701054-13) Soil Sampled: 01/04/17 11:58 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		90.8 %	35-130		"	"	"	"	
SB14-10 (1701054-14) Soil Sampled: 01/04/17 12:10 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.044	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		88.7 %	35-130		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Total Volatile Petroleum Hydrocarbons (TVPH) by GC/FID
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB17-5 (1701054-15) Soil Sampled: 01/04/17 12:33 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.043	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		84.9 %	35-130		"	"	"	"	
SB17-10 (1701054-16) Soil Sampled: 01/04/17 12:40 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.043	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		85.5 %	35-130		"	"	"	"	
SB15-5 (1701054-17) Soil Sampled: 01/04/17 13:20 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		85.4 %	35-130		"	"	"	"	
SB15-10 (1701054-18) Soil Sampled: 01/04/17 13:28 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		85.2 %	35-130		"	"	"	"	
SB16-5 (1701054-19) Soil Sampled: 01/04/17 13:42 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.033	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		100 %	35-130		"	"	"	"	
SB16-10 (1701054-20) Soil Sampled: 01/04/17 13:48 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		88.2 %	35-130		"	"	"	"	
SB18-5 (1701054-21) Soil Sampled: 01/04/17 14:11 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		88.4 %	35-130		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Volatile Petroleum Hydrocarbons (TVPH) by GC/FID
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB18-10 (1701054-22) Soil Sampled: 01/04/17 14:20 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.062	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		82.9 %	35-130		"	"	"	"	
SB19-5 (1701054-23) Soil Sampled: 01/04/17 14:37 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		73.2 %	35-130		"	"	"	"	
SB19-10 (1701054-24) Soil Sampled: 01/04/17 14:45 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	0.12	0.050	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		91.3 %	35-130		"	"	"	"	
SB20-5 (1701054-25) Soil Sampled: 01/04/17 14:58 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	0.084	0.044	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		80.1 %	35-130		"	"	"	"	
SB20-10 (1701054-26) Soil Sampled: 01/04/17 15:06 Received: 01/04/17 16:27									
Gasoline Range Hydrocarbons (C4-C12)	ND	0.042	mg/kg	1	B7A0558	01/05/17	01/05/17 11:09	EPA 8015B	
Surrogate: a,a,a-Trifluorotoluene		89.9 %	35-130		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Total Petroleum Hydrocarbons (TPH) by GC/FID
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB8-5 (1701054-01) Soil Sampled: 01/04/17 08:46 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 14:42	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		75.2 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		75.2 %	60-175		"	"	"	"	
SB8-10 (1701054-02) Soil Sampled: 01/04/17 08:57 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 14:54	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		110 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		110 %	60-175		"	"	"	"	
SB9-5 (1701054-03) Soil Sampled: 01/04/17 09:17 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 15:06	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		95.6 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		95.6 %	60-175		"	"	"	"	
SB9-10 (1701054-04) Soil Sampled: 01/04/17 09:30 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 15:18	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		84.8 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		84.8 %	60-175		"	"	"	"	
SB10-5 (1701054-05) Soil Sampled: 01/04/17 09:48 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 15:30	EPA 8015B	D-42
Surrogate: <i>o</i> -Terphenyl		114 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	11	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		114 %	60-175		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons (TPH) by GC/FID
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB10-10 (1701054-06) Soil Sampled: 01/04/17 10:07 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 15:42	EPA 8015B	D-42
Surrogate: <i>o</i> -Terphenyl		112 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	14	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		112 %	60-175		"	"	"	"	
SB11-5 (1701054-07) Soil Sampled: 01/04/17 10:11 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 15:54	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		101 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	280	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		101 %	60-175		"	"	"	"	
SB11-10 (1701054-08) Soil Sampled: 01/04/17 10:19 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 16:06	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		94.4 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		94.4 %	60-175		"	"	"	"	
SB12-5 (1701054-09) Soil Sampled: 01/04/17 10:48 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 16:18	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		132 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		132 %	60-175		"	"	"	"	
SB12-10 (1701054-10) Soil Sampled: 01/04/17 10:55 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 16:30	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		106 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		106 %	60-175		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons (TPH) by GC/FID
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB13-5 (1701054-11) Soil Sampled: 01/04/17 11:18 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 16:42	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		107 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		107 %	60-175		"	"	"	"	
SB13-10 (1701054-12) Soil Sampled: 01/04/17 11:35 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 16:54	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		128 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		128 %	60-175		"	"	"	"	
SB14-5 (1701054-13) Soil Sampled: 01/04/17 11:58 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 17:06	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		107 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		107 %	60-175		"	"	"	"	
SB14-10 (1701054-14) Soil Sampled: 01/04/17 12:10 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 17:17	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		100 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		100 %	60-175		"	"	"	"	
SB17-5 (1701054-15) Soil Sampled: 01/04/17 12:33 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 17:29	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		109 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		109 %	60-175		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons (TPH) by GC/FID
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB17-10 (1701054-16) Soil Sampled: 01/04/17 12:40 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 17:41	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		96.0 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		96.0 %	60-175		"	"	"	"	
SB15-5 (1701054-17) Soil Sampled: 01/04/17 13:20 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 17:53	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		76.8 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		76.8 %	60-175		"	"	"	"	
SB15-10 (1701054-18) Soil Sampled: 01/04/17 13:28 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 18:05	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		70.0 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		70.0 %	60-175		"	"	"	"	
SB16-5 (1701054-19) Soil Sampled: 01/04/17 13:42 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 19:57	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		110 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	46	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		110 %	60-175		"	"	"	"	
SB16-10 (1701054-20) Soil Sampled: 01/04/17 13:48 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 18:18	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		112 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		112 %	60-175		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Total Petroleum Hydrocarbons (TPH) by GC/FID
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB18-5 (1701054-21) Soil Sampled: 01/04/17 14:11 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 18:30	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		111 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		111 %	60-175		"	"	"	"	
SB18-10 (1701054-22) Soil Sampled: 01/04/17 14:20 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 18:43	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		104 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		104 %	60-175		"	"	"	"	
SB19-5 (1701054-23) Soil Sampled: 01/04/17 14:37 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	50	mg/kg	10	B7A0954	01/06/17	01/06/17 20:09	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		%	60-175		"	"	"	"	S-03
Oil Range Organics (C22-C36)	570	50	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		%	60-175		"	"	"	"	S-03
SB19-10 (1701054-24) Soil Sampled: 01/04/17 14:45 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg	1	B7A0954	01/06/17	01/06/17 18:55	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		87.2 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	ND	5.0	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		87.2 %	60-175		"	"	"	"	
SB20-5 (1701054-25) Soil Sampled: 01/04/17 14:58 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	25	mg/kg	5	B7A0954	01/06/17	01/06/17 20:22	EPA 8015B	
Surrogate: <i>o</i> -Terphenyl		151 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	1100	25	"	"	"	"	"	"	
Surrogate: <i>o</i> -Terphenyl		151 %	60-175		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons (TPH) by GC/FID
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB20-10 (1701054-26) Soil Sampled: 01/04/17 15:06 Received: 01/04/17 16:27									
Diesel Range Organics (C10-C24)	ND	25	mg/kg	5	B7A0954	01/06/17	01/06/17 20:34	EPA 8015B	
<i>Surrogate: o-Terphenyl</i>		165 %	60-175		"	"	"	"	
Oil Range Organics (C22-C36)	320	25	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>		165 %	60-175		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB8-5 (1701054-01) Soil Sampled: 01/04/17 08:46 Received: 01/04/17 16:27									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 14:42	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		75.2 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.015	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.015	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.015	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.015	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.015	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.015	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.015	"	"	"	"	"	"	"
HC >= C12	ND	0.015	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.073	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		80.4 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB8-10 (1701054-02) Soil Sampled: 01/04/17 08:57 Received: 01/04/17 16:27									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 14:54	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		110 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.010	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	"
HC >= C12	ND	0.010	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		89.9 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB9-5 (1701054-03) Soil Sampled: 01/04/17 09:17 Received: 01/04/17 16:27									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 15:06	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>		95.6 %	60-175	"	"	"	"	"	"
C5 <= HC < C6	ND	0.0088	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.0088	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.0088	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.0088	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.0088	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.0088	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.0088	"	"	"	"	"	"	"
HC >= C12	ND	0.0088	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.044	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		87.0 %	35-130	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB9-10 (1701054-04) Soil Sampled: 01/04/17 09:30 Received: 01/04/17 16:27									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 15:18	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>		84.8 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.0078	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.0078	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.0078	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.0078	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.0078	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.0078	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.0078	"	"	"	"	"	"	"
HC >= C12	ND	0.0078	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.039	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		88.5 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB10-5 (1701054-05) Soil Sampled: 01/04/17 09:48 Received: 01/04/17 16:27									
HC < C8	4.9	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 15:30	EPA 8015B	
C8 <= HC < C9	24	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	620	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	930	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	570	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	56	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	49	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	10	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	2.8	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	1.6	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	5.3	1.0	"	"	"	"	"	"	"
HC >= C32	5.5	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	2300	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		114 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.010	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	23	1.0	"	100	"	"	"	"	"
C7 <= HC < C8	78	1.0	"	"	"	"	"	"	"
C8 <= HC < C9	140	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	620	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	930	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	570	1.0	"	"	"	"	"	"	"
HC >= C12	78	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	2400	5.0	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		97.9 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB10-10 (1701054-06) Soil Sampled: 01/04/17 10:07 Received: 01/04/17 16:27									
HC < C8	5.2	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 15:42	EPA 8015B	
C8 <= HC < C9	26	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	310	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	530	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	320	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	71	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	51	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	7.9	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	1.9	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	2.6	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	1.4	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	5.1	1.0	"	"	"	"	"	"	"
HC >= C32	7.0	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	1300	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		112 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.84	"	100	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	4.7	0.84	"	"	"	"	"	"	"
C7 <= HC < C8	22	0.84	"	"	"	"	"	"	"
C8 <= HC < C9	56	0.84	"	"	"	"	"	"	"
C9 <= HC < C10	310	0.84	"	"	"	"	"	"	"
C10 <= HC < C11	530	0.84	"	"	"	"	"	"	"
C11 <= HC < C12	320	0.84	"	"	"	"	"	"	"
HC >= C12	63	0.84	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	1300	4.2	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		86.2 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB11-5 (1701054-07) Soil Sampled: 01/04/17 10:11 Received: 01/04/17 16:27									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 15:54	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	4.4	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	21	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	59	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	120	1.0	"	"	"	"	"	"	"
HC >= C32	81	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	280	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		101 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.010	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	"
HC >= C12	ND	0.010	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		85.7 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB11-10 (1701054-08) Soil Sampled: 01/04/17 10:19 Received: 01/04/17 16:27									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 16:06	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		94.4 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.014	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.014	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.014	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.014	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.014	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.014	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.014	"	"	"	"	"	"	"
HC >= C12	ND	0.014	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.070	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		78.9 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB12-5 (1701054-09) Soil Sampled: 01/04/17 10:48 Received: 01/04/17 16:27									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 16:18	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		132 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.0076	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.0076	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.0076	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.0076	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.0076	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.0076	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.0076	"	"	"	"	"	"	"
HC >= C12	ND	0.0076	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.038	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		85.6 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB12-10 (1701054-10) Soil Sampled: 01/04/17 10:55 Received: 01/04/17 16:27									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 16:30	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		106 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.0083	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.0083	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.0083	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.0083	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.0083	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.0083	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.0083	"	"	"	"	"	"	"
HC >= C12	ND	0.0083	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.042	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		86.8 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB13-5 (1701054-11) Soil Sampled: 01/04/17 11:18 Received: 01/04/17 16:27									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 16:42	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>		107 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.0070	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.0070	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.0070	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.0070	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.0070	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.0070	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.0070	"	"	"	"	"	"	"
HC >= C12	ND	0.0070	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.035	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		88.7 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
SB13-10 (1701054-12) Soil Sampled: 01/04/17 11:35 Received: 01/04/17 16:27										
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 16:54	EPA 8015B		
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>										
		128 %	60-175		"	"	"	"	"	
C5 <= HC < C6	ND	0.010	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"	
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	"	
HC >= C12	ND	0.010	"	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>										
		83.5 %	35-130		"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB14-5 (1701054-13) Soil Sampled: 01/04/17 11:58 Received: 01/04/17 16:27									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 17:06	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		107 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.010	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	"
HC >= C12	ND	0.010	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		90.8 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB14-10 (1701054-14) Soil Sampled: 01/04/17 12:10 Received: 01/04/17 16:27									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 17:17	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		100 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.0088	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.0088	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.0088	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.0088	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.0088	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.0088	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.0088	"	"	"	"	"	"	"
HC >= C12	ND	0.0088	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.044	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		88.7 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB17-5 (1701054-15) Soil Sampled: 01/04/17 12:33 Received: 01/04/17 16:27									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 17:29	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>		<i>109 %</i>	<i>60-175</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
C5 <= HC < C6	ND	0.0086	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.0086	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.0086	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.0086	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.0086	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.0086	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.0086	"	"	"	"	"	"	"
HC >= C12	ND	0.0086	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.043	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		<i>84.9 %</i>	<i>35-130</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB17-10 (1701054-16) Soil Sampled: 01/04/17 12:40 Received: 01/04/17 16:27									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 17:41	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		96.0 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.0086	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.0086	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.0086	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.0086	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.0086	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.0086	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.0086	"	"	"	"	"	"	"
HC >= C12	ND	0.0086	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.043	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		85.5 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
SB15-5 (1701054-17) Soil Sampled: 01/04/17 13:20 Received: 01/04/17 16:27										
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 17:53	EPA 8015B		
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>										
		76.8 %	60-175		"	"	"	"	"	
C5 <= HC < C6	ND	0.010	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"	
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	"	
HC >= C12	ND	0.010	"	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>										
		85.4 %	35-130		"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB15-10 (1701054-18) Soil Sampled: 01/04/17 13:28 Received: 01/04/17 16:27									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 18:05	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		70.0 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.010	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	"
HC >= C12	ND	0.010	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		85.2 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB16-5 (1701054-19) Soil Sampled: 01/04/17 13:42 Received: 01/04/17 16:27									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 19:57	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	3.4	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	10	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	21	1.0	"	"	"	"	"	"	"
HC >= C32	11	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	46	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		110 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.0066	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.0066	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.0066	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.0066	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.0066	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.0066	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.0066	"	"	"	"	"	"	"
HC >= C12	ND	0.0066	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.033	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		100 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB16-10 (1701054-20) Soil Sampled: 01/04/17 13:48 Received: 01/04/17 16:27									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 18:18	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		112 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.010	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	"
HC >= C12	ND	0.010	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		88.2 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB18-5 (1701054-21) Soil Sampled: 01/04/17 14:11 Received: 01/04/17 16:27									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 18:30	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		111 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.010	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	"
HC >= C12	ND	0.010	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		88.4 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
SB18-10 (1701054-22) Soil Sampled: 01/04/17 14:20 Received: 01/04/17 16:27										
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 18:43	EPA 8015B		
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>										
		104 %	60-175		"	"	"	"	"	
C5 <= HC < C6	ND	0.012	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"	
C6 <= HC < C7	ND	0.012	"	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.012	"	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.012	"	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.012	"	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.012	"	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.012	"	"	"	"	"	"	"	
HC >= C12	ND	0.012	"	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.062	"	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>										
		82.9 %	35-130		"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB19-5 (1701054-23) Soil Sampled: 01/04/17 14:37 Received: 01/04/17 16:27									
HC < C8	ND	10	mg/kg	10	B7A0954	01/06/17	01/06/17 20:09	EPA 8015B	
C8 <= HC < C9	ND	10	"	"	"	"	"	"	
C9 <= HC < C10	ND	10	"	"	"	"	"	"	
C10 <= HC < C11	ND	10	"	"	"	"	"	"	
C11 <= HC < C12	ND	10	"	"	"	"	"	"	
C12 <= HC < C14	ND	10	"	"	"	"	"	"	
C14 <= HC < C16	ND	10	"	"	"	"	"	"	
C16 <= HC < C18	ND	10	"	"	"	"	"	"	
C18 <= HC < C20	12	10	"	"	"	"	"	"	
C20 <= HC < C24	58	10	"	"	"	"	"	"	
C24 <= HC < C28	110	10	"	"	"	"	"	"	
C28 <= HC < C32	210	10	"	"	"	"	"	"	
HC >= C32	180	10	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	570	50	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>		%	60-175		"	"	"	"	S-03
C5 <= HC < C6	ND	0.010	"	1	B7A0558	01/05/17	01/05/17 11:09	"	
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	
HC >= C12	ND	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		73.2 %	35-130		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB19-10 (1701054-24) Soil Sampled: 01/04/17 14:45 Received: 01/04/17 16:27									
HC < C8	ND	1.0	mg/kg	1	B7A0954	01/06/17	01/06/17 18:55	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	"
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	"
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	"
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	"
HC >= C32	ND	1.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		87.2 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.010	"	"	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.010	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.010	"	"	"	"	"	"	"
C8 <= HC < C9	0.020	0.010	"	"	"	"	"	"	"
C9 <= HC < C10	0.082	0.010	"	"	"	"	"	"	"
C10 <= HC < C11	0.15	0.010	"	"	"	"	"	"	"
C11 <= HC < C12	0.17	0.010	"	"	"	"	"	"	"
HC >= C12	0.033	0.010	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	0.41	0.050	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		91.3 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB20-5 (1701054-25) Soil Sampled: 01/04/17 14:58 Received: 01/04/17 16:27									
HC < C8	ND	5.0	mg/kg	5	B7A0954	01/06/17	01/06/17 20:22	EPA 8015B	
C8 <= HC < C9	ND	5.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	5.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	5.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	5.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	5.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	5.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	5.0	"	"	"	"	"	"	"
C18 <= HC < C20	14	5.0	"	"	"	"	"	"	"
C20 <= HC < C24	110	5.0	"	"	"	"	"	"	"
C24 <= HC < C28	260	5.0	"	"	"	"	"	"	"
C28 <= HC < C32	430	5.0	"	"	"	"	"	"	"
HC >= C32	340	5.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	1100	25	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		151 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.0088	"	1	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	0.016	0.0088	"	"	"	"	"	"	"
C7 <= HC < C8	0.019	0.0088	"	"	"	"	"	"	"
C8 <= HC < C9	0.021	0.0088	"	"	"	"	"	"	"
C9 <= HC < C10	0.022	0.0088	"	"	"	"	"	"	"
C10 <= HC < C11	0.021	0.0088	"	"	"	"	"	"	"
C11 <= HC < C12	0.022	0.0088	"	"	"	"	"	"	"
HC >= C12	ND	0.0088	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	0.14	0.044	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		80.1 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB20-10 (1701054-26) Soil Sampled: 01/04/17 15:06 Received: 01/04/17 16:27									
HC < C8	ND	5.0	mg/kg	5	B7A0954	01/06/17	01/06/17 20:34	EPA 8015B	
C8 <= HC < C9	ND	5.0	"	"	"	"	"	"	"
C9 <= HC < C10	ND	5.0	"	"	"	"	"	"	"
C10 <= HC < C11	ND	5.0	"	"	"	"	"	"	"
C11 <= HC < C12	ND	5.0	"	"	"	"	"	"	"
C12 <= HC < C14	ND	5.0	"	"	"	"	"	"	"
C14 <= HC < C16	ND	5.0	"	"	"	"	"	"	"
C16 <= HC < C18	ND	5.0	"	"	"	"	"	"	"
C18 <= HC < C20	ND	5.0	"	"	"	"	"	"	"
C20 <= HC < C24	7.0	5.0	"	"	"	"	"	"	"
C24 <= HC < C28	53	5.0	"	"	"	"	"	"	"
C28 <= HC < C32	140	5.0	"	"	"	"	"	"	"
HC >= C32	120	5.0	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	320	25	"	"	"	"	"	"	"
<i>Surrogate: o-Terphenyl</i>									
		105 %	60-175		"	"	"	"	"
C5 <= HC < C6	ND	0.0084	"	1	B7A0558	01/05/17	01/05/17 11:09	"	"
C6 <= HC < C7	ND	0.0084	"	"	"	"	"	"	"
C7 <= HC < C8	ND	0.0084	"	"	"	"	"	"	"
C8 <= HC < C9	ND	0.0084	"	"	"	"	"	"	"
C9 <= HC < C10	ND	0.0084	"	"	"	"	"	"	"
C10 <= HC < C11	ND	0.0084	"	"	"	"	"	"	"
C11 <= HC < C12	ND	0.0084	"	"	"	"	"	"	"
HC >= C12	ND	0.0084	"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C4-C12)	ND	0.042	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>									
		89.9 %	35-130		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB8-5 (1701054-01) Soil Sampled: 01/04/17 08:46 Received: 01/04/17 16:27									
Benzene	ND	8.3	µg/kg	1	B7A0571	01/05/17	01/05/17 19:49	EPA 8260B	
Bromobenzene	ND	8.3	"	"	"	"	"	"	"
Bromochloromethane	ND	8.3	"	"	"	"	"	"	"
Bromodichloromethane	ND	8.3	"	"	"	"	"	"	"
Bromoform	ND	8.3	"	"	"	"	"	"	"
Bromomethane	ND	8.3	"	"	"	"	"	"	"
n-Butylbenzene	ND	8.3	"	"	"	"	"	"	"
sec-Butylbenzene	ND	8.3	"	"	"	"	"	"	"
tert-Butylbenzene	ND	8.3	"	"	"	"	"	"	"
Carbon tetrachloride	ND	8.3	"	"	"	"	"	"	"
Chlorobenzene	ND	8.3	"	"	"	"	"	"	"
Chloroethane	ND	8.3	"	"	"	"	"	"	"
Chloroform	ND	8.3	"	"	"	"	"	"	"
Chloromethane	ND	8.3	"	"	"	"	"	"	"
2-Chlorotoluene	ND	8.3	"	"	"	"	"	"	"
4-Chlorotoluene	ND	8.3	"	"	"	"	"	"	"
Dibromochloromethane	ND	8.3	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	8.3	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	8.3	"	"	"	"	"	"	"
Dibromomethane	ND	8.3	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	8.3	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	8.3	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	8.3	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	8.3	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	8.3	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	8.3	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	8.3	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	8.3	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	8.3	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	8.3	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	8.3	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	8.3	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	8.3	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	8.3	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	8.3	"	"	"	"	"	"	"
Ethylbenzene	ND	8.3	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	8.3	"	"	"	"	"	"	"
Isopropylbenzene	ND	8.3	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	8.3	"	"	"	"	"	"	"
Methylene chloride	ND	8.3	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	8.3	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB8-5 (1701054-01) Soil Sampled: 01/04/17 08:46 Received: 01/04/17 16:27										
Naphthalene	ND	8.3		µg/kg	1	B7A0571	01/05/17	01/05/17 19:49	EPA 8260B	
n-Propylbenzene	ND	8.3		"	"	"	"	"	"	"
Styrene	ND	8.3		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	8.3		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	8.3		"	"	"	"	"	"	"
Tetrachloroethene	ND	8.3		"	"	"	"	"	"	"
Toluene	ND	8.3		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	8.3		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	8.3		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	8.3		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	8.3		"	"	"	"	"	"	"
Trichloroethene	ND	8.3		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	8.3		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	8.3		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	8.3		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	8.3		"	"	"	"	"	"	"
Vinyl chloride	ND	8.3		"	"	"	"	"	"	"
m,p-Xylene	ND	8.3		"	"	"	"	"	"	"
o-Xylene	ND	8.3		"	"	"	"	"	"	"
Surrogate: Dibromofluoromethane		106 %		80-120		"	"	"	"	"
Surrogate: Toluene-d8		111 %		81-117		"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		114 %		74-121		"	"	"	"	"

SB8-10 (1701054-02) Soil Sampled: 01/04/17 08:57 Received: 01/04/17 16:27										
Benzene	ND	6.0		µg/kg	1	B7A0571	01/05/17	01/05/17 20:31	EPA 8260B	
Bromobenzene	ND	6.0		"	"	"	"	"	"	"
Bromochloromethane	ND	6.0		"	"	"	"	"	"	"
Bromodichloromethane	ND	6.0		"	"	"	"	"	"	"
Bromoform	ND	6.0		"	"	"	"	"	"	"
Bromomethane	ND	6.0		"	"	"	"	"	"	"
n-Butylbenzene	ND	6.0		"	"	"	"	"	"	"
sec-Butylbenzene	ND	6.0		"	"	"	"	"	"	"
tert-Butylbenzene	ND	6.0		"	"	"	"	"	"	"
Carbon tetrachloride	ND	6.0		"	"	"	"	"	"	"
Chlorobenzene	ND	6.0		"	"	"	"	"	"	"
Chloroethane	ND	6.0		"	"	"	"	"	"	"
Chloroform	ND	6.0		"	"	"	"	"	"	"
Chloromethane	ND	6.0		"	"	"	"	"	"	"
2-Chlorotoluene	ND	6.0		"	"	"	"	"	"	"
4-Chlorotoluene	ND	6.0		"	"	"	"	"	"	"
Dibromochloromethane	ND	6.0		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB8-10 (1701054-02) Soil Sampled: 01/04/17 08:57 Received: 01/04/17 16:27										
1,2-Dibromo-3-chloropropane	ND	6.0		µg/kg	1	B7A0571	01/05/17	01/05/17 20:31	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	6.0		"	"	"	"	"	"	"
Dibromomethane	ND	6.0		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	6.0		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	6.0		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	6.0		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	6.0		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	6.0		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	6.0		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	6.0		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	6.0		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	6.0		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	6.0		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	6.0		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	6.0		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	6.0		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	6.0		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	6.0		"	"	"	"	"	"	"
Ethylbenzene	ND	6.0		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	6.0		"	"	"	"	"	"	"
Isopropylbenzene	ND	6.0		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	6.0		"	"	"	"	"	"	"
Methylene chloride	ND	6.0		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	6.0		"	"	"	"	"	"	"
Naphthalene	ND	6.0		"	"	"	"	"	"	"
n-Propylbenzene	ND	6.0		"	"	"	"	"	"	"
Styrene	ND	6.0		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	6.0		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	6.0		"	"	"	"	"	"	"
Tetrachloroethene	ND	6.0		"	"	"	"	"	"	"
Toluene	ND	6.0		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	6.0		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	6.0		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	6.0		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	6.0		"	"	"	"	"	"	"
Trichloroethene	ND	6.0		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	6.0		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	6.0		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	6.0		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	6.0		"	"	"	"	"	"	"
Vinyl chloride	ND	6.0		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB8-10 (1701054-02) Soil Sampled: 01/04/17 08:57 Received: 01/04/17 16:27									
m,p-Xylene	ND	6.0	µg/kg	1	B7A0571	01/05/17	01/05/17 20:31	EPA 8260B	
o-Xylene	ND	6.0	"	"	"	"	"	"	"
Surrogate: Dibromofluoromethane		100 %	80-120		"	"	"	"	"
Surrogate: Toluene-d8		107 %	81-117		"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		118 %	74-121		"	"	"	"	"
SB9-5 (1701054-03) Soil Sampled: 01/04/17 09:17 Received: 01/04/17 16:27									
Benzene	ND	6.6	µg/kg	1	B7A0571	01/05/17	01/05/17 21:13	EPA 8260B	
Bromobenzene	ND	6.6	"	"	"	"	"	"	"
Bromochloromethane	ND	6.6	"	"	"	"	"	"	"
Bromodichloromethane	ND	6.6	"	"	"	"	"	"	"
Bromoform	ND	6.6	"	"	"	"	"	"	"
Bromomethane	ND	6.6	"	"	"	"	"	"	"
n-Butylbenzene	ND	6.6	"	"	"	"	"	"	"
sec-Butylbenzene	ND	6.6	"	"	"	"	"	"	"
tert-Butylbenzene	ND	6.6	"	"	"	"	"	"	"
Carbon tetrachloride	ND	6.6	"	"	"	"	"	"	"
Chlorobenzene	ND	6.6	"	"	"	"	"	"	"
Chloroethane	ND	6.6	"	"	"	"	"	"	"
Chloroform	ND	6.6	"	"	"	"	"	"	"
Chloromethane	ND	6.6	"	"	"	"	"	"	"
2-Chlorotoluene	ND	6.6	"	"	"	"	"	"	"
4-Chlorotoluene	ND	6.6	"	"	"	"	"	"	"
Dibromochloromethane	ND	6.6	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	6.6	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	6.6	"	"	"	"	"	"	"
Dibromomethane	ND	6.6	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	6.6	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	6.6	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	6.6	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	6.6	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	6.6	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	6.6	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	6.6	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	6.6	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	6.6	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	6.6	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	6.6	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	6.6	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	6.6	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	6.6	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB9-5 (1701054-03) Soil Sampled: 01/04/17 09:17 Received: 01/04/17 16:27									
trans-1,3-Dichloropropene	ND	6.6	µg/kg	1	B7A0571	01/05/17	01/05/17 21:13	EPA 8260B	
Ethylbenzene	ND	6.6	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	6.6	"	"	"	"	"	"	"
Isopropylbenzene	ND	6.6	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	6.6	"	"	"	"	"	"	"
Methylene chloride	ND	6.6	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	6.6	"	"	"	"	"	"	"
Naphthalene	ND	6.6	"	"	"	"	"	"	"
n-Propylbenzene	ND	6.6	"	"	"	"	"	"	"
Styrene	ND	6.6	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	6.6	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	6.6	"	"	"	"	"	"	"
Tetrachloroethene	ND	6.6	"	"	"	"	"	"	"
Toluene	ND	6.6	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	6.6	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	6.6	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	6.6	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	6.6	"	"	"	"	"	"	"
Trichloroethene	ND	6.6	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	6.6	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	6.6	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	6.6	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	6.6	"	"	"	"	"	"	"
Vinyl chloride	ND	6.6	"	"	"	"	"	"	"
m,p-Xylene	ND	6.6	"	"	"	"	"	"	"
o-Xylene	ND	6.6	"	"	"	"	"	"	"
Surrogate: Dibromofluoromethane		102 %	80-120		"	"	"	"	"
Surrogate: Toluene-d8		106 %	81-117		"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		119 %	74-121		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB9-10 (1701054-04) Soil Sampled: 01/04/17 09:30 Received: 01/04/17 16:27										
Benzene	ND	5.0		µg/kg	1	B7A0571	01/05/17	01/05/17 21:55	EPA 8260B	
Bromobenzene	ND	5.0		"	"	"	"	"	"	"
Bromochloromethane	ND	5.0		"	"	"	"	"	"	"
Bromodichloromethane	ND	5.0		"	"	"	"	"	"	"
Bromoform	ND	5.0		"	"	"	"	"	"	"
Bromomethane	ND	5.0		"	"	"	"	"	"	"
n-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
sec-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
tert-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
Carbon tetrachloride	ND	5.0		"	"	"	"	"	"	"
Chlorobenzene	ND	5.0		"	"	"	"	"	"	"
Chloroethane	ND	5.0		"	"	"	"	"	"	"
Chloroform	ND	5.0		"	"	"	"	"	"	"
Chloromethane	ND	5.0		"	"	"	"	"	"	"
2-Chlorotoluene	ND	5.0		"	"	"	"	"	"	"
4-Chlorotoluene	ND	5.0		"	"	"	"	"	"	"
Dibromochloromethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0		"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	"	"
Dibromomethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
Ethylbenzene	ND	5.0		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0		"	"	"	"	"	"	"
Isopropylbenzene	ND	5.0		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	5.0		"	"	"	"	"	"	"
Methylene chloride	ND	5.0		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB9-10 (1701054-04) Soil Sampled: 01/04/17 09:30 Received: 01/04/17 16:27										
Naphthalene	ND	5.0		µg/kg	1	B7A0571	01/05/17	01/05/17 21:55	EPA 8260B	
n-Propylbenzene	ND	5.0		"	"	"	"	"	"	"
Styrene	ND	5.0		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	"
Tetrachloroethene	ND	5.0		"	"	"	"	"	"	"
Toluene	ND	5.0		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0		"	"	"	"	"	"	"
Trichloroethene	ND	5.0		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.0		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	5.0		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	"
Vinyl chloride	ND	5.0		"	"	"	"	"	"	"
m,p-Xylene	ND	5.0		"	"	"	"	"	"	"
o-Xylene	ND	5.0		"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		117 %		80-120		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		109 %		81-117		"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		111 %		74-121		"	"	"	"	"
SB10-5 (1701054-05) Soil Sampled: 01/04/17 09:48 Received: 01/04/17 16:27										
Benzene	ND	3.9		µg/kg	1	B7A0571	01/05/17	01/05/17 22:37	EPA 8260B	
Bromobenzene	ND	3.9		"	"	"	"	"	"	"
Bromochloromethane	ND	3.9		"	"	"	"	"	"	"
Bromodichloromethane	ND	3.9		"	"	"	"	"	"	"
Bromoform	ND	3.9		"	"	"	"	"	"	"
Bromomethane	ND	3.9		"	"	"	"	"	"	"
n-Butylbenzene	74	3.9		"	"	"	"	"	"	"
sec-Butylbenzene	7.6	3.9		"	"	"	"	"	"	"
tert-Butylbenzene	51	3.9		"	"	"	"	"	"	"
Carbon tetrachloride	ND	3.9		"	"	"	"	"	"	"
Chlorobenzene	ND	3.9		"	"	"	"	"	"	"
Chloroethane	ND	3.9		"	"	"	"	"	"	"
Chloroform	ND	3.9		"	"	"	"	"	"	"
Chloromethane	ND	3.9		"	"	"	"	"	"	"
2-Chlorotoluene	ND	3.9		"	"	"	"	"	"	"
4-Chlorotoluene	ND	3.9		"	"	"	"	"	"	"
Dibromochloromethane	ND	3.9		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB10-5 (1701054-05) Soil Sampled: 01/04/17 09:48 Received: 01/04/17 16:27										
1,2-Dibromo-3-chloropropane	ND	3.9		µg/kg	1	B7A0571	01/05/17	01/05/17 22:37	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	3.9		"	"	"	"	"	"	
Dibromomethane	ND	3.9		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.9		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.9		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.9		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.9		"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.9		"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.9		"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.9		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.9		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.9		"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.9		"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.9		"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.9		"	"	"	"	"	"	
1,1-Dichloropropene	ND	3.9		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	3.9		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.9		"	"	"	"	"	"	
Ethylbenzene	7.9	3.9		"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.9		"	"	"	"	"	"	
Isopropylbenzene	230	3.9		"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.9		"	"	"	"	"	"	
Methylene chloride	ND	3.9		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	3.9		"	"	"	"	"	"	
Naphthalene	23	3.9		"	"	"	"	"	"	
n-Propylbenzene	40	3.9		"	"	"	"	"	"	
Styrene	ND	3.9		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.9		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	230	3.9		"	"	"	"	"	"	
Tetrachloroethene	ND	3.9		"	"	"	"	"	"	
Toluene	ND	3.9		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.9		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.9		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.9		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.9		"	"	"	"	"	"	
Trichloroethene	ND	3.9		"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.9		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.9		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	43	3.9		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	41	3.9		"	"	"	"	"	"	
Vinyl chloride	ND	3.9		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB10-5 (1701054-05) Soil Sampled: 01/04/17 09:48 Received: 01/04/17 16:27										
m,p-Xylene	6.9	3.9		µg/kg	1	B7A0571	01/05/17	01/05/17 22:37	EPA 8260B	
o-Xylene	ND	3.9		"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %		80-120		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		112 %		81-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		114 %		74-121		"	"	"	"	
SB10-10 (1701054-06) Soil Sampled: 01/04/17 10:07 Received: 01/04/17 16:27										
Benzene	ND	4.4		µg/kg	1	B7A0571	01/05/17	01/05/17 23:18	EPA 8260B	
Bromobenzene	ND	4.4		"	"	"	"	"	"	
Bromochloromethane	ND	4.4		"	"	"	"	"	"	
Bromodichloromethane	ND	4.4		"	"	"	"	"	"	
Bromoform	ND	4.4		"	"	"	"	"	"	
Bromomethane	ND	4.4		"	"	"	"	"	"	
n-Butylbenzene	89	4.4		"	"	"	"	"	"	
sec-Butylbenzene	12	4.4		"	"	"	"	"	"	
tert-Butylbenzene	60	4.4		"	"	"	"	"	"	
Carbon tetrachloride	ND	4.4		"	"	"	"	"	"	
Chlorobenzene	ND	4.4		"	"	"	"	"	"	
Chloroethane	ND	4.4		"	"	"	"	"	"	
Chloroform	ND	4.4		"	"	"	"	"	"	
Chloromethane	ND	4.4		"	"	"	"	"	"	
2-Chlorotoluene	ND	4.4		"	"	"	"	"	"	
4-Chlorotoluene	ND	4.4		"	"	"	"	"	"	
Dibromochloromethane	ND	4.4		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.4		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.4		"	"	"	"	"	"	
Dibromomethane	ND	4.4		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.4		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.4		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.4		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.4		"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.4		"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.4		"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.4		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.4		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.4		"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.4		"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.4		"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.4		"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.4		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.4		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB10-10 (1701054-06) Soil Sampled: 01/04/17 10:07 Received: 01/04/17 16:27										
trans-1,3-Dichloropropene	ND	4.4		µg/kg	1	B7A0571	01/05/17	01/05/17 23:18	EPA 8260B	
Ethylbenzene	4.9	4.4		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	4.4		"	"	"	"	"	"	"
Isopropylbenzene	330	4.4		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	4.4		"	"	"	"	"	"	"
Methylene chloride	ND	4.4		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	4.4		"	"	"	"	"	"	"
Naphthalene	45	4.4		"	"	"	"	"	"	"
n-Propylbenzene	380	4.4		"	"	"	"	"	"	"
Styrene	ND	4.4		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	4.4		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	370	4.4		"	"	"	"	"	"	"
Tetrachloroethene	ND	4.4		"	"	"	"	"	"	"
Toluene	ND	4.4		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	4.4		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	4.4		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	4.4		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	4.4		"	"	"	"	"	"	"
Trichloroethene	ND	4.4		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	4.4		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	4.4		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	34	4.4		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	4.4		"	"	"	"	"	"	"
Vinyl chloride	ND	4.4		"	"	"	"	"	"	"
m,p-Xylene	4.7	4.4		"	"	"	"	"	"	"
o-Xylene	ND	4.4		"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		97.7 %			80-120	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		98.9 %			81-117	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		96.8 %			74-121	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB11-5 (1701054-07) Soil Sampled: 01/04/17 10:11 Received: 01/04/17 16:27										
Benzene	ND	4.5		µg/kg	1	B7A0571	01/05/17	01/05/17 23:58	EPA 8260B	
Bromobenzene	ND	4.5		"	"	"	"	"	"	"
Bromochloromethane	ND	4.5		"	"	"	"	"	"	"
Bromodichloromethane	ND	4.5		"	"	"	"	"	"	"
Bromoform	ND	4.5		"	"	"	"	"	"	"
Bromomethane	ND	4.5		"	"	"	"	"	"	"
n-Butylbenzene	ND	4.5		"	"	"	"	"	"	"
sec-Butylbenzene	ND	4.5		"	"	"	"	"	"	"
tert-Butylbenzene	ND	4.5		"	"	"	"	"	"	"
Carbon tetrachloride	ND	4.5		"	"	"	"	"	"	"
Chlorobenzene	ND	4.5		"	"	"	"	"	"	"
Chloroethane	ND	4.5		"	"	"	"	"	"	"
Chloroform	ND	4.5		"	"	"	"	"	"	"
Chloromethane	ND	4.5		"	"	"	"	"	"	"
2-Chlorotoluene	ND	4.5		"	"	"	"	"	"	"
4-Chlorotoluene	ND	4.5		"	"	"	"	"	"	"
Dibromochloromethane	ND	4.5		"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	4.5		"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	4.5		"	"	"	"	"	"	"
Dibromomethane	ND	4.5		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	4.5		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	4.5		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	4.5		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	4.5		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.5		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.5		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.5		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.5		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.5		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.5		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	4.5		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	4.5		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	4.5		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.5		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.5		"	"	"	"	"	"	"
Ethylbenzene	ND	4.5		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	4.5		"	"	"	"	"	"	"
Isopropylbenzene	ND	4.5		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	4.5		"	"	"	"	"	"	"
Methylene chloride	ND	4.5		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	4.5		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB11-5 (1701054-07) Soil Sampled: 01/04/17 10:11 Received: 01/04/17 16:27									
Naphthalene	ND	4.5	µg/kg	1	B7A0571	01/05/17	01/05/17 23:58	EPA 8260B	
n-Propylbenzene	ND	4.5	"	"	"	"	"	"	"
Styrene	ND	4.5	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	"
Tetrachloroethene	ND	4.5	"	"	"	"	"	"	"
Toluene	ND	4.5	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	4.5	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	4.5	"	"	"	"	"	"	"
Trichloroethene	ND	4.5	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	4.5	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	4.5	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	4.5	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	4.5	"	"	"	"	"	"	"
Vinyl chloride	ND	4.5	"	"	"	"	"	"	"
m,p-Xylene	ND	4.5	"	"	"	"	"	"	"
o-Xylene	ND	4.5	"	"	"	"	"	"	"
Surrogate: Dibromofluoromethane		102 %	80-120		"	"	"	"	"
Surrogate: Toluene-d8		93.6 %	81-117		"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		104 %	74-121		"	"	"	"	"

SB11-10 (1701054-08) Soil Sampled: 01/04/17 10:19 Received: 01/04/17 16:27									
Benzene	ND	5.0	µg/kg	1	B7A0571	01/05/17	01/06/17 00:38	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	"
Bromochloromethane	ND	5.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	"
Bromoform	ND	5.0	"	"	"	"	"	"	"
Bromomethane	ND	5.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	"
Chlorobenzene	ND	5.0	"	"	"	"	"	"	"
Chloroethane	ND	5.0	"	"	"	"	"	"	"
Chloroform	ND	5.0	"	"	"	"	"	"	"
Chloromethane	ND	5.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB11-10 (1701054-08) Soil Sampled: 01/04/17 10:19 Received: 01/04/17 16:27										
1,2-Dibromo-3-chloropropane	ND	5.0		µg/kg	1	B7A0571	01/05/17	01/06/17 00:38	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	"	"
Dibromomethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
Ethylbenzene	ND	5.0		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0		"	"	"	"	"	"	"
Isopropylbenzene	ND	5.0		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	5.0		"	"	"	"	"	"	"
Methylene chloride	ND	5.0		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0		"	"	"	"	"	"	"
Naphthalene	ND	5.0		"	"	"	"	"	"	"
n-Propylbenzene	ND	5.0		"	"	"	"	"	"	"
Styrene	ND	5.0		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	"
Tetrachloroethene	ND	5.0		"	"	"	"	"	"	"
Toluene	ND	5.0		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0		"	"	"	"	"	"	"
Trichloroethene	ND	5.0		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.0		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	5.0		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	"
Vinyl chloride	ND	5.0		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB11-10 (1701054-08) Soil Sampled: 01/04/17 10:19 Received: 01/04/17 16:27										
m,p-Xylene	ND	5.0		µg/kg	1	B7A0571	01/05/17	01/06/17 00:38	EPA 8260B	
o-Xylene	ND	5.0		"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		89.5 %		80-120		"	"	"	"	
Surrogate: Toluene-d8		95.6 %		81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %		74-121		"	"	"	"	
SB12-5 (1701054-09) Soil Sampled: 01/04/17 10:48 Received: 01/04/17 16:27										
Benzene	ND	3.9		µg/kg	1	B7A0571	01/05/17	01/06/17 01:18	EPA 8260B	
Bromobenzene	ND	3.9		"	"	"	"	"	"	
Bromochloromethane	ND	3.9		"	"	"	"	"	"	
Bromodichloromethane	ND	3.9		"	"	"	"	"	"	
Bromoform	ND	3.9		"	"	"	"	"	"	
Bromomethane	ND	3.9		"	"	"	"	"	"	
n-Butylbenzene	ND	3.9		"	"	"	"	"	"	
sec-Butylbenzene	ND	3.9		"	"	"	"	"	"	
tert-Butylbenzene	ND	3.9		"	"	"	"	"	"	
Carbon tetrachloride	ND	3.9		"	"	"	"	"	"	
Chlorobenzene	ND	3.9		"	"	"	"	"	"	
Chloroethane	ND	3.9		"	"	"	"	"	"	
Chloroform	ND	3.9		"	"	"	"	"	"	
Chloromethane	ND	3.9		"	"	"	"	"	"	
2-Chlorotoluene	ND	3.9		"	"	"	"	"	"	
4-Chlorotoluene	ND	3.9		"	"	"	"	"	"	
Dibromochloromethane	ND	3.9		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.9		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	3.9		"	"	"	"	"	"	
Dibromomethane	ND	3.9		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.9		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.9		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.9		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.9		"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.9		"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.9		"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.9		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.9		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.9		"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.9		"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.9		"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.9		"	"	"	"	"	"	
1,1-Dichloropropene	ND	3.9		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	3.9		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB12-5 (1701054-09) Soil Sampled: 01/04/17 10:48 Received: 01/04/17 16:27										
trans-1,3-Dichloropropene	ND	3.9		µg/kg	1	B7A0571	01/05/17	01/06/17 01:18	EPA 8260B	
Ethylbenzene	ND	3.9		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	3.9		"	"	"	"	"	"	"
Isopropylbenzene	ND	3.9		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	3.9		"	"	"	"	"	"	"
Methylene chloride	ND	3.9		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	3.9		"	"	"	"	"	"	"
Naphthalene	ND	3.9		"	"	"	"	"	"	"
n-Propylbenzene	ND	3.9		"	"	"	"	"	"	"
Styrene	ND	3.9		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	3.9		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	3.9		"	"	"	"	"	"	"
Tetrachloroethene	ND	3.9		"	"	"	"	"	"	"
Toluene	ND	3.9		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	3.9		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	3.9		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	3.9		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	3.9		"	"	"	"	"	"	"
Trichloroethene	ND	3.9		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	3.9		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	3.9		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	3.9		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	3.9		"	"	"	"	"	"	"
Vinyl chloride	ND	3.9		"	"	"	"	"	"	"
m,p-Xylene	ND	3.9		"	"	"	"	"	"	"
o-Xylene	ND	3.9		"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		<i>106 %</i>		<i>80-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Toluene-d8</i>		<i>94.3 %</i>		<i>81-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>100 %</i>		<i>74-121</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB12-10 (1701054-10) Soil Sampled: 01/04/17 10:55 Received: 01/04/17 16:27										
Benzene	ND	4.4		µg/kg	1	B7A0571	01/05/17	01/06/17 01:57	EPA 8260B	
Bromobenzene	ND	4.4		"	"	"	"	"	"	"
Bromochloromethane	ND	4.4		"	"	"	"	"	"	"
Bromodichloromethane	ND	4.4		"	"	"	"	"	"	"
Bromoform	ND	4.4		"	"	"	"	"	"	"
Bromomethane	ND	4.4		"	"	"	"	"	"	"
n-Butylbenzene	ND	4.4		"	"	"	"	"	"	"
sec-Butylbenzene	ND	4.4		"	"	"	"	"	"	"
tert-Butylbenzene	ND	4.4		"	"	"	"	"	"	"
Carbon tetrachloride	ND	4.4		"	"	"	"	"	"	"
Chlorobenzene	ND	4.4		"	"	"	"	"	"	"
Chloroethane	ND	4.4		"	"	"	"	"	"	"
Chloroform	ND	4.4		"	"	"	"	"	"	"
Chloromethane	ND	4.4		"	"	"	"	"	"	"
2-Chlorotoluene	ND	4.4		"	"	"	"	"	"	"
4-Chlorotoluene	ND	4.4		"	"	"	"	"	"	"
Dibromochloromethane	ND	4.4		"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	4.4		"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	4.4		"	"	"	"	"	"	"
Dibromomethane	ND	4.4		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	4.4		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	4.4		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	4.4		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	4.4		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.4		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.4		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.4		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.4		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.4		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.4		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	4.4		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	4.4		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	4.4		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.4		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.4		"	"	"	"	"	"	"
Ethylbenzene	ND	4.4		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	4.4		"	"	"	"	"	"	"
Isopropylbenzene	ND	4.4		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	4.4		"	"	"	"	"	"	"
Methylene chloride	ND	4.4		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	4.4		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB12-10 (1701054-10) Soil Sampled: 01/04/17 10:55 Received: 01/04/17 16:27										
Naphthalene	ND	4.4		µg/kg	1	B7A0571	01/05/17	01/06/17 01:57	EPA 8260B	
n-Propylbenzene	ND	4.4		"	"	"	"	"	"	"
Styrene	ND	4.4		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	4.4		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	4.4		"	"	"	"	"	"	"
Tetrachloroethene	ND	4.4		"	"	"	"	"	"	"
Toluene	ND	4.4		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	4.4		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	4.4		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	4.4		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	4.4		"	"	"	"	"	"	"
Trichloroethene	ND	4.4		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	4.4		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	4.4		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	4.4		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	4.4		"	"	"	"	"	"	"
Vinyl chloride	ND	4.4		"	"	"	"	"	"	"
m,p-Xylene	ND	4.4		"	"	"	"	"	"	"
o-Xylene	ND	4.4		"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		90.4 %		80-120		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		95.9 %		81-117		"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		96.6 %		74-121		"	"	"	"	"

SB13-5 (1701054-11) Soil Sampled: 01/04/17 11:18 Received: 01/04/17 16:27										
Benzene	ND	3.7		µg/kg	1	B7A0571	01/05/17	01/06/17 02:36	EPA 8260B	
Bromobenzene	ND	3.7		"	"	"	"	"	"	"
Bromochloromethane	ND	3.7		"	"	"	"	"	"	"
Bromodichloromethane	ND	3.7		"	"	"	"	"	"	"
Bromoform	ND	3.7		"	"	"	"	"	"	"
Bromomethane	ND	3.7		"	"	"	"	"	"	"
n-Butylbenzene	ND	3.7		"	"	"	"	"	"	"
sec-Butylbenzene	ND	3.7		"	"	"	"	"	"	"
tert-Butylbenzene	ND	3.7		"	"	"	"	"	"	"
Carbon tetrachloride	ND	3.7		"	"	"	"	"	"	"
Chlorobenzene	ND	3.7		"	"	"	"	"	"	"
Chloroethane	ND	3.7		"	"	"	"	"	"	"
Chloroform	ND	3.7		"	"	"	"	"	"	"
Chloromethane	ND	3.7		"	"	"	"	"	"	"
2-Chlorotoluene	ND	3.7		"	"	"	"	"	"	"
4-Chlorotoluene	ND	3.7		"	"	"	"	"	"	"
Dibromochloromethane	ND	3.7		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB13-5 (1701054-11) Soil Sampled: 01/04/17 11:18 Received: 01/04/17 16:27										
1,2-Dibromo-3-chloropropane	ND	3.7		µg/kg	1	B7A0571	01/05/17	01/06/17 02:36	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	3.7		"	"	"	"	"	"	
Dibromomethane	ND	3.7		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.7		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.7		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.7		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.7		"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.7		"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.7		"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.7		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.7		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.7		"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.7		"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.7		"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.7		"	"	"	"	"	"	
1,1-Dichloropropene	ND	3.7		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	3.7		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.7		"	"	"	"	"	"	
Ethylbenzene	ND	3.7		"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.7		"	"	"	"	"	"	
Isopropylbenzene	ND	3.7		"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.7		"	"	"	"	"	"	
Methylene chloride	ND	3.7		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	3.7		"	"	"	"	"	"	
Naphthalene	ND	3.7		"	"	"	"	"	"	
n-Propylbenzene	ND	3.7		"	"	"	"	"	"	
Styrene	ND	3.7		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.7		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.7		"	"	"	"	"	"	
Tetrachloroethene	ND	3.7		"	"	"	"	"	"	
Toluene	ND	3.7		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.7		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.7		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.7		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.7		"	"	"	"	"	"	
Trichloroethene	ND	3.7		"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.7		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.7		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.7		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.7		"	"	"	"	"	"	
Vinyl chloride	ND	3.7		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB13-5 (1701054-11) Soil Sampled: 01/04/17 11:18 Received: 01/04/17 16:27									
m,p-Xylene	ND	3.7	µg/kg	1	B7A0571	01/05/17	01/06/17 02:36	EPA 8260B	
o-Xylene	ND	3.7	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		98.7 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		98.9 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	74-121		"	"	"	"	
SB13-10 (1701054-12) Soil Sampled: 01/04/17 11:35 Received: 01/04/17 16:27									
Benzene	ND	5.0	µg/kg	1	B7A0571	01/05/17	01/06/17 03:14	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB13-10 (1701054-12) Soil Sampled: 01/04/17 11:35 Received: 01/04/17 16:27										
trans-1,3-Dichloropropene	ND	5.0		µg/kg	1	B7A0571	01/05/17	01/06/17 03:14	EPA 8260B	
Ethylbenzene	ND	5.0		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0		"	"	"	"	"	"	"
Isopropylbenzene	ND	5.0		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	5.0		"	"	"	"	"	"	"
Methylene chloride	ND	5.0		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0		"	"	"	"	"	"	"
Naphthalene	ND	5.0		"	"	"	"	"	"	"
n-Propylbenzene	ND	5.0		"	"	"	"	"	"	"
Styrene	ND	5.0		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	"
Tetrachloroethene	ND	5.0		"	"	"	"	"	"	"
Toluene	ND	5.0		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0		"	"	"	"	"	"	"
Trichloroethene	ND	5.0		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.0		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	5.0		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	"
Vinyl chloride	ND	5.0		"	"	"	"	"	"	"
m,p-Xylene	ND	5.0		"	"	"	"	"	"	"
o-Xylene	ND	5.0		"	"	"	"	"	"	"
Surrogate: Dibromofluoromethane		89.8 %		80-120		"	"	"	"	"
Surrogate: Toluene-d8		91.2 %		81-117		"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		110 %		74-121		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB14-5 (1701054-13) Soil Sampled: 01/04/17 11:58 Received: 01/04/17 16:27										
Benzene	ND	3.8		µg/kg	1	B7A0571	01/05/17	01/06/17 03:51	EPA 8260B	
Bromobenzene	ND	3.8		"	"	"	"	"	"	"
Bromochloromethane	ND	3.8		"	"	"	"	"	"	"
Bromodichloromethane	ND	3.8		"	"	"	"	"	"	"
Bromoform	ND	3.8		"	"	"	"	"	"	"
Bromomethane	ND	3.8		"	"	"	"	"	"	"
n-Butylbenzene	ND	3.8		"	"	"	"	"	"	"
sec-Butylbenzene	ND	3.8		"	"	"	"	"	"	"
tert-Butylbenzene	ND	3.8		"	"	"	"	"	"	"
Carbon tetrachloride	ND	3.8		"	"	"	"	"	"	"
Chlorobenzene	ND	3.8		"	"	"	"	"	"	"
Chloroethane	ND	3.8		"	"	"	"	"	"	"
Chloroform	ND	3.8		"	"	"	"	"	"	"
Chloromethane	ND	3.8		"	"	"	"	"	"	"
2-Chlorotoluene	ND	3.8		"	"	"	"	"	"	"
4-Chlorotoluene	ND	3.8		"	"	"	"	"	"	"
Dibromochloromethane	ND	3.8		"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	3.8		"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	3.8		"	"	"	"	"	"	"
Dibromomethane	ND	3.8		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	3.8		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	3.8		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	3.8		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	3.8		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	3.8		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	3.8		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	3.8		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	3.8		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	3.8		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	3.8		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	3.8		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	3.8		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	3.8		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	3.8		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	3.8		"	"	"	"	"	"	"
Ethylbenzene	ND	3.8		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	3.8		"	"	"	"	"	"	"
Isopropylbenzene	ND	3.8		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	3.8		"	"	"	"	"	"	"
Methylene chloride	ND	3.8		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	3.8		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB14-5 (1701054-13) Soil Sampled: 01/04/17 11:58 Received: 01/04/17 16:27										
Naphthalene	ND	3.8		µg/kg	1	B7A0571	01/05/17	01/06/17 03:51	EPA 8260B	
n-Propylbenzene	ND	3.8		"	"	"	"	"	"	"
Styrene	ND	3.8		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	3.8		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	3.8		"	"	"	"	"	"	"
Tetrachloroethene	ND	3.8		"	"	"	"	"	"	"
Toluene	ND	3.8		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	3.8		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	3.8		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	3.8		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	3.8		"	"	"	"	"	"	"
Trichloroethene	ND	3.8		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	3.8		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	3.8		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	3.8		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	3.8		"	"	"	"	"	"	"
Vinyl chloride	ND	3.8		"	"	"	"	"	"	"
m,p-Xylene	ND	3.8		"	"	"	"	"	"	"
o-Xylene	ND	3.8		"	"	"	"	"	"	"
Surrogate: Dibromofluoromethane		103 %		80-120		"	"	"	"	"
Surrogate: Toluene-d8		92.6 %		81-117		"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		106 %		74-121		"	"	"	"	"

SB14-10 (1701054-14) Soil Sampled: 01/04/17 12:10 Received: 01/04/17 16:27

Benzene	ND	4.4		µg/kg	1	B7A0571	01/05/17	01/06/17 04:28	EPA 8260B	
Bromobenzene	ND	4.4		"	"	"	"	"	"	"
Bromochloromethane	ND	4.4		"	"	"	"	"	"	"
Bromodichloromethane	ND	4.4		"	"	"	"	"	"	"
Bromoform	ND	4.4		"	"	"	"	"	"	"
Bromomethane	ND	4.4		"	"	"	"	"	"	"
n-Butylbenzene	ND	4.4		"	"	"	"	"	"	"
sec-Butylbenzene	ND	4.4		"	"	"	"	"	"	"
tert-Butylbenzene	ND	4.4		"	"	"	"	"	"	"
Carbon tetrachloride	ND	4.4		"	"	"	"	"	"	"
Chlorobenzene	ND	4.4		"	"	"	"	"	"	"
Chloroethane	ND	4.4		"	"	"	"	"	"	"
Chloroform	ND	4.4		"	"	"	"	"	"	"
Chloromethane	ND	4.4		"	"	"	"	"	"	"
2-Chlorotoluene	ND	4.4		"	"	"	"	"	"	"
4-Chlorotoluene	ND	4.4		"	"	"	"	"	"	"
Dibromochloromethane	ND	4.4		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB14-10 (1701054-14) Soil Sampled: 01/04/17 12:10 Received: 01/04/17 16:27										
1,2-Dibromo-3-chloropropane	ND	4.4		µg/kg	1	B7A0571	01/05/17	01/06/17 04:28	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	4.4		"	"	"	"	"	"	
Dibromomethane	ND	4.4		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.4		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.4		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.4		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.4		"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.4		"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.4		"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.4		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.4		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.4		"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.4		"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.4		"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.4		"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.4		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.4		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.4		"	"	"	"	"	"	
Ethylbenzene	ND	4.4		"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.4		"	"	"	"	"	"	
Isopropylbenzene	ND	4.4		"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.4		"	"	"	"	"	"	
Methylene chloride	ND	4.4		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	4.4		"	"	"	"	"	"	
Naphthalene	ND	4.4		"	"	"	"	"	"	
n-Propylbenzene	ND	4.4		"	"	"	"	"	"	
Styrene	ND	4.4		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.4		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.4		"	"	"	"	"	"	
Tetrachloroethene	ND	4.4		"	"	"	"	"	"	
Toluene	ND	4.4		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.4		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.4		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.4		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.4		"	"	"	"	"	"	
Trichloroethene	ND	4.4		"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.4		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.4		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.4		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.4		"	"	"	"	"	"	
Vinyl chloride	ND	4.4		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB14-10 (1701054-14) Soil Sampled: 01/04/17 12:10 Received: 01/04/17 16:27										
m,p-Xylene	ND	4.4		µg/kg	1	B7A0571	01/05/17	01/06/17 04:28	EPA 8260B	
o-Xylene	ND	4.4		"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		103 %		80-120		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96.6 %		81-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %		74-121		"	"	"	"	
SB17-5 (1701054-15) Soil Sampled: 01/04/17 12:33 Received: 01/04/17 16:27										
Benzene	ND	4.4		µg/kg	1	B7A0571	01/05/17	01/06/17 05:05	EPA 8260B	
Bromobenzene	ND	4.4		"	"	"	"	"	"	
Bromochloromethane	ND	4.4		"	"	"	"	"	"	
Bromodichloromethane	ND	4.4		"	"	"	"	"	"	
Bromoform	ND	4.4		"	"	"	"	"	"	
Bromomethane	ND	4.4		"	"	"	"	"	"	
n-Butylbenzene	ND	4.4		"	"	"	"	"	"	
sec-Butylbenzene	ND	4.4		"	"	"	"	"	"	
tert-Butylbenzene	ND	4.4		"	"	"	"	"	"	
Carbon tetrachloride	ND	4.4		"	"	"	"	"	"	
Chlorobenzene	ND	4.4		"	"	"	"	"	"	
Chloroethane	ND	4.4		"	"	"	"	"	"	
Chloroform	ND	4.4		"	"	"	"	"	"	
Chloromethane	ND	4.4		"	"	"	"	"	"	
2-Chlorotoluene	ND	4.4		"	"	"	"	"	"	
4-Chlorotoluene	ND	4.4		"	"	"	"	"	"	
Dibromochloromethane	ND	4.4		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.4		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.4		"	"	"	"	"	"	
Dibromomethane	ND	4.4		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.4		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.4		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.4		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.4		"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.4		"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.4		"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.4		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.4		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.4		"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.4		"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.4		"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.4		"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.4		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.4		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB17-5 (1701054-15) Soil Sampled: 01/04/17 12:33 Received: 01/04/17 16:27									
trans-1,3-Dichloropropene	ND	4.4	µg/kg	1	B7A0571	01/05/17	01/06/17 05:05	EPA 8260B	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.4	"	"	"	"	"	"	
Isopropylbenzene	ND	4.4	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.4	"	"	"	"	"	"	
Methylene chloride	ND	4.4	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	4.4	"	"	"	"	"	"	
Naphthalene	ND	4.4	"	"	"	"	"	"	
n-Propylbenzene	ND	4.4	"	"	"	"	"	"	
Styrene	ND	4.4	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.4	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.4	"	"	"	"	"	"	
Tetrachloroethene	ND	4.4	"	"	"	"	"	"	
Toluene	ND	4.4	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.4	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.4	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.4	"	"	"	"	"	"	
Trichloroethene	ND	4.4	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.4	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.4	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.4	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.4	"	"	"	"	"	"	
Vinyl chloride	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	4.4	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		107 %		80-120	"	"	"	"	
Surrogate: Toluene-d8		99.3 %		81-117	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.7 %		74-121	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB17-10 (1701054-16) Soil Sampled: 01/04/17 12:40 Received: 01/04/17 16:27										
Benzene	ND	5.0		µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Bromobenzene	ND	5.0		"	"	"	"	"	"	"
Bromochloromethane	ND	5.0		"	"	"	"	"	"	"
Bromodichloromethane	ND	5.0		"	"	"	"	"	"	"
Bromoform	ND	5.0		"	"	"	"	"	"	"
Bromomethane	ND	5.0		"	"	"	"	"	"	"
n-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
sec-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
tert-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
Carbon tetrachloride	ND	5.0		"	"	"	"	"	"	"
Chlorobenzene	ND	5.0		"	"	"	"	"	"	"
Chloroethane	ND	5.0		"	"	"	"	"	"	"
Chloroform	ND	5.0		"	"	"	"	"	"	"
Chloromethane	ND	5.0		"	"	"	"	"	"	"
2-Chlorotoluene	ND	5.0		"	"	"	"	"	"	"
4-Chlorotoluene	ND	5.0		"	"	"	"	"	"	"
Dibromochloromethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0		"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	"	"
Dibromomethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
Ethylbenzene	ND	5.0		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0		"	"	"	"	"	"	"
Isopropylbenzene	ND	5.0		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	5.0		"	"	"	"	"	"	"
Methylene chloride	ND	5.0		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB17-10 (1701054-16) Soil Sampled: 01/04/17 12:40 Received: 01/04/17 16:27										
Naphthalene	ND	5.0		µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
n-Propylbenzene	ND	5.0		"	"	"	"	"	"	"
Styrene	ND	5.0		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	"
Tetrachloroethene	ND	5.0		"	"	"	"	"	"	"
Toluene	ND	5.0		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0		"	"	"	"	"	"	"
Trichloroethene	ND	5.0		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.0		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	5.0		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	"
Vinyl chloride	ND	5.0		"	"	"	"	"	"	"
m,p-Xylene	ND	5.0		"	"	"	"	"	"	"
o-Xylene	ND	5.0		"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		105 %		80-120		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		96.8 %		81-117		"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %		74-121		"	"	"	"	"

SB15-5 (1701054-17) Soil Sampled: 01/04/17 13:20 Received: 01/04/17 16:27										
Benzene	ND	5.0		µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Bromobenzene	ND	5.0		"	"	"	"	"	"	"
Bromochloromethane	ND	5.0		"	"	"	"	"	"	"
Bromodichloromethane	ND	5.0		"	"	"	"	"	"	"
Bromoform	ND	5.0		"	"	"	"	"	"	"
Bromomethane	ND	5.0		"	"	"	"	"	"	"
n-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
sec-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
tert-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
Carbon tetrachloride	ND	5.0		"	"	"	"	"	"	"
Chlorobenzene	ND	5.0		"	"	"	"	"	"	"
Chloroethane	ND	5.0		"	"	"	"	"	"	"
Chloroform	ND	5.0		"	"	"	"	"	"	"
Chloromethane	ND	5.0		"	"	"	"	"	"	"
2-Chlorotoluene	ND	5.0		"	"	"	"	"	"	"
4-Chlorotoluene	ND	5.0		"	"	"	"	"	"	"
Dibromochloromethane	ND	5.0		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB15-5 (1701054-17) Soil Sampled: 01/04/17 13:20 Received: 01/04/17 16:27										
1,2-Dibromo-3-chloropropane	ND	5.0		µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	"	"
Dibromomethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
Ethylbenzene	ND	5.0		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0		"	"	"	"	"	"	"
Isopropylbenzene	ND	5.0		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	5.0		"	"	"	"	"	"	"
Methylene chloride	ND	5.0		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0		"	"	"	"	"	"	"
Naphthalene	ND	5.0		"	"	"	"	"	"	"
n-Propylbenzene	ND	5.0		"	"	"	"	"	"	"
Styrene	ND	5.0		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	"
Tetrachloroethene	ND	5.0		"	"	"	"	"	"	"
Toluene	ND	5.0		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0		"	"	"	"	"	"	"
Trichloroethene	ND	5.0		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.0		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	5.0		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	"
Vinyl chloride	ND	5.0		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB15-5 (1701054-17) Soil Sampled: 01/04/17 13:20 Received: 01/04/17 16:27									
m,p-Xylene	ND	5.0	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		103 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	74-121		"	"	"	"	
SB15-10 (1701054-18) Soil Sampled: 01/04/17 13:28 Received: 01/04/17 16:27									
Benzene	ND	4.5	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Bromobenzene	ND	4.5	"	"	"	"	"	"	
Bromochloromethane	ND	4.5	"	"	"	"	"	"	
Bromodichloromethane	ND	4.5	"	"	"	"	"	"	
Bromoform	ND	4.5	"	"	"	"	"	"	
Bromomethane	ND	4.5	"	"	"	"	"	"	
n-Butylbenzene	ND	4.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.5	"	"	"	"	"	"	
Chlorobenzene	ND	4.5	"	"	"	"	"	"	
Chloroethane	ND	4.5	"	"	"	"	"	"	
Chloroform	ND	4.5	"	"	"	"	"	"	
Chloromethane	ND	4.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.5	"	"	"	"	"	"	
Dibromochloromethane	ND	4.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.5	"	"	"	"	"	"	
Dibromomethane	ND	4.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.5	"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.5	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.5	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB15-10 (1701054-18) Soil Sampled: 01/04/17 13:28 Received: 01/04/17 16:27									
trans-1,3-Dichloropropene	ND	4.5	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Ethylbenzene	ND	4.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.5	"	"	"	"	"	"	
Isopropylbenzene	ND	4.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.5	"	"	"	"	"	"	
Methylene chloride	ND	4.5	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	4.5	"	"	"	"	"	"	
Naphthalene	ND	4.5	"	"	"	"	"	"	
n-Propylbenzene	ND	4.5	"	"	"	"	"	"	
Styrene	ND	4.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.5	"	"	"	"	"	"	
Tetrachloroethene	ND	4.5	"	"	"	"	"	"	
Toluene	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.5	"	"	"	"	"	"	
Trichloroethene	ND	4.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.5	"	"	"	"	"	"	
Vinyl chloride	ND	4.5	"	"	"	"	"	"	
m,p-Xylene	ND	4.5	"	"	"	"	"	"	
o-Xylene	ND	4.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		111 %		80-120	"	"	"	"	
Surrogate: Toluene-d8		102 %		81-117	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		74-121	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB16-5 (1701054-19) Soil Sampled: 01/04/17 13:42 Received: 01/04/17 16:27									
Benzene	8.8	3.5	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Bromobenzene	ND	3.5	"	"	"	"	"	"	"
Bromochloromethane	ND	3.5	"	"	"	"	"	"	"
Bromodichloromethane	ND	3.5	"	"	"	"	"	"	"
Bromoform	ND	3.5	"	"	"	"	"	"	"
Bromomethane	ND	3.5	"	"	"	"	"	"	"
n-Butylbenzene	ND	3.5	"	"	"	"	"	"	"
sec-Butylbenzene	ND	3.5	"	"	"	"	"	"	"
tert-Butylbenzene	ND	3.5	"	"	"	"	"	"	"
Carbon tetrachloride	ND	3.5	"	"	"	"	"	"	"
Chlorobenzene	ND	3.5	"	"	"	"	"	"	"
Chloroethane	ND	3.5	"	"	"	"	"	"	"
Chloroform	ND	3.5	"	"	"	"	"	"	"
Chloromethane	ND	3.5	"	"	"	"	"	"	"
2-Chlorotoluene	ND	3.5	"	"	"	"	"	"	"
4-Chlorotoluene	ND	3.5	"	"	"	"	"	"	"
Dibromochloromethane	ND	3.5	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	3.5	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	3.5	"	"	"	"	"	"	"
Dibromomethane	ND	3.5	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	3.5	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	3.5	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	3.5	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	3.5	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	3.5	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	3.5	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	3.5	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	3.5	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	3.5	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	3.5	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	3.5	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	3.5	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	3.5	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	3.5	"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	3.5	"	"	"	"	"	"	"
Ethylbenzene	ND	3.5	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	3.5	"	"	"	"	"	"	"
Isopropylbenzene	ND	3.5	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	3.5	"	"	"	"	"	"	"
Methylene chloride	ND	3.5	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	3.5	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB16-5 (1701054-19) Soil Sampled: 01/04/17 13:42 Received: 01/04/17 16:27									
Naphthalene	ND	3.5	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
n-Propylbenzene	ND	3.5	"	"	"	"	"	"	"
Styrene	ND	3.5	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	3.5	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	3.5	"	"	"	"	"	"	"
Tetrachloroethene	ND	3.5	"	"	"	"	"	"	"
Toluene	ND	3.5	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	3.5	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	3.5	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	3.5	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	3.5	"	"	"	"	"	"	"
Trichloroethene	ND	3.5	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	3.5	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	3.5	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	3.5	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	3.5	"	"	"	"	"	"	"
Vinyl chloride	ND	3.5	"	"	"	"	"	"	"
m,p-Xylene	ND	3.5	"	"	"	"	"	"	"
o-Xylene	ND	3.5	"	"	"	"	"	"	"
Surrogate: Dibromofluoromethane		111 %	80-120		"	"	"	"	"
Surrogate: Toluene-d8		87.7 %	81-117		"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		96.9 %	74-121		"	"	"	"	"

SB16-10 (1701054-20) Soil Sampled: 01/04/17 13:48 Received: 01/04/17 16:27									
Benzene	ND	6.2	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Bromobenzene	ND	6.2	"	"	"	"	"	"	"
Bromochloromethane	ND	6.2	"	"	"	"	"	"	"
Bromodichloromethane	ND	6.2	"	"	"	"	"	"	"
Bromoform	ND	6.2	"	"	"	"	"	"	"
Bromomethane	ND	6.2	"	"	"	"	"	"	"
n-Butylbenzene	ND	6.2	"	"	"	"	"	"	"
sec-Butylbenzene	ND	6.2	"	"	"	"	"	"	"
tert-Butylbenzene	ND	6.2	"	"	"	"	"	"	"
Carbon tetrachloride	ND	6.2	"	"	"	"	"	"	"
Chlorobenzene	ND	6.2	"	"	"	"	"	"	"
Chloroethane	ND	6.2	"	"	"	"	"	"	"
Chloroform	ND	6.2	"	"	"	"	"	"	"
Chloromethane	ND	6.2	"	"	"	"	"	"	"
2-Chlorotoluene	ND	6.2	"	"	"	"	"	"	"
4-Chlorotoluene	ND	6.2	"	"	"	"	"	"	"
Dibromochloromethane	ND	6.2	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB16-10 (1701054-20) Soil Sampled: 01/04/17 13:48 Received: 01/04/17 16:27										
1,2-Dibromo-3-chloropropane	ND	6.2		µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	6.2		"	"	"	"	"	"	"
Dibromomethane	ND	6.2		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	6.2		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	6.2		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	6.2		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	6.2		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	6.2		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	6.2		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	6.2		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	6.2		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	6.2		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	6.2		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	6.2		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	6.2		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	6.2		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	6.2		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	6.2		"	"	"	"	"	"	"
Ethylbenzene	ND	6.2		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	6.2		"	"	"	"	"	"	"
Isopropylbenzene	ND	6.2		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	6.2		"	"	"	"	"	"	"
Methylene chloride	ND	6.2		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	6.2		"	"	"	"	"	"	"
Naphthalene	ND	6.2		"	"	"	"	"	"	"
n-Propylbenzene	ND	6.2		"	"	"	"	"	"	"
Styrene	ND	6.2		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	6.2		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	6.2		"	"	"	"	"	"	"
Tetrachloroethene	ND	6.2		"	"	"	"	"	"	"
Toluene	ND	6.2		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	6.2		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	6.2		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	6.2		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	6.2		"	"	"	"	"	"	"
Trichloroethene	ND	6.2		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	6.2		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	6.2		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	6.2		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	6.2		"	"	"	"	"	"	"
Vinyl chloride	ND	6.2		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB16-10 (1701054-20) Soil Sampled: 01/04/17 13:48 Received: 01/04/17 16:27										
m,p-Xylene	ND	6.2		µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
o-Xylene	ND	6.2		"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		109 %		80-120		"	"	"	"	
Surrogate: Toluene-d8		86.2 %		81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %		74-121		"	"	"	"	
SB18-5 (1701054-21) Soil Sampled: 01/04/17 14:11 Received: 01/04/17 16:27										
Benzene	ND	5.0		µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Bromobenzene	ND	5.0		"	"	"	"	"	"	
Bromochloromethane	ND	5.0		"	"	"	"	"	"	
Bromodichloromethane	ND	5.0		"	"	"	"	"	"	
Bromoform	ND	5.0		"	"	"	"	"	"	
Bromomethane	ND	5.0		"	"	"	"	"	"	
n-Butylbenzene	ND	5.0		"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0		"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0		"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0		"	"	"	"	"	"	
Chlorobenzene	ND	5.0		"	"	"	"	"	"	
Chloroethane	ND	5.0		"	"	"	"	"	"	
Chloroform	ND	5.0		"	"	"	"	"	"	
Chloromethane	ND	5.0		"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0		"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0		"	"	"	"	"	"	
Dibromochloromethane	ND	5.0		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	"	
Dibromomethane	ND	5.0		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0		"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0		"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0		"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB18-5 (1701054-21) Soil Sampled: 01/04/17 14:11 Received: 01/04/17 16:27									
trans-1,3-Dichloropropene	ND	5.0	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97.3 %		80-120	"	"	"	"	
Surrogate: Toluene-d8		96.5 %		81-117	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		74-121	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB18-10 (1701054-22) Soil Sampled: 01/04/17 14:20 Received: 01/04/17 16:27										
Benzene	ND	6.7		µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Bromobenzene	ND	6.7		"	"	"	"	"	"	"
Bromochloromethane	ND	6.7		"	"	"	"	"	"	"
Bromodichloromethane	ND	6.7		"	"	"	"	"	"	"
Bromoform	ND	6.7		"	"	"	"	"	"	"
Bromomethane	ND	6.7		"	"	"	"	"	"	"
n-Butylbenzene	ND	6.7		"	"	"	"	"	"	"
sec-Butylbenzene	ND	6.7		"	"	"	"	"	"	"
tert-Butylbenzene	ND	6.7		"	"	"	"	"	"	"
Carbon tetrachloride	ND	6.7		"	"	"	"	"	"	"
Chlorobenzene	ND	6.7		"	"	"	"	"	"	"
Chloroethane	ND	6.7		"	"	"	"	"	"	"
Chloroform	ND	6.7		"	"	"	"	"	"	"
Chloromethane	ND	6.7		"	"	"	"	"	"	"
2-Chlorotoluene	ND	6.7		"	"	"	"	"	"	"
4-Chlorotoluene	ND	6.7		"	"	"	"	"	"	"
Dibromochloromethane	ND	6.7		"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	6.7		"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	6.7		"	"	"	"	"	"	"
Dibromomethane	ND	6.7		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	6.7		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	6.7		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	6.7		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	6.7		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	6.7		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	6.7		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	6.7		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	6.7		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	6.7		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	6.7		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	6.7		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	6.7		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	6.7		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	6.7		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	6.7		"	"	"	"	"	"	"
Ethylbenzene	ND	6.7		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	6.7		"	"	"	"	"	"	"
Isopropylbenzene	ND	6.7		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	6.7		"	"	"	"	"	"	"
Methylene chloride	ND	6.7		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	6.7		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB18-10 (1701054-22) Soil Sampled: 01/04/17 14:20 Received: 01/04/17 16:27										
Naphthalene	ND	6.7		µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
n-Propylbenzene	ND	6.7		"	"	"	"	"	"	"
Styrene	ND	6.7		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	6.7		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	6.7		"	"	"	"	"	"	"
Tetrachloroethene	ND	6.7		"	"	"	"	"	"	"
Toluene	ND	6.7		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	6.7		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	6.7		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	6.7		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	6.7		"	"	"	"	"	"	"
Trichloroethene	ND	6.7		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	6.7		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	6.7		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	6.7		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	6.7		"	"	"	"	"	"	"
Vinyl chloride	ND	6.7		"	"	"	"	"	"	"
m,p-Xylene	ND	6.7		"	"	"	"	"	"	"
o-Xylene	ND	6.7		"	"	"	"	"	"	"
Surrogate: Dibromofluoromethane		110 %		80-120		"	"	"	"	"
Surrogate: Toluene-d8		99.7 %		81-117		"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		109 %		74-121		"	"	"	"	"

SB19-5 (1701054-23) Soil Sampled: 01/04/17 14:37 Received: 01/04/17 16:27

Benzene	ND	5.0		µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Bromobenzene	ND	5.0		"	"	"	"	"	"	"
Bromochloromethane	ND	5.0		"	"	"	"	"	"	"
Bromodichloromethane	ND	5.0		"	"	"	"	"	"	"
Bromoform	ND	5.0		"	"	"	"	"	"	"
Bromomethane	ND	5.0		"	"	"	"	"	"	"
n-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
sec-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
tert-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
Carbon tetrachloride	ND	5.0		"	"	"	"	"	"	"
Chlorobenzene	ND	5.0		"	"	"	"	"	"	"
Chloroethane	ND	5.0		"	"	"	"	"	"	"
Chloroform	ND	5.0		"	"	"	"	"	"	"
Chloromethane	ND	5.0		"	"	"	"	"	"	"
2-Chlorotoluene	ND	5.0		"	"	"	"	"	"	"
4-Chlorotoluene	ND	5.0		"	"	"	"	"	"	"
Dibromochloromethane	ND	5.0		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB19-5 (1701054-23) Soil Sampled: 01/04/17 14:37 Received: 01/04/17 16:27										
1,2-Dibromo-3-chloropropane	ND	5.0		µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	"	"
Dibromomethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
Ethylbenzene	ND	5.0		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0		"	"	"	"	"	"	"
Isopropylbenzene	ND	5.0		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	5.0		"	"	"	"	"	"	"
Methylene chloride	ND	5.0		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0		"	"	"	"	"	"	"
Naphthalene	ND	5.0		"	"	"	"	"	"	"
n-Propylbenzene	ND	5.0		"	"	"	"	"	"	"
Styrene	ND	5.0		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	"
Tetrachloroethene	ND	5.0		"	"	"	"	"	"	"
Toluene	ND	5.0		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0		"	"	"	"	"	"	"
Trichloroethene	ND	5.0		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.0		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	5.0		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	"
Vinyl chloride	ND	5.0		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB19-5 (1701054-23) Soil Sampled: 01/04/17 14:37 Received: 01/04/17 16:27									
m,p-Xylene	ND	5.0	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
o-Xylene	ND	5.0	"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		<i>110 %</i>	<i>80-120</i>						
<i>Surrogate: Toluene-d8</i>		<i>97.7 %</i>	<i>81-117</i>						
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>100 %</i>	<i>74-121</i>						
SB19-10 (1701054-24) Soil Sampled: 01/04/17 14:45 Received: 01/04/17 16:27									
Benzene	ND	5.0	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	"
Bromochloromethane	ND	5.0	"	"	"	"	"	"	"
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	"
Bromoform	ND	5.0	"	"	"	"	"	"	"
Bromomethane	ND	5.0	"	"	"	"	"	"	"
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	"
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	"
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	"
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	"
Chlorobenzene	ND	5.0	"	"	"	"	"	"	"
Chloroethane	ND	5.0	"	"	"	"	"	"	"
Chloroform	ND	5.0	"	"	"	"	"	"	"
Chloromethane	ND	5.0	"	"	"	"	"	"	"
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	"
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	"
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	"
Dibromomethane	ND	5.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB19-10 (1701054-24) Soil Sampled: 01/04/17 14:45 Received: 01/04/17 16:27										
trans-1,3-Dichloropropene	ND	5.0		µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Ethylbenzene	ND	5.0		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0		"	"	"	"	"	"	"
Isopropylbenzene	ND	5.0		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	5.0		"	"	"	"	"	"	"
Methylene chloride	ND	5.0		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0		"	"	"	"	"	"	"
Naphthalene	ND	5.0		"	"	"	"	"	"	"
n-Propylbenzene	ND	5.0		"	"	"	"	"	"	"
Styrene	ND	5.0		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	"
Tetrachloroethene	ND	5.0		"	"	"	"	"	"	"
Toluene	ND	5.0		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0		"	"	"	"	"	"	"
Trichloroethene	ND	5.0		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.0		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	5.0		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	"
Vinyl chloride	ND	5.0		"	"	"	"	"	"	"
m,p-Xylene	ND	5.0		"	"	"	"	"	"	"
o-Xylene	ND	5.0		"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		112 %		80-120		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		90.5 %		81-117		"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		115 %		74-121		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB20-5 (1701054-25) Soil Sampled: 01/04/17 14:58 Received: 01/04/17 16:27										
Benzene	ND	5.0		µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Bromobenzene	ND	5.0		"	"	"	"	"	"	"
Bromochloromethane	ND	5.0		"	"	"	"	"	"	"
Bromodichloromethane	ND	5.0		"	"	"	"	"	"	"
Bromoform	ND	5.0		"	"	"	"	"	"	"
Bromomethane	ND	5.0		"	"	"	"	"	"	"
n-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
sec-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
tert-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
Carbon tetrachloride	ND	5.0		"	"	"	"	"	"	"
Chlorobenzene	ND	5.0		"	"	"	"	"	"	"
Chloroethane	ND	5.0		"	"	"	"	"	"	"
Chloroform	ND	5.0		"	"	"	"	"	"	"
Chloromethane	ND	5.0		"	"	"	"	"	"	"
2-Chlorotoluene	ND	5.0		"	"	"	"	"	"	"
4-Chlorotoluene	ND	5.0		"	"	"	"	"	"	"
Dibromochloromethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0		"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	"	"
Dibromomethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
Ethylbenzene	ND	5.0		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0		"	"	"	"	"	"	"
Isopropylbenzene	ND	5.0		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	5.0		"	"	"	"	"	"	"
Methylene chloride	ND	5.0		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB20-5 (1701054-25) Soil Sampled: 01/04/17 14:58 Received: 01/04/17 16:27										
Naphthalene	ND	5.0		µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
n-Propylbenzene	ND	5.0		"	"	"	"	"	"	"
Styrene	ND	5.0		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	"
Tetrachloroethene	ND	5.0		"	"	"	"	"	"	"
Toluene	6.3	5.0		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0		"	"	"	"	"	"	"
Trichloroethene	ND	5.0		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.0		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	5.0		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	"
Vinyl chloride	ND	5.0		"	"	"	"	"	"	"
m,p-Xylene	ND	5.0		"	"	"	"	"	"	"
o-Xylene	ND	5.0		"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>		105 %		80-120		"	"	"	"	"
<i>Surrogate: Toluene-d8</i>		99.8 %		81-117		"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %		74-121		"	"	"	"	"

SB20-10 (1701054-26) Soil Sampled: 01/04/17 15:06 Received: 01/04/17 16:27										
Benzene	ND	3.6		µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
Bromobenzene	ND	3.6		"	"	"	"	"	"	"
Bromochloromethane	ND	3.6		"	"	"	"	"	"	"
Bromodichloromethane	ND	3.6		"	"	"	"	"	"	"
Bromoform	ND	3.6		"	"	"	"	"	"	"
Bromomethane	ND	3.6		"	"	"	"	"	"	"
n-Butylbenzene	ND	3.6		"	"	"	"	"	"	"
sec-Butylbenzene	ND	3.6		"	"	"	"	"	"	"
tert-Butylbenzene	ND	3.6		"	"	"	"	"	"	"
Carbon tetrachloride	ND	3.6		"	"	"	"	"	"	"
Chlorobenzene	ND	3.6		"	"	"	"	"	"	"
Chloroethane	ND	3.6		"	"	"	"	"	"	"
Chloroform	ND	3.6		"	"	"	"	"	"	"
Chloromethane	ND	3.6		"	"	"	"	"	"	"
2-Chlorotoluene	ND	3.6		"	"	"	"	"	"	"
4-Chlorotoluene	ND	3.6		"	"	"	"	"	"	"
Dibromochloromethane	ND	3.6		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB20-10 (1701054-26) Soil Sampled: 01/04/17 15:06 Received: 01/04/17 16:27										
1,2-Dibromo-3-chloropropane	ND	3.6		µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	3.6		"	"	"	"	"	"	"
Dibromomethane	ND	3.6		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	3.6		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	3.6		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	3.6		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	3.6		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	3.6		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	3.6		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	3.6		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	3.6		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	3.6		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	3.6		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	3.6		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	3.6		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	3.6		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	3.6		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	3.6		"	"	"	"	"	"	"
Ethylbenzene	ND	3.6		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	3.6		"	"	"	"	"	"	"
Isopropylbenzene	ND	3.6		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	3.6		"	"	"	"	"	"	"
Methylene chloride	ND	3.6		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	3.6		"	"	"	"	"	"	"
Naphthalene	ND	3.6		"	"	"	"	"	"	"
n-Propylbenzene	ND	3.6		"	"	"	"	"	"	"
Styrene	ND	3.6		"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	3.6		"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	3.6		"	"	"	"	"	"	"
Tetrachloroethene	ND	3.6		"	"	"	"	"	"	"
Toluene	ND	3.6		"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	3.6		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	3.6		"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	3.6		"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	3.6		"	"	"	"	"	"	"
Trichloroethene	ND	3.6		"	"	"	"	"	"	"
Trichlorofluoromethane	ND	3.6		"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	3.6		"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	3.6		"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	3.6		"	"	"	"	"	"	"
Vinyl chloride	ND	3.6		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB20-10 (1701054-26) Soil Sampled: 01/04/17 15:06 Received: 01/04/17 16:27									
m,p-Xylene	ND	3.6	µg/kg	1	B7A0572	01/05/17	01/06/17 09:03	EPA 8260B	
o-Xylene	ND	3.6	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		<i>110 %</i>	<i>80-120</i>						
<i>Surrogate: Toluene-d8</i>		<i>85.9 %</i>	<i>81-117</i>						
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>98.1 %</i>	<i>74-121</i>						

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB8-5 (1701054-01) Soil Sampled: 01/04/17 08:46 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/06/17 16:38	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB8-5 (1701054-01) Soil Sampled: 01/04/17 08:46 Received: 01/04/17 16:27										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/06/17 16:38	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		103 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		90.6 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		74.5 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		105 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		68.8 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		112 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB8-10 (1701054-02) Soil Sampled: 01/04/17 08:57 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/06/17 17:18	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB8-10 (1701054-02) Soil Sampled: 01/04/17 08:57 Received: 01/04/17 16:27										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/06/17 17:18	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		<i>112 %</i>		<i>25-121</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Phenol-d6</i>		<i>79.4 %</i>		<i>24-113</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Nitrobenzene-d5</i>		<i>68.2 %</i>		<i>23-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: 2-Fluorobiphenyl</i>		<i>103 %</i>		<i>30-115</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>		<i>69.4 %</i>		<i>19-122</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Terphenyl-d14</i>		<i>130 %</i>		<i>18-137</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB9-5 (1701054-03) Soil Sampled: 01/04/17 09:17 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/06/17 17:58	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB9-5 (1701054-03) Soil Sampled: 01/04/17 09:17 Received: 01/04/17 16:27										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/06/17 17:58	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		104 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		89.2 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		67.9 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		103 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		75.2 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		124 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB9-10 (1701054-04) Soil Sampled: 01/04/17 09:30 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/06/17 18:38	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benztidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB9-10 (1701054-04) Soil Sampled: 01/04/17 09:30 Received: 01/04/17 16:27										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/06/17 18:38	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		108 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		87.0 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		66.1 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		97.0 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		76.8 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		116 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB10-5 (1701054-05) Soil Sampled: 01/04/17 09:48 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/06/17 19:19	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benztidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB10-5 (1701054-05) Soil Sampled: 01/04/17 09:48 Received: 01/04/17 16:27										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/06/17 19:19	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	1.6	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	1.8	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		115 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		92.8 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		85.9 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		97.6 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		74.6 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		125 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB10-10 (1701054-06) Soil Sampled: 01/04/17 10:07 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/06/17 20:01	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benztidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB10-10 (1701054-06) Soil Sampled: 01/04/17 10:07 Received: 01/04/17 16:27									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/06/17 20:01	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	"
Hexachloroethane	ND	0.33	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	"
Isophorone	ND	0.33	"	"	"	"	"	"	"
2-Methylnaphthalene	1.6	0.33	"	"	"	"	"	"	"
2-Methylphenol	ND	0.33	"	"	"	"	"	"	"
4-Methylphenol	ND	0.33	"	"	"	"	"	"	"
Naphthalene	1.9	0.33	"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	"
Nitrobenzene	ND	0.33	"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	"
Diphenylamine	ND	0.33	"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	"
Phenanthrene	ND	0.33	"	"	"	"	"	"	"
Phenol	ND	0.33	"	"	"	"	"	"	"
Pyrene	ND	0.33	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		108 %	25-121	"	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		80.8 %	24-113	"	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		94.3 %	23-120	"	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		99.1 %	30-115	"	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		70.6 %	19-122	"	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		96.1 %	18-137	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB11-5 (1701054-07) Soil Sampled: 01/04/17 10:11 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/06/17 20:42	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benztidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB11-5 (1701054-07) Soil Sampled: 01/04/17 10:11 Received: 01/04/17 16:27										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/06/17 20:42	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		85.4 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		70.8 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		68.5 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		98.8 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		89.2 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		93.7 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB11-10 (1701054-08) Soil Sampled: 01/04/17 10:19 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/06/17 21:24	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benztidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB11-10 (1701054-08) Soil Sampled: 01/04/17 10:19 Received: 01/04/17 16:27										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/06/17 21:24	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		93.2 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		77.8 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		68.8 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		99.4 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		106 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		110 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB12-5 (1701054-09) Soil Sampled: 01/04/17 10:48 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/06/17 22:06	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benztidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB12-5 (1701054-09) Soil Sampled: 01/04/17 10:48 Received: 01/04/17 16:27										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/06/17 22:06	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		105 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		80.4 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		72.1 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		100 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		79.0 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		113 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB12-10 (1701054-10) Soil Sampled: 01/04/17 10:55 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/06/17 22:48	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB12-10 (1701054-10) Soil Sampled: 01/04/17 10:55 Received: 01/04/17 16:27										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/06/17 22:48	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		96.0 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		75.2 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		71.5 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		103 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		80.2 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		126 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB13-5 (1701054-11) Soil Sampled: 01/04/17 11:18 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/06/17 23:30	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benztidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB13-5 (1701054-11) Soil Sampled: 01/04/17 11:18 Received: 01/04/17 16:27										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/06/17 23:30	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		107 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		81.0 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		70.3 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		98.8 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		77.8 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		115 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB13-10 (1701054-12) Soil Sampled: 01/04/17 11:35 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 00:12	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benztidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB13-10 (1701054-12) Soil Sampled: 01/04/17 11:35 Received: 01/04/17 16:27										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 00:12	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		101 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		78.0 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		72.1 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		106 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		99.8 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		124 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB14-5 (1701054-13) Soil Sampled: 01/04/17 11:58 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 00:53	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB14-5 (1701054-13) Soil Sampled: 01/04/17 11:58 Received: 01/04/17 16:27										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 00:53	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		109 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		90.0 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		76.6 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		107 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		104 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		126 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB14-10 (1701054-14) Soil Sampled: 01/04/17 12:10 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 01:35	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB14-10 (1701054-14) Soil Sampled: 01/04/17 12:10 Received: 01/04/17 16:27										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 01:35	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		108 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		82.4 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		72.4 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		102 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		91.8 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		116 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB17-5 (1701054-15) Soil Sampled: 01/04/17 12:33 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 02:16	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benztidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB17-5 (1701054-15) Soil Sampled: 01/04/17 12:33 Received: 01/04/17 16:27										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 02:16	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		95.4 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		82.8 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		70.9 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		99.7 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		82.6 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		114 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB17-10 (1701054-16) Soil Sampled: 01/04/17 12:40 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 02:58	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benztidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB17-10 (1701054-16) Soil Sampled: 01/04/17 12:40 Received: 01/04/17 16:27									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 02:58	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	"
Hexachloroethane	ND	0.33	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	"
Isophorone	ND	0.33	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	"
2-Methylphenol	ND	0.33	"	"	"	"	"	"	"
4-Methylphenol	ND	0.33	"	"	"	"	"	"	"
Naphthalene	ND	0.33	"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	"
Nitrobenzene	ND	0.33	"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	"
Diphenylamine	ND	0.33	"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	"
Phenanthrene	ND	0.33	"	"	"	"	"	"	"
Phenol	ND	0.33	"	"	"	"	"	"	"
Pyrene	ND	0.33	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		95.2 %	25-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>		76.0 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		64.6 %	23-120		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		92.5 %	30-115		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>		87.8 %	19-122		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>		105 %	18-137		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB15-5 (1701054-17) Soil Sampled: 01/04/17 13:20 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 03:39	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB15-5 (1701054-17) Soil Sampled: 01/04/17 13:20 Received: 01/04/17 16:27										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 03:39	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		91.2 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		79.4 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		68.8 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		99.4 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		81.0 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		113 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB15-10 (1701054-18) Soil Sampled: 01/04/17 13:28 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 04:21	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB15-10 (1701054-18) Soil Sampled: 01/04/17 13:28 Received: 01/04/17 16:27									
Hexachlorobenzene	ND	0.33	mg/kg	1	B7A0953	01/06/17	01/07/17 04:21	EPA 8270C	
Hexachlorobutadiene	ND	0.33	"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33	"	"	"	"	"	"	"
Hexachloroethane	ND	0.33	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	"
Isophorone	ND	0.33	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	"
2-Methylphenol	ND	0.33	"	"	"	"	"	"	"
4-Methylphenol	ND	0.33	"	"	"	"	"	"	"
Naphthalene	ND	0.33	"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33	"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33	"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33	"	"	"	"	"	"	"
Nitrobenzene	ND	0.33	"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33	"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33	"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33	"	"	"	"	"	"	"
Diphenylamine	ND	0.33	"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33	"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33	"	"	"	"	"	"	"
Phenanthrene	ND	0.33	"	"	"	"	"	"	"
Phenol	ND	0.33	"	"	"	"	"	"	"
Pyrene	ND	0.33	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33	"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33	"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33	"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		<i>106 %</i>	<i>25-121</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Phenol-d6</i>		<i>87.6 %</i>	<i>24-113</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Nitrobenzene-d5</i>		<i>76.9 %</i>	<i>23-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: 2-Fluorobiphenyl</i>		<i>110 %</i>	<i>30-115</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>		<i>93.8 %</i>	<i>19-122</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Terphenyl-d14</i>		<i>129 %</i>	<i>18-137</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB16-5 (1701054-19) Soil Sampled: 01/04/17 13:42 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 05:02	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB16-5 (1701054-19) Soil Sampled: 01/04/17 13:42 Received: 01/04/17 16:27										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 05:02	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		102 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		78.8 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		70.9 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		98.5 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		95.0 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		110 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB16-10 (1701054-20) Soil Sampled: 01/04/17 13:48 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 05:44	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB16-10 (1701054-20) Soil Sampled: 01/04/17 13:48 Received: 01/04/17 16:27										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 05:44	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		90.4 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		79.2 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		66.1 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		97.6 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		87.8 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		108 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB18-5 (1701054-21) Soil Sampled: 01/04/17 14:11 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 06:25	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB18-5 (1701054-21) Soil Sampled: 01/04/17 14:11 Received: 01/04/17 16:27										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 06:25	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		94.8 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		81.2 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		70.9 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		102 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		100 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		115 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB18-10 (1701054-22) Soil Sampled: 01/04/17 14:20 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 07:06	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB18-10 (1701054-22) Soil Sampled: 01/04/17 14:20 Received: 01/04/17 16:27										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 07:06	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		66.8 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		56.2 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		47.4 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		68.5 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		70.6 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		78.7 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB19-5 (1701054-23) Soil Sampled: 01/04/17 14:37 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 07:47	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB19-5 (1701054-23) Soil Sampled: 01/04/17 14:37 Received: 01/04/17 16:27										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 07:47	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		98.2 %		25-121		"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		75.2 %		24-113		"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		65.2 %		23-120		"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		94.0 %		30-115		"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		90.2 %		19-122		"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		104 %		18-137		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB19-10 (1701054-24) Soil Sampled: 01/04/17 14:45 Received: 01/04/17 16:27										
Acenaphthene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 08:29	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	"
Anthracene	ND	0.33		"	"	"	"	"	"	"
Benzidine	ND	0.33		"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	"
Benzyl alcohol	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	0.33		"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	0.33		"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	0.33		"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	0.33		"	"	"	"	"	"	"
4-Chloroaniline	ND	0.33		"	"	"	"	"	"	"
2-Chlorophenol	ND	0.33		"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	0.33		"	"	"	"	"	"	"
2-Chloronaphthalene	ND	0.33		"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	0.33		"	"	"	"	"	"	"
Chrysene	ND	0.33		"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	"
Dibenzofuran	ND	0.33		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	0.33		"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	0.33		"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	0.33		"	"	"	"	"	"	"
Diethyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	0.33		"	"	"	"	"	"	"
Dimethyl phthalate	ND	0.33		"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	0.33		"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	0.33		"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	0.33		"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	0.33		"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	0.33		"	"	"	"	"	"	"
Fluoranthene	ND	0.33		"	"	"	"	"	"	"
Fluorene	ND	0.33		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB19-10 (1701054-24) Soil Sampled: 01/04/17 14:45 Received: 01/04/17 16:27										
Hexachlorobenzene	ND	0.33		mg/kg	1	B7A0953	01/06/17	01/07/17 08:29	EPA 8270C	
Hexachlorobutadiene	ND	0.33		"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	0.33		"	"	"	"	"	"	"
Hexachloroethane	ND	0.33		"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	"
Isophorone	ND	0.33		"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	"
2-Methylphenol	ND	0.33		"	"	"	"	"	"	"
4-Methylphenol	ND	0.33		"	"	"	"	"	"	"
Naphthalene	ND	0.33		"	"	"	"	"	"	"
2-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
3-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
4-Nitroaniline	ND	0.33		"	"	"	"	"	"	"
Nitrobenzene	ND	0.33		"	"	"	"	"	"	"
2-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
4-Nitrophenol	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	0.33		"	"	"	"	"	"	"
Diphenylamine	ND	0.33		"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	0.33		"	"	"	"	"	"	"
Pentachlorophenol	ND	0.33		"	"	"	"	"	"	"
Phenanthrene	ND	0.33		"	"	"	"	"	"	"
Phenol	ND	0.33		"	"	"	"	"	"	"
Pyrene	ND	0.33		"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.33		"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	0.33		"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		<i>103 %</i>		<i>25-121</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Phenol-d6</i>		<i>82.0 %</i>		<i>24-113</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Nitrobenzene-d5</i>		<i>70.6 %</i>		<i>23-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: 2-Fluorobiphenyl</i>		<i>101 %</i>		<i>30-115</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>		<i>89.4 %</i>		<i>19-122</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Terphenyl-d14</i>		<i>112 %</i>		<i>18-137</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB20-5 (1701054-25) Soil Sampled: 01/04/17 14:58 Received: 01/04/17 16:27									
Acenaphthene	ND	1.6	mg/kg	5	B7A0953	01/06/17	01/07/17 09:10	EPA 8270C	
Acenaphthylene	ND	1.6	"	"	"	"	"	"	"
Anthracene	ND	1.6	"	"	"	"	"	"	"
Benzidine	ND	1.6	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	1.6	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	1.6	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	1.6	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	1.6	"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	1.6	"	"	"	"	"	"	"
Benzyl alcohol	ND	1.6	"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	1.6	"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	1.6	"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	1.6	"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	1.6	"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	1.6	"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	1.6	"	"	"	"	"	"	"
4-Chloroaniline	ND	1.6	"	"	"	"	"	"	"
2-Chlorophenol	ND	1.6	"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1.6	"	"	"	"	"	"	"
2-Chloronaphthalene	ND	1.6	"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	1.6	"	"	"	"	"	"	"
Chrysene	ND	1.6	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	1.6	"	"	"	"	"	"	"
Dibenzofuran	ND	1.6	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	1.6	"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1.6	"	"	"	"	"	"	"
Diethyl phthalate	ND	1.6	"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1.6	"	"	"	"	"	"	"
Dimethyl phthalate	ND	1.6	"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	1.6	"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	1.6	"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	1.6	"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	1.6	"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1.6	"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	1.6	"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	1.6	"	"	"	"	"	"	"
Fluoranthene	ND	1.6	"	"	"	"	"	"	"
Fluorene	ND	1.6	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB20-5 (1701054-25) Soil Sampled: 01/04/17 14:58 Received: 01/04/17 16:27									
Hexachlorobenzene	ND	1.6	mg/kg	5	B7A0953	01/06/17	01/07/17 09:10	EPA 8270C	
Hexachlorobutadiene	ND	1.6	"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1.6	"	"	"	"	"	"	"
Hexachloroethane	ND	1.6	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	1.6	"	"	"	"	"	"	"
Isophorone	ND	1.6	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	1.6	"	"	"	"	"	"	"
2-Methylphenol	ND	1.6	"	"	"	"	"	"	"
4-Methylphenol	ND	1.6	"	"	"	"	"	"	"
Naphthalene	ND	1.6	"	"	"	"	"	"	"
2-Nitroaniline	ND	1.6	"	"	"	"	"	"	"
3-Nitroaniline	ND	1.6	"	"	"	"	"	"	"
4-Nitroaniline	ND	1.6	"	"	"	"	"	"	"
Nitrobenzene	ND	1.6	"	"	"	"	"	"	"
2-Nitrophenol	ND	1.6	"	"	"	"	"	"	"
4-Nitrophenol	ND	1.6	"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	1.6	"	"	"	"	"	"	"
Diphenylamine	ND	1.6	"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	1.6	"	"	"	"	"	"	"
Pentachlorophenol	ND	1.6	"	"	"	"	"	"	"
Phenanthrene	ND	1.6	"	"	"	"	"	"	"
Phenol	ND	1.6	"	"	"	"	"	"	"
Pyrene	ND	1.6	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1.6	"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1.6	"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		64.6 %		25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		61.4 %		24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		71.5 %		23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		56.5 %		30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		41.4 %		19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		68.5 %		18-137	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB20-10 (1701054-26) Soil Sampled: 01/04/17 15:06 Received: 01/04/17 16:27									
Acenaphthene	ND	1.6	mg/kg	5	B7A0953	01/06/17	01/07/17 09:52	EPA 8270C	
Acenaphthylene	ND	1.6	"	"	"	"	"	"	"
Anthracene	ND	1.6	"	"	"	"	"	"	"
Benzidine	ND	1.6	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	1.6	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	1.6	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	1.6	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	1.6	"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	1.6	"	"	"	"	"	"	"
Benzyl alcohol	ND	1.6	"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	1.6	"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	1.6	"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	1.6	"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	1.6	"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	1.6	"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	1.6	"	"	"	"	"	"	"
4-Chloroaniline	ND	1.6	"	"	"	"	"	"	"
2-Chlorophenol	ND	1.6	"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	1.6	"	"	"	"	"	"	"
2-Chloronaphthalene	ND	1.6	"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	1.6	"	"	"	"	"	"	"
Chrysene	ND	1.6	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	1.6	"	"	"	"	"	"	"
Dibenzofuran	ND	1.6	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	1.6	"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	1.6	"	"	"	"	"	"	"
Diethyl phthalate	ND	1.6	"	"	"	"	"	"	"
2,4-Dimethylphenol	ND	1.6	"	"	"	"	"	"	"
Dimethyl phthalate	ND	1.6	"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	1.6	"	"	"	"	"	"	"
2,4-Dinitrophenol	ND	1.6	"	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	1.6	"	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	1.6	"	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	1.6	"	"	"	"	"	"	"
Di-n-octyl phthalate	ND	1.6	"	"	"	"	"	"	"
1,2-Diphenylhydrazine	ND	1.6	"	"	"	"	"	"	"
Fluoranthene	ND	1.6	"	"	"	"	"	"	"
Fluorene	ND	1.6	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB20-10 (1701054-26) Soil Sampled: 01/04/17 15:06 Received: 01/04/17 16:27 D-34									
Hexachlorobenzene	ND	1.6	mg/kg	5	B7A0953	01/06/17	01/07/17 09:52	EPA 8270C	
Hexachlorobutadiene	ND	1.6	"	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	1.6	"	"	"	"	"	"	"
Hexachloroethane	ND	1.6	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	1.6	"	"	"	"	"	"	"
Isophorone	ND	1.6	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	1.6	"	"	"	"	"	"	"
2-Methylphenol	ND	1.6	"	"	"	"	"	"	"
4-Methylphenol	ND	1.6	"	"	"	"	"	"	"
Naphthalene	ND	1.6	"	"	"	"	"	"	"
2-Nitroaniline	ND	1.6	"	"	"	"	"	"	"
3-Nitroaniline	ND	1.6	"	"	"	"	"	"	"
4-Nitroaniline	ND	1.6	"	"	"	"	"	"	"
Nitrobenzene	ND	1.6	"	"	"	"	"	"	"
2-Nitrophenol	ND	1.6	"	"	"	"	"	"	"
4-Nitrophenol	ND	1.6	"	"	"	"	"	"	"
N-Nitrosodimethylamine	ND	1.6	"	"	"	"	"	"	"
Diphenylamine	ND	1.6	"	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	1.6	"	"	"	"	"	"	"
Pentachlorophenol	ND	1.6	"	"	"	"	"	"	"
Phenanthrene	ND	1.6	"	"	"	"	"	"	"
Phenol	ND	1.6	"	"	"	"	"	"	"
Pyrene	ND	1.6	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1.6	"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1.6	"	"	"	"	"	"	"
<i>Surrogate: 2-Fluorophenol</i>		87.0 %		25-121	"	"	"	"	"
<i>Surrogate: Phenol-d6</i>		88.6 %		24-113	"	"	"	"	"
<i>Surrogate: Nitrobenzene-d5</i>		91.0 %		23-120	"	"	"	"	"
<i>Surrogate: 2-Fluorobiphenyl</i>		71.5 %		30-115	"	"	"	"	"
<i>Surrogate: 2,4,6-Tribromophenol</i>		115 %		19-122	"	"	"	"	"
<i>Surrogate: Terphenyl-d14</i>		90.1 %		18-137	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0578 - EPA 3050B

Blank (B7A0578-BLK1)

Prepared: 01/05/17 Analyzed: 01/06/17

Antimony	ND	2.5	mg/kg							
Arsenic	ND	3.5	"							
Barium	ND	6.5	"							
Beryllium	ND	0.50	"							
Cadmium	ND	0.50	"							
Chromium	ND	3.0	"							
Cobalt	ND	2.5	"							
Copper	ND	2.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	1.0	"							
Nickel	ND	4.0	"							
Selenium	ND	6.0	"							
Silver	ND	1.0	"							
Thallium	ND	2.5	"							
Vanadium	ND	6.0	"							
Zinc	ND	10	"							

LCS (B7A0578-BS1)

Prepared: 01/05/17 Analyzed: 01/06/17

Antimony	103	2.5	mg/kg	100	103	75-125
Arsenic	96.1	3.5	"	100	96.1	78-122
Barium	101	6.5	"	100	101	80-120
Beryllium	99.4	0.50	"	100	99.4	80-120
Cadmium	100	0.50	"	100	100	80-120
Chromium	101	3.0	"	100	101	80-120
Cobalt	104	2.5	"	100	104	80-120
Copper	102	2.0	"	100	102	78-122
Lead	99.6	3.0	"	100	99.6	80-120
Molybdenum	103	1.0	"	100	103	80-120
Nickel	104	4.0	"	100	104	80-120
Selenium	95.8	6.0	"	100	95.8	76-124
Silver	104	1.0	"	100	104	60-140
Thallium	98.9	2.5	"	100	98.9	80-120
Vanadium	98.4	6.0	"	100	98.4	80-120
Zinc	95.9	10	"	100	95.9	80-120

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0578 - EPA 3050B

LCS Dup (B7A0578-BSD1)

Prepared: 01/05/17 Analyzed: 01/06/17

Antimony	98.8	2.5	mg/kg	100		98.8	75-125	4.16	20	
Arsenic	92.1	3.5	"	100		92.1	78-122	4.25	20	
Barium	97.5	6.5	"	100		97.5	80-120	3.53	20	
Beryllium	95.6	0.50	"	100		95.6	80-120	3.90	20	
Cadmium	96.1	0.50	"	100		96.1	80-120	3.98	20	
Chromium	96.9	3.0	"	100		96.9	80-120	4.14	20	
Cobalt	100	2.5	"	100		100	80-120	3.92	20	
Copper	103	2.0	"	100		103	78-122	0.976	20	
Lead	95.4	3.0	"	100		95.4	80-120	4.31	20	
Molybdenum	99.6	1.0	"	100		99.6	80-120	3.36	20	
Nickel	100	4.0	"	100		100	80-120	3.92	20	
Selenium	91.6	6.0	"	100		91.6	76-124	4.48	20	
Silver	104	1.0	"	100		104	60-140	0.00	40	
Thallium	96.9	2.5	"	100		96.9	80-120	2.04	20	
Vanadium	94.9	6.0	"	100		94.9	80-120	3.62	20	
Zinc	92.4	10	"	100		92.4	80-120	3.72	20	

Matrix Spike (B7A0578-MS1)

Source: 1701059-01

Prepared: 01/05/17 Analyzed: 01/06/17

Antimony	77.9	2.5	mg/kg	95.3	0.32	81.4	60-140			
Arsenic	86.0	3.5	"	95.3	1.4	88.8	70-130			
Barium	151	6.5	"	95.3	69	86.0	70-130			
Beryllium	87.1	0.50	"	95.3	ND	91.4	70-130			
Cadmium	84.5	0.50	"	95.3	0.25	88.4	70-130			
Chromium	108	3.0	"	95.3	21	91.3	70-130			
Cobalt	93.0	2.5	"	95.3	7.0	90.2	70-130			
Copper	107	2.0	"	95.3	12	99.7	70-130			
Lead	90.0	3.0	"	95.3	6.9	87.2	70-130			
Molybdenum	88.3	1.0	"	95.3	0.75	91.9	70-130			
Nickel	93.0	4.0	"	95.3	7.5	89.7	70-130			
Selenium	83.0	6.0	"	95.3	ND	87.1	70-130			
Silver	96.4	1.0	"	95.3	ND	101	60-140			
Thallium	83.4	2.5	"	95.3	ND	87.5	70-130			
Vanadium	117	6.0	"	95.3	34	87.1	70-130			
Zinc	117	10	"	95.3	34	87.1	70-130			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0578 - EPA 3050B

Matrix Spike Dup (B7A0578-MSD1)

Source: 1701059-01

Prepared: 01/05/17

Analyzed: 01/06/17

Antimony	76.2	2.5	mg/kg	95.2	0.32	79.7	60-140	2.21	20	
Arsenic	84.5	3.5	"	95.2	1.4	87.3	70-130	1.76	20	
Barium	147	6.5	"	95.2	69	81.9	70-130	2.68	20	
Beryllium	83.7	0.50	"	95.2	ND	87.9	70-130	3.98	20	
Cadmium	81.1	0.50	"	95.2	0.25	84.9	70-130	4.11	20	
Chromium	99.7	3.0	"	95.2	21	82.7	70-130	7.99	20	
Cobalt	90.1	2.5	"	95.2	7.0	87.3	70-130	3.17	20	
Copper	103	2.0	"	95.2	12	95.6	70-130	3.81	30	
Lead	87.9	3.0	"	95.2	6.9	85.1	70-130	2.36	30	
Molybdenum	85.6	1.0	"	95.2	0.75	89.1	70-130	3.11	20	
Nickel	90.1	4.0	"	95.2	7.5	86.8	70-130	3.17	20	
Selenium	79.9	6.0	"	95.2	ND	83.9	70-130	3.81	20	
Silver	103	1.0	"	95.2	ND	108	60-140	6.62	40	
Thallium	81.4	2.5	"	95.2	ND	85.5	70-130	2.43	20	
Vanadium	113	6.0	"	95.2	34	83.0	70-130	3.48	20	
Zinc	114	10	"	95.2	34	84.0	70-130	2.60	20	

Batch B7A0579 - EPA 3050B

Blank (B7A0579-BLK1)

Prepared: 01/05/17 Analyzed: 01/09/17

Antimony	ND	2.5	mg/kg							
Arsenic	ND	3.5	"							
Barium	ND	6.5	"							
Beryllium	ND	0.50	"							
Cadmium	ND	0.50	"							
Chromium	ND	3.0	"							
Cobalt	ND	2.5	"							
Copper	ND	2.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	1.0	"							
Nickel	ND	4.0	"							
Selenium	ND	6.0	"							
Silver	ND	1.0	"							
Thallium	ND	2.5	"							
Vanadium	ND	6.0	"							
Zinc	ND	10	"							

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0579 - EPA 3050B

LCS (B7A0579-BS1)

Prepared: 01/05/17 Analyzed: 01/09/17

Antimony	101	2.5	mg/kg	100		101	75-125			
Arsenic	95.1	3.5	"	100		95.1	78-122			
Barium	98.3	6.5	"	100		98.3	80-120			
Beryllium	95.6	0.50	"	100		95.6	80-120			
Cadmium	98.4	0.50	"	100		98.4	80-120			
Chromium	97.3	3.0	"	100		97.3	80-120			
Cobalt	101	2.5	"	100		101	80-120			
Copper	104	2.0	"	100		104	78-122			
Lead	98.1	3.0	"	100		98.1	80-120			
Molybdenum	100	1.0	"	100		100	80-120			
Nickel	100	4.0	"	100		100	80-120			
Selenium	94.2	6.0	"	100		94.2	76-124			
Silver	113	1.0	"	100		113	60-140			
Thallium	98.3	2.5	"	100		98.3	80-120			
Vanadium	94.9	6.0	"	100		94.9	80-120			
Zinc	95.9	10	"	100		95.9	80-120			

LCS Dup (B7A0579-BSD1)

Prepared: 01/05/17 Analyzed: 01/09/17

Antimony	99.9	2.5	mg/kg	100		99.9	75-125	1.10	20	
Arsenic	93.6	3.5	"	100		93.6	78-122	1.59	20	
Barium	98.2	6.5	"	100		98.2	80-120	0.102	20	
Beryllium	96.0	0.50	"	100		96.0	80-120	0.418	20	
Cadmium	97.7	0.50	"	100		97.7	80-120	0.714	20	
Chromium	98.4	3.0	"	100		98.4	80-120	1.12	20	
Cobalt	101	2.5	"	100		101	80-120	0.00	20	
Copper	102	2.0	"	100		102	78-122	1.94	20	
Lead	97.1	3.0	"	100		97.1	80-120	1.02	20	
Molybdenum	100	1.0	"	100		100	80-120	0.00	20	
Nickel	100	4.0	"	100		100	80-120	0.00	20	
Selenium	92.4	6.0	"	100		92.4	76-124	1.93	20	
Silver	111	1.0	"	100		111	60-140	1.79	40	
Thallium	97.0	2.5	"	100		97.0	80-120	1.33	20	
Vanadium	94.9	6.0	"	100		94.9	80-120	0.00	20	
Zinc	95.3	10	"	100		95.3	80-120	0.628	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0579 - EPA 3050B

Matrix Spike (B7A0579-MS1)

Source: 1701054-10

Prepared: 01/05/17

Analyzed: 01/09/17

Antimony	85.1	2.5	mg/kg	98.1	0.60	86.1	60-140			
Arsenic	92.0	3.5	"	98.1	ND	93.8	70-130			
Barium	155	6.5	"	98.1	66	90.7	70-130			
Beryllium	92.0	0.50	"	98.1	0.075	93.7	70-130			
Cadmium	91.2	0.50	"	98.1	0.050	92.9	70-130			
Chromium	110	3.0	"	98.1	21	90.7	70-130			
Cobalt	99.0	2.5	"	98.1	6.5	94.3	70-130			
Copper	118	2.0	"	98.1	15	105	70-130			
Lead	94.1	3.0	"	98.1	3.0	92.9	70-130			
Molybdenum	96.0	1.0	"	98.1	ND	97.9	70-130			
Nickel	103	4.0	"	98.1	11	93.8	70-130			
Selenium	91.0	6.0	"	98.1	ND	92.8	70-130			
Silver	96.0	1.0	"	98.1	ND	97.9	60-140			
Thallium	92.2	2.5	"	98.1	ND	94.0	70-130			
Vanadium	118	6.0	"	98.1	30	89.7	70-130			
Zinc	125	10	"	98.1	36	90.7	70-130			

Matrix Spike Dup (B7A0579-MSD1)

Source: 1701054-10

Prepared: 01/05/17

Analyzed: 01/09/17

Antimony	82.6	2.5	mg/kg	98.0	0.60	83.7	60-140	2.98	20	
Arsenic	88.8	3.5	"	98.0	ND	90.6	70-130	3.54	20	
Barium	154	6.5	"	98.0	66	89.8	70-130	0.647	20	
Beryllium	90.0	0.50	"	98.0	0.075	91.8	70-130	2.20	20	
Cadmium	90.0	0.50	"	98.0	0.050	91.8	70-130	1.32	20	
Chromium	114	3.0	"	98.0	21	94.9	70-130	3.57	20	
Cobalt	97.4	2.5	"	98.0	6.5	92.8	70-130	1.63	20	
Copper	114	2.0	"	98.0	15	101	70-130	3.45	30	
Lead	91.1	3.0	"	98.0	3.0	89.9	70-130	3.24	30	
Molybdenum	92.3	1.0	"	98.0	ND	94.2	70-130	3.93	20	
Nickel	102	4.0	"	98.0	11	92.9	70-130	0.976	20	
Selenium	87.8	6.0	"	98.0	ND	89.6	70-130	3.58	20	
Silver	96.4	1.0	"	98.0	ND	98.4	60-140	0.416	40	
Thallium	89.9	2.5	"	98.0	ND	91.7	70-130	2.53	20	
Vanadium	117	6.0	"	98.0	30	88.8	70-130	0.851	20	
Zinc	123	10	"	98.0	36	88.8	70-130	1.61	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0580 - EPA 3050B

Blank (B7A0580-BLK1)

Prepared: 01/05/17 Analyzed: 01/09/17

Antimony	ND	2.5	mg/kg							
Arsenic	ND	3.5	"							
Barium	ND	6.5	"							
Beryllium	ND	0.50	"							
Cadmium	ND	0.50	"							
Chromium	ND	3.0	"							
Cobalt	ND	2.5	"							
Copper	ND	2.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	1.0	"							
Nickel	ND	4.0	"							
Selenium	ND	6.0	"							
Silver	ND	1.0	"							
Thallium	ND	2.5	"							
Vanadium	ND	6.0	"							
Zinc	ND	10	"							

LCS (B7A0580-BS1)

Prepared: 01/05/17 Analyzed: 01/09/17

Antimony	97.8	2.5	mg/kg	100	97.8	75-125
Arsenic	93.8	3.5	"	100	93.8	78-122
Barium	98.7	6.5	"	100	98.7	80-120
Beryllium	99.8	0.50	"	100	99.8	80-120
Cadmium	99.7	0.50	"	100	99.7	80-120
Chromium	102	3.0	"	100	102	80-120
Cobalt	103	2.5	"	100	103	80-120
Copper	104	2.0	"	100	104	78-122
Lead	94.5	3.0	"	100	94.5	80-120
Molybdenum	101	1.0	"	100	101	80-120
Nickel	102	4.0	"	100	102	80-120
Selenium	93.8	6.0	"	100	93.8	76-124
Silver	106	1.0	"	100	106	60-140
Thallium	97.7	2.5	"	100	97.7	80-120
Vanadium	95.5	6.0	"	100	95.5	80-120
Zinc	97.6	10	"	100	97.6	80-120

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0580 - EPA 3050B

LCS Dup (B7A0580-BSD1)

Prepared: 01/05/17 Analyzed: 01/09/17

Antimony	91.1	2.5	mg/kg	100		91.1	75-125	7.09	20	
Arsenic	85.7	3.5	"	100		85.7	78-122	9.03	20	
Barium	90.0	6.5	"	100		90.0	80-120	9.22	20	
Beryllium	89.0	0.50	"	100		89.0	80-120	11.4	20	
Cadmium	90.5	0.50	"	100		90.5	80-120	9.67	20	
Chromium	89.0	3.0	"	100		89.0	80-120	13.6	20	
Cobalt	92.4	2.5	"	100		92.4	80-120	10.8	20	
Copper	92.6	2.0	"	100		92.6	78-122	11.6	20	
Lead	88.5	3.0	"	100		88.5	80-120	6.56	20	
Molybdenum	91.6	1.0	"	100		91.6	80-120	9.76	20	
Nickel	92.6	4.0	"	100		92.6	80-120	9.66	20	
Selenium	87.0	6.0	"	100		87.0	76-124	7.52	20	
Silver	106	1.0	"	100		106	60-140	0.00	40	
Thallium	90.4	2.5	"	100		90.4	80-120	7.76	20	
Vanadium	86.6	6.0	"	100		86.6	80-120	9.77	20	
Zinc	86.9	10	"	100		86.9	80-120	11.6	20	

Matrix Spike (B7A0580-MS1)

Source: 1701054-20

Prepared: 01/05/17 Analyzed: 01/09/17

Antimony	76.4	2.3	mg/kg	90.3	0.42	84.1	60-140			
Arsenic	85.4	3.2	"	90.3	ND	94.6	70-130			
Barium	182	5.9	"	90.3	80	113	70-130			
Beryllium	84.0	0.45	"	90.3	0.10	92.9	70-130			
Cadmium	83.8	0.45	"	90.3	0.025	92.8	70-130			
Chromium	105	2.7	"	90.3	21	93.0	70-130			
Cobalt	93.0	2.3	"	90.3	7.9	94.2	70-130			
Copper	105	1.8	"	90.3	13	102	70-130			
Lead	84.2	2.7	"	90.3	3.0	89.9	70-130			
Molybdenum	84.4	0.90	"	90.3	0.38	93.0	70-130			
Nickel	101	3.6	"	90.3	13	97.5	70-130			
Selenium	83.8	5.4	"	90.3	ND	92.8	70-130			
Silver	85.6	0.90	"	90.3	0.10	94.7	60-140			
Thallium	81.3	2.3	"	90.3	ND	90.0	70-130			
Vanadium	117	5.4	"	90.3	32	94.1	70-130			
Zinc	123	9.0	"	90.3	38	94.1	70-130			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0580 - EPA 3050B

Matrix Spike Dup (B7A0580-MSD1)	Source: 1701054-20			Prepared: 01/05/17		Analyzed: 01/09/17				
Antimony	74.8	2.3	mg/kg	90.5	0.42	82.2	60-140	2.12	20	
Arsenic	83.7	3.2	"	90.5	ND	92.5	70-130	2.01	20	
Barium	178	5.9	"	90.5	80	108	70-130	2.22	20	
Beryllium	82.7	0.45	"	90.5	0.10	91.3	70-130	1.56	20	
Cadmium	82.5	0.45	"	90.5	0.025	91.1	70-130	1.56	20	
Chromium	108	2.7	"	90.5	21	96.1	70-130	2.82	20	
Cobalt	91.5	2.3	"	90.5	7.9	92.4	70-130	1.63	20	
Copper	104	1.8	"	90.5	13	101	70-130	0.957	30	
Lead	82.8	2.7	"	90.5	3.0	88.2	70-130	1.68	30	
Molybdenum	83.1	0.90	"	90.5	0.38	91.4	70-130	1.55	20	
Nickel	98.5	3.6	"	90.5	13	94.5	70-130	2.51	20	
Selenium	80.8	5.4	"	90.5	ND	89.3	70-130	3.65	20	
Silver	87.4	0.90	"	90.5	0.10	96.5	60-140	2.08	40	
Thallium	80.8	2.3	"	90.5	ND	89.3	70-130	0.617	20	
Vanadium	115	5.4	"	90.5	32	91.7	70-130	1.72	20	
Zinc	121	9.0	"	90.5	38	91.7	70-130	1.64	20	

Batch B7A0581 - EPA 7471A

Blank (B7A0581-BLK1)				Prepared: 01/05/17		Analyzed: 01/06/17				
Mercury	ND	0.01	mg/kg							
LCS (B7A0581-BS1)				Prepared: 01/05/17		Analyzed: 01/06/17				
Mercury	0.17	0.01	mg/kg	0.167		102	70-130			
Matrix Spike (B7A0581-MS1)	Source: 1701054-01			Prepared: 01/05/17		Analyzed: 01/06/17				
Mercury	0.15	0.01	mg/kg	0.151	0.03	79.5	70-130			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0581 - EPA 7471A

Matrix Spike Dup (B7A0581-MSD1)		Source: 1701054-01		Prepared: 01/05/17		Analyzed: 01/06/17				
Mercury	0.15	0.01	mg/kg	0.151	0.03	79.5	70-130	0.00	30	

Batch B7A0582 - EPA 7471A

Blank (B7A0582-BLK1)				Prepared: 01/05/17		Analyzed: 01/06/17				
Mercury	ND	0.01	mg/kg							

LCS (B7A0582-BS1)				Prepared: 01/05/17		Analyzed: 01/06/17				
Mercury	0.17	0.01	mg/kg	0.167		102	70-130			

Matrix Spike (B7A0582-MS1)		Source: 1701054-11		Prepared: 01/05/17		Analyzed: 01/06/17				
Mercury	0.14	0.01	mg/kg	0.164	0.01	79.3	70-130			

Matrix Spike Dup (B7A0582-MSD1)		Source: 1701054-11		Prepared: 01/05/17		Analyzed: 01/06/17				
Mercury	0.14	0.01	mg/kg	0.164	0.01	79.3	70-130	0.00	30	

Batch B7A0583 - EPA 7471A

Blank (B7A0583-BLK1)				Prepared: 01/05/17		Analyzed: 01/06/17				
Mercury	ND	0.01	mg/kg							

LCS (B7A0583-BS1)				Prepared: 01/05/17		Analyzed: 01/06/17				
Mercury	0.16	0.01	mg/kg	0.167		95.8	70-130			

Matrix Spike (B7A0583-MS1)		Source: 1701054-21		Prepared: 01/05/17		Analyzed: 01/06/17				
Mercury	0.16	0.01	mg/kg	0.165	0.03	78.8	70-130			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0583 - EPA 7471A

Matrix Spike Dup (B7A0583-MSD1)		Source: 1701054-21		Prepared: 01/05/17		Analyzed: 01/06/17				
Mercury	0.16	0.01	mg/kg	0.167	0.03	77.8	70-130	0.00	30	

Batch B7A0585 - EPA 3060A

Blank (B7A0585-BLK1)				Prepared: 01/05/17		Analyzed: 01/09/17				
Hexavalent Chromium	ND	0.21	mg/kg							

LCS (B7A0585-BS1)				Prepared: 01/05/17		Analyzed: 01/09/17				
Hexavalent Chromium	0.161	0.21	mg/kg	0.150		107	80-120			

Matrix Spike (B7A0585-MS1)		Source: 1701054-01		Prepared: 01/05/17		Analyzed: 01/09/17				
Hexavalent Chromium	0.163	0.21	mg/kg	0.138	ND	118	75-125			

Matrix Spike Dup (B7A0585-MSD1)		Source: 1701054-01		Prepared: 01/05/17		Analyzed: 01/09/17				
Hexavalent Chromium	0.159	0.21	mg/kg	0.138	ND	115	75-125	2.48	20	

Batch B7A0586 - EPA 3060A

Blank (B7A0586-BLK1)				Prepared: 01/05/17		Analyzed: 01/09/17				
Hexavalent Chromium	ND	0.21	mg/kg							

LCS (B7A0586-BS1)				Prepared: 01/05/17		Analyzed: 01/09/17				
Hexavalent Chromium	0.161	0.21	mg/kg	0.150		107	80-120			

Matrix Spike (B7A0586-MS1)		Source: 1701054-11		Prepared: 01/05/17		Analyzed: 01/09/17				
Hexavalent Chromium	0.152	0.21	mg/kg	0.140	ND	109	75-125			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0586 - EPA 3060A

Matrix Spike Dup (B7A0586-MSD1)

Source: 1701054-11

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	0.155	0.21	mg/kg	0.140	ND	111	75-125	1.95	20	
---------------------	-------	------	-------	-------	----	-----	--------	------	----	--

Batch B7A0587 - EPA 3060A

Blank (B7A0587-BLK1)

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	ND	0.21	mg/kg							
---------------------	----	------	-------	--	--	--	--	--	--	--

LCS (B7A0587-BS1)

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	0.151	0.21	mg/kg	0.150		101	80-120			
---------------------	-------	------	-------	-------	--	-----	--------	--	--	--

Matrix Spike (B7A0587-MS1)

Source: 1701054-21

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	0.244	0.21	mg/kg	0.150	0.12	82.7	75-125			
---------------------	-------	------	-------	-------	------	------	--------	--	--	--

Matrix Spike Dup (B7A0587-MSD1)

Source: 1701054-21

Prepared: 01/05/17 Analyzed: 01/09/17

Hexavalent Chromium	0.248	0.21	mg/kg	0.150	0.12	85.3	75-125	1.63	20	
---------------------	-------	------	-------	-------	------	------	--------	------	----	--

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Total Volatile Petroleum Hydrocarbons (TVPH) by GC/FID - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0558 - EPA 5035 P & T

Blank (B7A0558-BLK1)				Prepared & Analyzed: 01/05/17						
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg							
Surrogate: a,a,a-Trifluorotoluene	0.0214		"	0.0200		107	35-130			
Blank (B7A0558-BLK2)				Prepared & Analyzed: 01/05/17						
Gasoline Range Hydrocarbons (C4-C12)	ND	0.050	mg/kg							
Surrogate: a,a,a-Trifluorotoluene	0.0182		"	0.0200		91.0	35-130			
LCS (B7A0558-BS1)				Prepared & Analyzed: 01/05/17						
Gasoline Range Hydrocarbons (C4-C12)	0.601	0.050	mg/kg	0.600		100	85-115			
LCS (B7A0558-BS2)				Prepared & Analyzed: 01/05/17						
Gasoline Range Hydrocarbons (C4-C12)	0.532	0.050	mg/kg	0.600		88.7	85-115			
Matrix Spike (B7A0558-MS1)				Source: 1701054-19		Prepared & Analyzed: 01/05/17				
Gasoline Range Hydrocarbons (C4-C12)	0.624	0.050	mg/kg	0.600	ND	104	50-150			
Matrix Spike (B7A0558-MS2)				Source: 1701054-26		Prepared & Analyzed: 01/05/17				
Gasoline Range Hydrocarbons (C4-C12)	0.572	0.050	mg/kg	0.600	ND	95.3	50-150			
Matrix Spike Dup (B7A0558-MSD1)				Source: 1701054-19		Prepared & Analyzed: 01/05/17				
Gasoline Range Hydrocarbons (C4-C12)	0.566	0.050	mg/kg	0.600	ND	94.3	50-150	9.75	30	
Matrix Spike Dup (B7A0558-MSD2)				Source: 1701054-26		Prepared & Analyzed: 01/05/17				
Gasoline Range Hydrocarbons (C4-C12)	0.543	0.050	mg/kg	0.600	ND	90.5	50-150	5.20	30	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Total Petroleum Hydrocarbons (TPH) by GC/FID - Quality Control
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0954 - EPA 3550B Solid Ext

Blank (B7A0954-BLK1)										
										Prepared & Analyzed: 01/06/17
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg							
Oil Range Organics (C22-C36)	ND	5.0	"							
Surrogate: o-Terphenyl	2.40		"	2.50		96.0	60-175			
Surrogate: o-Terphenyl	2.40		"	2.50		96.0	60-175			
Blank (B7A0954-BLK2)										
										Prepared & Analyzed: 01/06/17
Diesel Range Organics (C10-C24)	ND	5.0	mg/kg							
Oil Range Organics (C22-C36)	ND	5.0	"							
Surrogate: o-Terphenyl	2.17		"	2.50		86.8	60-175			
Surrogate: o-Terphenyl	2.17		"	2.50		86.8	60-175			
LCS (B7A0954-BS1)										
										Prepared & Analyzed: 01/06/17
Diesel Range Organics (C10-C24)	52.3	5.0	mg/kg	50.0		105	80-120			
Diesel Range Organics (C10-C24)	52.3	5.0	"	50.0		105	80-120			
LCS (B7A0954-BS2)										
										Prepared & Analyzed: 01/06/17
Diesel Range Organics (C10-C24)	44.0	5.0	mg/kg	50.0		88.0	80-120			
Diesel Range Organics (C10-C24)	44.0	5.0	"	50.0		88.0	80-120			
Matrix Spike (B7A0954-MS1)										
										Source: 1701054-01
										Prepared & Analyzed: 01/06/17
Diesel Range Organics (C10-C24)	61.6	5.0	mg/kg	50.0	ND	123	50-150			
Diesel Range Organics (C10-C24)	61.6	5.0	"	50.0	ND	123	50-150			
Matrix Spike (B7A0954-MS2)										
										Source: 1701054-21
										Prepared & Analyzed: 01/06/17
Diesel Range Organics (C10-C24)	48.1	5.0	mg/kg	50.0	ND	96.2	50-150			
Diesel Range Organics (C10-C24)	48.1	5.0	"	50.0	ND	96.2	50-150			
Matrix Spike Dup (B7A0954-MSD1)										
										Source: 1701054-01
										Prepared & Analyzed: 01/06/17
Diesel Range Organics (C10-C24)	58.0	5.0	mg/kg	50.0	ND	116	50-150	6.02	30	
Diesel Range Organics (C10-C24)	58.0	5.0	"	50.0	ND	116	50-150	6.02	30	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons (TPH) by GC/FID - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0954 - EPA 3550B Solid Ext

Matrix Spike Dup (B7A0954-MSD2)	Source: 1701054-21			Prepared & Analyzed: 01/06/17						
Diesel Range Organics (C10-C24)	48.4	5.0	mg/kg	50.0	ND	96.8	50-150	0.622	30	
Diesel Range Organics (C10-C24)	48.4	5.0	"	50.0	ND	96.8	50-150	0.622	30	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0558 - EPA 5035 P & T

Blank (B7A0558-BLK1)

Prepared & Analyzed: 01/05/17

C5 <= HC < C6	ND	0.010	mg/kg							
C6 <= HC < C7	ND	0.010	"							
C7 <= HC < C8	ND	0.010	"							
C8 <= HC < C9	ND	0.010	"							
C9 <= HC < C10	ND	0.010	"							
C10 <= HC < C11	ND	0.010	"							
C11 <= HC < C12	ND	0.010	"							
HC >= C12	ND	0.010	"							
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"							

Surrogate: a,a,a-Trifluorotoluene	0.0214		"	0.0200		107	35-130			
-----------------------------------	--------	--	---	--------	--	-----	--------	--	--	--

Blank (B7A0558-BLK2)

Prepared & Analyzed: 01/05/17

C5 <= HC < C6	ND	0.010	mg/kg							
C6 <= HC < C7	ND	0.010	"							
C7 <= HC < C8	ND	0.010	"							
C8 <= HC < C9	ND	0.010	"							
C9 <= HC < C10	ND	0.010	"							
C10 <= HC < C11	ND	0.010	"							
C11 <= HC < C12	ND	0.010	"							
HC >= C12	ND	0.010	"							
Total Petroleum Hydrocarbons (C4-C12)	ND	0.050	"							

Surrogate: a,a,a-Trifluorotoluene	0.0182		"	0.0200		91.0	35-130			
-----------------------------------	--------	--	---	--------	--	------	--------	--	--	--

LCS (B7A0558-BS1)

Prepared & Analyzed: 01/05/17

Gasoline Range Hydrocarbons (C4-C12)	0.601	0.050	mg/kg	0.600		100	80-120			
--------------------------------------	-------	-------	-------	-------	--	-----	--------	--	--	--

LCS (B7A0558-BS2)

Prepared & Analyzed: 01/05/17

Gasoline Range Hydrocarbons (C4-C12)	0.532	0.050	mg/kg	0.600		88.7	80-120			
--------------------------------------	-------	-------	-------	-------	--	------	--------	--	--	--

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0558 - EPA 5035 P & T

Matrix Spike (B7A0558-MS1)		Source: 1701054-19			Prepared & Analyzed: 01/05/17					
Gasoline Range Hydrocarbons (C4-C12)	0.624	0.050	mg/kg	0.600	ND	104	50-150			
Matrix Spike (B7A0558-MS2)		Source: 1701054-26			Prepared & Analyzed: 01/05/17					
Gasoline Range Hydrocarbons (C4-C12)	0.572	0.050	mg/kg	0.600	ND	95.3	50-150			
Matrix Spike Dup (B7A0558-MSD1)		Source: 1701054-19			Prepared & Analyzed: 01/05/17					
Gasoline Range Hydrocarbons (C4-C12)	0.566	0.050	mg/kg	0.600	ND	94.3	50-150	9.75	30	
Matrix Spike Dup (B7A0558-MSD2)		Source: 1701054-26			Prepared & Analyzed: 01/05/17					
Gasoline Range Hydrocarbons (C4-C12)	0.543	0.050	mg/kg	0.600	ND	90.5	50-150	5.20	30	

Batch B7A0954 - EPA 3550B Solid Ext

Blank (B7A0954-BLK1)		Prepared & Analyzed: 01/06/17								
HC < C8	ND	1.0	mg/kg							
C8 <= HC < C9	ND	1.0	"							
C9 <= HC < C10	ND	1.0	"							
C10 <= HC < C11	ND	1.0	"							
C11 <= HC < C12	ND	1.0	"							
C12 <= HC < C14	ND	1.0	"							
C14 <= HC < C16	ND	1.0	"							
C16 <= HC < C18	ND	1.0	"							
C18 <= HC < C20	ND	1.0	"							
C20 <= HC < C24	ND	1.0	"							
C24 <= HC < C28	ND	1.0	"							
C28 <= HC < C32	ND	1.0	"							
HC >= C32	ND	1.0	"							
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"							
Surrogate: o-Terphenyl	2.40		"	2.50		96.0	60-175			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0954 - EPA 3550B Solid Ext

Blank (B7A0954-BLK2)

Prepared & Analyzed: 01/06/17

HC < C8	ND	1.0	mg/kg							
C8 <= HC < C9	ND	1.0	"							
C9 <= HC < C10	ND	1.0	"							
C10 <= HC < C11	ND	1.0	"							
C11 <= HC < C12	ND	1.0	"							
C12 <= HC < C14	ND	1.0	"							
C14 <= HC < C16	ND	1.0	"							
C16 <= HC < C18	ND	1.0	"							
C18 <= HC < C20	ND	1.0	"							
C20 <= HC < C24	ND	1.0	"							
C24 <= HC < C28	ND	1.0	"							
C28 <= HC < C32	ND	1.0	"							
HC >= C32	ND	1.0	"							
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"							

Surrogate: *o*-Terphenyl 2.17 " 2.50 86.8 60-175

LCS (B7A0954-BS1)

Prepared & Analyzed: 01/06/17

Diesel Range Organics (C10-C24)	52.3	5.0	mg/kg	50.0		105	80-120			
---------------------------------	------	-----	-------	------	--	-----	--------	--	--	--

LCS (B7A0954-BS2)

Prepared & Analyzed: 01/06/17

Diesel Range Organics (C10-C24)	44.0	5.0	mg/kg	50.0		88.0	80-120			
---------------------------------	------	-----	-------	------	--	------	--------	--	--	--

Matrix Spike (B7A0954-MS1)

Source: 1701054-01

Prepared & Analyzed: 01/06/17

Diesel Range Organics (C10-C24)	61.6	5.0	mg/kg	50.0	ND	123	50-150			
---------------------------------	------	-----	-------	------	----	-----	--------	--	--	--

Matrix Spike (B7A0954-MS2)

Source: 1701054-21

Prepared & Analyzed: 01/06/17

Diesel Range Organics (C10-C24)	48.1	5.0	mg/kg	50.0	ND	96.2	50-150			
---------------------------------	------	-----	-------	------	----	------	--------	--	--	--

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0954 - EPA 3550B Solid Ext

Matrix Spike Dup (B7A0954-MSD1)		Source: 1701054-01			Prepared & Analyzed: 01/06/17					
Diesel Range Organics (C10-C24)	58.0	5.0	mg/kg	50.0	ND	116	50-150	6.02	30	
Matrix Spike Dup (B7A0954-MSD2)		Source: 1701054-21			Prepared & Analyzed: 01/06/17					
Diesel Range Organics (C10-C24)	48.4	5.0	mg/kg	50.0	ND	96.8	50-150	0.622	30	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0571 - EPA 5035 P & T

Blank (B7A0571-BLK1)

Prepared & Analyzed: 01/05/17

Benzene	ND	5.0	µg/kg							
Bromobenzene	ND	5.0	"							
Bromochloromethane	ND	5.0	"							
Bromodichloromethane	ND	5.0	"							
Bromoform	ND	5.0	"							
Bromomethane	ND	5.0	"							
n-Butylbenzene	ND	5.0	"							
sec-Butylbenzene	ND	5.0	"							
tert-Butylbenzene	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	5.0	"							
2-Chlorotoluene	ND	5.0	"							
4-Chlorotoluene	ND	5.0	"							
Dibromochloromethane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Dibromomethane	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
Dichlorodifluoromethane	ND	5.0	"							
1,1-Dichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
1,1-Dichloroethene	ND	5.0	"							
cis-1,2-Dichloroethene	ND	5.0	"							
trans-1,2-Dichloroethene	ND	5.0	"							
1,2-Dichloropropane	ND	5.0	"							
1,3-Dichloropropane	ND	5.0	"							
2,2-Dichloropropane	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
cis-1,3-Dichloropropene	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0571 - EPA 5035 P & T

Blank (B7A0571-BLK1)

Prepared & Analyzed: 01/05/17

Isopropylbenzene	ND	5.0	µg/kg							
p-Isopropyltoluene	ND	5.0	"							
Methylene chloride	ND	5.0	"							
Methyl tert-butyl ether	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
Toluene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
m,p-Xylene	ND	5.0	"							
o-Xylene	ND	5.0	"							
<i>Surrogate: Dibromofluoromethane</i>	44.8		"	50.0		89.6	80-120			
<i>Surrogate: Toluene-d8</i>	53.6		"	50.0		107	81-117			
<i>Surrogate: 4-Bromofluorobenzene</i>	48.4		"	50.0		96.8	74-121			

LCS (B7A0571-BS1)

Prepared & Analyzed: 01/05/17

Benzene	49.8	5.0	µg/kg	50.0		99.6	80-120			
Chlorobenzene	49.4	5.0	"	50.0		98.8	80-120			
1,1-Dichloroethene	48.9	5.0	"	50.0		97.8	80-120			
Toluene	52.4	5.0	"	50.0		105	80-120			
Trichloroethene	46.2	5.0	"	50.0		92.4	80-120			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0571 - EPA 5035 P & T

Matrix Spike (B7A0571-MS1)

Source: 1701054-15

Prepared: 01/05/17

Analyzed: 01/06/17

Benzene	54.1	5.0	µg/kg	50.0	ND	108	37-151			
Chlorobenzene	54.1	5.0	"	50.0	ND	108	37-160			
1,1-Dichloroethene	54.5	5.0	"	50.0	ND	109	50-150			
Toluene	59.0	5.0	"	50.0	ND	118	47-150			
Trichloroethene	46.7	5.0	"	50.0	ND	93.4	71-157			

Matrix Spike Dup (B7A0571-MSD1)

Source: 1701054-15

Prepared: 01/05/17

Analyzed: 01/06/17

Benzene	54.6	5.0	µg/kg	50.0	ND	109	37-151	0.920	30	
Chlorobenzene	53.6	5.0	"	50.0	ND	107	37-160	0.929	30	
1,1-Dichloroethene	58.5	5.0	"	50.0	ND	117	50-150	7.08	30	
Toluene	58.6	5.0	"	50.0	ND	117	47-150	0.680	30	
Trichloroethene	41.2	5.0	"	50.0	ND	82.4	71-157	12.5	30	

Batch B7A0572 - EPA 5035 P & T

Blank (B7A0572-BLK1)

Prepared: 01/05/17 Analyzed: 01/06/17

Benzene	ND	5.0	µg/kg							
Bromobenzene	ND	5.0	"							
Bromochloromethane	ND	5.0	"							
Bromodichloromethane	ND	5.0	"							
Bromoform	ND	5.0	"							
Bromomethane	ND	5.0	"							
n-Butylbenzene	ND	5.0	"							
sec-Butylbenzene	ND	5.0	"							
tert-Butylbenzene	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	5.0	"							
2-Chlorotoluene	ND	5.0	"							
4-Chlorotoluene	ND	5.0	"							
Dibromochloromethane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Dibromomethane	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0572 - EPA 5035 P & T

Blank (B7A0572-BLK1)

Prepared: 01/05/17 Analyzed: 01/06/17

1,4-Dichlorobenzene	ND	5.0	µg/kg							
Dichlorodifluoromethane	ND	5.0	"							
1,1-Dichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
1,1-Dichloroethene	ND	5.0	"							
cis-1,2-Dichloroethene	ND	5.0	"							
trans-1,2-Dichloroethene	ND	5.0	"							
1,2-Dichloropropane	ND	5.0	"							
1,3-Dichloropropane	ND	5.0	"							
2,2-Dichloropropane	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
cis-1,3-Dichloropropene	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							
Isopropylbenzene	ND	5.0	"							
p-Isopropyltoluene	ND	5.0	"							
Methylene chloride	ND	5.0	"							
Methyl tert-butyl ether	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
Toluene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
m,p-Xylene	ND	5.0	"							

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: SHPI-Amerigas
 Project Number: [none]
 Project Manager: Susan Mearns

Reported:
 01/12/17 09:24

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0572 - EPA 5035 P & T

Blank (B7A0572-BLK1)

Prepared: 01/05/17 Analyzed: 01/06/17

o-Xylene	ND	5.0	µg/kg							
Surrogate: Dibromofluoromethane	50.5		"	50.0		101	80-120			
Surrogate: Toluene-d8	49.0		"	50.0		98.0	81-117			
Surrogate: 4-Bromofluorobenzene	52.8		"	50.0		106	74-121			

LCS (B7A0572-BS1)

Prepared: 01/05/17 Analyzed: 01/06/17

Benzene	49.2	5.0	µg/kg	50.0		98.4	80-120			
Chlorobenzene	48.7	5.0	"	50.0		97.4	80-120			
1,1-Dichloroethene	49.0	5.0	"	50.0		98.0	80-120			
Toluene	53.3	5.0	"	50.0		107	80-120			
Trichloroethene	48.7	5.0	"	50.0		97.4	80-120			

Matrix Spike (B7A0572-MS1)

Source: 1701054-16

Prepared: 01/05/17 Analyzed: 01/06/17

Benzene	58.0	5.0	µg/kg	50.0	ND	116	37-151			
Chlorobenzene	49.7	5.0	"	50.0	ND	99.4	37-160			
1,1-Dichloroethene	55.1	5.0	"	50.0	ND	110	50-150			
Toluene	57.8	5.0	"	50.0	ND	116	47-150			
Trichloroethene	49.0	5.0	"	50.0	ND	98.0	71-157			

Matrix Spike Dup (B7A0572-MSD1)

Source: 1701054-16

Prepared: 01/05/17 Analyzed: 01/06/17

Benzene	55.0	5.0	µg/kg	50.0	ND	110	37-151	5.31	30	
Chlorobenzene	57.9	5.0	"	50.0	ND	116	37-160	15.2	30	
1,1-Dichloroethene	54.1	5.0	"	50.0	ND	108	50-150	1.83	30	
Toluene	51.6	5.0	"	50.0	ND	103	47-150	11.3	30	
Trichloroethene	49.4	5.0	"	50.0	ND	98.8	71-157	0.813	30	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0953 - EPA 3550B Solid Ext

Blank (B7A0953-BLK1)

Prepared & Analyzed: 01/05/17

Acenaphthene	ND	0.33	mg/kg							
Acenaphthylene	ND	0.33	"							
Anthracene	ND	0.33	"							
Benzidine	ND	0.33	"							
Benzo (a) anthracene	ND	0.33	"							
Benzo (b) fluoranthene	ND	0.33	"							
Benzo (k) fluoranthene	ND	0.33	"							
Benzo (a) pyrene	ND	0.33	"							
Benzo (g,h,i) perylene	ND	0.33	"							
Benzyl alcohol	ND	0.33	"							
Bis(2-chloroethyl)ether	ND	0.33	"							
Bis(2-chloroethoxy)methane	ND	0.33	"							
Bis(2-ethylhexyl)phthalate	ND	0.33	"							
Bis(2-chloroisopropyl)ether	ND	0.33	"							
4-Bromophenyl phenyl ether	ND	0.33	"							
Butyl benzyl phthalate	ND	0.33	"							
4-Chloroaniline	ND	0.33	"							
2-Chlorophenol	ND	0.33	"							
4-Chloro-3-methylphenol	ND	0.33	"							
2-Chloronaphthalene	ND	0.33	"							
4-Chlorophenyl phenyl ether	ND	0.33	"							
Chrysene	ND	0.33	"							
Dibenz (a,h) anthracene	ND	0.33	"							
Dibenzofuran	ND	0.33	"							
1,3-Dichlorobenzene	ND	0.33	"							
1,2-Dichlorobenzene	ND	0.33	"							
1,4-Dichlorobenzene	ND	0.33	"							
3,3'-Dichlorobenzidine	ND	0.33	"							
2,4-Dichlorophenol	ND	0.33	"							
Diethyl phthalate	ND	0.33	"							
2,4-Dimethylphenol	ND	0.33	"							
Dimethyl phthalate	ND	0.33	"							
Di-n-butyl phthalate	ND	0.33	"							
2,4-Dinitrophenol	ND	0.33	"							
4,6-Dinitro-2-methylphenol	ND	0.33	"							
2,4-Dinitrotoluene	ND	0.33	"							
2,6-Dinitrotoluene	ND	0.33	"							

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0953 - EPA 3550B Solid Ext

Blank (B7A0953-BLK1)

Prepared & Analyzed: 01/05/17

Di-n-octyl phthalate	ND	0.33	mg/kg							
1,2-Diphenylhydrazine	ND	0.33	"							
Fluoranthene	ND	0.33	"							
Fluorene	ND	0.33	"							
Hexachlorobenzene	ND	0.33	"							
Hexachlorobutadiene	ND	0.33	"							
Hexachlorocyclopentadiene	ND	0.33	"							
Hexachloroethane	ND	0.33	"							
Indeno (1,2,3-cd) pyrene	ND	0.33	"							
Isophorone	ND	0.33	"							
2-Methylnaphthalene	ND	0.33	"							
2-Methylphenol	ND	0.33	"							
4-Methylphenol	ND	0.33	"							
Naphthalene	ND	0.33	"							
2-Nitroaniline	ND	0.33	"							
3-Nitroaniline	ND	0.33	"							
4-Nitroaniline	ND	0.33	"							
Nitrobenzene	ND	0.33	"							
2-Nitrophenol	ND	0.33	"							
4-Nitrophenol	ND	0.33	"							
N-Nitrosodimethylamine	ND	0.33	"							
Diphenylamine	ND	0.33	"							
N-Nitrosodi-n-propylamine	ND	0.33	"							
Pentachlorophenol	ND	0.33	"							
Phenanthrene	ND	0.33	"							
Phenol	ND	0.33	"							
Pyrene	ND	0.33	"							
1,2,4-Trichlorobenzene	ND	0.33	"							
2,4,5-Trichlorophenol	ND	0.33	"							
2,4,6-Trichlorophenol	ND	0.33	"							
Surrogate: 2-Fluorophenol	0.440		"	0.500		88.0	25-121			
Surrogate: Phenol-d6	0.468		"	0.500		93.6	24-113			
Surrogate: Nitrobenzene-d5	0.289		"	0.333		86.8	23-120			
Surrogate: 2-Fluorobiphenyl	0.298		"	0.333		89.5	30-115			
Surrogate: 2,4,6-Tribromophenol	0.402		"	0.500		80.4	19-122			
Surrogate: Terphenyl-d14	0.298		"	0.333		89.5	18-137			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0953 - EPA 3550B Solid Ext

Blank (B7A0953-BLK2)

Prepared & Analyzed: 01/06/17

Acenaphthene	ND	0.33	mg/kg							
Acenaphthylene	ND	0.33	"							
Anthracene	ND	0.33	"							
Benzidine	ND	0.33	"							
Benzo (a) anthracene	ND	0.33	"							
Benzo (b) fluoranthene	ND	0.33	"							
Benzo (k) fluoranthene	ND	0.33	"							
Benzo (a) pyrene	ND	0.33	"							
Benzo (g,h,i) perylene	ND	0.33	"							
Benzyl alcohol	ND	0.33	"							
Bis(2-chloroethyl)ether	ND	0.33	"							
Bis(2-chloroethoxy)methane	ND	0.33	"							
Bis(2-ethylhexyl)phthalate	ND	0.33	"							
Bis(2-chloroisopropyl)ether	ND	0.33	"							
4-Bromophenyl phenyl ether	ND	0.33	"							
Butyl benzyl phthalate	ND	0.33	"							
4-Chloroaniline	ND	0.33	"							
2-Chlorophenol	ND	0.33	"							
4-Chloro-3-methylphenol	ND	0.33	"							
2-Chloronaphthalene	ND	0.33	"							
4-Chlorophenyl phenyl ether	ND	0.33	"							
Chrysene	ND	0.33	"							
Dibenz (a,h) anthracene	ND	0.33	"							
Dibenzofuran	ND	0.33	"							
1,3-Dichlorobenzene	ND	0.33	"							
1,2-Dichlorobenzene	ND	0.33	"							
1,4-Dichlorobenzene	ND	0.33	"							
3,3'-Dichlorobenzidine	ND	0.33	"							
2,4-Dichlorophenol	ND	0.33	"							
Diethyl phthalate	ND	0.33	"							
2,4-Dimethylphenol	ND	0.33	"							
Dimethyl phthalate	ND	0.33	"							
Di-n-butyl phthalate	ND	0.33	"							
2,4-Dinitrophenol	ND	0.33	"							
4,6-Dinitro-2-methylphenol	ND	0.33	"							
2,4-Dinitrotoluene	ND	0.33	"							
2,6-Dinitrotoluene	ND	0.33	"							

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0953 - EPA 3550B Solid Ext

Blank (B7A0953-BLK2)

Prepared & Analyzed: 01/06/17

Di-n-octyl phthalate	ND	0.33	mg/kg							
1,2-Diphenylhydrazine	ND	0.33	"							
Fluoranthene	ND	0.33	"							
Fluorene	ND	0.33	"							
Hexachlorobenzene	ND	0.33	"							
Hexachlorobutadiene	ND	0.33	"							
Hexachlorocyclopentadiene	ND	0.33	"							
Hexachloroethane	ND	0.33	"							
Indeno (1,2,3-cd) pyrene	ND	0.33	"							
Isophorone	ND	0.33	"							
2-Methylnaphthalene	ND	0.33	"							
2-Methylphenol	ND	0.33	"							
4-Methylphenol	ND	0.33	"							
Naphthalene	ND	0.33	"							
2-Nitroaniline	ND	0.33	"							
3-Nitroaniline	ND	0.33	"							
4-Nitroaniline	ND	0.33	"							
Nitrobenzene	ND	0.33	"							
2-Nitrophenol	ND	0.33	"							
4-Nitrophenol	ND	0.33	"							
N-Nitrosodimethylamine	ND	0.33	"							
Diphenylamine	ND	0.33	"							
N-Nitrosodi-n-propylamine	ND	0.33	"							
Pentachlorophenol	ND	0.33	"							
Phenanthrene	ND	0.33	"							
Phenol	ND	0.33	"							
Pyrene	ND	0.33	"							
1,2,4-Trichlorobenzene	ND	0.33	"							
2,4,5-Trichlorophenol	ND	0.33	"							
2,4,6-Trichlorophenol	ND	0.33	"							
Surrogate: 2-Fluorophenol	0.395		"	0.500		79.0	25-121			
Surrogate: Phenol-d6	0.420		"	0.500		84.0	24-113			
Surrogate: Nitrobenzene-d5	0.321		"	0.333		96.4	23-120			
Surrogate: 2-Fluorobiphenyl	0.282		"	0.333		84.7	30-115			
Surrogate: 2,4,6-Tribromophenol	0.393		"	0.500		78.6	19-122			
Surrogate: Terphenyl-d14	0.301		"	0.333		90.4	18-137			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0953 - EPA 3550B Solid Ext

LCS (B7A0953-BS1)

Prepared & Analyzed: 01/05/17

Acenaphthene	0.288	0.33	mg/kg	0.333		86.5	47-145			
2-Chlorophenol	0.422	0.33	"	0.667		63.3	23-134			
4-Chloro-3-methylphenol	0.383	0.33	"	0.667		57.4	22-147			
1,4-Dichlorobenzene	0.291	0.33	"	0.333		87.4	20-124			
2,4-Dinitrotoluene	0.256	0.33	"	0.333		76.9	39-139			
4-Nitrophenol	0.284	0.33	"	0.667		42.6	0-132			
N-Nitrosodi-n-propylamine	0.250	0.33	"	0.333		75.1	0-230			
Pentachlorophenol	0.279	0.33	"	0.667		41.8	14-176			
Phenol	0.325	0.33	"	0.667		48.7	5-112			
Pyrene	0.282	0.33	"	0.333		84.7	52-115			
1,2,4-Trichlorobenzene	0.301	0.33	"	0.333		90.4	44-142			

LCS (B7A0953-BS2)

Prepared & Analyzed: 01/06/17

Acenaphthene	0.298	0.33	mg/kg	0.333		89.5	47-145			
2-Chlorophenol	0.440	0.33	"	0.667		66.0	23-134			
4-Chloro-3-methylphenol	0.405	0.33	"	0.667		60.7	22-147			
1,4-Dichlorobenzene	0.298	0.33	"	0.333		89.5	20-124			
2,4-Dinitrotoluene	0.250	0.33	"	0.333		75.1	39-139			
4-Nitrophenol	0.293	0.33	"	0.667		43.9	0-132			
N-Nitrosodi-n-propylamine	0.255	0.33	"	0.333		76.6	0-230			
Pentachlorophenol	0.285	0.33	"	0.667		42.7	14-176			
Phenol	0.310	0.33	"	0.667		46.5	5-112			
Pyrene	0.291	0.33	"	0.333		87.4	52-115			
1,2,4-Trichlorobenzene	0.304	0.33	"	0.333		91.3	44-142			

Matrix Spike (B7A0953-MS1)

Source: 1701054-01

Prepared & Analyzed: 01/05/17

Acenaphthene	0.275	0.33	mg/kg	0.333	ND	82.6	47-145			
2-Chlorophenol	0.423	0.33	"	0.667	ND	63.4	23-134			
4-Chloro-3-methylphenol	0.386	0.33	"	0.667	ND	57.9	22-147			
1,4-Dichlorobenzene	0.310	0.33	"	0.333	ND	93.1	20-124			
2,4-Dinitrotoluene	0.249	0.33	"	0.333	ND	74.8	39-139			
4-Nitrophenol	0.275	0.33	"	0.667	ND	41.2	0-132			
N-Nitrosodi-n-propylamine	0.241	0.33	"	0.333	ND	72.4	0-230			
Pentachlorophenol	0.287	0.33	"	0.667	ND	43.0	14-176			
Phenol	0.342	0.33	"	0.667	ND	51.3	5-112			
Pyrene	0.273	0.33	"	0.333	ND	82.0	52-115			
1,2,4-Trichlorobenzene	0.307	0.33	"	0.333	ND	92.2	44-142			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7A0953 - EPA 3550B Solid Ext

Matrix Spike (B7A0953-MS2)

Source: 1701054-21

Prepared & Analyzed: 01/06/17

Acenaphthene	0.301	0.33	mg/kg	0.333	ND	90.4	47-145			
2-Chlorophenol	0.472	0.33	"	0.667	ND	70.8	23-134			
4-Chloro-3-methylphenol	0.454	0.33	"	0.667	ND	68.1	22-147			
1,4-Dichlorobenzene	0.306	0.33	"	0.333	ND	91.9	20-124			
2,4-Dinitrotoluene	0.257	0.33	"	0.333	ND	77.2	39-139			
4-Nitrophenol	0.290	0.33	"	0.667	ND	43.5	0-132			
N-Nitrosodi-n-propylamine	0.250	0.33	"	0.333	ND	75.1	0-230			
Pentachlorophenol	0.291	0.33	"	0.667	ND	43.6	14-176			
Phenol	0.306	0.33	"	0.667	ND	45.9	5-112			
Pyrene	0.276	0.33	"	0.333	ND	82.9	52-115			
1,2,4-Trichlorobenzene	0.311	0.33	"	0.333	ND	93.4	44-142			

Matrix Spike Dup (B7A0953-MSD1)

Source: 1701054-01

Prepared & Analyzed: 01/05/17

Acenaphthene	0.290	0.33	mg/kg	0.333	ND	87.1	47-145	5.31	30	
2-Chlorophenol	0.461	0.33	"	0.667	ND	69.1	23-134	8.60	30	
4-Chloro-3-methylphenol	0.416	0.33	"	0.667	ND	62.4	22-147	7.48	30	
1,4-Dichlorobenzene	0.310	0.33	"	0.333	ND	93.1	20-124	0.00	30	
2,4-Dinitrotoluene	0.242	0.33	"	0.333	ND	72.7	39-139	2.85	30	
4-Nitrophenol	0.276	0.33	"	0.667	ND	41.4	0-132	0.363	30	
N-Nitrosodi-n-propylamine	0.239	0.33	"	0.333	ND	71.8	0-230	0.833	30	
Pentachlorophenol	0.273	0.33	"	0.667	ND	40.9	14-176	5.00	30	
Phenol	0.313	0.33	"	0.667	ND	46.9	5-112	8.85	30	
Pyrene	0.280	0.33	"	0.333	ND	84.1	52-115	2.53	30	
1,2,4-Trichlorobenzene	0.317	0.33	"	0.333	ND	95.2	44-142	3.21	30	

Matrix Spike Dup (B7A0953-MSD2)

Source: 1701054-21

Prepared & Analyzed: 01/06/17

Acenaphthene	0.307	0.33	mg/kg	0.333	ND	92.2	47-145	1.97	30	
2-Chlorophenol	0.431	0.33	"	0.667	ND	64.6	23-134	9.08	30	
4-Chloro-3-methylphenol	0.427	0.33	"	0.667	ND	64.0	22-147	6.13	30	
1,4-Dichlorobenzene	0.286	0.33	"	0.333	ND	85.9	20-124	6.76	30	
2,4-Dinitrotoluene	0.265	0.33	"	0.333	ND	79.6	39-139	3.07	30	
4-Nitrophenol	0.288	0.33	"	0.667	ND	43.2	0-132	0.692	30	
N-Nitrosodi-n-propylamine	0.248	0.33	"	0.333	ND	74.5	0-230	0.803	30	
Pentachlorophenol	0.294	0.33	"	0.667	ND	44.1	14-176	1.03	30	
Phenol	0.324	0.33	"	0.667	ND	48.6	5-112	5.71	30	
Pyrene	0.288	0.33	"	0.333	ND	86.5	52-115	4.26	30	
1,2,4-Trichlorobenzene	0.309	0.33	"	0.333	ND	92.8	44-142	0.645	30	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting LLC
738 Ashland Avenue
Santa Monica CA, 90405

Project: SHPI-Amerigas
Project Number: [none]
Project Manager: Susan Mearns

Reported:
01/12/17 09:24

Notes and Definitions

- D-34 Sample diluted due to high levels of petroleum hydrocarbons.
- D-42 Sample non-detect (ND) for requested fuel type. Other hydrocarbons may be present.
- S-03 Surrogate diluted out.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



SIERRA ANALYTICAL
 TEL: 949 • 348 • 9389
 FAX: 949 • 348 • 9115
 26052 Merit Circle • Suite 104 • Laguna Hills, CA • 92653

CHAIN OF CUSTODY RECORD

Date: 1 / 4 / 17 Page: 1 of 3

Lab Work Order No.: 1701054

Client: MEARNS CONSULTING CORP
 Client Address: 738 ASHLAND AVE
 SANTA MONICA CA 90405
 Client Tel. No.: 310 403 1921
 Client Fax. No.: 310 396 6878
 Client Proj. Mgr.: SUKAN L MEARNS PHD

Client Project ID:

SHIP - AMERICAS

Turn Around Time Requested:

Immediate 24 Hour
 48 Hour 72 Hour
 4 Day 5 Day
 Normal Mobile

Analyses Requested*	TLT METRS 6000/7000	Cr +	TPH-g 8015B	TPH-d 8015B	TPH-o 8015B	AROMATIC C CHAIN MADEP	AROMATIC C CHAIN MADEP	Geotracker EDD Info:
VOLs 820B/8035B	X	X	X	X	X	X	X	Client LOGCODE
SVDs 8270C	X	X	X	X	X	X	X	Site Global ID
TLT METRS 6000/7000	X	X	X	X	X	X	X	Field Point Names / Comments
Cr +	X	X	X	X	X	X	X	
TPH-g 8015B	X	X	X	X	X	X	X	
TPH-d 8015B	X	X	X	X	X	X	X	
TPH-o 8015B	X	X	X	X	X	X	X	
AROMATIC C CHAIN MADEP	X	X	X	X	X	X	X	
AROMATIC C CHAIN MADEP	X	X	X	X	X	X	X	

Client Sample ID.	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers
Building 2 / 808-5	01	1-4-17	0846	SOIL	ICE PRESERVATIVE	55 50N VOA VIALS	1/4
808-10	02		0857				
809-5	03		0917				
809-10	04		0930				
8010-5	05		0948				
8010-10	06		1007				
8011-5	07		1011				
8011-10	08		1019				
8012-5	09		1048				
8012-10	10		1055				

Shipped Via: _____ (Carrier/Waybill No.)

Received By: Scott Hagan Date: 1-4-17 Time: 16:07

Company: MEARNS CONSULTING CORP

Received By: _____ Date: _____ Time: _____

Company: _____

Received By: _____ Date: _____ Time: _____

Company: _____

Received By: _____ Date: _____ Time: _____

Company: _____

Special Instructions: VOLs collected via 8035B PRESERVED IN FIELD
 ** AROMATIC & AROMATIC C CHAINS PER MADEP GUIDANCE

FOR LABORATORY USE ONLY - Sample Receipt Conditions: Chilled - Temp (°C) 5.0 Preservatives - Verified By: _____

Intact Sample Seals Property Labelled Appropriate Sample Container

Storage Location: (108 sec) (MSA)

DISTRIBUTION: White - To Accountant, Yellow - Laboratory Copy, Pink - Field Personnel Copy



SIERRA ANALYTICAL
 TEL: 949 • 348 • 9389
 FAX: 949 • 348 • 9115
 26052 Merit Circle • Suite 104 • Laguna Hills, CA • 92653

CHAIN OF CUSTODY RECORD

Date: 1 / 4 / 17 Page: 2 of 3

Lab Work Order No.: 101054

Client: MEARN'S CONSULTING CORP
 Client Address: 738 ASHLAND AVE
 SANTA MONICA CA 90405
 Client Tel. No.: 310 403 4921
 Client Fax No.: 310 396 6878
 Client Proj. Mgr.: SUSAN L MEARN'S PHD

Client Project ID:

SHIP - AMERIGAS

Turn Around Time Requested:

Immediate
 24 Hour
 48 Hour
 72 Hour
 4 Day
 5 Day
 Normal
 Mobile

Analyses Requested:

Client Sample ID	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	VDs 8260B/5035B	SVCs 8270C	THE METALS 6000/3000	Gr #	TPH-g 8015B	TPH-d 8015B	TPH-o 8015B	ADPHATIC C CHAINS MADEP	AROMATIC C CHAINS MADEP
SP13-5	11	1-4-17	1118	SOIL	VE PRESERVATIVE	SS SLV	1/4	X	X	X	X	X	X	X	X	X
SP13-10	12		1135					X	X	X	X	X	X	X	X	X
SP14-5	13		1158					X	X	X	X	X	X	X	X	X
SP14-10	14		1210					X	X	X	X	X	X	X	X	X
SP17-5	15		1233					X	X	X	X	X	X	X	X	X
SP17-10	16		1240					X	X	X	X	X	X	X	X	X
SP15-5	17		1310					X	X	X	X	X	X	X	X	X
SP15-10	18		1328					X	X	X	X	X	X	X	X	X
SP16-5	19		1342					X	X	X	X	X	X	X	X	X
SP16-10	20		1348					X	X	X	X	X	X	X	X	X

Shipped Via: (Carrier/Waybill No.)

Received By: [Signature]
 Date: 1-4-17
 Company: SIERRA

Received By: [Signature]
 Date: 1-6-17
 Company: MEARN'S CONSULTING CORP

Received By: [Signature]
 Date: [Blank]
 Company: [Blank]

Received By: [Signature]
 Date: [Blank]
 Company: [Blank]

Received By: [Signature]
 Date: [Blank]
 Company: [Blank]

Total Number of Containers Submitted to Laboratory

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under SIERRA's Terms and Conditions, unless otherwise agreed upon in writing between SIERRA and CLIENT.
 * - Samples determined to be hazardous by SIERRA will be returned to CLIENT.

Total Number of Containers Received by Laboratory

FOR LABORATORY USE ONLY - Sample Receipt Conditions:
 Intact
 Sample Seals
 Property Labelled
 Appropriate Sample Container
 Chilled - Temp (°C) 4C
 Preservatives - Verified By
 Other
 Storage Location: (USA - 4-8-60C)

Special Instructions: SOIL ANALYZED FOR VDS VIA 8260B SAMPLED VIA 5035B. PRESERVED IN FIELD
 ** AROMATIC & ADPHATIC C CHAINS PER MADEP GUIDANCE

APPENDIX B

Background Analytical Data 2005



Mearns Consulting Corporation
738 Ashland Avenue
Santa Monica CA, 90405

Project: City of Signal Hill
Project Number: Las Brisas
Project Manager: Susan Mearns

Reported:
04/12/05 14:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB1-1	0504072-01	Soil	04/04/05 08:30	04/04/05 14:15
SB1-5	0504072-02	Soil	04/04/05 08:37	04/04/05 14:15
SB1-10	0504072-03	Soil	04/04/05 08:45	04/04/05 14:15
SB1-20	0504072-04	Soil	04/04/05 09:05	04/04/05 14:15
SB2-1	0504072-05	Soil	04/04/05 09:25	04/04/05 14:15
SB2-5	0504072-06	Soil	04/04/05 09:30	04/04/05 14:15
SB2-10	0504072-07	Soil	04/04/05 09:35	04/04/05 14:15
SB2-20	0504072-08	Soil	04/04/05 09:44	04/04/05 14:15
SB3-1	0504072-09	Soil	04/04/05 10:00	04/04/05 14:15
SB3-5	0504072-10	Soil	04/04/05 10:05	04/04/05 14:15
SB3-10	0504072-11	Soil	04/04/05 10:10	04/04/05 14:15
SB3-20	0504072-12	Soil	04/04/05 10:20	04/04/05 14:15
SB4-1	0504072-13	Soil	04/04/05 10:35	04/04/05 14:15
SB4-5	0504072-14	Soil	04/04/05 10:40	04/04/05 14:15
SB4-10	0504072-15	Soil	04/04/05 10:50	04/04/05 14:15
SB4-20	0504072-16	Soil	04/04/05 10:57	04/04/05 14:15
SB5-1	0504072-17	Soil	04/04/05 11:10	04/04/05 14:15
SB5-5	0504072-18	Soil	04/04/05 11:12	04/04/05 14:15
SB5-10	0504072-19	Soil	04/04/05 11:15	04/04/05 14:15
SB5-20	0504072-20	Soil	04/04/05 11:25	04/04/05 14:15
SB6-1	0504072-21	Soil	04/04/05 11:35	04/04/05 14:15
SB6-5	0504072-22	Soil	04/04/05 11:39	04/04/05 14:15
SB6-10	0504072-23	Soil	04/04/05 11:44	04/04/05 14:15
SB6-20	0504072-24	Soil	04/04/05 11:55	04/04/05 14:15
SB7-1	0504072-25	Soil	04/04/05 12:10	04/04/05 14:15
SB7-5	0504072-26	Soil	04/04/05 12:13	04/04/05 14:15
SB7-10	0504072-27	Soil	04/04/05 12:17	04/04/05 14:15
SB7-20	0504072-28	Soil	04/04/05 12:24	04/04/05 14:15
SB8-1	0504072-29	Soil	04/04/05 12:35	04/04/05 14:15
SB8-5	0504072-30	Soil	04/04/05 12:42	04/04/05 14:15

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
738 Ashland Avenue
Santa Monica CA, 90405

Project: City of Signal Hill
Project Number: Las Brisas
Project Manager: Susan Mearns

Reported:
04/12/05 14:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB8-10	0504072-31	Soil	04/04/05 12:44	04/04/05 14:15
SB8-20	0504072-32	Soil	04/04/05 12:51	04/04/05 14:15
Offsite-1	0504072-33	Soil	04/04/05 13:20	04/04/05 14:15
Offsite-5	0504072-34	Soil	04/04/05 13:25	04/04/05 14:15
Offsite-10	0504072-35	Soil	04/04/05 13:29	04/04/05 14:15
Offsite-20	0504072-36	Soil	04/04/05 13:36	04/04/05 14:15

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 4 °C, and accompanied by chain of custody documentation.
PRESERVATION: Samples requiring preservation were verified prior to sample preparation and analysis.
HOLDING TIMES: All holding times were met, unless otherwise noted in the report with data qualifiers.
QA/QC CRITERIA: All quality objective criteria were met, except as noted in the report with data qualifiers.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB1-1 (0504072-01) Soil Sampled: 04/04/05 08:30 Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
Arsenic	8.6	1.7	"	"	"	"	"	"	
Barium	170	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	12	2.2	"	"	"	"	"	"	
Chromium	30	0.98	"	"	"	"	"	"	
Copper	23	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
Nickel	19	0.79	"	"	"	"	"	"	
Lead	15	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
Vanadium	53	0.73	"	"	"	"	"	"	
Zinc	71	1.3	"	"	"	"	"	"	

SB1-5 (0504072-02) Soil Sampled: 04/04/05 08:37 Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
Arsenic	2.9	1.7	"	"	"	"	"	"	
Barium	67	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	7.3	2.2	"	"	"	"	"	"	
Chromium	16	0.98	"	"	"	"	"	"	
Copper	90	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
Nickel	9.3	0.79	"	"	"	"	"	"	
Lead	3.1	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
Vanadium	31	0.73	"	"	"	"	"	"	
Zinc	72	1.3	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
SB1-10 (0504072-03) Soil Sampled: 04/04/05 08:45 Received: 04/04/05 14:15										
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B		
Arsenic	4.0	1.7	"	"	"	"	"	"		
Barium	52	3.3	"	"	"	"	"	"		
Beryllium	ND	0.75	"	"	"	"	"	"		
Cadmium	ND	0.51	"	"	"	"	"	"		
Cobalt	4.7	2.2	"	"	"	"	"	"		
Chromium	15	0.98	"	"	"	"	"	"		
Copper	63	2.2	"	"	"	"	"	"		
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A		
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B		
Nickel	7.5	0.79	"	"	"	"	"	"		
Lead	2.3	1.3	"	"	"	"	"	"		
Antimony	ND	1.6	"	"	"	"	"	"		
Selenium	ND	1.9	"	"	"	"	"	"		
Thallium	ND	1.5	"	"	"	"	"	"		
Vanadium	26	0.73	"	"	"	"	"	"		
Zinc	64	1.3	"	"	"	"	"	"		

SB1-20 (0504072-04) Soil Sampled: 04/04/05 09:05 Received: 04/04/05 14:15										
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B		
Arsenic	2.3	1.7	"	"	"	"	"	"		
Barium	46	3.3	"	"	"	"	"	"		
Beryllium	ND	0.75	"	"	"	"	"	"		
Cadmium	ND	0.51	"	"	"	"	"	"		
Cobalt	4.3	2.2	"	"	"	"	"	"		
Chromium	10	0.98	"	"	"	"	"	"		
Copper	30	2.2	"	"	"	"	"	"		
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A		
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B		
Nickel	6.0	0.79	"	"	"	"	"	"		
Lead	ND	1.3	"	"	"	"	"	"		
Antimony	ND	1.6	"	"	"	"	"	"		
Selenium	ND	1.9	"	"	"	"	"	"		
Thallium	ND	1.5	"	"	"	"	"	"		
Vanadium	17	0.73	"	"	"	"	"	"		
Zinc	41	1.3	"	"	"	"	"	"		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB2-1 (0504072-05) Soil Sampled: 04/04/05 09:25 Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
Arsenic	6.1	1.7	"	"	"	"	"	"	
Barium	120	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	7.9	2.2	"	"	"	"	"	"	
Chromium	19	0.98	"	"	"	"	"	"	
Copper	33	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
Nickel	12	0.79	"	"	"	"	"	"	
Lead	35	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
Vanadium	35	0.73	"	"	"	"	"	"	
Zinc	100	1.3	"	"	"	"	"	"	

SB2-5 (0504072-06) Soil Sampled: 04/04/05 09:30 Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
Arsenic	6.1	1.7	"	"	"	"	"	"	
Barium	100	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	11	2.2	"	"	"	"	"	"	
Chromium	26	0.98	"	"	"	"	"	"	
Copper	100	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
Nickel	14	0.79	"	"	"	"	"	"	
Lead	5.0	1.3	"	"	"	"	"	"	
Antimony	2.2	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
Vanadium	47	0.73	"	"	"	"	"	"	
Zinc	89	1.3	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB2-10 (0504072-07) Soil Sampled: 04/04/05 09:35 Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
Arsenic	5.9	1.7	"	"	"	"	"	"	
Barium	53	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	5.8	2.2	"	"	"	"	"	"	
Chromium	16	0.98	"	"	"	"	"	"	
Copper	110	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
Nickel	9.9	0.79	"	"	"	"	"	"	
Lead	2.6	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
Vanadium	27	0.73	"	"	"	"	"	"	
Zinc	83	1.3	"	"	"	"	"	"	

SB2-20 (0504072-08) Soil Sampled: 04/04/05 09:44 Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
Arsenic	3.9	1.7	"	"	"	"	"	"	
Barium	43	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	3.7	2.2	"	"	"	"	"	"	
Chromium	11	0.98	"	"	"	"	"	"	
Copper	25	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
Nickel	5.4	0.79	"	"	"	"	"	"	
Lead	ND	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
Vanadium	16	0.73	"	"	"	"	"	"	
Zinc	45	1.3	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB3-1 (0504072-09) Soil Sampled: 04/04/05 10:00 Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
Arsenic	5.4	1.7	"	"	"	"	"	"	"
Barium	88	3.3	"	"	"	"	"	"	"
Beryllium	ND	0.75	"	"	"	"	"	"	"
Cadmium	ND	0.51	"	"	"	"	"	"	"
Cobalt	6.7	2.2	"	"	"	"	"	"	"
Chromium	16	0.98	"	"	"	"	"	"	"
Copper	43	2.2	"	"	"	"	"	"	"
Mercury	ND	0.16	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
Nickel	9.0	0.79	"	"	"	"	"	"	"
Lead	9.0	1.3	"	"	"	"	"	"	"
Antimony	ND	1.6	"	"	"	"	"	"	"
Selenium	ND	1.9	"	"	"	"	"	"	"
Thallium	ND	1.5	"	"	"	"	"	"	"
Vanadium	28	0.73	"	"	"	"	"	"	"
Zinc	71	1.3	"	"	"	"	"	"	"

SB3-5 (0504072-10) Soil Sampled: 04/04/05 10:05 Received: 04/04/05 14:15									
Silver	ND	0.72	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
Arsenic	3.9	1.5	"	"	"	"	"	"	"
Barium	78	3.0	"	"	"	"	"	"	"
Beryllium	ND	0.68	"	"	"	"	"	"	"
Cadmium	ND	0.46	"	"	"	"	"	"	"
Cobalt	7.9	2.0	"	"	"	"	"	"	"
Chromium	17	0.88	"	"	"	"	"	"	"
Copper	110	2.0	"	"	"	"	"	"	"
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.5	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
Nickel	9.5	0.71	"	"	"	"	"	"	"
Lead	3.3	1.2	"	"	"	"	"	"	"
Antimony	ND	1.4	"	"	"	"	"	"	"
Selenium	ND	1.7	"	"	"	"	"	"	"
Thallium	ND	1.4	"	"	"	"	"	"	"
Vanadium	31	0.66	"	"	"	"	"	"	"
Zinc	83	1.1	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB3-10 (0504072-11) Soil Sampled: 04/04/05 10:10 Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
Arsenic	5.2	1.7	"	"	"	"	"	"	"
Barium	80	3.3	"	"	"	"	"	"	"
Beryllium	ND	0.75	"	"	"	"	"	"	"
Cadmium	ND	0.51	"	"	"	"	"	"	"
Cobalt	6.9	2.2	"	"	"	"	"	"	"
Chromium	21	0.98	"	"	"	"	"	"	"
Copper	190	2.2	"	"	"	"	"	"	"
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
Nickel	12	0.79	"	"	"	"	"	"	"
Lead	3.0	1.3	"	"	"	"	"	"	"
Antimony	ND	1.6	"	"	"	"	"	"	"
Selenium	ND	1.9	"	"	"	"	"	"	"
Thallium	ND	1.5	"	"	"	"	"	"	"
Vanadium	33	0.73	"	"	"	"	"	"	"
Zinc	130	1.3	"	"	"	"	"	"	"

SB3-20 (0504072-12) Soil Sampled: 04/04/05 10:20 Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
Arsenic	ND	1.7	"	"	"	"	"	"	"
Barium	23	3.3	"	"	"	"	"	"	"
Beryllium	ND	0.75	"	"	"	"	"	"	"
Cadmium	ND	0.51	"	"	"	"	"	"	"
Cobalt	ND	2.2	"	"	"	"	"	"	"
Chromium	6.3	0.98	"	"	"	"	"	"	"
Copper	29	2.2	"	"	"	"	"	"	"
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
Nickel	3.7	0.79	"	"	"	"	"	"	"
Lead	ND	1.3	"	"	"	"	"	"	"
Antimony	ND	1.6	"	"	"	"	"	"	"
Selenium	ND	1.9	"	"	"	"	"	"	"
Thallium	ND	1.5	"	"	"	"	"	"	"
Vanadium	11	0.73	"	"	"	"	"	"	"
Zinc	25	1.3	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB4-1 (0504072-13) Soil Sampled: 04/04/05 10:35 Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
Arsenic	6.4	1.7	"	"	"	"	"	"	"
Barium	78	3.3	"	"	"	"	"	"	"
Beryllium	ND	0.75	"	"	"	"	"	"	"
Cadmium	ND	0.51	"	"	"	"	"	"	"
Cobalt	7.0	2.2	"	"	"	"	"	"	"
Chromium	18	0.98	"	"	"	"	"	"	"
Copper	63	2.2	"	"	"	"	"	"	"
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
Nickel	11	0.79	"	"	"	"	"	"	"
Lead	25	1.3	"	"	"	"	"	"	"
Antimony	ND	1.6	"	"	"	"	"	"	"
Selenium	ND	1.9	"	"	"	"	"	"	"
Thallium	ND	1.5	"	"	"	"	"	"	"
Vanadium	32	0.73	"	"	"	"	"	"	"
Zinc	89	1.3	"	"	"	"	"	"	"

SB4-5 (0504072-14) Soil Sampled: 04/04/05 10:40 Received: 04/04/05 14:15

Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
Arsenic	4.5	1.7	"	"	"	"	"	"	"
Barium	110	3.3	"	"	"	"	"	"	"
Beryllium	ND	0.75	"	"	"	"	"	"	"
Cadmium	ND	0.51	"	"	"	"	"	"	"
Cobalt	5.7	2.2	"	"	"	"	"	"	"
Chromium	15	0.98	"	"	"	"	"	"	"
Copper	59	2.2	"	"	"	"	"	"	"
Mercury	ND	0.16	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
Nickel	11	0.79	"	"	"	"	"	"	"
Lead	53	1.3	"	"	"	"	"	"	"
Antimony	ND	1.6	"	"	"	"	"	"	"
Selenium	ND	1.9	"	"	"	"	"	"	"
Thallium	ND	1.5	"	"	"	"	"	"	"
Vanadium	26	0.73	"	"	"	"	"	"	"
Zinc	200	1.3	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
SB4-10 (0504072-15) Soil Sampled: 04/04/05 10:50 Received: 04/04/05 14:15										
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B		
Arsenic	5.8	1.7	"	"	"	"	"	"		
Barium	57	3.3	"	"	"	"	"	"		
Beryllium	ND	0.75	"	"	"	"	"	"		
Cadmium	ND	0.51	"	"	"	"	"	"		
Cobalt	6.0	2.2	"	"	"	"	"	"		
Chromium	21	0.98	"	"	"	"	"	"		
Copper	110	2.2	"	"	"	"	"	"		
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A		
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B		
Nickel	10	0.79	"	"	"	"	"	"		
Lead	3.4	1.3	"	"	"	"	"	"		
Antimony	ND	1.6	"	"	"	"	"	"		
Selenium	ND	1.9	"	"	"	"	"	"		
Thallium	ND	1.5	"	"	"	"	"	"		
Vanadium	37	0.73	"	"	"	"	"	"		
Zinc	89	1.3	"	"	"	"	"	"		

SB4-20 (0504072-16) Soil Sampled: 04/04/05 10:57 Received: 04/04/05 14:15										
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B		
Arsenic	ND	1.7	"	"	"	"	"	"		
Barium	34	3.3	"	"	"	"	"	"		
Beryllium	ND	0.75	"	"	"	"	"	"		
Cadmium	ND	0.51	"	"	"	"	"	"		
Cobalt	3.1	2.2	"	"	"	"	"	"		
Chromium	7.6	0.98	"	"	"	"	"	"		
Copper	45	2.2	"	"	"	"	"	"		
Mercury	ND	0.16	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A		
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B		
Nickel	4.2	0.79	"	"	"	"	"	"		
Lead	ND	1.3	"	"	"	"	"	"		
Antimony	ND	1.6	"	"	"	"	"	"		
Selenium	ND	1.9	"	"	"	"	"	"		
Thallium	ND	1.5	"	"	"	"	"	"		
Vanadium	14	0.73	"	"	"	"	"	"		
Zinc	39	1.3	"	"	"	"	"	"		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB5-1 (0504072-17) Soil Sampled: 04/04/05 11:10 Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
Arsenic	5.9	1.7	"	"	"	"	"	"	"
Barium	140	3.3	"	"	"	"	"	"	"
Beryllium	ND	0.75	"	"	"	"	"	"	"
Cadmium	ND	0.51	"	"	"	"	"	"	"
Cobalt	11	2.2	"	"	"	"	"	"	"
Chromium	22	0.98	"	"	"	"	"	"	"
Copper	75	2.2	"	"	"	"	"	"	"
Mercury	ND	0.18	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
Nickel	15	0.79	"	"	"	"	"	"	"
Lead	27	1.3	"	"	"	"	"	"	"
Antimony	ND	1.6	"	"	"	"	"	"	"
Selenium	ND	1.9	"	"	"	"	"	"	"
Thallium	ND	1.5	"	"	"	"	"	"	"
Vanadium	44	0.73	"	"	"	"	"	"	"
Zinc	120	1.3	"	"	"	"	"	"	"

SB5-5 (0504072-18) Soil Sampled: 04/04/05 11:12 Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
Arsenic	7.1	1.7	"	"	"	"	"	"	"
Barium	130	3.3	"	"	"	"	"	"	"
Beryllium	ND	0.75	"	"	"	"	"	"	"
Cadmium	ND	0.51	"	"	"	"	"	"	"
Cobalt	7.4	2.2	"	"	"	"	"	"	"
Chromium	19	0.98	"	"	"	"	"	"	"
Copper	47	2.2	"	"	"	"	"	"	"
Mercury	ND	0.16	"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
Nickel	12	0.79	"	"	"	"	"	"	"
Lead	47	1.3	"	"	"	"	"	"	"
Antimony	ND	1.6	"	"	"	"	"	"	"
Selenium	ND	1.9	"	"	"	"	"	"	"
Thallium	ND	1.5	"	"	"	"	"	"	"
Vanadium	33	0.73	"	"	"	"	"	"	"
Zinc	130	1.3	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB5-10 (0504072-19) Soil Sampled: 04/04/05 11:15 Received: 04/04/05 14:15										
Silver	ND	0.80		mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
Arsenic	5.1	1.7		"	"	"	"	"	"	"
Barium	330	3.3		"	"	"	"	"	"	"
Beryllium	ND	0.75		"	"	"	"	"	"	"
Cadmium	3.3	0.51		"	"	"	"	"	"	"
Cobalt	4.0	2.2		"	"	"	"	"	"	"
Chromium	15	0.98		"	"	"	"	"	"	"
Copper	77	2.2		"	"	"	"	"	"	"
Mercury	0.28	0.18		"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7		"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
Nickel	7.1	0.79		"	"	"	"	"	"	"
Lead	510	1.3		"	"	"	"	"	"	"
Antimony	4.4	1.6		"	"	"	"	"	"	"
Selenium	ND	1.9		"	"	"	"	"	"	"
Thallium	ND	1.5		"	"	"	"	"	"	"
Vanadium	17	0.73		"	"	"	"	"	"	"
Zinc	1100	1.3		"	"	"	"	"	"	"

SB5-20 (0504072-20) Soil Sampled: 04/04/05 11:25 Received: 04/04/05 14:15										
Silver	ND	0.80		mg/kg	1	B5D0708	04/07/05	04/08/05	EPA 6010B	
Arsenic	2.6	1.7		"	"	"	"	"	"	"
Barium	53	3.3		"	"	"	"	"	"	"
Beryllium	ND	0.75		"	"	"	"	"	"	"
Cadmium	ND	0.51		"	"	"	"	"	"	"
Cobalt	2.4	2.2		"	"	"	"	"	"	"
Chromium	7.1	0.98		"	"	"	"	"	"	"
Copper	3.0	2.2		"	"	"	"	"	"	"
Mercury	ND	0.18		"	"	B5D0710	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7		"	"	B5D0708	04/07/05	04/08/05	EPA 6010B	
Nickel	3.6	0.79		"	"	"	"	"	"	"
Lead	ND	1.3		"	"	"	"	"	"	"
Antimony	ND	1.6		"	"	"	"	"	"	"
Selenium	ND	1.9		"	"	"	"	"	"	"
Thallium	ND	1.5		"	"	"	"	"	"	"
Vanadium	13	0.73		"	"	"	"	"	"	"
Zinc	27	1.3		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB6-1 (0504072-21) Soil Sampled: 04/04/05 11:35 Received: 04/04/05 14:15										
Silver	ND	0.80		mg/kg	1	B5D0709	04/07/05	04/08/05	EPA 6010B	
Arsenic	2.7	1.7		"	"	"	"	"	"	
Barium	83	3.3		"	"	"	"	"	"	
Beryllium	ND	0.75		"	"	"	"	"	"	
Cadmium	ND	0.51		"	"	"	"	"	"	
Cobalt	3.2	2.2		"	"	"	"	"	"	
Chromium	30	0.98		"	"	"	"	"	"	
Copper	95	2.2		"	"	"	"	"	"	
Mercury	ND	0.18		"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	4.4	1.7		"	"	B5D0709	04/07/05	04/08/05	EPA 6010B	
Nickel	6.4	0.79		"	"	"	"	"	"	
Lead	6.0	1.3		"	"	"	"	"	"	
Antimony	ND	1.6		"	"	"	"	"	"	
Selenium	ND	1.9		"	"	"	"	"	"	
Thallium	ND	1.5		"	"	"	"	"	"	
Vanadium	20	0.73		"	"	"	"	"	"	
Zinc	89	1.3		"	"	"	"	"	"	

SB6-5 (0504072-22) Soil Sampled: 04/04/05 11:39 Received: 04/04/05 14:15

Silver	ND	0.80		mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
Arsenic	8.6	1.7		"	"	"	"	"	"	
Barium	140	3.3		"	"	"	"	"	"	
Beryllium	ND	0.75		"	"	"	"	"	"	
Cadmium	ND	0.51		"	"	"	"	"	"	
Cobalt	9.6	2.2		"	"	"	"	"	"	
Chromium	57	0.98		"	"	"	"	"	"	
Copper	80	2.2		"	"	"	"	"	"	
Mercury	ND	0.16		"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7		"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
Nickel	29	0.79		"	"	"	"	"	"	
Lead	64	1.3		"	"	"	"	"	"	
Antimony	2.3	1.6		"	"	"	"	"	"	
Selenium	ND	1.9		"	"	"	"	"	"	
Thallium	ND	1.5		"	"	"	"	"	"	
Vanadium	41	0.73		"	"	"	"	"	"	
Zinc	140	1.3		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
738 Ashland Avenue
Santa Monica CA, 90405

Project: City of Signal Hill
Project Number: Las Brisas
Project Manager: Susan Mearns

Reported:
04/12/05 14:01

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
SB6-10 (0504072-23) Soil Sampled: 04/04/05 11:44 Received: 04/04/05 14:15										
Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B		
Arsenic	3.7	1.7	"	"	"	"	"	"		
Barium	120	3.3	"	"	"	"	"	"		
Beryllium	ND	0.75	"	"	"	"	"	"		
Cadmium	ND	0.51	"	"	"	"	"	"		
Cobalt	6.3	2.2	"	"	"	"	"	"		
Chromium	17	0.98	"	"	"	"	"	"		
Copper	40	2.2	"	"	"	"	"	"		
Mercury	ND	0.18	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A		
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B		
Nickel	9.1	0.79	"	"	"	"	"	"		
Lead	16	1.3	"	"	"	"	"	"		
Antimony	ND	1.6	"	"	"	"	"	"		
Selenium	ND	1.9	"	"	"	"	"	"		
Thallium	ND	1.5	"	"	"	"	"	"		
Vanadium	28	0.73	"	"	"	"	"	"		
Zinc	61	1.3	"	"	"	"	"	"		

SB6-20 (0504072-24) Soil Sampled: 04/04/05 11:55 Received: 04/04/05 14:15

Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
Arsenic	1.9	1.7	"	"	"	"	"	"	
Barium	70	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	2.9	2.2	"	"	"	"	"	"	
Chromium	8.1	0.98	"	"	"	"	"	"	
Copper	49	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
Nickel	3.7	0.79	"	"	"	"	"	"	
Lead	ND	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
Vanadium	13	0.73	"	"	"	"	"	"	
Zinc	37	1.3	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB7-1 (0504072-25) Soil Sampled: 04/04/05 12:10 Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
Arsenic	6.0	1.7	"	"	"	"	"	"	
Barium	110	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	9.8	2.2	"	"	"	"	"	"	
Chromium	23	0.98	"	"	"	"	"	"	
Copper	52	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
Nickel	14	0.79	"	"	"	"	"	"	
Lead	40	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
Vanadium	42	0.73	"	"	"	"	"	"	
Zinc	430	1.3	"	"	"	"	"	"	

SB7-5 (0504072-26) Soil Sampled: 04/04/05 12:13 Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
Arsenic	6.2	1.7	"	"	"	"	"	"	
Barium	130	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	9.5	2.2	"	"	"	"	"	"	
Chromium	33	0.98	"	"	"	"	"	"	
Copper	64	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
Nickel	13	0.79	"	"	"	"	"	"	
Lead	33	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
Vanadium	41	0.73	"	"	"	"	"	"	
Zinc	120	1.3	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB7-10 (0504072-27) Soil Sampled: 04/04/05 12:17 Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
Arsenic	3.7	1.7	"	"	"	"	"	"	
Barium	360	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	6.6	2.2	"	"	"	"	"	"	
Chromium	17	0.98	"	"	"	"	"	"	
Copper	61	2.2	"	"	"	"	"	"	
Mercury	ND	0.16	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
Nickel	10	0.79	"	"	"	"	"	"	
Lead	3.6	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
Vanadium	31	0.73	"	"	"	"	"	"	
Zinc	160	1.3	"	"	"	"	"	"	

SB7-20 (0504072-28) Soil Sampled: 04/04/05 12:24 Received: 04/04/05 14:15

Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
Arsenic	2.9	1.7	"	"	"	"	"	"	
Barium	96	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	4.1	2.2	"	"	"	"	"	"	
Chromium	9.9	0.98	"	"	"	"	"	"	
Copper	20	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
Nickel	5.8	0.79	"	"	"	"	"	"	
Lead	ND	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
Vanadium	17	0.73	"	"	"	"	"	"	
Zinc	30	1.3	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
738 Ashland Avenue
Santa Monica CA, 90405

Project: City of Signal Hill
Project Number: Las Brisas
Project Manager: Susan Mearns

Reported:
04/12/05 14:01

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB8-1 (0504072-29) Soil Sampled: 04/04/05 12:35 Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
Arsenic	6.3	1.7	"	"	"	"	"	"	
Barium	110	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	7.9	2.2	"	"	"	"	"	"	
Chromium	19	0.98	"	"	"	"	"	"	
Copper	68	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
Nickel	15	0.79	"	"	"	"	"	"	
Lead	37	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
Vanadium	36	0.73	"	"	"	"	"	"	
Zinc	120	1.3	"	"	"	"	"	"	

SB8-5 (0504072-30) Soil Sampled: 04/04/05 12:42 Received: 04/04/05 14:15

Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
Arsenic	4.5	1.7	"	"	"	"	"	"	
Barium	70	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	6.7	2.2	"	"	"	"	"	"	
Chromium	16	0.98	"	"	"	"	"	"	
Copper	64	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
Nickel	10	0.79	"	"	"	"	"	"	
Lead	3.3	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
Vanadium	30	0.73	"	"	"	"	"	"	
Zinc	71	1.3	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
SB8-10 (0504072-31) Soil Sampled: 04/04/05 12:44 Received: 04/04/05 14:15										
Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B		
Arsenic	5.8	1.7	"	"	"	"	"	"		
Barium	57	3.3	"	"	"	"	"	"		
Beryllium	ND	0.75	"	"	"	"	"	"		
Cadmium	ND	0.51	"	"	"	"	"	"		
Cobalt	6.3	2.2	"	"	"	"	"	"		
Chromium	24	0.98	"	"	"	"	"	"		
Copper	130	2.2	"	"	"	"	"	"		
Mercury	ND	0.16	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A		
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B		
Nickel	13	0.79	"	"	"	"	"	"		
Lead	3.6	1.3	"	"	"	"	"	"		
Antimony	ND	1.6	"	"	"	"	"	"		
Selenium	ND	1.9	"	"	"	"	"	"		
Thallium	ND	1.5	"	"	"	"	"	"		
Vanadium	35	0.73	"	"	"	"	"	"		
Zinc	110	1.3	"	"	"	"	"	"		

SB8-20 (0504072-32) Soil Sampled: 04/04/05 12:51 Received: 04/04/05 14:15										
Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B		
Arsenic	2.8	1.7	"	"	"	"	"	"		
Barium	29	3.3	"	"	"	"	"	"		
Beryllium	ND	0.75	"	"	"	"	"	"		
Cadmium	ND	0.51	"	"	"	"	"	"		
Cobalt	3.7	2.2	"	"	"	"	"	"		
Chromium	10	0.98	"	"	"	"	"	"		
Copper	33	2.2	"	"	"	"	"	"		
Mercury	ND	0.18	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A		
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B		
Nickel	5.8	0.79	"	"	"	"	"	"		
Lead	ND	1.3	"	"	"	"	"	"		
Antimony	ND	1.6	"	"	"	"	"	"		
Selenium	ND	1.9	"	"	"	"	"	"		
Thallium	ND	1.5	"	"	"	"	"	"		
Vanadium	16	0.73	"	"	"	"	"	"		
Zinc	47	1.3	"	"	"	"	"	"		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Offsite-1 (0504072-33) Soil Sampled: 04/04/05 13:20 Received: 04/04/05 14:15										
Silver	ND	0.80		mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
Arsenic	5.2	1.7	"	"	"	"	"	"	"	"
Barium	97	3.3	"	"	"	"	"	"	"	"
Beryllium	ND	0.75	"	"	"	"	"	"	"	"
Cadmium	ND	0.51	"	"	"	"	"	"	"	"
Cobalt	8.1	2.2	"	"	"	"	"	"	"	"
Chromium	21	0.98	"	"	"	"	"	"	"	"
Copper	25	2.2	"	"	"	"	"	"	"	"
Mercury	ND	0.16	"	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
Nickel	12	0.79	"	"	"	"	"	"	"	"
Lead	12	1.3	"	"	"	"	"	"	"	"
Antimony	ND	1.6	"	"	"	"	"	"	"	"
Selenium	ND	1.9	"	"	"	"	"	"	"	"
Thallium	ND	1.5	"	"	"	"	"	"	"	"
Vanadium	35	0.73	"	"	"	"	"	"	"	"
Zinc	62	1.3	"	"	"	"	"	"	"	"

Offsite-5 (0504072-34) Soil Sampled: 04/04/05 13:25 Received: 04/04/05 14:15										
Silver	ND	0.80		mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
Arsenic	12	1.7	"	"	"	"	"	"	"	"
Barium	160	3.3	"	"	"	"	"	"	"	"
Beryllium	1.1	0.75	"	"	"	"	"	"	"	"
Cadmium	ND	0.51	"	"	"	"	"	"	"	"
Cobalt	17	2.2	"	"	"	"	"	"	"	"
Chromium	50	0.98	"	"	"	"	"	"	"	"
Copper	64	2.2	"	"	"	"	"	"	"	"
Mercury	ND	0.18	"	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
Nickel	30	0.79	"	"	"	"	"	"	"	"
Lead	8.1	1.3	"	"	"	"	"	"	"	"
Antimony	2.3	1.6	"	"	"	"	"	"	"	"
Selenium	ND	1.9	"	"	"	"	"	"	"	"
Thallium	ND	1.5	"	"	"	"	"	"	"	"
Vanadium	75	0.73	"	"	"	"	"	"	"	"
Zinc	99	1.3	"	"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Metals by EPA 6000/7000 Series Methods
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Offsite-10 (0504072-35) Soil Sampled: 04/04/05 13:29 Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
Arsenic	12	1.7	"	"	"	"	"	"	
Barium	170	3.3	"	"	"	"	"	"	
Beryllium	ND	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	14	2.2	"	"	"	"	"	"	
Chromium	32	0.98	"	"	"	"	"	"	
Copper	35	2.2	"	"	"	"	"	"	
Mercury	ND	0.18	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
Nickel	22	0.79	"	"	"	"	"	"	
Lead	5.6	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
Vanadium	58	0.73	"	"	"	"	"	"	
Zinc	67	1.3	"	"	"	"	"	"	

Offsite-20 (0504072-36) Soil Sampled: 04/04/05 13:36 Received: 04/04/05 14:15									
Silver	ND	0.80	mg/kg	1	B5D0709	04/07/05	04/11/05	EPA 6010B	
Arsenic	14	1.7	"	"	"	"	"	"	
Barium	73	3.3	"	"	"	"	"	"	
Beryllium	0.95	0.75	"	"	"	"	"	"	
Cadmium	ND	0.51	"	"	"	"	"	"	
Cobalt	17	2.2	"	"	"	"	"	"	
Chromium	35	0.98	"	"	"	"	"	"	
Copper	80	2.2	"	"	"	"	"	"	
Mercury	ND	0.15	"	"	B5D0711	04/07/05	04/08/05	EPA 7471A	
Molybdenum	ND	1.7	"	"	B5D0709	04/07/05	04/11/05	EPA 6010B	
Nickel	22	0.79	"	"	"	"	"	"	
Lead	10	1.3	"	"	"	"	"	"	
Antimony	ND	1.6	"	"	"	"	"	"	
Selenium	ND	1.9	"	"	"	"	"	"	
Thallium	ND	1.5	"	"	"	"	"	"	
Vanadium	67	0.73	"	"	"	"	"	"	
Zinc	95	1.3	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB1-5 (0504072-02) Soil Sampled: 04/04/05 08:37 Received: 04/04/05 14:15									
HC < C8	ND	1.0	mg/kg	1	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	

Surrogate: *o*-Terphenyl 70.7 % 50-150 " " " "

SB1-10 (0504072-03) Soil Sampled: 04/04/05 08:45 Received: 04/04/05 14:15									
HC < C8	ND	1.0	mg/kg	1	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	

Surrogate: *o*-Terphenyl 68.0 % 50-150 " " " "

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB2-5 (0504072-06) Soil Sampled: 04/04/05 09:30 Received: 04/04/05 14:15									
HC < C8	ND	1.0	mg/kg	1	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	

Surrogate: *o*-Terphenyl 74.7 % 50-150 " " " "

SB2-10 (0504072-07) Soil Sampled: 04/04/05 09:35 Received: 04/04/05 14:15									
HC < C8	ND	1.0	mg/kg	1	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	

Surrogate: *o*-Terphenyl 89.3 % 50-150 " " " "

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB3-5 (0504072-10) Soil Sampled: 04/04/05 10:05 Received: 04/04/05 14:15									
HC < C8	ND	1.0	mg/kg	1	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	

Surrogate: *o*-Terphenyl 84.0 % 50-150 " " " "

SB3-10 (0504072-11) Soil Sampled: 04/04/05 10:10 Received: 04/04/05 14:15									
HC < C8	ND	1.0	mg/kg	1	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	

Surrogate: *o*-Terphenyl 94.7 % 50-150 " " " "

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB4-5 (0504072-14) Soil Sampled: 04/04/05 10:40 Received: 04/04/05 14:15									
HC < C8	ND	5.0	mg/kg	5	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	5.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	5.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	5.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	5.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	5.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	5.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	5.0	"	"	"	"	"	"	
C18 <= HC < C20	9.0	5.0	"	"	"	"	"	"	
C20 <= HC < C24	65	5.0	"	"	"	"	"	"	
C24 <= HC < C28	120	5.0	"	"	"	"	"	"	
C28 <= HC < C32	88	5.0	"	"	"	"	"	"	
HC >= C32	ND	5.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	280	25	"	"	"	"	"	"	

Surrogate: o-Terphenyl 127 % 50-150 " " " "

SB4-10 (0504072-15) Soil Sampled: 04/04/05 10:50 Received: 04/04/05 14:15									
HC < C8	ND	1.0	mg/kg	1	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	

Surrogate: o-Terphenyl 88.0 % 50-150 " " " "

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB5-5 (0504072-18) Soil Sampled: 04/04/05 11:12 Received: 04/04/05 14:15										
HC < C8	ND	5.0		mg/kg	5	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	5.0		"	"	"	"	"	"	"
C9 <= HC < C10	ND	5.0		"	"	"	"	"	"	"
C10 <= HC < C11	ND	5.0		"	"	"	"	"	"	"
C11 <= HC < C12	ND	5.0		"	"	"	"	"	"	"
C12 <= HC < C14	ND	5.0		"	"	"	"	"	"	"
C14 <= HC < C16	ND	5.0		"	"	"	"	"	"	"
C16 <= HC < C18	ND	5.0		"	"	"	"	"	"	"
C18 <= HC < C20	26	5.0		"	"	"	"	"	"	"
C20 <= HC < C24	150	5.0		"	"	"	"	"	"	"
C24 <= HC < C28	200	5.0		"	"	"	"	"	"	"
C28 <= HC < C32	160	5.0		"	"	"	"	"	"	"
HC >= C32	ND	5.0		"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	530	25		"	"	"	"	"	"	"

Surrogate: o-Terphenyl 147 % 50-150 " " " "

SB5-10 (0504072-19) Soil Sampled: 04/04/05 11:15 Received: 04/04/05 14:15										
HC < C8	ND	5.0		mg/kg	5	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	5.0		"	"	"	"	"	"	"
C9 <= HC < C10	ND	5.0		"	"	"	"	"	"	"
C10 <= HC < C11	ND	5.0		"	"	"	"	"	"	"
C11 <= HC < C12	ND	5.0		"	"	"	"	"	"	"
C12 <= HC < C14	ND	5.0		"	"	"	"	"	"	"
C14 <= HC < C16	ND	5.0		"	"	"	"	"	"	"
C16 <= HC < C18	ND	5.0		"	"	"	"	"	"	"
C18 <= HC < C20	9.0	5.0		"	"	"	"	"	"	"
C20 <= HC < C24	65	5.0		"	"	"	"	"	"	"
C24 <= HC < C28	150	5.0		"	"	"	"	"	"	"
C28 <= HC < C32	140	5.0		"	"	"	"	"	"	"
HC >= C32	ND	5.0		"	"	"	"	"	"	"
Total Petroleum Hydrocarbons (C7-C36)	370	25		"	"	"	"	"	"	"

Surrogate: o-Terphenyl 93.3 % 50-150 " " " "

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB6-5 (0504072-22) Soil Sampled: 04/04/05 11:39 Received: 04/04/05 14:15									
HC < C8	ND	5.0	mg/kg	5	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	5.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	5.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	5.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	5.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	5.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	5.0	"	"	"	"	"	"	
C16 <= HC < C18	19	5.0	"	"	"	"	"	"	
C18 <= HC < C20	18	5.0	"	"	"	"	"	"	
C20 <= HC < C24	150	5.0	"	"	"	"	"	"	
C24 <= HC < C28	210	5.0	"	"	"	"	"	"	
C28 <= HC < C32	160	5.0	"	"	"	"	"	"	
HC >= C32	ND	5.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	560	25	"	"	"	"	"	"	

Surrogate: o-Terphenyl 140 % 50-150 " " " "

SB6-10 (0504072-23) Soil Sampled: 04/04/05 11:44 Received: 04/04/05 14:15									
HC < C8	ND	5.0	mg/kg	5	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	5.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	5.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	5.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	5.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	5.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	5.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	5.0	"	"	"	"	"	"	
C18 <= HC < C20	9.0	5.0	"	"	"	"	"	"	
C20 <= HC < C24	78	5.0	"	"	"	"	"	"	
C24 <= HC < C28	130	5.0	"	"	"	"	"	"	
C28 <= HC < C32	110	5.0	"	"	"	"	"	"	
HC >= C32	ND	5.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	330	25	"	"	"	"	"	"	

Surrogate: o-Terphenyl 120 % 50-150 " " " "

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB7-5 (0504072-26) Soil Sampled: 04/04/05 12:13 Received: 04/04/05 14:15									
HC < C8	ND	5.0	mg/kg	5	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	5.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	5.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	5.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	5.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	5.0	"	"	"	"	"	"	
C14 <= HC < C16	12	5.0	"	"	"	"	"	"	
C16 <= HC < C18	29	5.0	"	"	"	"	"	"	
C18 <= HC < C20	72	5.0	"	"	"	"	"	"	
C20 <= HC < C24	330	5.0	"	"	"	"	"	"	
C24 <= HC < C28	440	5.0	"	"	"	"	"	"	
C28 <= HC < C32	330	5.0	"	"	"	"	"	"	
HC >= C32	ND	5.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	1200	25	"	"	"	"	"	"	

Surrogate: o-Terphenyl 260 % 50-150 " " " " S-07

SB7-10 (0504072-27) Soil Sampled: 04/04/05 12:17 Received: 04/04/05 14:15									
HC < C8	ND	5.0	mg/kg	5	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	5.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	5.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	5.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	5.0	"	"	"	"	"	"	
C12 <= HC < C14	8.0	5.0	"	"	"	"	"	"	
C14 <= HC < C16	58	5.0	"	"	"	"	"	"	
C16 <= HC < C18	110	5.0	"	"	"	"	"	"	
C18 <= HC < C20	130	5.0	"	"	"	"	"	"	
C20 <= HC < C24	580	5.0	"	"	"	"	"	"	
C24 <= HC < C28	450	5.0	"	"	"	"	"	"	
C28 <= HC < C32	290	5.0	"	"	"	"	"	"	
HC >= C32	ND	5.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	1600	25	"	"	"	"	"	"	

Surrogate: o-Terphenyl 353 % 50-150 " " " " S-07

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB8-5 (0504072-30) Soil Sampled: 04/04/05 12:42 Received: 04/04/05 14:15									
HC < C8	ND	1.0	mg/kg	1	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	

Surrogate: *o*-Terphenyl 93.3 % 50-150 " " " "

SB8-10 (0504072-31) Soil Sampled: 04/04/05 12:44 Received: 04/04/05 14:15									
HC < C8	ND	1.0	mg/kg	1	B5D1001	04/07/05	04/10/05	EPA 8015B	
C8 <= HC < C9	ND	1.0	"	"	"	"	"	"	
C9 <= HC < C10	ND	1.0	"	"	"	"	"	"	
C10 <= HC < C11	ND	1.0	"	"	"	"	"	"	
C11 <= HC < C12	ND	1.0	"	"	"	"	"	"	
C12 <= HC < C14	ND	1.0	"	"	"	"	"	"	
C14 <= HC < C16	ND	1.0	"	"	"	"	"	"	
C16 <= HC < C18	ND	1.0	"	"	"	"	"	"	
C18 <= HC < C20	ND	1.0	"	"	"	"	"	"	
C20 <= HC < C24	ND	1.0	"	"	"	"	"	"	
C24 <= HC < C28	ND	1.0	"	"	"	"	"	"	
C28 <= HC < C32	ND	1.0	"	"	"	"	"	"	
HC >= C32	ND	1.0	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"	"	"	"	"	"	

Surrogate: *o*-Terphenyl 85.3 % 50-150 " " " "

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB1-5 (0504072-02) Soil Sampled: 04/04/05 08:37 Received: 04/04/05 14:15										
Benzene	ND	5.0		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	5.0		"	"	"	"	"	"	"
Bromochloromethane	ND	5.0		"	"	"	"	"	"	"
Bromodichloromethane	ND	5.0		"	"	"	"	"	"	"
Bromoform	ND	5.0		"	"	"	"	"	"	"
Bromomethane	ND	5.0		"	"	"	"	"	"	"
n-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
sec-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
tert-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
Carbon tetrachloride	ND	5.0		"	"	"	"	"	"	"
Chlorobenzene	ND	5.0		"	"	"	"	"	"	"
Chloroethane	ND	5.0		"	"	"	"	"	"	"
Chloroform	ND	5.0		"	"	"	"	"	"	"
Chloromethane	ND	5.0		"	"	"	"	"	"	"
2-Chlorotoluene	ND	5.0		"	"	"	"	"	"	"
4-Chlorotoluene	ND	5.0		"	"	"	"	"	"	"
Dibromochloromethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0		"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	"	"
Dibromomethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
Ethylbenzene	ND	5.0		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0		"	"	"	"	"	"	"
Isopropylbenzene	ND	5.0		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	5.0		"	"	"	"	"	"	"
Methylene chloride	ND	5.0		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB1-5 (0504072-02) Soil Sampled: 04/04/05 08:37 Received: 04/04/05 14:15										
Naphthalene	ND	5.0		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
n-Propylbenzene	ND	5.0		"	"	"	"	"	"	
Styrene	ND	5.0		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	
Tetrachloroethene	ND	5.0		"	"	"	"	"	"	
Toluene	ND	5.0		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0		"	"	"	"	"	"	
Trichloroethene	ND	5.0		"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	
Vinyl chloride	ND	5.0		"	"	"	"	"	"	
m,p-Xylene	ND	5.0		"	"	"	"	"	"	
o-Xylene	ND	5.0		"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		105 %		80-120		"	"	"	"	
Surrogate: Toluene-d8		98.0 %		81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.5 %		74-121		"	"	"	"	

SB1-10 (0504072-03) Soil Sampled: 04/04/05 08:45 Received: 04/04/05 14:15

Benzene	ND	5.7		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	5.7		"	"	"	"	"	"	
Bromochloromethane	ND	5.7		"	"	"	"	"	"	
Bromodichloromethane	ND	5.7		"	"	"	"	"	"	
Bromoform	ND	5.7		"	"	"	"	"	"	
Bromomethane	ND	5.7		"	"	"	"	"	"	
n-Butylbenzene	ND	5.7		"	"	"	"	"	"	
sec-Butylbenzene	ND	5.7		"	"	"	"	"	"	
tert-Butylbenzene	ND	5.7		"	"	"	"	"	"	
Carbon tetrachloride	ND	5.7		"	"	"	"	"	"	
Chlorobenzene	ND	5.7		"	"	"	"	"	"	
Chloroethane	ND	5.7		"	"	"	"	"	"	
Chloroform	ND	5.7		"	"	"	"	"	"	
Chloromethane	ND	5.7		"	"	"	"	"	"	
2-Chlorotoluene	ND	5.7		"	"	"	"	"	"	
4-Chlorotoluene	ND	5.7		"	"	"	"	"	"	
Dibromochloromethane	ND	5.7		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB1-10 (0504072-03) Soil Sampled: 04/04/05 08:45 Received: 04/04/05 14:15										
1,2-Dibromo-3-chloropropane	ND	5.7		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	5.7		"	"	"	"	"	"	
Dibromomethane	ND	5.7		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.7		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.7		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.7		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.7		"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.7		"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.7		"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.7		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.7		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.7		"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.7		"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.7		"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.7		"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.7		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.7		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.7		"	"	"	"	"	"	
Ethylbenzene	ND	5.7		"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.7		"	"	"	"	"	"	
Isopropylbenzene	ND	5.7		"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.7		"	"	"	"	"	"	
Methylene chloride	ND	5.7		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.7		"	"	"	"	"	"	
Naphthalene	ND	5.7		"	"	"	"	"	"	
n-Propylbenzene	ND	5.7		"	"	"	"	"	"	
Styrene	ND	5.7		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.7		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.7		"	"	"	"	"	"	
Tetrachloroethene	ND	5.7		"	"	"	"	"	"	
Toluene	ND	5.7		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.7		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.7		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.7		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.7		"	"	"	"	"	"	
Trichloroethene	ND	5.7		"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.7		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.7		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.7		"	"	"	"	"	"	
Vinyl chloride	ND	5.7		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB1-10 (0504072-03) Soil Sampled: 04/04/05 08:45 Received: 04/04/05 14:15										
m,p-Xylene	ND	5.7		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
o-Xylene	ND	5.7		"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %		80-120		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.7 %		81-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.7 %		74-121		"	"	"	"	
SB2-5 (0504072-06) Soil Sampled: 04/04/05 09:30 Received: 04/04/05 14:15										
Benzene	ND	5.0		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	5.0		"	"	"	"	"	"	
Bromochloromethane	ND	5.0		"	"	"	"	"	"	
Bromodichloromethane	ND	5.0		"	"	"	"	"	"	
Bromoform	ND	5.0		"	"	"	"	"	"	
Bromomethane	ND	5.0		"	"	"	"	"	"	
n-Butylbenzene	ND	5.0		"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0		"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0		"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0		"	"	"	"	"	"	
Chlorobenzene	ND	5.0		"	"	"	"	"	"	
Chloroethane	ND	5.0		"	"	"	"	"	"	
Chloroform	ND	5.0		"	"	"	"	"	"	
Chloromethane	ND	5.0		"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0		"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0		"	"	"	"	"	"	
Dibromochloromethane	ND	5.0		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	"	
Dibromomethane	ND	5.0		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0		"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0		"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0		"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB2-5 (0504072-06) Soil Sampled: 04/04/05 09:30 Received: 04/04/05 14:15									
trans-1,3-Dichloropropene	ND	5.0	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %		80-120	"	"	"	"	
Surrogate: Toluene-d8		98.2 %		81-117	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.1 %		74-121	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB2-10 (0504072-07) Soil Sampled: 04/04/05 09:35 Received: 04/04/05 14:15										
Benzene	ND	6.4		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	6.4		"	"	"	"	"	"	
Bromochloromethane	ND	6.4		"	"	"	"	"	"	
Bromodichloromethane	ND	6.4		"	"	"	"	"	"	
Bromoform	ND	6.4		"	"	"	"	"	"	
Bromomethane	ND	6.4		"	"	"	"	"	"	
n-Butylbenzene	ND	6.4		"	"	"	"	"	"	
sec-Butylbenzene	ND	6.4		"	"	"	"	"	"	
tert-Butylbenzene	ND	6.4		"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4		"	"	"	"	"	"	
Chlorobenzene	ND	6.4		"	"	"	"	"	"	
Chloroethane	ND	6.4		"	"	"	"	"	"	
Chloroform	ND	6.4		"	"	"	"	"	"	
Chloromethane	ND	6.4		"	"	"	"	"	"	
2-Chlorotoluene	ND	6.4		"	"	"	"	"	"	
4-Chlorotoluene	ND	6.4		"	"	"	"	"	"	
Dibromochloromethane	ND	6.4		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.4		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	6.4		"	"	"	"	"	"	
Dibromomethane	ND	6.4		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.4		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.4		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.4		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	6.4		"	"	"	"	"	"	
1,1-Dichloroethane	ND	6.4		"	"	"	"	"	"	
1,2-Dichloroethane	ND	6.4		"	"	"	"	"	"	
1,1-Dichloroethene	ND	6.4		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	6.4		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	6.4		"	"	"	"	"	"	
1,2-Dichloropropane	ND	6.4		"	"	"	"	"	"	
1,3-Dichloropropane	ND	6.4		"	"	"	"	"	"	
2,2-Dichloropropane	ND	6.4		"	"	"	"	"	"	
1,1-Dichloropropene	ND	6.4		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	6.4		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	6.4		"	"	"	"	"	"	
Ethylbenzene	ND	6.4		"	"	"	"	"	"	
Hexachlorobutadiene	ND	6.4		"	"	"	"	"	"	
Isopropylbenzene	ND	6.4		"	"	"	"	"	"	
p-Isopropyltoluene	ND	6.4		"	"	"	"	"	"	
Methylene chloride	ND	6.4		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	6.4		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
738 Ashland Avenue
Santa Monica CA, 90405

Project: City of Signal Hill
Project Number: Las Brisas
Project Manager: Susan Mearns

Reported:
04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB2-10 (0504072-07) Soil Sampled: 04/04/05 09:35 Received: 04/04/05 14:15										
Naphthalene	ND	6.4		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
n-Propylbenzene	ND	6.4		"	"	"	"	"	"	
Styrene	ND	6.4		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	6.4		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	6.4		"	"	"	"	"	"	
Tetrachloroethene	ND	6.4		"	"	"	"	"	"	
Toluene	ND	6.4		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	6.4		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	6.4		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	6.4		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	6.4		"	"	"	"	"	"	
Trichloroethene	ND	6.4		"	"	"	"	"	"	
Trichlorofluoromethane	ND	6.4		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	6.4		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	6.4		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	6.4		"	"	"	"	"	"	
Vinyl chloride	ND	6.4		"	"	"	"	"	"	
m,p-Xylene	ND	6.4		"	"	"	"	"	"	
o-Xylene	ND	6.4		"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		103 %		80-120		"	"	"	"	
Surrogate: Toluene-d8		98.7 %		81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.7 %		74-121		"	"	"	"	

SB3-5 (0504072-10) Soil Sampled: 04/04/05 10:05 Received: 04/04/05 14:15

Benzene	ND	4.2		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	4.2		"	"	"	"	"	"	
Bromochloromethane	ND	4.2		"	"	"	"	"	"	
Bromodichloromethane	ND	4.2		"	"	"	"	"	"	
Bromoform	ND	4.2		"	"	"	"	"	"	
Bromomethane	ND	4.2		"	"	"	"	"	"	
n-Butylbenzene	ND	4.2		"	"	"	"	"	"	
sec-Butylbenzene	ND	4.2		"	"	"	"	"	"	
tert-Butylbenzene	ND	4.2		"	"	"	"	"	"	
Carbon tetrachloride	ND	4.2		"	"	"	"	"	"	
Chlorobenzene	ND	4.2		"	"	"	"	"	"	
Chloroethane	ND	4.2		"	"	"	"	"	"	
Chloroform	ND	4.2		"	"	"	"	"	"	
Chloromethane	ND	4.2		"	"	"	"	"	"	
2-Chlorotoluene	ND	4.2		"	"	"	"	"	"	
4-Chlorotoluene	ND	4.2		"	"	"	"	"	"	
Dibromochloromethane	ND	4.2		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB3-5 (0504072-10) Soil Sampled: 04/04/05 10:05 Received: 04/04/05 14:15										
1,2-Dibromo-3-chloropropane	ND	4.2		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	4.2		"	"	"	"	"	"	
Dibromomethane	ND	4.2		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.2		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.2		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.2		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.2		"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.2		"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.2		"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.2		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.2		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.2		"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.2		"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.2		"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.2		"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.2		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.2		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.2		"	"	"	"	"	"	
Ethylbenzene	ND	4.2		"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.2		"	"	"	"	"	"	
Isopropylbenzene	ND	4.2		"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.2		"	"	"	"	"	"	
Methylene chloride	ND	4.2		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	4.2		"	"	"	"	"	"	
Naphthalene	ND	4.2		"	"	"	"	"	"	
n-Propylbenzene	ND	4.2		"	"	"	"	"	"	
Styrene	ND	4.2		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.2		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.2		"	"	"	"	"	"	
Tetrachloroethene	ND	4.2		"	"	"	"	"	"	
Toluene	ND	4.2		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.2		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.2		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.2		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.2		"	"	"	"	"	"	
Trichloroethene	ND	4.2		"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.2		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.2		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.2		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.2		"	"	"	"	"	"	
Vinyl chloride	ND	4.2		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB3-5 (0504072-10) Soil Sampled: 04/04/05 10:05 Received: 04/04/05 14:15									
m,p-Xylene	ND	4.2	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
o-Xylene	ND	4.2	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		97.8 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	74-121		"	"	"	"	
SB3-10 (0504072-11) Soil Sampled: 04/04/05 10:10 Received: 04/04/05 14:15									
Benzene	ND	5.0	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB3-10 (0504072-11) Soil Sampled: 04/04/05 10:10 Received: 04/04/05 14:15									
trans-1,3-Dichloropropene	ND	5.0	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		105 %		80-120	"	"	"	"	
Surrogate: Toluene-d8		98.4 %		81-117	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.2 %		74-121	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB4-5 (0504072-14) Soil Sampled: 04/04/05 10:40 Received: 04/04/05 14:15										
Benzene	ND	5.0		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	5.0		"	"	"	"	"	"	"
Bromochloromethane	ND	5.0		"	"	"	"	"	"	"
Bromodichloromethane	ND	5.0		"	"	"	"	"	"	"
Bromoform	ND	5.0		"	"	"	"	"	"	"
Bromomethane	ND	5.0		"	"	"	"	"	"	"
n-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
sec-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
tert-Butylbenzene	ND	5.0		"	"	"	"	"	"	"
Carbon tetrachloride	ND	5.0		"	"	"	"	"	"	"
Chlorobenzene	ND	5.0		"	"	"	"	"	"	"
Chloroethane	ND	5.0		"	"	"	"	"	"	"
Chloroform	ND	5.0		"	"	"	"	"	"	"
Chloromethane	ND	5.0		"	"	"	"	"	"	"
2-Chlorotoluene	ND	5.0		"	"	"	"	"	"	"
4-Chlorotoluene	ND	5.0		"	"	"	"	"	"	"
Dibromochloromethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	5.0		"	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	"	"
Dibromomethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.0		"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0		"	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0		"	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0		"	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0		"	"	"	"	"	"	"
Ethylbenzene	ND	5.0		"	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0		"	"	"	"	"	"	"
Isopropylbenzene	ND	5.0		"	"	"	"	"	"	"
p-Isopropyltoluene	ND	5.0		"	"	"	"	"	"	"
Methylene chloride	ND	5.0		"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0		"	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
738 Ashland Avenue
Santa Monica CA, 90405

Project: City of Signal Hill
Project Number: Las Brisas
Project Manager: Susan Mearns

Reported:
04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB4-5 (0504072-14) Soil Sampled: 04/04/05 10:40 Received: 04/04/05 14:15										
Naphthalene	ND	5.0		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
n-Propylbenzene	ND	5.0		"	"	"	"	"	"	
Styrene	ND	5.0		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0		"	"	"	"	"	"	
Tetrachloroethene	ND	5.0		"	"	"	"	"	"	
Toluene	ND	5.0		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0		"	"	"	"	"	"	
Trichloroethene	ND	5.0		"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0		"	"	"	"	"	"	
Vinyl chloride	ND	5.0		"	"	"	"	"	"	
m,p-Xylene	ND	5.0		"	"	"	"	"	"	
o-Xylene	ND	5.0		"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %		80-120		"	"	"	"	
Surrogate: Toluene-d8		97.6 %		81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.5 %		74-121		"	"	"	"	

SB4-10 (0504072-15) Soil Sampled: 04/04/05 10:50 Received: 04/04/05 14:15

Benzene	ND	10		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	10		"	"	"	"	"	"	
Bromochloromethane	ND	10		"	"	"	"	"	"	
Bromodichloromethane	ND	10		"	"	"	"	"	"	
Bromoform	ND	10		"	"	"	"	"	"	
Bromomethane	ND	10		"	"	"	"	"	"	
n-Butylbenzene	ND	10		"	"	"	"	"	"	
sec-Butylbenzene	14	10		"	"	"	"	"	"	
tert-Butylbenzene	ND	10		"	"	"	"	"	"	
Carbon tetrachloride	ND	10		"	"	"	"	"	"	
Chlorobenzene	ND	10		"	"	"	"	"	"	
Chloroethane	ND	10		"	"	"	"	"	"	
Chloroform	ND	10		"	"	"	"	"	"	
Chloromethane	ND	10		"	"	"	"	"	"	
2-Chlorotoluene	ND	10		"	"	"	"	"	"	
4-Chlorotoluene	ND	10		"	"	"	"	"	"	
Dibromochloromethane	ND	10		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB4-10 (0504072-15) Soil Sampled: 04/04/05 10:50 Received: 04/04/05 14:15										
1,2-Dibromo-3-chloropropane	ND	10		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	10		"	"	"	"	"	"	
Dibromomethane	ND	10		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	10		"	"	"	"	"	"	
1,1-Dichloroethane	ND	10		"	"	"	"	"	"	
1,2-Dichloroethane	ND	10		"	"	"	"	"	"	
1,1-Dichloroethene	ND	10		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10		"	"	"	"	"	"	
1,2-Dichloropropane	ND	10		"	"	"	"	"	"	
1,3-Dichloropropane	ND	10		"	"	"	"	"	"	
2,2-Dichloropropane	ND	10		"	"	"	"	"	"	
1,1-Dichloropropene	ND	10		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	10		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	10		"	"	"	"	"	"	
Ethylbenzene	45	10		"	"	"	"	"	"	
Hexachlorobutadiene	ND	10		"	"	"	"	"	"	
Isopropylbenzene	31	10		"	"	"	"	"	"	
p-Isopropyltoluene	ND	10		"	"	"	"	"	"	
Methylene chloride	ND	10		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	10		"	"	"	"	"	"	
Naphthalene	28	10		"	"	"	"	"	"	
n-Propylbenzene	37	10		"	"	"	"	"	"	
Styrene	ND	10		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	10		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	10		"	"	"	"	"	"	
Tetrachloroethene	ND	10		"	"	"	"	"	"	
Toluene	ND	10		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	10		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	10		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	10		"	"	"	"	"	"	
Trichloroethene	ND	10		"	"	"	"	"	"	
Trichlorofluoromethane	ND	10		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	10		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	36	10		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	10		"	"	"	"	"	"	
Vinyl chloride	ND	10		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB4-10 (0504072-15) Soil Sampled: 04/04/05 10:50 Received: 04/04/05 14:15									
m,p-Xylene	ND	10	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
o-Xylene	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	80-120		"	"	"	"	
Surrogate: Toluene-d8		97.8 %	81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.7 %	74-121		"	"	"	"	
SB5-5 (0504072-18) Soil Sampled: 04/04/05 11:12 Received: 04/04/05 14:15									
Benzene	ND	8.2	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	8.2	"	"	"	"	"	"	
Bromochloromethane	ND	8.2	"	"	"	"	"	"	
Bromodichloromethane	ND	8.2	"	"	"	"	"	"	
Bromoform	ND	8.2	"	"	"	"	"	"	
Bromomethane	ND	8.2	"	"	"	"	"	"	
n-Butylbenzene	ND	8.2	"	"	"	"	"	"	
sec-Butylbenzene	ND	8.2	"	"	"	"	"	"	
tert-Butylbenzene	ND	8.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	8.2	"	"	"	"	"	"	
Chlorobenzene	ND	8.2	"	"	"	"	"	"	
Chloroethane	ND	8.2	"	"	"	"	"	"	
Chloroform	ND	8.2	"	"	"	"	"	"	
Chloromethane	ND	8.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	8.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	8.2	"	"	"	"	"	"	
Dibromochloromethane	ND	8.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	8.2	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8.2	"	"	"	"	"	"	
Dibromomethane	ND	8.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	8.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	8.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	8.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	8.2	"	"	"	"	"	"	
1,1-Dichloroethane	ND	8.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	8.2	"	"	"	"	"	"	
1,1-Dichloroethene	ND	8.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	8.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	8.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	8.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	8.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	8.2	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	8.2	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB5-5 (0504072-18) Soil Sampled: 04/04/05 11:12 Received: 04/04/05 14:15									
trans-1,3-Dichloropropene	ND	8.2	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Ethylbenzene	ND	8.2	"	"	"	"	"	"	
Hexachlorobutadiene	ND	8.2	"	"	"	"	"	"	
Isopropylbenzene	ND	8.2	"	"	"	"	"	"	
p-Isopropyltoluene	ND	8.2	"	"	"	"	"	"	
Methylene chloride	ND	8.2	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	8.2	"	"	"	"	"	"	
Naphthalene	ND	8.2	"	"	"	"	"	"	
n-Propylbenzene	ND	8.2	"	"	"	"	"	"	
Styrene	ND	8.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	8.2	"	"	"	"	"	"	
Tetrachloroethene	ND	8.2	"	"	"	"	"	"	
Toluene	ND	8.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	8.2	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	8.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	8.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	8.2	"	"	"	"	"	"	
Trichloroethene	ND	8.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	8.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	8.2	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	8.2	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	8.2	"	"	"	"	"	"	
Vinyl chloride	ND	8.2	"	"	"	"	"	"	
m,p-Xylene	ND	8.2	"	"	"	"	"	"	
o-Xylene	ND	8.2	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		105 %		80-120	"	"	"	"	
Surrogate: Toluene-d8		98.1 %		81-117	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.6 %		74-121	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB5-10 (0504072-19) Soil Sampled: 04/04/05 11:15 Received: 04/04/05 14:15										
Benzene	ND	6.2		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	6.2		"	"	"	"	"	"	
Bromochloromethane	ND	6.2		"	"	"	"	"	"	
Bromodichloromethane	ND	6.2		"	"	"	"	"	"	
Bromoform	ND	6.2		"	"	"	"	"	"	
Bromomethane	ND	6.2		"	"	"	"	"	"	
n-Butylbenzene	ND	6.2		"	"	"	"	"	"	
sec-Butylbenzene	ND	6.2		"	"	"	"	"	"	
tert-Butylbenzene	ND	6.2		"	"	"	"	"	"	
Carbon tetrachloride	ND	6.2		"	"	"	"	"	"	
Chlorobenzene	ND	6.2		"	"	"	"	"	"	
Chloroethane	ND	6.2		"	"	"	"	"	"	
Chloroform	ND	6.2		"	"	"	"	"	"	
Chloromethane	ND	6.2		"	"	"	"	"	"	
2-Chlorotoluene	ND	6.2		"	"	"	"	"	"	
4-Chlorotoluene	ND	6.2		"	"	"	"	"	"	
Dibromochloromethane	ND	6.2		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	6.2		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	6.2		"	"	"	"	"	"	
Dibromomethane	ND	6.2		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.2		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.2		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.2		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	6.2		"	"	"	"	"	"	
1,1-Dichloroethane	ND	6.2		"	"	"	"	"	"	
1,2-Dichloroethane	ND	6.2		"	"	"	"	"	"	
1,1-Dichloroethene	ND	6.2		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	6.2		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	6.2		"	"	"	"	"	"	
1,2-Dichloropropane	ND	6.2		"	"	"	"	"	"	
1,3-Dichloropropane	ND	6.2		"	"	"	"	"	"	
2,2-Dichloropropane	ND	6.2		"	"	"	"	"	"	
1,1-Dichloropropene	ND	6.2		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	6.2		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	6.2		"	"	"	"	"	"	
Ethylbenzene	ND	6.2		"	"	"	"	"	"	
Hexachlorobutadiene	ND	6.2		"	"	"	"	"	"	
Isopropylbenzene	ND	6.2		"	"	"	"	"	"	
p-Isopropyltoluene	ND	6.2		"	"	"	"	"	"	
Methylene chloride	ND	6.2		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	6.2		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
738 Ashland Avenue
Santa Monica CA, 90405

Project: City of Signal Hill
Project Number: Las Brisas
Project Manager: Susan Mearns

Reported:
04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB5-10 (0504072-19) Soil Sampled: 04/04/05 11:15 Received: 04/04/05 14:15										
Naphthalene	ND	6.2		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
n-Propylbenzene	ND	6.2		"	"	"	"	"	"	
Styrene	ND	6.2		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	6.2		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	6.2		"	"	"	"	"	"	
Tetrachloroethene	ND	6.2		"	"	"	"	"	"	
Toluene	6.2	6.2		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	6.2		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	6.2		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	6.2		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	6.2		"	"	"	"	"	"	
Trichloroethene	ND	6.2		"	"	"	"	"	"	
Trichlorofluoromethane	ND	6.2		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	6.2		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	6.2		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	6.2		"	"	"	"	"	"	
Vinyl chloride	ND	6.2		"	"	"	"	"	"	
m,p-Xylene	ND	6.2		"	"	"	"	"	"	
o-Xylene	ND	6.2		"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %		80-120		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.7 %		81-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.3 %		74-121		"	"	"	"	

SB6-5 (0504072-22) Soil Sampled: 04/04/05 11:39 Received: 04/04/05 14:15

Benzene	ND	4.2		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	4.2		"	"	"	"	"	"	
Bromochloromethane	ND	4.2		"	"	"	"	"	"	
Bromodichloromethane	ND	4.2		"	"	"	"	"	"	
Bromoform	ND	4.2		"	"	"	"	"	"	
Bromomethane	ND	4.2		"	"	"	"	"	"	
n-Butylbenzene	ND	4.2		"	"	"	"	"	"	
sec-Butylbenzene	ND	4.2		"	"	"	"	"	"	
tert-Butylbenzene	ND	4.2		"	"	"	"	"	"	
Carbon tetrachloride	ND	4.2		"	"	"	"	"	"	
Chlorobenzene	ND	4.2		"	"	"	"	"	"	
Chloroethane	ND	4.2		"	"	"	"	"	"	
Chloroform	ND	4.2		"	"	"	"	"	"	
Chloromethane	ND	4.2		"	"	"	"	"	"	
2-Chlorotoluene	ND	4.2		"	"	"	"	"	"	
4-Chlorotoluene	ND	4.2		"	"	"	"	"	"	
Dibromochloromethane	ND	4.2		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB6-5 (0504072-22) Soil Sampled: 04/04/05 11:39 Received: 04/04/05 14:15										
1,2-Dibromo-3-chloropropane	ND	4.2		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	4.2		"	"	"	"	"	"	
Dibromomethane	ND	4.2		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.2		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.2		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.2		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.2		"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.2		"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.2		"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.2		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.2		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.2		"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.2		"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.2		"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.2		"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.2		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.2		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.2		"	"	"	"	"	"	
Ethylbenzene	ND	4.2		"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.2		"	"	"	"	"	"	
Isopropylbenzene	ND	4.2		"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.2		"	"	"	"	"	"	
Methylene chloride	ND	4.2		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	4.2		"	"	"	"	"	"	
Naphthalene	ND	4.2		"	"	"	"	"	"	
n-Propylbenzene	ND	4.2		"	"	"	"	"	"	
Styrene	ND	4.2		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.2		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.2		"	"	"	"	"	"	
Tetrachloroethene	ND	4.2		"	"	"	"	"	"	
Toluene	ND	4.2		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.2		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.2		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.2		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.2		"	"	"	"	"	"	
Trichloroethene	ND	4.2		"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.2		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.2		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.2		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.2		"	"	"	"	"	"	
Vinyl chloride	ND	4.2		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB6-5 (0504072-22) Soil Sampled: 04/04/05 11:39 Received: 04/04/05 14:15										
m,p-Xylene	ND	4.2		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
o-Xylene	ND	4.2		"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		105 %		80-120		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.3 %		81-117		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.3 %		74-121		"	"	"	"	
SB6-10 (0504072-23) Soil Sampled: 04/04/05 11:44 Received: 04/04/05 14:15										
Benzene	ND	7.4		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	7.4		"	"	"	"	"	"	
Bromochloromethane	ND	7.4		"	"	"	"	"	"	
Bromodichloromethane	ND	7.4		"	"	"	"	"	"	
Bromoform	ND	7.4		"	"	"	"	"	"	
Bromomethane	ND	7.4		"	"	"	"	"	"	
n-Butylbenzene	ND	7.4		"	"	"	"	"	"	
sec-Butylbenzene	ND	7.4		"	"	"	"	"	"	
tert-Butylbenzene	ND	7.4		"	"	"	"	"	"	
Carbon tetrachloride	ND	7.4		"	"	"	"	"	"	
Chlorobenzene	ND	7.4		"	"	"	"	"	"	
Chloroethane	ND	7.4		"	"	"	"	"	"	
Chloroform	ND	7.4		"	"	"	"	"	"	
Chloromethane	ND	7.4		"	"	"	"	"	"	
2-Chlorotoluene	ND	7.4		"	"	"	"	"	"	
4-Chlorotoluene	ND	7.4		"	"	"	"	"	"	
Dibromochloromethane	ND	7.4		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	7.4		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.4		"	"	"	"	"	"	
Dibromomethane	ND	7.4		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	7.4		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	7.4		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	7.4		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	7.4		"	"	"	"	"	"	
1,1-Dichloroethane	ND	7.4		"	"	"	"	"	"	
1,2-Dichloroethane	ND	7.4		"	"	"	"	"	"	
1,1-Dichloroethene	ND	7.4		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	7.4		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	7.4		"	"	"	"	"	"	
1,2-Dichloropropane	ND	7.4		"	"	"	"	"	"	
1,3-Dichloropropane	ND	7.4		"	"	"	"	"	"	
2,2-Dichloropropane	ND	7.4		"	"	"	"	"	"	
1,1-Dichloropropene	ND	7.4		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	7.4		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
SB6-10 (0504072-23) Soil Sampled: 04/04/05 11:44 Received: 04/04/05 14:15										
trans-1,3-Dichloropropene	ND	7.4	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B		
Ethylbenzene	ND	7.4	"	"	"	"	"	"		
Hexachlorobutadiene	ND	7.4	"	"	"	"	"	"		
Isopropylbenzene	ND	7.4	"	"	"	"	"	"		
p-Isopropyltoluene	ND	7.4	"	"	"	"	"	"		
Methylene chloride	ND	7.4	"	"	"	"	"	"		
Methyl tert-butyl ether	ND	7.4	"	"	"	"	"	"		
Naphthalene	ND	7.4	"	"	"	"	"	"		
n-Propylbenzene	ND	7.4	"	"	"	"	"	"		
Styrene	ND	7.4	"	"	"	"	"	"		
1,1,1,2-Tetrachloroethane	ND	7.4	"	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	7.4	"	"	"	"	"	"		
Tetrachloroethene	ND	7.4	"	"	"	"	"	"		
Toluene	ND	7.4	"	"	"	"	"	"		
1,2,3-Trichlorobenzene	ND	7.4	"	"	"	"	"	"		
1,2,4-Trichlorobenzene	ND	7.4	"	"	"	"	"	"		
1,1,1-Trichloroethane	ND	7.4	"	"	"	"	"	"		
1,1,2-Trichloroethane	ND	7.4	"	"	"	"	"	"		
Trichloroethene	ND	7.4	"	"	"	"	"	"		
Trichlorofluoromethane	ND	7.4	"	"	"	"	"	"		
1,2,3-Trichloropropane	ND	7.4	"	"	"	"	"	"		
1,2,4-Trimethylbenzene	ND	7.4	"	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	7.4	"	"	"	"	"	"		
Vinyl chloride	ND	7.4	"	"	"	"	"	"		
m,p-Xylene	ND	7.4	"	"	"	"	"	"		
o-Xylene	ND	7.4	"	"	"	"	"	"		
Surrogate: Dibromofluoromethane		106 %		80-120	"	"	"	"		
Surrogate: Toluene-d8		98.1 %		81-117	"	"	"	"		
Surrogate: 4-Bromofluorobenzene		93.8 %		74-121	"	"	"	"		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB7-5 (0504072-26) Soil Sampled: 04/04/05 12:13 Received: 04/04/05 14:15									
Benzene	ND	4.3	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	4.3	"	"	"	"	"	"	
Bromochloromethane	ND	4.3	"	"	"	"	"	"	
Bromodichloromethane	ND	4.3	"	"	"	"	"	"	
Bromoform	ND	4.3	"	"	"	"	"	"	
Bromomethane	ND	4.3	"	"	"	"	"	"	
n-Butylbenzene	ND	4.3	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.3	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.3	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.3	"	"	"	"	"	"	
Chlorobenzene	ND	4.3	"	"	"	"	"	"	
Chloroethane	ND	4.3	"	"	"	"	"	"	
Chloroform	ND	4.3	"	"	"	"	"	"	
Chloromethane	ND	4.3	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.3	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.3	"	"	"	"	"	"	
Dibromochloromethane	ND	4.3	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.3	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.3	"	"	"	"	"	"	
Dibromomethane	ND	4.3	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.3	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.3	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.3	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.3	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.3	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.3	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.3	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.3	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.3	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.3	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.3	"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.3	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.3	"	"	"	"	"	"	
Ethylbenzene	ND	4.3	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.3	"	"	"	"	"	"	
Isopropylbenzene	ND	4.3	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.3	"	"	"	"	"	"	
Methylene chloride	ND	4.3	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	4.3	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB7-5 (0504072-26) Soil Sampled: 04/04/05 12:13 Received: 04/04/05 14:15										
Naphthalene	ND	4.3		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
n-Propylbenzene	ND	4.3		"	"	"	"	"	"	
Styrene	ND	4.3		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.3		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.3		"	"	"	"	"	"	
Tetrachloroethene	ND	4.3		"	"	"	"	"	"	
Toluene	ND	4.3		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.3		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.3		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.3		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.3		"	"	"	"	"	"	
Trichloroethene	ND	4.3		"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.3		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.3		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.3		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.3		"	"	"	"	"	"	
Vinyl chloride	ND	4.3		"	"	"	"	"	"	
m,p-Xylene	ND	4.3		"	"	"	"	"	"	
o-Xylene	ND	4.3		"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %		80-120		"	"	"	"	
Surrogate: Toluene-d8		97.4 %		81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.1 %		74-121		"	"	"	"	

SB7-10 (0504072-27) Soil Sampled: 04/04/05 12:17 Received: 04/04/05 14:15

Benzene	ND	14		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	14		"	"	"	"	"	"	
Bromochloromethane	ND	14		"	"	"	"	"	"	
Bromodichloromethane	ND	14		"	"	"	"	"	"	
Bromoform	ND	14		"	"	"	"	"	"	
Bromomethane	ND	14		"	"	"	"	"	"	
n-Butylbenzene	ND	14		"	"	"	"	"	"	
sec-Butylbenzene	ND	14		"	"	"	"	"	"	
tert-Butylbenzene	ND	14		"	"	"	"	"	"	
Carbon tetrachloride	ND	14		"	"	"	"	"	"	
Chlorobenzene	ND	14		"	"	"	"	"	"	
Chloroethane	ND	14		"	"	"	"	"	"	
Chloroform	ND	14		"	"	"	"	"	"	
Chloromethane	ND	14		"	"	"	"	"	"	
2-Chlorotoluene	ND	14		"	"	"	"	"	"	
4-Chlorotoluene	ND	14		"	"	"	"	"	"	
Dibromochloromethane	ND	14		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB7-10 (0504072-27) Soil Sampled: 04/04/05 12:17 Received: 04/04/05 14:15										
1,2-Dibromo-3-chloropropane	ND	14		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	14		"	"	"	"	"	"	
Dibromomethane	ND	14		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	14		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	14		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	14		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	14		"	"	"	"	"	"	
1,1-Dichloroethane	ND	14		"	"	"	"	"	"	
1,2-Dichloroethane	ND	14		"	"	"	"	"	"	
1,1-Dichloroethene	ND	14		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	14		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	14		"	"	"	"	"	"	
1,2-Dichloropropane	ND	14		"	"	"	"	"	"	
1,3-Dichloropropane	ND	14		"	"	"	"	"	"	
2,2-Dichloropropane	ND	14		"	"	"	"	"	"	
1,1-Dichloropropene	ND	14		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	14		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	14		"	"	"	"	"	"	
Ethylbenzene	ND	14		"	"	"	"	"	"	
Hexachlorobutadiene	ND	14		"	"	"	"	"	"	
Isopropylbenzene	ND	14		"	"	"	"	"	"	
p-Isopropyltoluene	ND	14		"	"	"	"	"	"	
Methylene chloride	ND	14		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	14		"	"	"	"	"	"	
Naphthalene	ND	14		"	"	"	"	"	"	
n-Propylbenzene	ND	14		"	"	"	"	"	"	
Styrene	ND	14		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	14		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	14		"	"	"	"	"	"	
Tetrachloroethene	ND	14		"	"	"	"	"	"	
Toluene	ND	14		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	14		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	14		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	14		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	14		"	"	"	"	"	"	
Trichloroethene	ND	14		"	"	"	"	"	"	
Trichlorofluoromethane	ND	14		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	14		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	14		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	14		"	"	"	"	"	"	
Vinyl chloride	ND	14		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

SB7-10 (0504072-27) Soil Sampled: 04/04/05 12:17 Received: 04/04/05 14:15

m,p-Xylene	ND	14	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
o-Xylene	ND	14	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		<i>106 %</i>	<i>80-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>98.5 %</i>	<i>81-117</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>95.6 %</i>	<i>74-121</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

SB8-5 (0504072-30) Soil Sampled: 04/04/05 12:42 Received: 04/04/05 14:15

Benzene	ND	4.0	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	4.0	"	"	"	"	"	"	
Bromochloromethane	ND	4.0	"	"	"	"	"	"	
Bromodichloromethane	ND	4.0	"	"	"	"	"	"	
Bromoform	ND	4.0	"	"	"	"	"	"	
Bromomethane	ND	4.0	"	"	"	"	"	"	
n-Butylbenzene	ND	4.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.0	"	"	"	"	"	"	
Chloroethane	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.0	"	"	"	"	"	"	
Chloromethane	ND	4.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.0	"	"	"	"	"	"	
Dibromochloromethane	ND	4.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.0	"	"	"	"	"	"	
Dibromomethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB8-5 (0504072-30) Soil Sampled: 04/04/05 12:42 Received: 04/04/05 14:15										
trans-1,3-Dichloropropene	ND	4.0		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Ethylbenzene	ND	4.0		"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.0		"	"	"	"	"	"	
Isopropylbenzene	ND	4.0		"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.0		"	"	"	"	"	"	
Methylene chloride	ND	4.0		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	4.0		"	"	"	"	"	"	
Naphthalene	ND	4.0		"	"	"	"	"	"	
n-Propylbenzene	ND	4.0		"	"	"	"	"	"	
Styrene	ND	4.0		"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.0		"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.0		"	"	"	"	"	"	
Tetrachloroethene	ND	4.0		"	"	"	"	"	"	
Toluene	ND	4.0		"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.0		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.0		"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.0		"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.0		"	"	"	"	"	"	
Trichloroethene	ND	4.0		"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.0		"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.0		"	"	"	"	"	"	
Vinyl chloride	ND	4.0		"	"	"	"	"	"	
m,p-Xylene	ND	4.0		"	"	"	"	"	"	
o-Xylene	ND	4.0		"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %		80-120		"	"	"	"	
Surrogate: Toluene-d8		98.8 %		81-117		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.1 %		74-121		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB8-10 (0504072-31) Soil Sampled: 04/04/05 12:44 Received: 04/04/05 14:15										
Benzene	ND	4.1		µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
Bromobenzene	ND	4.1		"	"	"	"	"	"	
Bromochloromethane	ND	4.1		"	"	"	"	"	"	
Bromodichloromethane	ND	4.1		"	"	"	"	"	"	
Bromoform	ND	4.1		"	"	"	"	"	"	
Bromomethane	ND	4.1		"	"	"	"	"	"	
n-Butylbenzene	ND	4.1		"	"	"	"	"	"	
sec-Butylbenzene	ND	4.1		"	"	"	"	"	"	
tert-Butylbenzene	ND	4.1		"	"	"	"	"	"	
Carbon tetrachloride	ND	4.1		"	"	"	"	"	"	
Chlorobenzene	ND	4.1		"	"	"	"	"	"	
Chloroethane	ND	4.1		"	"	"	"	"	"	
Chloroform	ND	4.1		"	"	"	"	"	"	
Chloromethane	ND	4.1		"	"	"	"	"	"	
2-Chlorotoluene	ND	4.1		"	"	"	"	"	"	
4-Chlorotoluene	ND	4.1		"	"	"	"	"	"	
Dibromochloromethane	ND	4.1		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.1		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.1		"	"	"	"	"	"	
Dibromomethane	ND	4.1		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.1		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.1		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.1		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.1		"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1		"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.1		"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.1		"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.1		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.1		"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.1		"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.1		"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.1		"	"	"	"	"	"	
1,1-Dichloropropene	ND	4.1		"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.1		"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.1		"	"	"	"	"	"	
Ethylbenzene	ND	4.1		"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.1		"	"	"	"	"	"	
Isopropylbenzene	ND	4.1		"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.1		"	"	"	"	"	"	
Methylene chloride	ND	4.1		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	4.1		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B
Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB8-10 (0504072-31) Soil Sampled: 04/04/05 12:44 Received: 04/04/05 14:15									
Naphthalene	ND	4.1	µg/kg	1	B5D0712	04/06/05	04/06/05	EPA 8260B	
n-Propylbenzene	ND	4.1	"	"	"	"	"	"	
Styrene	ND	4.1	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.1	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.1	"	"	"	"	"	"	
Tetrachloroethene	ND	4.1	"	"	"	"	"	"	
Toluene	ND	4.1	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.1	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.1	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.1	"	"	"	"	"	"	
Trichloroethene	ND	4.1	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.1	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.1	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.1	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.1	"	"	"	"	"	"	
Vinyl chloride	ND	4.1	"	"	"	"	"	"	
m,p-Xylene	ND	4.1	"	"	"	"	"	"	
o-Xylene	ND	4.1	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		<i>106 %</i>		<i>80-120</i>					
<i>Surrogate: Toluene-d8</i>		<i>97.6 %</i>		<i>81-117</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>93.5 %</i>		<i>74-121</i>					

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB1-5 (0504072-02) Soil Sampled: 04/04/05 08:37 Received: 04/04/05 14:15										
Acenaphthene	ND	0.33	mg/kg	1	B5D0623	04/06/05	04/07/05	EPA 8270C		
Acenaphthylene	ND	0.33	"	"	"	"	"	"		
Anthracene	ND	0.33	"	"	"	"	"	"		
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"		
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"		
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"		
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"		
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"		
Chrysene	ND	0.33	"	"	"	"	"	"		
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"		
Dibenzofuran	ND	0.33	"	"	"	"	"	"		
Fluoranthene	ND	0.33	"	"	"	"	"	"		
Fluorene	ND	0.33	"	"	"	"	"	"		
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"		
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"		
Naphthalene	ND	0.33	"	"	"	"	"	"		
Phenanthrene	ND	0.33	"	"	"	"	"	"		
Pyrene	ND	0.33	"	"	"	"	"	"		

<i>Surrogate: Nitrobenzene-d5</i>		59.5 %	23-120	"	"	"	"	"		
<i>Surrogate: 2-Fluorobiphenyl</i>		66.1 %	30-115	"	"	"	"	"		
<i>Surrogate: Terphenyl-d14</i>		107 %	18-137	"	"	"	"	"		

SB1-10 (0504072-03) Soil Sampled: 04/04/05 08:45 Received: 04/04/05 14:15										
Acenaphthene	ND	0.33	mg/kg	1	B5D0623	04/06/05	04/07/05	EPA 8270C		
Acenaphthylene	ND	0.33	"	"	"	"	"	"		
Anthracene	ND	0.33	"	"	"	"	"	"		
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"		
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"		
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"		
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"		
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"		
Chrysene	ND	0.33	"	"	"	"	"	"		
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"		
Dibenzofuran	ND	0.33	"	"	"	"	"	"		
Fluoranthene	ND	0.33	"	"	"	"	"	"		
Fluorene	ND	0.33	"	"	"	"	"	"		
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"		
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"		
Naphthalene	ND	0.33	"	"	"	"	"	"		
Phenanthrene	ND	0.33	"	"	"	"	"	"		
Pyrene	ND	0.33	"	"	"	"	"	"		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB1-10 (0504072-03) Soil Sampled: 04/04/05 08:45 Received: 04/04/05 14:15									
Surrogate: Nitrobenzene-d5		60.7 %	23-120		B5D0623	04/06/05	04/07/05	EPA 8270C	
Surrogate: 2-Fluorobiphenyl		73.9 %	30-115		"	"	"	"	
Surrogate: Terphenyl-d14		76.0 %	18-137		"	"	"	"	
SB2-5 (0504072-06) Soil Sampled: 04/04/05 09:30 Received: 04/04/05 14:15									
Acenaphthene	ND	0.33	mg/kg	1	B5D0623	04/06/05	04/07/05	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		53.5 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		70.3 %	30-115		"	"	"	"	
Surrogate: Terphenyl-d14		59.5 %	18-137		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB2-10 (0504072-07) Soil Sampled: 04/04/05 09:35 Received: 04/04/05 14:15										
Acenaphthene	ND	0.33		mg/kg	1	B5D0623	04/06/05	04/07/05	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	
Anthracene	ND	0.33		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	
Chrysene	ND	0.33		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	
Dibenzofuran	ND	0.33		"	"	"	"	"	"	
Fluoranthene	ND	0.33		"	"	"	"	"	"	
Fluorene	ND	0.33		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	
Naphthalene	ND	0.33		"	"	"	"	"	"	
Phenanthrene	ND	0.33		"	"	"	"	"	"	
Pyrene	ND	0.33		"	"	"	"	"	"	

<i>Surrogate: Nitrobenzene-d5</i>		53.2 %		23-120		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		65.2 %		30-115		"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>		79.9 %		18-137		"	"	"	"	

SB3-5 (0504072-10) Soil Sampled: 04/04/05 10:05 Received: 04/04/05 14:15										
Acenaphthene	ND	0.33		mg/kg	1	B5D0623	04/06/05	04/07/05	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	
Anthracene	ND	0.33		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	
Chrysene	ND	0.33		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	
Dibenzofuran	ND	0.33		"	"	"	"	"	"	
Fluoranthene	ND	0.33		"	"	"	"	"	"	
Fluorene	ND	0.33		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	
Naphthalene	ND	0.33		"	"	"	"	"	"	
Phenanthrene	ND	0.33		"	"	"	"	"	"	
Pyrene	ND	0.33		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

SB3-5 (0504072-10) Soil Sampled: 04/04/05 10:05 Received: 04/04/05 14:15

Surrogate: Nitrobenzene-d5		62.2 %		23-120	B5D0623	04/06/05	04/07/05	EPA 8270C	
Surrogate: 2-Fluorobiphenyl		82.6 %		30-115	"	"	"	"	
Surrogate: Terphenyl-d14		78.7 %		18-137	"	"	"	"	

SB3-10 (0504072-11) Soil Sampled: 04/04/05 10:10 Received: 04/04/05 14:15

Acenaphthene	ND	0.33	mg/kg	1	B5D0623	04/06/05	04/07/05	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		53.8 %		23-120	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		64.6 %		30-115	"	"	"	"	
Surrogate: Terphenyl-d14		50.8 %		18-137	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB4-5 (0504072-14) Soil Sampled: 04/04/05 10:40 Received: 04/04/05 14:15										
Acenaphthene	ND	33		mg/kg	100	B5D0623	04/06/05	04/07/05	EPA 8270C	D-34
Acenaphthylene	ND	33		"	"	"	"	"	"	D-34
Anthracene	ND	33		"	"	"	"	"	"	D-34
Benzo (a) anthracene	ND	33		"	"	"	"	"	"	D-34
Benzo (b) fluoranthene	ND	33		"	"	"	"	"	"	D-34
Benzo (k) fluoranthene	ND	33		"	"	"	"	"	"	D-34
Benzo (a) pyrene	ND	33		"	"	"	"	"	"	D-34
Benzo (g,h,i) perylene	ND	33		"	"	"	"	"	"	D-34
Chrysene	ND	33		"	"	"	"	"	"	D-34
Dibenz (a,h) anthracene	ND	33		"	"	"	"	"	"	D-34
Dibenzofuran	ND	33		"	"	"	"	"	"	D-34
Fluoranthene	ND	33		"	"	"	"	"	"	D-34
Fluorene	ND	33		"	"	"	"	"	"	D-34
Indeno (1,2,3-cd) pyrene	ND	33		"	"	"	"	"	"	D-34
2-Methylnaphthalene	ND	33		"	"	"	"	"	"	D-34
Naphthalene	ND	33		"	"	"	"	"	"	D-34
Phenanthrene	ND	33		"	"	"	"	"	"	D-34
Pyrene	ND	33		"	"	"	"	"	"	D-34
Surrogate: Nitrobenzene-d5		%		23-120		"	"	"	"	S-06
Surrogate: 2-Fluorobiphenyl		%		30-115		"	"	"	"	S-06
Surrogate: Terphenyl-d14		%		18-137		"	"	"	"	S-06

SB4-10 (0504072-15) Soil Sampled: 04/04/05 10:50 Received: 04/04/05 14:15										
Acenaphthene	ND	0.33		mg/kg	1	B5D0623	04/06/05	04/07/05	EPA 8270C	
Acenaphthylene	ND	0.33		"	"	"	"	"	"	
Anthracene	ND	0.33		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33		"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33		"	"	"	"	"	"	
Chrysene	ND	0.33		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33		"	"	"	"	"	"	
Dibenzofuran	ND	0.33		"	"	"	"	"	"	
Fluoranthene	ND	0.33		"	"	"	"	"	"	
Fluorene	ND	0.33		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33		"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33		"	"	"	"	"	"	
Naphthalene	ND	0.33		"	"	"	"	"	"	
Phenanthrene	ND	0.33		"	"	"	"	"	"	
Pyrene	ND	0.33		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB4-10 (0504072-15) Soil Sampled: 04/04/05 10:50 Received: 04/04/05 14:15									
Surrogate: Nitrobenzene-d5		55.3 %	23-120		B5D0623	04/06/05	04/07/05	EPA 8270C	
Surrogate: 2-Fluorobiphenyl		72.1 %	30-115		"	"	"	"	
Surrogate: Terphenyl-d14		69.1 %	18-137		"	"	"	"	
SB5-5 (0504072-18) Soil Sampled: 04/04/05 11:12 Received: 04/04/05 14:15									
Acenaphthene	ND	33	mg/kg	100	B5D0623	04/06/05	04/07/05	EPA 8270C	D-34
Acenaphthylene	ND	33	"	"	"	"	"	"	D-34
Anthracene	ND	33	"	"	"	"	"	"	D-34
Benzo (a) anthracene	ND	33	"	"	"	"	"	"	D-34
Benzo (b) fluoranthene	ND	33	"	"	"	"	"	"	D-34
Benzo (k) fluoranthene	ND	33	"	"	"	"	"	"	D-34
Benzo (a) pyrene	ND	33	"	"	"	"	"	"	D-34
Benzo (g,h,i) perylene	ND	33	"	"	"	"	"	"	D-34
Chrysene	ND	33	"	"	"	"	"	"	D-34
Dibenz (a,h) anthracene	ND	33	"	"	"	"	"	"	D-34
Dibenzofuran	ND	33	"	"	"	"	"	"	D-34
Fluoranthene	ND	33	"	"	"	"	"	"	D-34
Fluorene	ND	33	"	"	"	"	"	"	D-34
Indeno (1,2,3-cd) pyrene	ND	33	"	"	"	"	"	"	D-34
2-Methylnaphthalene	ND	33	"	"	"	"	"	"	D-34
Naphthalene	ND	33	"	"	"	"	"	"	D-34
Phenanthrene	ND	33	"	"	"	"	"	"	D-34
Pyrene	ND	33	"	"	"	"	"	"	D-34
Surrogate: Nitrobenzene-d5		%	23-120		"	"	"	"	S-06
Surrogate: 2-Fluorobiphenyl		%	30-115		"	"	"	"	S-06
Surrogate: Terphenyl-d14		%	18-137		"	"	"	"	S-06

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB5-10 (0504072-19) Soil Sampled: 04/04/05 11:15 Received: 04/04/05 14:15									
Acenaphthene	ND	33	mg/kg	100	B5D0623	04/06/05	04/07/05	EPA 8270C	D-34
Acenaphthylene	ND	33	"	"	"	"	"	"	D-34
Anthracene	ND	33	"	"	"	"	"	"	D-34
Benzo (a) anthracene	ND	33	"	"	"	"	"	"	D-34
Benzo (b) fluoranthene	ND	33	"	"	"	"	"	"	D-34
Benzo (k) fluoranthene	ND	33	"	"	"	"	"	"	D-34
Benzo (a) pyrene	ND	33	"	"	"	"	"	"	D-34
Benzo (g,h,i) perylene	ND	33	"	"	"	"	"	"	D-34
Chrysene	ND	33	"	"	"	"	"	"	D-34
Dibenz (a,h) anthracene	ND	33	"	"	"	"	"	"	D-34
Dibenzofuran	ND	33	"	"	"	"	"	"	D-34
Fluoranthene	ND	33	"	"	"	"	"	"	D-34
Fluorene	ND	33	"	"	"	"	"	"	D-34
Indeno (1,2,3-cd) pyrene	ND	33	"	"	"	"	"	"	D-34
2-Methylnaphthalene	ND	33	"	"	"	"	"	"	D-34
Naphthalene	ND	33	"	"	"	"	"	"	D-34
Phenanthrene	ND	33	"	"	"	"	"	"	D-34
Pyrene	ND	33	"	"	"	"	"	"	D-34
Surrogate: Nitrobenzene-d5		%	23-120		"	"	"	"	S-06
Surrogate: 2-Fluorobiphenyl		%	30-115		"	"	"	"	S-06
Surrogate: Terphenyl-d14		%	18-137		"	"	"	"	S-06
SB6-5 (0504072-22) Soil Sampled: 04/04/05 11:39 Received: 04/04/05 14:15									
Acenaphthene	ND	33	mg/kg	100	B5D0623	04/06/05	04/07/05	EPA 8270C	D-34
Acenaphthylene	ND	33	"	"	"	"	"	"	D-34
Anthracene	ND	33	"	"	"	"	"	"	D-34
Benzo (a) anthracene	ND	33	"	"	"	"	"	"	D-34
Benzo (b) fluoranthene	ND	33	"	"	"	"	"	"	D-34
Benzo (k) fluoranthene	ND	33	"	"	"	"	"	"	D-34
Benzo (a) pyrene	ND	33	"	"	"	"	"	"	D-34
Benzo (g,h,i) perylene	ND	33	"	"	"	"	"	"	D-34
Chrysene	ND	33	"	"	"	"	"	"	D-34
Dibenz (a,h) anthracene	ND	33	"	"	"	"	"	"	D-34
Dibenzofuran	ND	33	"	"	"	"	"	"	D-34
Fluoranthene	ND	33	"	"	"	"	"	"	D-34
Fluorene	ND	33	"	"	"	"	"	"	D-34
Indeno (1,2,3-cd) pyrene	ND	33	"	"	"	"	"	"	D-34
2-Methylnaphthalene	ND	33	"	"	"	"	"	"	D-34
Naphthalene	ND	33	"	"	"	"	"	"	D-34
Phenanthrene	ND	33	"	"	"	"	"	"	D-34
Pyrene	ND	33	"	"	"	"	"	"	D-34

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB6-5 (0504072-22) Soil Sampled: 04/04/05 11:39 Received: 04/04/05 14:15										
Surrogate: Nitrobenzene-d5		%		23-120		B5D0623	04/06/05	04/07/05	EPA 8270C	S-06
Surrogate: 2-Fluorobiphenyl		%		30-115		"	"	"	"	S-06
Surrogate: Terphenyl-d14		%		18-137		"	"	"	"	S-06
SB6-10 (0504072-23) Soil Sampled: 04/04/05 11:44 Received: 04/04/05 14:15										
Acenaphthene	ND	33	mg/kg	100		B5D0623	04/06/05	04/07/05	EPA 8270C	D-34
Acenaphthylene	ND	33	"	"		"	"	"	"	D-34
Anthracene	ND	33	"	"		"	"	"	"	D-34
Benzo (a) anthracene	ND	33	"	"		"	"	"	"	D-34
Benzo (b) fluoranthene	ND	33	"	"		"	"	"	"	D-34
Benzo (k) fluoranthene	ND	33	"	"		"	"	"	"	D-34
Benzo (a) pyrene	ND	33	"	"		"	"	"	"	D-34
Benzo (g,h,i) perylene	ND	33	"	"		"	"	"	"	D-34
Chrysene	ND	33	"	"		"	"	"	"	D-34
Dibenz (a,h) anthracene	ND	33	"	"		"	"	"	"	D-34
Dibenzofuran	ND	33	"	"		"	"	"	"	D-34
Fluoranthene	ND	33	"	"		"	"	"	"	D-34
Fluorene	ND	33	"	"		"	"	"	"	D-34
Indeno (1,2,3-cd) pyrene	ND	33	"	"		"	"	"	"	D-34
2-Methylnaphthalene	ND	33	"	"		"	"	"	"	D-34
Naphthalene	ND	33	"	"		"	"	"	"	D-34
Phenanthrene	ND	33	"	"		"	"	"	"	D-34
Pyrene	ND	33	"	"		"	"	"	"	D-34
Surrogate: Nitrobenzene-d5		%		23-120		"	"	"	"	S-06
Surrogate: 2-Fluorobiphenyl		%		30-115		"	"	"	"	S-06
Surrogate: Terphenyl-d14		%		18-137		"	"	"	"	S-06

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
SB7-5 (0504072-26) Soil Sampled: 04/04/05 12:13 Received: 04/04/05 14:15										
Acenaphthene	ND	33		mg/kg	100	B5D0623	04/06/05	04/07/05	EPA 8270C	D-34
Acenaphthylene	ND	33		"	"	"	"	"	"	D-34
Anthracene	ND	33		"	"	"	"	"	"	D-34
Benzo (a) anthracene	ND	33		"	"	"	"	"	"	D-34
Benzo (b) fluoranthene	ND	33		"	"	"	"	"	"	D-34
Benzo (k) fluoranthene	ND	33		"	"	"	"	"	"	D-34
Benzo (a) pyrene	ND	33		"	"	"	"	"	"	D-34
Benzo (g,h,i) perylene	ND	33		"	"	"	"	"	"	D-34
Chrysene	ND	33		"	"	"	"	"	"	D-34
Dibenz (a,h) anthracene	ND	33		"	"	"	"	"	"	D-34
Dibenzofuran	ND	33		"	"	"	"	"	"	D-34
Fluoranthene	ND	33		"	"	"	"	"	"	D-34
Fluorene	ND	33		"	"	"	"	"	"	D-34
Indeno (1,2,3-cd) pyrene	ND	33		"	"	"	"	"	"	D-34
2-Methylnaphthalene	ND	33		"	"	"	"	"	"	D-34
Naphthalene	ND	33		"	"	"	"	"	"	D-34
Phenanthrene	ND	33		"	"	"	"	"	"	D-34
Pyrene	ND	33		"	"	"	"	"	"	D-34
Surrogate: Nitrobenzene-d5		%		23-120		"	"	"	"	S-06
Surrogate: 2-Fluorobiphenyl		%		30-115		"	"	"	"	S-06
Surrogate: Terphenyl-d14		%		18-137		"	"	"	"	S-06

SB7-10 (0504072-27) Soil Sampled: 04/04/05 12:17 Received: 04/04/05 14:15

Acenaphthene	ND	33		mg/kg	100	B5D0623	04/06/05	04/07/05	EPA 8270C	D-34
Acenaphthylene	ND	33		"	"	"	"	"	"	D-34
Anthracene	ND	33		"	"	"	"	"	"	D-34
Benzo (a) anthracene	ND	33		"	"	"	"	"	"	D-34
Benzo (b) fluoranthene	ND	33		"	"	"	"	"	"	D-34
Benzo (k) fluoranthene	ND	33		"	"	"	"	"	"	D-34
Benzo (a) pyrene	ND	33		"	"	"	"	"	"	D-34
Benzo (g,h,i) perylene	ND	33		"	"	"	"	"	"	D-34
Chrysene	ND	33		"	"	"	"	"	"	D-34
Dibenz (a,h) anthracene	ND	33		"	"	"	"	"	"	D-34
Dibenzofuran	ND	33		"	"	"	"	"	"	D-34
Fluoranthene	ND	33		"	"	"	"	"	"	D-34
Fluorene	ND	33		"	"	"	"	"	"	D-34
Indeno (1,2,3-cd) pyrene	ND	33		"	"	"	"	"	"	D-34
2-Methylnaphthalene	ND	33		"	"	"	"	"	"	D-34
Naphthalene	ND	33		"	"	"	"	"	"	D-34
Phenanthrene	ND	33		"	"	"	"	"	"	D-34
Pyrene	ND	33		"	"	"	"	"	"	D-34

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB7-10 (0504072-27) Soil Sampled: 04/04/05 12:17 Received: 04/04/05 14:15									
Surrogate: Nitrobenzene-d5		%	23-120		B5D0623	04/06/05	04/07/05	EPA 8270C	S-06
Surrogate: 2-Fluorobiphenyl		%	30-115		"	"	"	"	S-06
Surrogate: Terphenyl-d14		%	18-137		"	"	"	"	S-06
SB8-5 (0504072-30) Soil Sampled: 04/04/05 12:42 Received: 04/04/05 14:15									
Acenaphthene	ND	0.33	mg/kg	1	B5D0623	04/06/05	04/07/05	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		98.5 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		73.0 %	30-115		"	"	"	"	
Surrogate: Terphenyl-d14		50.5 %	18-137		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
SB8-10 (0504072-31) Soil Sampled: 04/04/05 12:44 Received: 04/04/05 14:15									
Acenaphthene	ND	0.33	mg/kg	1	B5D0623	04/06/05	04/07/05	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.33	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.33	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.33	"	"	"	"	"	"	
Dibenzofuran	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.33	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		61.0 %		23-120	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		75.4 %		30-115	"	"	"	"	
<i>Surrogate: Terphenyl-d14</i>		84.4 %		18-137	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B5D0708 - EPA 3050B

Blank (B5D0708-BLK1)

Prepared: 04/07/05 Analyzed: 04/08/05

Antimony	ND	1.6	mg/kg							
Arsenic	ND	1.7	"							
Barium	ND	3.3	"							
Beryllium	ND	0.75	"							
Cadmium	ND	0.51	"							
Chromium	ND	0.98	"							
Cobalt	ND	2.2	"							
Copper	ND	2.2	"							
Lead	ND	1.3	"							
Molybdenum	ND	1.7	"							
Nickel	ND	0.79	"							
Selenium	ND	1.9	"							
Silver	ND	0.80	"							
Thallium	ND	1.5	"							
Vanadium	ND	0.73	"							
Zinc	ND	1.3	"							

LCS (B5D0708-BS1)

Prepared: 04/07/05 Analyzed: 04/08/05

Antimony	101	1.6	mg/kg	100	101	75-125
Arsenic	93.0	1.7	"	100	93.0	78-122
Barium	93.2	3.3	"	100	93.2	80-120
Beryllium	92.8	0.75	"	100	92.8	80-120
Cadmium	92.3	0.51	"	100	92.3	80-120
Chromium	97.9	0.98	"	100	97.9	80-120
Cobalt	93.7	2.2	"	100	93.7	80-120
Copper	93.5	2.2	"	100	93.5	78-122
Lead	95.9	1.3	"	100	95.9	80-120
Molybdenum	96.6	1.7	"	100	96.6	80-120
Nickel	94.6	0.79	"	100	94.6	80-120
Selenium	91.1	1.9	"	100	91.1	76-124
Silver	90.7	0.80	"	100	90.7	60-140
Thallium	88.3	1.5	"	100	88.3	80-120
Vanadium	94.6	0.73	"	100	94.6	80-120
Zinc	91.7	1.3	"	100	91.7	78-122

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch BSD0708 - EPA 3050B

LCS Dup (B5D0708-BSD1)

Prepared: 04/07/05 Analyzed: 04/08/05

Antimony	101	1.6	mg/kg	100		101	75-125	0.00	20	
Arsenic	94.2	1.7	"	100		94.2	78-122	1.28	20	
Barium	95.2	3.3	"	100		95.2	80-120	2.12	20	
Beryllium	91.6	0.75	"	100		91.6	80-120	1.30	20	
Cadmium	92.1	0.51	"	100		92.1	80-120	0.217	20	
Chromium	99.9	0.98	"	100		99.9	80-120	2.02	20	
Cobalt	93.1	2.2	"	100		93.1	80-120	0.642	20	
Copper	95.7	2.2	"	100		95.7	78-122	2.33	20	
Lead	97.7	1.3	"	100		97.7	80-120	1.86	20	
Molybdenum	97.3	1.7	"	100		97.3	80-120	0.722	20	
Nickel	95.5	0.79	"	100		95.5	80-120	0.947	20	
Selenium	92.3	1.9	"	100		92.3	76-124	1.31	20	
Silver	95.8	0.80	"	100		95.8	60-140	5.47	40	
Thallium	89.1	1.5	"	100		89.1	80-120	0.902	20	
Vanadium	96.8	0.73	"	100		96.8	80-120	2.30	20	
Zinc	94.3	1.3	"	100		94.3	78-122	2.80	20	

Matrix Spike (B5D0708-MS1)

Source: 0504072-01

Prepared: 04/07/05 Analyzed: 04/08/05

Antimony	30.8	1.6	mg/kg	93.1	ND	33.1	60-140			QM-07
Arsenic	102	1.7	"	93.1	8.6	100	70-130			
Barium	259	3.3	"	93.1	170	95.6	70-130			
Beryllium	92.7	0.75	"	93.1	0.67	98.9	70-130			
Cadmium	91.8	0.51	"	93.1	ND	98.6	70-130			
Chromium	124	0.98	"	93.1	30	101	70-130			
Cobalt	98.3	2.2	"	93.1	12	92.7	70-130			
Copper	113	2.2	"	93.1	23	96.7	70-130			
Lead	110	1.3	"	93.1	15	102	70-130			
Molybdenum	90.8	1.7	"	93.1	1.3	96.1	70-130			
Nickel	106	0.79	"	93.1	19	93.4	70-130			
Selenium	92.9	1.9	"	93.1	0.65	99.1	70-130			
Silver	81.0	0.80	"	93.1	ND	87.0	60-140			
Thallium	82.6	1.5	"	93.1	ND	88.7	70-130			
Vanadium	149	0.73	"	93.1	53	103	70-130			
Zinc	164	1.3	"	93.1	71	99.9	70-130			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
738 Ashland Avenue
Santa Monica CA, 90405

Project: City of Signal Hill
Project Number: Las Brisas
Project Manager: Susan Mearns

Reported:
04/12/05 14:01

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B5D0708 - EPA 3050B

Matrix Spike Dup (B5D0708-MSD1)

Source: 0504072-01

Prepared: 04/07/05

Analyzed: 04/08/05

Antimony	32.4	1.6	mg/kg	93.0	ND	34.8	60-140	5.06	20	QM-07
Arsenic	103	1.7	"	93.0	8.6	102	70-130	0.976	20	
Barium	262	3.3	"	93.0	170	98.9	70-130	1.15	20	
Beryllium	94.5	0.75	"	93.0	0.67	101	70-130	1.92	20	
Cadmium	93.7	0.51	"	93.0	ND	101	70-130	2.05	20	
Chromium	125	0.98	"	93.0	30	102	70-130	0.803	20	
Cobalt	98.9	2.2	"	93.0	12	93.4	70-130	0.609	20	
Copper	113	2.2	"	93.0	23	96.8	70-130	0.00	20	
Lead	107	1.3	"	93.0	15	98.9	70-130	2.76	20	
Molybdenum	93.9	1.7	"	93.0	1.3	99.6	70-130	3.36	20	
Nickel	108	0.79	"	93.0	19	95.7	70-130	1.87	20	
Selenium	94.9	1.9	"	93.0	0.65	101	70-130	2.13	20	
Silver	74.0	0.80	"	93.0	ND	79.6	60-140	9.03	40	
Thallium	85.2	1.5	"	93.0	ND	91.6	70-130	3.10	20	
Vanadium	149	0.73	"	93.0	53	103	70-130	0.00	20	
Zinc	167	1.3	"	93.0	71	103	70-130	1.81	20	

Batch B5D0709 - EPA 3050B

Blank (B5D0709-BLK1)

Prepared: 04/07/05 Analyzed: 04/08/05

Antimony	ND	1.6	mg/kg
Arsenic	ND	1.7	"
Barium	ND	3.3	"
Beryllium	ND	0.75	"
Cadmium	ND	0.51	"
Chromium	ND	0.98	"
Cobalt	ND	2.2	"
Copper	ND	2.2	"
Lead	ND	1.3	"
Molybdenum	ND	1.7	"
Nickel	ND	0.79	"
Selenium	ND	1.9	"
Silver	ND	0.80	"
Thallium	ND	1.5	"
Vanadium	ND	0.73	"
Zinc	ND	1.3	"

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B5D0709 - EPA 3050B

LCS (B5D0709-BS1)

Prepared: 04/07/05 Analyzed: 04/08/05

Antimony	98.3	1.6	mg/kg	100		98.3	75-125			
Arsenic	92.2	1.7	"	100		92.2	78-122			
Barium	91.2	3.3	"	100		91.2	80-120			
Beryllium	90.2	0.75	"	100		90.2	80-120			
Cadmium	90.6	0.51	"	100		90.6	80-120			
Chromium	96.2	0.98	"	100		96.2	80-120			
Cobalt	92.1	2.2	"	100		92.1	80-120			
Copper	89.3	2.2	"	100		89.3	78-122			
Lead	94.6	1.3	"	100		94.6	80-120			
Molybdenum	90.6	1.7	"	100		90.6	80-120			
Nickel	93.5	0.79	"	100		93.5	80-120			
Selenium	88.7	1.9	"	100		88.7	76-124			
Silver	45.8	0.80	"	100		45.8	60-140			QM-08
Thallium	84.4	1.5	"	100		84.4	80-120			
Vanadium	92.5	0.73	"	100		92.5	80-120			
Zinc	89.9	1.3	"	100		89.9	78-122			

LCS Dup (B5D0709-BSD1)

Prepared: 04/07/05 Analyzed: 04/08/05

Antimony	101	1.6	mg/kg	100		101	75-125	2.71	20	
Arsenic	90.5	1.7	"	100		90.5	78-122	1.86	20	
Barium	92.4	3.3	"	100		92.4	80-120	1.31	20	
Beryllium	91.4	0.75	"	100		91.4	80-120	1.32	20	
Cadmium	90.1	0.51	"	100		90.1	80-120	0.553	20	
Chromium	97.5	0.98	"	100		97.5	80-120	1.34	20	
Cobalt	91.5	2.2	"	100		91.5	80-120	0.654	20	
Copper	91.1	2.2	"	100		91.1	78-122	2.00	20	
Lead	95.6	1.3	"	100		95.6	80-120	1.05	20	
Molybdenum	95.3	1.7	"	100		95.3	80-120	5.06	20	
Nickel	94.5	0.79	"	100		94.5	80-120	1.06	20	
Selenium	89.8	1.9	"	100		89.8	76-124	1.23	20	
Silver	41.0	0.80	"	100		41.0	60-140	11.1	40	QM-08
Thallium	85.4	1.5	"	100		85.4	80-120	1.18	20	
Vanadium	94.3	0.73	"	100		94.3	80-120	1.93	20	
Zinc	91.6	1.3	"	100		91.6	78-122	1.87	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch BSD0709 - EPA 3050B

Matrix Spike (BSD0709-MS1)	Source: 0504072-21			Prepared: 04/07/05		Analyzed: 04/11/05				
Antimony	51.1	1.6	mg/kg	95.9	0.74	52.5	60-140			QM-07
Arsenic	99.4	1.7	"	95.9	2.7	101	70-130			
Barium	181	3.3	"	95.9	83	102	70-130			
Beryllium	102	0.75	"	95.9	0.26	106	70-130			
Cadmium	92.5	0.51	"	95.9	ND	96.5	70-130			
Chromium	115	0.98	"	95.9	30	88.6	70-130			
Cobalt	88.3	2.2	"	95.9	3.2	88.7	70-130			
Copper	195	2.2	"	95.9	95	104	70-130			
Lead	96.7	1.3	"	95.9	6.0	94.6	70-130			
Molybdenum	106	1.7	"	95.9	4.4	106	70-130			
Nickel	93.5	0.79	"	95.9	6.4	90.8	70-130			
Selenium	94.7	1.9	"	95.9	ND	98.7	70-130			
Silver	23.2	0.80	"	95.9	ND	24.2	60-140			QM-08
Thallium	84.3	1.5	"	95.9	ND	87.9	70-130			
Vanadium	118	0.73	"	95.9	20	102	70-130			
Zinc	178	1.3	"	95.9	89	92.8	70-130			

Matrix Spike Dup (BSD0709-MSD1)	Source: 0504072-21			Prepared: 04/07/05		Analyzed: 04/11/05				
Antimony	50.0	1.6	mg/kg	93.0	0.74	53.0	60-140	2.18	20	QM-07
Arsenic	99.5	1.7	"	93.0	2.7	104	70-130	0.101	20	
Barium	181	3.3	"	93.0	83	105	70-130	0.00	20	
Beryllium	101	0.75	"	93.0	0.26	108	70-130	0.985	20	
Cadmium	91.9	0.51	"	93.0	ND	98.8	70-130	0.651	20	
Chromium	119	0.98	"	93.0	30	95.7	70-130	3.42	20	
Cobalt	88.1	2.2	"	93.0	3.2	91.3	70-130	0.227	20	
Copper	191	2.2	"	93.0	95	103	70-130	2.07	20	
Lead	96.2	1.3	"	93.0	6.0	97.0	70-130	0.518	20	
Molybdenum	105	1.7	"	93.0	4.4	108	70-130	0.948	20	
Nickel	93.9	0.79	"	93.0	6.4	94.1	70-130	0.427	20	
Selenium	94.1	1.9	"	93.0	ND	101	70-130	0.636	20	
Silver	38.0	0.80	"	93.0	ND	40.9	60-140	48.4	40	QM-08
Thallium	82.4	1.5	"	93.0	ND	88.6	70-130	2.28	20	
Vanadium	118	0.73	"	93.0	20	105	70-130	0.00	20	
Zinc	178	1.3	"	93.0	89	95.7	70-130	0.00	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Metals by EPA 6000/7000 Series Methods - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B5D0710 - EPA 7471A

Blank (B5D0710-BLK1)				Prepared: 04/07/05 Analyzed: 04/08/05						
Mercury	ND	0.18	mg/kg							
LCS (B5D0710-BS1)				Prepared: 04/07/05 Analyzed: 04/08/05						
Mercury	0.19	0.18	mg/kg	0.167		114	70-130			
Matrix Spike (B5D0710-MS1)				Source: 0504072-01 Prepared: 04/07/05 Analyzed: 04/08/05						
Mercury	0.23	0.18	mg/kg	0.167	0.05	108	70-130			
Matrix Spike Dup (B5D0710-MSD1)				Source: 0504072-01 Prepared: 04/07/05 Analyzed: 04/08/05						
Mercury	0.22	0.18	mg/kg	0.156	0.05	109	70-130	4.44	25	

Batch B5D0711 - EPA 7471A

Blank (B5D0711-BLK1)				Prepared: 04/07/05 Analyzed: 04/08/05						
Mercury	ND	0.18	mg/kg							
LCS (B5D0711-BS1)				Prepared: 04/07/05 Analyzed: 04/08/05						
Mercury	0.20	0.18	mg/kg	0.167		120	70-130			
Matrix Spike (B5D0711-MS1)				Source: 0504072-21 Prepared: 04/07/05 Analyzed: 04/08/05						
Mercury	0.21	0.18	mg/kg	0.154	0.02	123	70-130			
Matrix Spike Dup (B5D0711-MSD1)				Source: 0504072-21 Prepared: 04/07/05 Analyzed: 04/08/05						
Mercury	0.22	0.18	mg/kg	0.156	0.02	128	70-130	4.65	25	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B5D1001 - EPA 3550B Solid Ext

Blank (B5D1001-BLK1)

Prepared & Analyzed: 04/10/05

HC < C8	ND	1.0	mg/kg							
C8 <= HC < C9	ND	1.0	"							
C9 <= HC < C10	ND	1.0	"							
C10 <= HC < C11	ND	1.0	"							
C11 <= HC < C12	ND	1.0	"							
C12 <= HC < C14	ND	1.0	"							
C14 <= HC < C16	ND	1.0	"							
C16 <= HC < C18	ND	1.0	"							
C18 <= HC < C20	ND	1.0	"							
C20 <= HC < C24	ND	1.0	"							
C24 <= HC < C28	ND	1.0	"							
C28 <= HC < C32	ND	1.0	"							
HC >= C32	ND	1.0	"							
Total Petroleum Hydrocarbons (C7-C36)	ND	5.0	"							

Surrogate: *o*-Terphenyl 5.70 " 7.50 76.0 50-150

LCS (B5D1001-BS1)

Prepared & Analyzed: 04/10/05

Diesel Range Organics (C10-C24)	120	5.0	mg/kg	100		120	80-120			
---------------------------------	-----	-----	-------	-----	--	-----	--------	--	--	--

Matrix Spike (B5D1001-MS1)

Source: 0504093-06

Prepared & Analyzed: 04/10/05

Diesel Range Organics (C10-C24)	124	5.0	mg/kg	100	ND	124	50-150			
---------------------------------	-----	-----	-------	-----	----	-----	--------	--	--	--

Matrix Spike Dup (B5D1001-MSD1)

Source: 0504093-06

Prepared & Analyzed: 04/10/05

Diesel Range Organics (C10-C24)	136	5.0	mg/kg	100	ND	136	50-150	9.23	30	
---------------------------------	-----	-----	-------	-----	----	-----	--------	------	----	--

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B5D0712 - EPA 5035 P & T

Blank (B5D0712-BLK1)

Prepared & Analyzed: 04/06/05

Benzene	ND	5.0	µg/kg							
Bromobenzene	ND	5.0	"							
Bromochloromethane	ND	5.0	"							
Bromodichloromethane	ND	5.0	"							
Bromoform	ND	5.0	"							
Bromomethane	ND	5.0	"							
n-Butylbenzene	ND	5.0	"							
sec-Butylbenzene	ND	5.0	"							
tert-Butylbenzene	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	5.0	"							
2-Chlorotoluene	ND	5.0	"							
4-Chlorotoluene	ND	5.0	"							
Dibromochloromethane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Dibromomethane	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
Dichlorodifluoromethane	ND	5.0	"							
1,1-Dichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
1,1-Dichloroethene	ND	5.0	"							
cis-1,2-Dichloroethene	ND	5.0	"							
trans-1,2-Dichloroethene	ND	5.0	"							
1,2-Dichloropropane	ND	5.0	"							
1,3-Dichloropropane	ND	5.0	"							
2,2-Dichloropropane	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
cis-1,3-Dichloropropene	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
738 Ashland Avenue
Santa Monica CA, 90405

Project: City of Signal Hill
Project Number: Las Brisas
Project Manager: Susan Mearns

Reported:
04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B5D0712 - EPA 5035 P & T

Blank (B5D0712-BLK1)

Prepared & Analyzed: 04/06/05

Isopropylbenzene	ND	5.0	µg/kg							
p-Isopropyltoluene	ND	5.0	"							
Methylene chloride	ND	5.0	"							
Methyl tert-butyl ether	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
Toluene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
m,p-Xylene	ND	5.0	"							
o-Xylene	ND	5.0	"							
<i>Surrogate: Dibromofluoromethane</i>	50.4		"	50.0		101	80-120			
<i>Surrogate: Toluene-d8</i>	48.6		"	50.0		97.2	81-117			
<i>Surrogate: 4-Bromofluorobenzene</i>	46.9		"	50.0		93.8	74-121			

LCS (B5D0712-BS1)

Prepared & Analyzed: 04/06/05

Benzene	47.3	5.0	µg/kg	50.0		94.6	80-120			
Chlorobenzene	52.1	5.0	"	50.0		104	80-120			
1,1-Dichloroethene	42.2	5.0	"	50.0		84.4	80-120			
Toluene	46.3	5.0	"	50.0		92.6	80-120			
Trichloroethene	52.5	5.0	"	50.0		105	80-120			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B5D0712 - EPA 5035 P & T

Matrix Spike (B5D0712-MS1)

Source: 0504072-02

Prepared & Analyzed: 04/06/05

Benzene	47.0	5.0	µg/kg	50.0	ND	94.0	37-151			
Chlorobenzene	52.2	5.0	"	50.0	ND	104	37-160			
1,1-Dichloroethene	40.2	5.0	"	50.0	ND	80.4	50-150			
Toluene	46.2	5.0	"	50.0	ND	92.4	47-150			
Trichloroethene	50.8	5.0	"	50.0	ND	102	71-157			

Matrix Spike Dup (B5D0712-MSD1)

Source: 0504072-02

Prepared & Analyzed: 04/06/05

Benzene	46.6	5.0	µg/kg	50.0	ND	93.2	37-151	0.855	30	
Chlorobenzene	51.9	5.0	"	50.0	ND	104	37-160	0.576	30	
1,1-Dichloroethene	40.5	5.0	"	50.0	ND	81.0	50-150	0.743	30	
Toluene	45.7	5.0	"	50.0	ND	91.4	47-150	1.09	30	
Trichloroethene	50.5	5.0	"	50.0	ND	101	71-157	0.592	30	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B5D0623 - EPA 3550B Solid Ext

Blank (B5D0623-BLK1)

Prepared: 04/06/05 Analyzed: 04/07/05

Acenaphthene	ND	0.33	mg/kg							
Acenaphthylene	ND	0.33	"							
Anthracene	ND	0.33	"							
Benzo (a) anthracene	ND	0.33	"							
Benzo (b) fluoranthene	ND	0.33	"							
Benzo (k) fluoranthene	ND	0.33	"							
Benzo (a) pyrene	ND	0.33	"							
Benzo (g,h,i) perylene	ND	0.33	"							
Chrysene	ND	0.33	"							
Dibenz (a,h) anthracene	ND	0.33	"							
Dibenzofuran	ND	0.33	"							
Fluoranthene	ND	0.33	"							
Fluorene	ND	0.33	"							
Indeno (1,2,3-cd) pyrene	ND	0.33	"							
2-Methylnaphthalene	ND	0.33	"							
Naphthalene	ND	0.33	"							
Phenanthrene	ND	0.33	"							
Pyrene	ND	0.33	"							
Surrogate: Nitrobenzene-d5	0.230		"	0.333		69.1	23-120			
Surrogate: 2-Fluorobiphenyl	0.264		"	0.333		79.3	30-115			
Surrogate: Terphenyl-d14	0.308		"	0.333		92.5	18-137			

LCS (B5D0623-BS1)

Prepared: 04/06/05 Analyzed: 04/07/05

Acenaphthene	0.222	0.33	mg/kg	0.333		66.7	47-145			
Pyrene	0.303	0.33	"	0.333		91.0	52-115			

LCS (B5D0623-BS2)

Prepared: 04/06/05 Analyzed: 04/07/05

Acenaphthene	0.275	0.33	mg/kg	0.333		82.6	47-145			
Pyrene	0.270	0.33	"	0.333		81.1	52-115			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
 738 Ashland Avenue
 Santa Monica CA, 90405

Project: City of Signal Hill
 Project Number: Las Brisas
 Project Manager: Susan Mearns

Reported:
 04/12/05 14:01

Polynuclear Aromatic Hydrocarbons (GC/MS) by EPA 8270C - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B5D0623 - EPA 3550B Solid Ext

LCS Dup (B5D0623-BSD1)

Prepared: 04/06/05 Analyzed: 04/07/05

Acenaphthene	0.300	0.33	mg/kg	0.333		90.1	47-145	29.9	30	
Pyrene	0.233	0.33	"	0.333		70.0	52-115	26.1	30	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Mearns Consulting Corporation
738 Ashland Avenue
Santa Monica CA, 90405

Project: City of Signal Hill
Project Number: Las Brisas
Project Manager: Susan Mearns

Reported:
04/12/05 14:01

Notes and Definitions

- D-34 Sample diluted due to high levels of petroleum hydrocarbons.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QM-08 Spike recovery outside acceptable range for LCS due to low solubility in the presence of Hydrochloric Acid.
- S-06 Surrogate recovery outside of control limits due to sample dilution. Sample diluted due to high levels of petroleum hydrocarbons and/or matrix interference.
- S-07 Surrogate recovery outside of control limits due to coelution with high levels of petroleum hydrocarbons.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

APPENDIX C

Boring Logs

Boring Location	SB-1	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/3/17
Type of Perforation Backfill	NA	Completion Date	1/3/17
Type of Seal	NA	Date Developed and Sampled	NA
		Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	CLAY: Dk gry-brn, silty, moist medium plasticity		CL	NA	NA	SB1-5	4.5-5.0'	Mod Odor Mod Staining
6								
7								
8								
9								
10	CLAY: Dk gry, moist Medium plasticity		CL	NA	NA	SB1-10	9.5-10.0	Mod Odor Mod Staining
11								
12								
13								
14								
15								
16								

ENVIRONMENTAL CONSULTING AND CONSTRUCTION, CORP.	BORING LOGSB-1 Amerigas 2851 Orange Ave. Signal Hill CA		
	Project Number	Date 1/3/17	PM SRF
			Page 1 of 1

Boring Location	SB-2	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/3/17
Type of Perforation Backfill	NA	Completion Date	1/3/17
Type of Seal	NA	Date Developed and Sampled	NA
		Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	CLAY: Dk gry-brn, silty, moist medium plasticity	[Hatched Pattern]	CL	NA	NA	SB2-5	4.5-5.0'	Mod Odor MS Staining
6								
7								
8								
9								
10	CLAY: Dk gry, silty, medium plasticity	[Hatched Pattern]	CL	NA	NA	SB2-10	9.5-10.0	Mod Odor Mod Staining
11								
12								
13								
14								
15								
16								

ENVIRONMENTAL CONSULTING AND CONSTRUCTION, CORP.	BORING LOG SB-2 Amerigas 2851 Orange Ave. Signal Hill CA		
	Project Number	Date 1/3/17	PM SRF
			Page 1 of 1

Boring Location	SB-3	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/3/17
Type of Perforation Backfill	NA	Completion Date	1/3/17
Type of Seal	NA	Date Developed and Sampled	NA
		Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	CLAY: Dk gry-blk silty, medium plasticity		CL	NA	NA	SB3-5	4.5-5.0'	Mod Odor Dk Staining
6								
7								
8								
9								
10	CLAY: Dk gry. silty. medium placticity		CL	NA	NA	SB3-10	9.5-10.0	Mod Odor Mod Staining
11								
12								
13								
14								
15								
16								

ENVIRONMENTAL CONSULTING AND CONSTRUCTION, CORP.

BORING LOG SB-3
Amerigas
2851 Orange Ave.
Signal Hill CA

Project Number _____ Date **1/3/17** PM **SRF** Page 1 of 1

Boring Location	SB-4	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/3/17
		Completion Date	1/3/17
Type of Perforation Backfill	NA	Date Developed and Sampled	NA
Type of Seal	NA	Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	SAND: Lt gry, v fn, uniform		SP	NA	NA	SB4-5	4.5-5.0'	No Odor No Staining
6								
7								
8								
9								
10	SAND: Lt gry, v fn, uniform		SP	NA	NA	SB4-10	9.5-10.0	No Odor No Staining
11								
12								
13								
14								
15								
16								

**ENVIRONMENTAL
CONSULTING AND
CONSTRUCTION, CORP.**

**BORING LOG SB-4
Amerigas
2851 Orange Ave.
Signal Hill CA**

Project Number _____ Date **1/3/17** PM **SRF** Page 1 of 1

Boring Location	SB-5	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/3/17
Type of Perforation Backfill	NA	Completion Date	1/3/17
Type of Seal	NA	Date Developed and Sampled	NA
		Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	SAND: Lt gry, v fn, uniform		SP	NA	NA	SB5-5	4.5-5.0'	V Slt Odor No Staining
6								
7								
8								
9								
10	SILT: Lt gry, uniform		ML	NA	NA	SB5-10	9.5-10.0	No Odor No Staining
11								
12								
13								
14								
15								
16								

**ENVIRONMENTAL
CONSULTING AND
CONSTRUCTION, CORP.**

**BORING LOG SB-5
Amerigas
2851 Orange Ave.
Signal Hill CA**

Project Number _____ Date **1/3/17** PM **SRF** Page 1 of 1

Boring Location	SB-6	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/3/17
		Completion Date	1/3/17
Type of Perforation Backfill	NA	Date Developed and Sampled	NA
Type of Seal	NA	Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	SAND: Lt gry, v fn, uniform		SP	NA	NA	SB6-5	4.5-5.0'	No Odor No Staining
6								
7								
8								
9								
10	SAND: Lt gry, v fn, uniform		SP	NA	NA	SB6-10	9.5-10.0	No Odor No Staining
11								
12								
13								
14								
15								
16								

ENVIRONMENTAL CONSULTING AND CONSTRUCTION, CORP.	BORING LOG SB-6 Amerigas 2851 Orange Ave. Signal Hill CA		
	Project Number	Date 1/3/17	Page 1 of 1

Boring Location	SB-7	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/3/17
Type of Perforation Backfill	NA	Completion Date	1/3/17
Type of Seal	NA	Date Developed and Sampled	NA
		Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	CLAY: Gry, Firm, modium Plastic		CL	NA	NA	SB7-5	4.5-5.0'	V SLT Odor No Staining
6								
7								
8								
9								
10	CLAY: Dk G\gry, firm, medium plastic		CL	NA	NA	SBZ-10	9.5-10.0	V SLT Odor SLT Staining
11								
12								
13								
14								
15								
16								

**ENVIRONMENTAL
CONSULTING AND
CONSTRUCTION, CORP.**

**BORING LOGSB-7
Amerigas
2851 Orange Ave.
Signal Hill CA**

Project Number _____ Date **1/3/17** PM **SRF** Page 1 of 1

Boring Location	SB-8	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/4/17
		Completion Date	1/4/17
Type of Perforation Backfill	NA	Date Developed and Sampled	NA
Type of Seal	NA	Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA			SAMPLE DATA		REMARKS	
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER		SAMPLE INTERVAL
0								
1								
2								
3								
4								
5	SILT: Tan, uniform		ML	NA	NA	SB8-5	4.5-5.0'	No Odor No Staining
6								
7								
8								
9								
10	SILT: Tan uniform		ML	NA	NA	SB8-10	9.5-10.0	NoOdor No Staining
11								
12								
13								
14								
15								
16								

**ENVIRONMENTAL
CONSULTING AND
CONSTRUCTION, CORP.**

BORING LOGSB-8
 Amerigas
 2851 Orange Ave.
 Signal Hill CA

Project Number _____ Date **1/3/17** PM **SRF** Page 1 of 1

Boring Location	SB-9	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/4/17
		Completion Date	1/4/17
Type of Perforation Backfill	NA	Date Developed and Sampled	NA
Type of Seal	NA	Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA			SAMPLE DATA		REMARKS	
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER		SAMPLE INTERVAL
0								
1								
2								
3								
4								
5	SAND: Tan, v fn, uniform		SP	NA	NA	SB9-5	4.5-5.0'	No Odor No Staining
6								
7								
8								
9								
10	SAND: Brn. silty clayey		SW	NA	NA	SB9-10	9.5-10.0	NoOdor No Staining
11								
12								
13								
14								
15								
16								

**ENVIRONMENTAL
CONSULTING AND
CONSTRUCTION, CORP.**

BORING LOG SB-9
Amerigas
2851 Orange Ave.
Signal Hill CA

Project Number

Date
1/3/17

PM
SRF

Page
1 of 1

Boring Location	SB-10	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/4/17
		Completion Date	1/4/17
Type of Perforation Backfill	NA	Date Developed and Sampled	NA
Type of Seal	NA	Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	CLAY: Gry-Dk gry, sandy		CL	NA	NA	SB10-5	4.5-5.0'	Mod Odor Mod Staining
6								
7								
8								
9								
10	SAND: Gry, V fn-fn		SP	NA	NA	SB10-10	9.5-10.0	Slt Odor No Staining
11								
12								
13								
14								
15								
16								

**ENVIRONMENTAL
CONSULTING AND
CONSTRUCTION, CORP.**

**BORING LOG SB-10
Amerigas
2851 Orange Ave.
Signal Hill CA**

Project Number

Date
1/3/17

PM
SRF

Page
1 of 1

Boring Location	SB-11	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/4/17
		Completion Date	1/4/17
Type of Perforation Backfill	NA	Date Developed and Sampled	NA
Type of Seal	NA	Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA			SAMPLE DATA		REMARKS	
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER		SAMPLE INTERVAL
0								
1								
2								
3								
4								
5	CLAY: Gry-Dk gry, sandy		CL	NA	NA	SB11-5	4.5-5.0'	No Odor No Staining
6								
7								
8								
9								
10	GRAVEL: Lt brn, sandy, clayey		GW	NA	NA	SB11-10	9.5-10.0	Slt Odor No Staining
11								
12								
13								
14								
15								
16								

**ENVIRONMENTAL
CONSULTING AND
CONSTRUCTION, CORP.**

**BORING LOG SB-11
Amerigas
2851 Orange Ave.
Signal Hill CA**

Project Number _____ Date **1/3/17** PM **SRF** Page **1 of 1**

Boring Location	SB-12	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/4/17
		Completion Date	1/4/17
Type of Perforation Backfill	NA	Date Developed and Sampled	NA
Type of Seal	NA	Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	CLAY: Gry-Dk gry, sandy		CL	NA	NA	SB12-5	4.5-5.0'	No Odor No Staining
6								
7								
8								
9								
10	GLAY: Gry, silty, medium plasticity		CI	NA	NA	SB12-10	9.5-10.0	V Slt Odor No Staining
11								
12								
13								
14								
15								
16								

ENVIRONMENTAL CONSULTING AND CONSTRUCTION, CORP.	BORING LOGSB-12		
	Amerigas 2851 Orange Ave. Signal Hill CA		
Project Number	Date	PM	Page
	1/3/17	SRF	1 of 1

Boring Location	SB-13	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/4/17
Type of Perforation Backfill	NA	Completion Date	1/4/17
Type of Seal	NA	Date Developed and Sampled	NA
		Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	CLAY: Gry-brn, firm, silty, firm plasticity		CL	NA	NA	SB13-5	4.5-5.0'	No Odor No Staining
6								
7								
8								
9								
10	GLAY: Gry. silty. firm plasticity		CL	NA	NA	SB13-10	9.5-10.0	No Odor No Staining
11								
12								
13								
14								
15								
16								

**ENVIRONMENTAL
CONSULTING AND
CONSTRUCTION, CORP.**

**BORING LOG SB-13
Amerigas
2851 Orange Ave.
Signal Hill CA**

Project Number _____ Date 1/3/17 PM SRF Page 1 of 1

Boring Location	SB-14	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/4/17
Type of Perforation Backfill	NA	Completion Date	1/4/17
Type of Seal	NA	Date Developed and Sampled	NA
		Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA			SAMPLE DATA		REMARKS	
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER		SAMPLE INTERVAL
0								
1								
2								
3								
4								
5	CLAY: Gry-brn, firm, silty, firm plasticity		CL	NA	NA	SB14-5	4.5-5.0'	No Odor No Staining
6								
7								
8								
9								
10	SAND: Lt gry. v fn		SP	NA	NA	SB14-10	9.5-10.0	No Odor No Staining
11								
12								
13								
14								
15								
16								

**ENVIRONMENTAL
CONSULTING AND
CONSTRUCTION, CORP.**

BORING LOG SB-14
 Amerigas
 2851 Orange Ave.
 Signal Hill CA

Project Number	Date	PM	Page
	1/3/17	SRF	1 of 1

Boring Location	SB-15	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/4/17
Type of Perforation Backfill	NA	Completion Date	1/4/17
Type of Seal	NA	Date Developed and Sampled	NA
		Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA			SAMPLE DATA		REMARKS	
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER		SAMPLE INTERVAL
0								
1								
2								
3								
4								
5	SILT: Tan, uniform		ML	NA	NA	SB15-5	4.5-5.0'	No Odor No Staining
6								
7								
8								
9								
10	SAND: Lt gry. v fd		SP	NA	NA	SB15-10	9.5-10.0	No Odor No Staining
11								
12								
13								
14								
15								
16								

ENVIRONMENTAL CONSULTING AND CONSTRUCTION, CORP.	BORING LOG SB-15 Amerigas 2851 Orange Ave. Signal Hill CA		
	Project Number	Date 1/3/17	PM SRF
			Page 1 of 1

Boring Location	SB-17	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/4/17
Type of Perforation Backfill	NA	Completion Date	1/4/17
Type of Seal	NA	Date Developed and Sampled	NA
		Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	SAND: Tan, v fn-fn		SP	NA	NA	SB17-5	4.5-5.0'	No Odor No Staining
6								
7								
8								
9								
10	SAND: Tan, v fn-fn		SP	NA	NA	SB17-10	9.5-10.0	No Odor No Staining
11								
12								
13								
14								
15								
16								

ENVIRONMENTAL CONSULTING AND CONSTRUCTION, CORP.	BORING LOGSB-17		
	Amerigas 2851 Orange Ave. Signal Hill CA		
Project Number	Date	PM	Page
	1/3/17	SRF	1 of 1

Boring Location	SB-18	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/4/17
		Completion Date	1/4/17
Type of Perforation Backfill	NA	Date Developed and Sampled	NA
Type of Seal	NA	Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	CLAY: Tan, uniform, medium plasticity		CL	NA	NA	SB18-5	4.5-5.0'	No Odor No Staining
6								
7								
8								
9								
10	CLAY: Gry. firm, silty, low plasticity		CL	NA	NA	SB18-10	9.5-10.0	No Odor No Staining
11								
12								
13								
14								
15								
16								

ENVIRONMENTAL CONSULTING AND CONSTRUCTION, CORP.	BORING LOG SB-18 Amerigas 2851 Orange Ave. Signal Hill CA		
	Project Number	Date	Page
		1/3/17	1 of 1

Boring Location	SB-19	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/4/17
Type of Perforation Backfill	NA	Completion Date	1/4/17
Type of Seal	NA	Date Developed and Sampled	NA
		Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA			SAMPLE DATA		REMARKS	
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER		SAMPLE INTERVAL
0								
1								
2								
3								
4								
5	CLAY: Tan, silty, poor plasticity		CL	NA	NA	SB19-5	4.5-5.0'	No Odor No Staining
6								
7								
8								
9								
10	CLAY: Dk Gry. firm. silty. low plasticity		CL	NA	NA	SB19-10	9.5-10.0	No Odor No Staining
11								
12								
13								
14								
15								
16								

**ENVIRONMENTAL
CONSULTING AND
CONSTRUCTION, CORP.**

BORING LOG SB-19
Amerigas
2851 Orange Ave.
Signal Hill CA

Project Number _____ Date **1/3/17** PM **SRF** Page 1 of 1

Boring Location	SB-20	Elevation and Datum	Ground Surface
Drilling Company	Gregg Drilling	Total Depth	10'
Drilling Equipment	Marl M-25 DR	Number of Samples	2
Boring		Water Depth at Date of Installation	NA
Type of Perforation	NA	Start Date	1/4/17
Type of Perforation Backfill	NA	Completion Date	1/4/17
Type of Seal	NA	Date Developed and Sampled	NA
		Logged By	SRF
		Checked By	SRF

DEPTH (FEET)	DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		LITHOLOGY	USCS	WELL CONSTR	OVA-PPM	SAMPLE NUMBER	SAMPLE INTERVAL	
0								
1								
2								
3								
4								
5	CLAY: Dk brn, firm, poor plasticity		CL	NA	NA	SB20-5	4.5-5.0'	Slt Odor Slt Staining
6								
7								
8								
9								
10	CLAY: Dk Gry. firm, moist, low plasticity		CL	NA	NA	SB20-10	9.5-10.0	V Slt Odor V Slt Staining
11								
12								
13								
14								
15								
16								

**ENVIRONMENTAL
CONSULTING AND
CONSTRUCTION, CORP.**

**BORING LOGSB-20
Amerigas
2851 Orange Ave.
Signal Hill CA**

Project Number	Date	PM	Page
	1/3/17	SRF	1 of 1

APPENDIX D

**Jones Environmental, Inc.
Soil Vapor Analytical Results
February 16, 2017**



714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

**JONES ENVIRONMENTAL
LABORATORY RESULTS**

Client: Meams Consulting Corp
Client Address: 738 Ashland Ave
Santa Monica, CA 90405

Report date: 2/22/2017
JEL Ref. No.: E-0680

Attn: Susan L Meams, PhD

Date Sampled: 2/16/2017
Date Received: 2/16/2017

Project Name: Former AmeriGas
Project Address: 2851 Orange Ave
Long Beach, CA

Date Analyzed: 2/16/2017
Physical State: Soil Gas

ANALYSES REQUESTED

1. EPA 8260B - Volatile Organics by GC/MS + Oxygenates

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-pentane, n-hexane, or n-heptane was found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min, except when noted differently on the chain of custody record, using a glass gas-tight syringe. Purging was completed using a pump set at approximately 200 cc/min, except when noted differently on the chain of custody record. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity. All samples were injected into the GC/MS system within 30 minutes of sampling.

Approval:

Steve Jones, Ph.D.
Laboratory Manager



714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Mearns Consulting Corp
Client Address: 738 Ashland Ave
Santa Monica, CA 90405

Report date: 2/22/2017
Jones Ref. No.: E-0680

Attn: Susan L Mearns, PhD

Date Sampled: 2/16/2017
Date Received: 2/16/2017

Project: Former AmeriGas
Project Address: 2851 Orange Ave
Long Beach, CA

Date Analyzed: 2/16/2017
Physical State: Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	SV-1-5'	SV-2-5'	SV-3-5'	SV-4-5'	SV-5-5'		
<u>Jones ID:</u>	E-0680-01	E-0680-02	E-0680-03	E-0680-04	E-0680-05	<u>Practical Quantitation</u>	<u>Units</u>
<u>Analytes:</u>						<u>Limit</u>	
Benzene	ND	ND	ND	ND	ND	8.00	µg/m3
Bromobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Bromodichloromethane	ND	ND	ND	ND	ND	8.00	µg/m3
Bromoform	ND	ND	ND	ND	ND	8.00	µg/m3
n-Butylbenzene	ND	ND	ND	ND	ND	8.00	µg/m3
sec-Butylbenzene	365	ND	ND	253	68.6	8.00	µg/m3
tert-Butylbenzene	ND	ND	ND	51.2	ND	8.00	µg/m3
Carbon tetrachloride	ND	ND	ND	ND	ND	8.00	µg/m3
Chlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Chloroform	ND	ND	ND	ND	ND	8.00	µg/m3
2-Chlorotoluene	ND	ND	ND	ND	ND	8.00	µg/m3
4-Chlorotoluene	ND	ND	ND	ND	ND	8.00	µg/m3
Dibromochloromethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8.00	µg/m3
Dibromomethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1-Dichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,3-Dichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
2,2-Dichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1-Dichloropropene	ND	ND	ND	ND	ND	8.00	µg/m3

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	SV-1-5'	SV-2-5'	SV-3-5'	SV-4-5'	SV-5-5'		
<u>Jones ID:</u>	E-0680-01	E-0680-02	E-0680-03	E-0680-04	E-0680-05	<u>Practical</u> <u>Quantitation</u> <u>Limit</u>	<u>Units</u>
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8.00	µg/m3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8.00	µg/m3
Ethylbenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Freon 113	ND	ND	ND	ND	ND	40.0	µg/m3
Hexachlorobutadiene	ND	ND	ND	ND	ND	8.00	µg/m3
Isopropylbenzene	405	ND	ND	291	143	8.00	µg/m3
4-Isopropyltoluene	ND	ND	ND	15.0	67.2	8.00	µg/m3
Methylene chloride	ND	ND	ND	ND	ND	8.00	µg/m3
Naphthalene	ND	ND	ND	70.2	ND	40.00	µg/m3
n-Propylbenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Styrene	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
Tetrachloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
Toluene	220	ND	ND	ND	47.2	8.00	µg/m3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	40.0	µg/m3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
Trichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
Trichlorofluoromethane	ND	ND	87.0	13.4	10.0	8.00	µg/m3
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Vinyl chloride	ND	ND	ND	ND	ND	8.00	µg/m3
m,p-Xylene	ND	ND	ND	ND	ND	8.00	µg/m3
o-Xylene	ND	ND	ND	ND	ND	8.00	µg/m3
MTBE	ND	ND	ND	ND	ND	40.0	µg/m3
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40.0	µg/m3
Di-isopropylether	ND	ND	ND	ND	ND	40.0	µg/m3
tert-amylmethylether	ND	ND	ND	ND	ND	40.0	µg/m3
tert-Butylalcohol	ND	ND	ND	ND	ND	400	µg/m3
TIC:							
n-Pentane	ND	ND	ND	ND	ND	400	µg/m3
n-Hexane	ND	ND	ND	ND	ND	400	µg/m3
n-Heptane	ND	ND	ND	ND	ND	400	µg/m3
Dilution Factor	25	5	5	1	1		
Surrogate Recoveries:						QC Limits	
Dibromofluoromethane	98%	102%	99%	98%	101%	60 - 140	
Toluene-d8	97%	100%	99%	102%	116%	60 - 140	
4-Bromofluorobenzene	94%	98%	96%	113%	106%	60 - 140	
E1-021617-	E1-021617-	E1-021617-	E1-021617-	E1-021617-	E1-021617-		
E-0680	E-0680	E-0680	E-0680	E-0680	E-0680		

ND= Not Detected



714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Mearns Consulting Corp
Client Address: 738 Ashland Ave
Santa Monica, CA 90405

Report date: 2/22/2017
Jones Ref. No.: E-0680

Attn: Susan L Mearns, PhD

Date Sampled: 2/16/2017
Date Received: 2/16/2017

Project: Former AmeriGas
Project Address: 2851 Orange Ave
Long Beach, CA

Date Analyzed: 2/16/2017
Physical State: Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	SV-7-5'	SV-8-5'	SV-7-5' REP	SV-9-5'	SV-10-5'		
<u>Jones ID:</u>	E-0680-06	E-0680-07	E-0680-08	E-0680-09	E-0680-10	<u>Practical Quantitation Limit</u>	<u>Units</u>
Analytes:							
Benzene	ND	3060	ND	ND	ND	8.00	µg/m3
Bromobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Bromodichloromethane	ND	ND	ND	ND	ND	8.00	µg/m3
Bromoform	ND	ND	ND	ND	ND	8.00	µg/m3
n-Butylbenzene	ND	597	ND	ND	ND	8.00	µg/m3
sec-Butylbenzene	ND	2030	ND	11500	540	8.00	µg/m3
tert-Butylbenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Carbon tetrachloride	ND	ND	ND	ND	ND	8.00	µg/m3
Chlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Chloroform	ND	ND	ND	ND	ND	8.00	µg/m3
2-Chlorotoluene	ND	ND	ND	ND	ND	8.00	µg/m3
4-Chlorotoluene	ND	ND	ND	ND	ND	8.00	µg/m3
Dibromochloromethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dibromoethane (EDB)	ND	16600	ND	ND	ND	8.00	µg/m3
Dibromomethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Dichlorodifluoromethane	ND	ND	ND	ND	10.2	8.00	µg/m3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1-Dichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,3-Dichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
2,2-Dichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1-Dichloropropene	ND	ND	ND	ND	ND	8.00	µg/m3

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	SV-7-5'	SV-8-5'	SV-7-5' REP	SV-9-5'	SV-10-5'		
<u>Jones ID:</u>	E-0680-06	E-0680-07	E-0680-08	E-0680-09	E-0680-10	<u>Practical</u> <u>Quantitation</u> <u>Limit</u>	<u>Units</u>
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8.00	µg/m3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8.00	µg/m3
Ethylbenzene	ND	2490	ND	ND	ND	8.00	µg/m3
Freon 113	ND	ND	ND	ND	ND	40.0	µg/m3
Hexachlorobutadiene	ND	ND	ND	ND	ND	8.00	µg/m3
Isopropylbenzene	ND	6740	ND	10700	201	8.00	µg/m3
4-Isopropyltoluene	8.20	404	ND	ND	ND	8.00	µg/m3
Methylene chloride	ND	ND	ND	ND	ND	8.00	µg/m3
Naphthalene	ND	569	66.6	11300	1640	40.00	µg/m3
n-Propylbenzene	ND	5040	ND	8090	441	8.00	µg/m3
Styrene	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
Tetrachloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
Toluene	ND	1080	ND	ND	ND	8.00	µg/m3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	40.0	µg/m3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
Trichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
Trichlorofluoromethane	ND	ND	ND	65.4	ND	8.00	µg/m3
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Vinyl chloride	ND	ND	ND	ND	ND	8.00	µg/m3
m,p-Xylene	ND	ND	ND	ND	ND	8.00	µg/m3
o-Xylene	ND	ND	ND	ND	ND	8.00	µg/m3
MTBE	ND	ND	ND	ND	ND	40.0	µg/m3
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40.0	µg/m3
Di-isopropylether	ND	ND	ND	ND	ND	40.0	µg/m3
tert-amylmethylether	ND	ND	ND	ND	ND	40.0	µg/m3
tert-Butylalcohol	ND	ND	ND	ND	ND	400	µg/m3
TIC:							
n-Pentane	ND	ND	ND	ND	ND	400	µg/m3
n-Hexane	ND	ND	ND	ND	ND	400	µg/m3
n-Heptane	ND	ND	ND	ND	ND	400	µg/m3
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						QC Limits	
Dibromofluoromethane	98%	77%	99%	96%	101%	60 - 140	
Toluene-d8	111%	•	114%	•	99%	60 - 140	
4-Bromofluorobenzene	116%	•	118%	•	•	60 - 140	
E1-021617-	E1-021617-	E1-021617-	E1-021617-	E1-021617-	E1-021617-		
E-0680	E-0680	E-0680	E-0680	E-0680	E-0680		

ND= Not Detected

• = Heavy hydrocarbons prevented adequate surrogate recovery



714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Mearns Consulting Corp
Client Address: 738 Ashland Ave
Santa Monica, CA 90405

Report date: 2/22/2017
Jones Ref. No.: E-0680

Attn: Susan L Mearns, PhD

Date Sampled: 2/16/2017
Date Received: 2/16/2017

Project: Former AmeriGas
Project Address: 2851 Orange Ave
Long Beach, CA

Date Analyzed: 2/16/2017
Physical State: Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	SV-11-5'	SV-12-5'	SV-13-5'	SV-14-5'	SV-15-5'		
<u>Jones ID:</u>	E-0680-11	E-0680-12	E-0680-13	E-0680-14	E-0680-15	<u>Practical</u> <u>Quantitation</u>	<u>Units</u>
<u>Analytes:</u>						<u>Limit</u>	
Benzene	ND	ND	ND	ND	ND	8.00	µg/m3
Bromobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Bromodichloromethane	ND	ND	ND	ND	ND	8.00	µg/m3
Bromoform	ND	ND	ND	ND	ND	8.00	µg/m3
n-Butylbenzene	40.8	31.6	21.0	12.8	10.4	8.00	µg/m3
sec-Butylbenzene	83.8	54.8	31.6	19.2	14.2	8.00	µg/m3
tert-Butylbenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Carbon tetrachloride	ND	ND	ND	ND	ND	8.00	µg/m3
Chlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Chloroform	ND	ND	ND	24.6	ND	8.00	µg/m3
2-Chlorotoluene	ND	ND	ND	ND	ND	8.00	µg/m3
4-Chlorotoluene	ND	ND	ND	ND	ND	8.00	µg/m3
Dibromochloromethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8.00	µg/m3
Dibromomethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Dichlorodifluoromethane	10.6	ND	ND	ND	10.2	8.00	µg/m3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1-Dichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
1,2-Dichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,3-Dichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
2,2-Dichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1-Dichloropropene	ND	ND	ND	ND	ND	8.00	µg/m3

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	SV-11-5'	SV-12-5'	SV-13-5'	SV-14-5'	SV-15-5'		
<u>Jones ID:</u>	E-0680-11	E-0680-12	E-0680-13	E-0680-14	E-0680-15	<u>Practical</u> <u>Quantitation</u> <u>Limit</u>	<u>Units</u>
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8.00	µg/m3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8.00	µg/m3
Ethylbenzene	ND	ND	9.60	ND	ND	8.00	µg/m3
Freon 113	ND	ND	ND	ND	ND	40.0	µg/m3
Hexachlorobutadiene	ND	ND	ND	ND	ND	8.00	µg/m3
Isopropylbenzene	39.2	34.6	24.2	17.4	13.6	8.00	µg/m3
4-Isopropyltoluene	ND	ND	ND	ND	ND	8.00	µg/m3
Methylene chloride	ND	ND	ND	ND	ND	8.00	µg/m3
Naphthalene	504	321	184	111	81.2	40.00	µg/m3
n-Propylbenzene	101	90.6	58.8	40.4	28.6	8.00	µg/m3
Styrene	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
Tetrachloroethene	ND	11.2	12.0	10.6	11.8	8.00	µg/m3
Toluene	ND	ND	ND	12.4	ND	8.00	µg/m3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	40.0	µg/m3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8.00	µg/m3
Trichloroethene	ND	ND	ND	ND	ND	8.00	µg/m3
Trichlorofluoromethane	ND	12.6	15.6	ND	ND	8.00	µg/m3
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8.00	µg/m3
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8.00	µg/m3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8.00	µg/m3
Vinyl chloride	ND	ND	ND	ND	ND	8.00	µg/m3
m,p-Xylene	ND	ND	ND	ND	ND	8.00	µg/m3
o-Xylene	ND	ND	ND	ND	ND	8.00	µg/m3
MTBE	ND	ND	ND	ND	ND	40.0	µg/m3
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40.0	µg/m3
Di-isopropylether	ND	ND	ND	ND	ND	40.0	µg/m3
tert-amylmethylether	ND	ND	ND	ND	ND	40.0	µg/m3
tert-Butylalcohol	ND	ND	ND	ND	ND	400	µg/m3
TIC:							
n-Pentane	ND	ND	ND	ND	ND	400	µg/m3
n-Hexane	ND	ND	ND	ND	ND	400	µg/m3
n-Heptane	ND	ND	ND	ND	ND	400	µg/m3
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						QC Limits	
Dibromofluoromethane	103%	101%	100%	105%	101%	60 - 140	
Toluene-d8	101%	100%	97%	98%	99%	60 - 140	
4-Bromofluorobenzene	98%	100%	100%	98%	98%	60 - 140	
E1-021617-	E1-021617-	E1-021617-	E1-021617-	E1-021617-	E1-021617-		
E-0680	E-0680	E-0680	E-0680	E-0680	E-0680		

ND= Not Detected



714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Mearns Consulting Corp
Client Address: 738 Ashland Ave
Santa Monica, CA 90405

Report date: 2/22/2017
Jones Ref. No.: E-0680

Attn: Susan L Mearns, PhD

Date Sampled: 2/16/2017
Date Received: 2/16/2017

Project: Former AmeriGas
Project Address: 2851 Orange Ave
Long Beach, CA

Date Analyzed: 2/16/2017
Physical State: Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID: SV-17-5'

Jones ID: E-0680-16

Analytes:		Practical	Units
		Quantitation	
		Limit	
Benzene	ND	8.00	µg/m3
Bromobenzene	ND	8.00	µg/m3
Bromodichloromethane	ND	8.00	µg/m3
Bromoform	ND	8.00	µg/m3
n-Butylbenzene	ND	8.00	µg/m3
sec-Butylbenzene	ND	8.00	µg/m3
tert-Butylbenzene	ND	8.00	µg/m3
Carbon tetrachloride	ND	8.00	µg/m3
Chlorobenzene	ND	8.00	µg/m3
Chloroform	ND	8.00	µg/m3
2-Chlorotoluene	ND	8.00	µg/m3
4-Chlorotoluene	ND	8.00	µg/m3
Dibromochloromethane	ND	8.00	µg/m3
1,2-Dibromo-3-chloropropane	ND	8.00	µg/m3
1,2-Dibromoethane (EDB)	ND	8.00	µg/m3
Dibromomethane	ND	8.00	µg/m3
1,2- Dichlorobenzene	ND	8.00	µg/m3
1,3-Dichlorobenzene	ND	8.00	µg/m3
1,4-Dichlorobenzene	ND	8.00	µg/m3
Dichlorodifluoromethane	10.0	8.00	µg/m3
1,1-Dichloroethane	ND	8.00	µg/m3
1,2-Dichloroethane	ND	8.00	µg/m3
1,1-Dichloroethene	ND	8.00	µg/m3
cis-1,2-Dichloroethene	ND	8.00	µg/m3
trans-1,2-Dichloroethene	ND	8.00	µg/m3
1,2-Dichloropropane	ND	8.00	µg/m3
1,3-Dichloropropane	ND	8.00	µg/m3
2,2-Dichloropropane	ND	8.00	µg/m3
1,1-Dichloropropene	ND	8.00	µg/m3

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID: SV-17-5'

Jones ID: E-0680-16

		<u>Practical Quantitation</u>	<u>Units</u>
Analytes:		<u>Limit</u>	
cis-1,3-Dichloropropene	ND	8.00	µg/m3
trans-1,3-Dichloropropene	ND	8.00	µg/m3
Ethylbenzene	ND	8.00	µg/m3
Freon 113	ND	40.0	µg/m3
Hexachlorobutadiene	ND	8.00	µg/m3
Isopropylbenzene	ND	8.00	µg/m3
4-Isopropyltoluene	ND	8.00	µg/m3
Methylene chloride	ND	8.00	µg/m3
Naphthalene	45.8	40.00	µg/m3
n-Propylbenzene	8.40	8.00	µg/m3
Styrene	ND	8.00	µg/m3
1,1,1,2-Tetrachloroethane	ND	8.00	µg/m3
1,1,2,2-Tetrachloroethane	ND	8.00	µg/m3
Tetrachloroethene	11.2	8.00	µg/m3
Toluene	ND	8.00	µg/m3
1,2,3-Trichlorobenzene	ND	40.0	µg/m3
1,2,4-Trichlorobenzene	ND	8.00	µg/m3
1,1,1-Trichloroethane	ND	8.00	µg/m3
1,1,2-Trichloroethane	ND	8.00	µg/m3
Trichloroethene	ND	8.00	µg/m3
Trichlorofluoromethane	ND	8.00	µg/m3
1,2,3-Trichloropropane	ND	8.00	µg/m3
1,2,4-Trimethylbenzene	ND	8.00	µg/m3
1,3,5-Trimethylbenzene	ND	8.00	µg/m3
Vinyl chloride	ND	8.00	µg/m3
m,p-Xylene	ND	8.00	µg/m3
o-Xylene	ND	8.00	µg/m3
MTBE	ND	40.0	µg/m3
Ethyl-tert-butylether	ND	40.0	µg/m3
Di-isopropylether	ND	40.0	µg/m3
tert-amylmethylether	ND	40.0	µg/m3
tert-Butylalcohol	ND	400	µg/m3
TIC:			
n-Pentane	ND	400	µg/m3
n-Hexane	ND	400	µg/m3
n-Heptane	ND	400	µg/m3
Dilution Factor	1		
Surrogate Recoveries:		QC Limits	
Dibromofluoromethane	102%	60 - 140	
Toluene-d8	103%	60 - 140	
4-Bromofluorobenzene	96%	60 - 140	

E1-021617-
E-0680

ND= Not Detected



714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client: Mearns Consulting Corp
Client Address: 738 Ashland Ave
Santa Monica, CA 90405

Report date: 2/22/2017
Jones Ref. No.: E-0680

Attn: Susan L Mearns, PhD

Date Sampled: 2/16/2017
Date Received: 2/16/2017

Project: Former AmeriGas
Project Address: 2851 Orange Ave
Long Beach, CA

Date Analyzed: 2/16/2017
Physical State: Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	METHOD	SAMPLING		
	BLANK	BLANK		
Jones ID:	021617- E1MB1	021617- E1SB1	<u>Practical</u> <u>Quantitation</u> <u>Limit</u>	<u>Units</u>
Analytes:				
Benzene	ND	ND	8.00	µg/m3
Bromobenzene	ND	ND	8.00	µg/m3
Bromodichloromethane	ND	ND	8.00	µg/m3
Bromoform	ND	ND	8.00	µg/m3
n-Butylbenzene	ND	ND	8.00	µg/m3
sec-Butylbenzene	ND	ND	8.00	µg/m3
tert-Butylbenzene	ND	ND	8.00	µg/m3
Carbon tetrachloride	ND	ND	8.00	µg/m3
Chlorobenzene	ND	ND	8.00	µg/m3
Chloroform	ND	ND	8.00	µg/m3
2-Chlorotoluene	ND	ND	8.00	µg/m3
4-Chlorotoluene	ND	ND	8.00	µg/m3
Dibromochloromethane	ND	ND	8.00	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	8.00	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	8.00	µg/m3
Dibromomethane	ND	ND	8.00	µg/m3
1,2-Dichlorobenzene	ND	ND	8.00	µg/m3
1,3-Dichlorobenzene	ND	ND	8.00	µg/m3
1,4-Dichlorobenzene	ND	ND	8.00	µg/m3
Dichlorodifluoromethane	ND	ND	8.00	µg/m3
1,1-Dichloroethane	ND	ND	8.00	µg/m3
1,2-Dichloroethane	ND	ND	8.00	µg/m3
1,1-Dichloroethene	ND	ND	8.00	µg/m3
cis-1,2-Dichloroethene	ND	ND	8.00	µg/m3
trans-1,2-Dichloroethene	ND	ND	8.00	µg/m3
1,2-Dichloropropane	ND	ND	8.00	µg/m3
1,3-Dichloropropane	ND	ND	8.00	µg/m3
2,2-Dichloropropane	ND	ND	8.00	µg/m3
1,1-Dichloropropene	ND	ND	8.00	µg/m3

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	<u>METHOD</u>	<u>SAMPLING</u>		
	<u>BLANK</u>	<u>BLANK</u>		
<u>Jones ID:</u>	<u>021617-</u>	<u>021617-</u>		
	<u>E1MB1</u>	<u>E1SB1</u>	<u>Practical</u>	<u>Units</u>
			<u>Quantitation</u>	
<u>Analytes:</u>			<u>Limit</u>	
cis-1,3-Dichloropropene	ND	ND	8.00	µg/m3
trans-1,3-Dichloropropene	ND	ND	8.00	µg/m3
Ethylbenzene	ND	ND	8.00	µg/m3
Freon 113	ND	ND	40.0	µg/m3
Hexachlorobutadiene	ND	ND	8.00	µg/m3
Isopropylbenzene	ND	ND	8.00	µg/m3
4-Isopropyltoluene	ND	ND	8.00	µg/m3
Methylene chloride	ND	ND	8.00	µg/m3
Naphthalene	ND	ND	40.00	µg/m3
n-Propylbenzene	ND	ND	8.00	µg/m3
Styrene	ND	ND	8.00	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	8.00	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	8.00	µg/m3
Tetrachloroethene	ND	ND	8.00	µg/m3
Toluene	ND	ND	8.00	µg/m3
1,2,3-Trichlorobenzene	ND	ND	40.0	µg/m3
1,2,4-Trichlorobenzene	ND	ND	8.00	µg/m3
1,1,1-Trichloroethane	ND	ND	8.00	µg/m3
1,1,2-Trichloroethane	ND	ND	8.00	µg/m3
Trichloroethene	ND	ND	8.00	µg/m3
Trichlorofluoromethane	ND	ND	8.00	µg/m3
1,2,3-Trichloropropane	ND	ND	8.00	µg/m3
1,2,4-Trimethylbenzene	ND	ND	8.00	µg/m3
1,3,5-Trimethylbenzene	ND	ND	8.00	µg/m3
Vinyl chloride	ND	ND	8.00	µg/m3
m,p-Xylene	ND	ND	8.00	µg/m3
o-Xylene	ND	ND	8.00	µg/m3
MTBE	ND	ND	40.0	µg/m3
Ethyl-tert-butylether	ND	ND	40.0	µg/m3
Di-isopropylether	ND	ND	40.0	µg/m3
tert-amylmethylether	ND	ND	40.0	µg/m3
tert-Butylalcohol	ND	ND	400	µg/m3
<u>TIC:</u>				
n-Pentane	ND	ND	400	µg/m3
n-Hexane	ND	ND	400	µg/m3
n-Heptane	ND	ND	400	µg/m3
<u>Dilution Factor</u>	1	1		
<u>Surrogate Recoveries:</u>			<u>QC Limits</u>	
Dibromofluoromethane	101%	126%	60 - 140	
Toluene-d8	95%	93%	60 - 140	
4-Bromofluorobenzene	95%	92%	60 - 140	
	E1-021617-	E1-021617-		
	E-0680	E-0680		

ND= Not Detected



714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client: Mearns Consulting Corp
Client Address: 738 Ashland Ave
Santa Monica, CA 90405

Report date: 2/22/2017
Jones Ref. No.: E-0680
Client Ref. No.:

Attn: Susan L Mearns, PhD

Date Sampled: 2/16/2017

Project: Former AmeriGas
Project Address: 2851 Orange Ave
Long Beach, CA

Date Received: 2/16/2017

Date Analyzed: 2/16/2017

Physical State: Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Batch ID: E1-021617-E-0680

Jones ID: **021617-E1LCS1** **021617-E1LCSD1** **021617-E1CCV1**

<u>Parameter</u>	LCS Recovery (%)	LCSD Recovery (%)	<u>RPD</u>	Acceptability Range (%)	<u>CCV</u>	Acceptability Range (%)
Vinyl chloride	82%	73%	11.4%	70 - 130	81%	80 - 120
1,1-Dichloroethene	98%	87%	11.5%	70 - 130	110%	80 - 120
Cis-1,2-Dichloroethene	106%	99%	6.5%	70 - 130	99%	80 - 120
1,1,1-Trichloroethane	104%	93%	11.5%	70 - 130	102%	80 - 120
Benzene	119%	107%	10.1%	70 - 130	115%	80 - 120
Trichloroethene	103%	96%	7.3%	70 - 130	102%	80 - 120
Toluene	126%	112%	12.2%	70 - 130	114%	80 - 120
Tetrachloroethene	115%	106%	7.8%	70 - 130	114%	80 - 120
Chlorobenzene	122%	110%	10.5%	70 - 130	112%	80 - 120
Ethylbenzene	117%	103%	12.6%	70 - 130	107%	80 - 120
1,2,4 Trimethylbenzene	134%	121%	10.5%	70 - 130	123%	80 - 120
Gasoline Range Organics (C4-C12)	124%	111%	11.3%	70 - 130		

Surrogate Recovery:

Dibromofluoromethane	92%	95%		60 - 140	90%	60 - 140
Toluene-d ₈	100%	101%		60 - 140	100%	60 - 140
4-Bromofluorobenzene	98%	99%		60 - 140	97%	60 - 140

LCS = Laboratory Control Sample

LCSD = Laboratory Control Sample Duplicate

CCV = Continuing Calibration Verification

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%



11007 Forest Pl.
 Santa Fe Springs, CA 90670
 (714) 449-9937
 Fax (714) 449-9685
 www.jonesenv.com

Soil-Gas Chain-of-Custody Record

Client
Meams Consulting Group

Project Name
Former AmeriGas

Project Address
2851 Orange Ave

Long Beach, CA

Email

Phone
310-403-1921

Report To
Susan Meams

Sampler
JSB

Date
 2/16/2017

Purge Number:
 1P 3P 7P 10P

Report Options
 EDD _____
 EDF* - 10% Surcharge _____

Shut-In Test: (Y) / N

***Global ID** _____

Client Project #

Turn Around Requested

Immediate Attention
 Rush 24 Hours
 Rush 48 Hours
 Rush 72 Hours
 Normal
 Mobile Lab

Tracer

n-pentane
 n-hexane
 n-heptane
 Helium
 1,1-DFA

Analysis Requested

Reporting Limits Requested
 Commercial Residential

Units
 ag/m³

LAB USE ONLY

Jones Project #
E-0680

Page
 1 of 2

Sample Container:

If different than above, see Notes.

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B	Magnehelic Vacuum (inH ₂ O)	Number of Containers	Notes & Special Instructions
SV-1-5'	3	176	2/16/17	8:45	9:00	E-0680-01	200	HAND PURGED	M100.103	SG	X	4	2	
SV-1-5' DIL	-	-	2/16/17	9:03	9:17	-	200	HAND PURGED	M100.103	SG	X	4	1	
SV-2-5'	3	176	2/16/17	9:31	9:34	E-0680-02	200	HAND PURGED	M100.103	SG	X	<2	1	
SV-3-5'	3	176	2/16/17	9:45	9:50	E-0680-03	200	HAND PURGED	M100.103	SG	X	<2	1	
SV-2-5' REP	3	176	2/16/17	10:06	10:12	-	200	HAND PURGED	M100.103	SG	X	<2	1	REP FAILED, TRYING ELSEWHERE
SV-4-5'	3	176	2/16/17	10:30	10:33	E-0680-04	200	HAND PURGED	M100.103	SG	X	56	2	LOW FLOW
SV-5-5'	3	176	2/16/17	10:43	10:49	E-0680-05	200	HAND PURGED	M100.103	SG	X	48	2	LOW FLOW
SV-7-5'	3	176	2/16/17	10:56	11:06	E-0680-06	200	HAND PURGED	M100.103	SG	X	<2	2	
SV-8-5'	3	176	2/16/17	11:10	11:24	E-0680-07	200	HAND PURGED	M100.103	SG	X	66	2	LOW FLOW
SV-7-5' REP	3	176	2/16/17	11:37	11:40	E-0680-08	200	HAND PURGED	M100.103	SG	X	<2	2	

Relinquished By (Signature) *[Signature]* **Printed Name** **SUSAN L MEAMS PHD**

Received By (Signature) *[Signature]* **Printed Name** **JOSH BRASS**

Company **MEAMS CONSULTING CORP** **Date** **2-16-17** **Time** **1500**

Company **Jones Environmental** **Date** **2-16-17** **Time** **1430**

Relinquished By (Signature) _____ **Printed Name** _____

Received By Laboratory (Signature) _____ **Printed Name** _____

Company _____ **Date** _____ **Time** _____

Company _____ **Date** _____ **Time** _____

16 Total Number of Containers

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.



11007 Forest Pl.
 Santa Fe Springs, CA 90670
 (714) 449-9637
 Fax (714) 449-9685
 www.jonesenv.com

Soil-Gas Chain-of-Custody Record

Client
Meams Consulting Group

Project Name
Former AmeriGas

Project Address
2851 Orange Ave

Long Beach, CA

Email

Phone
310-403-1921

Date
 2/16/2017

Client Project #

Purge Number:
 1P 3P 7P 10P

Shut-In Test: (Y) / N

Report Options
 EDD _____
 EDF* - 10% Surcharge _____
 *Global ID _____

LAB USE ONLY

Jones Project #
E-0680

Page
 2 of 2

Sample Container:

if different than above, see Notes.

Turn Around Requested

Immediate Attention
 Rush 24 Hours
 Rush 48 Hours
 Rush 72 Hours
 Normal
 Mobile Lab

Tracer

n-pentane
 n-hexane
 n-heptane
 Helium
 1,1-DFA

Analysis Requested

Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B	Magnehelic Vacuum (mH ₂ O)	Number of Containers
SG	X		

Reporting Limits Requested

Commercial Residential *mg/m³*

Units

Report To
Susan Meams

Sampler
JSB

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B	Magnehelic Vacuum (mH ₂ O)	Number of Containers	Notes & Special Instructions		
SV-9-5'	3	176	2/16/17	11:55	11:58	E-0680-09	200	HAND PURGED	M100.103	SG	X					
SV-10-5'	3	176	2/16/17	12:10	12:16	E-0680-10	200	HAND PURGED	M100.103	SG	X					
SV-11-5'	3	176	2/16/17	12:28	12:32	E-0680-11	200	HAND PURGED	M100.103	SG	X					
SV-12-5'	3	176	2/16/17	12:41	12:50	E-0680-12	200	HAND PURGED	M100.103	SG	X			LOW FLOW		
SV-13-5'	3	176	2/16/17	12:55	13:07	E-0680-13	200	HAND PURGED	M100.103	SG	X			<2		
SV-14-5'	3	176	2/16/17	13:14	13:25	E-0680-14	200	HAND PURGED	M100.103	SG	X			14		
SV-15-5'	3	176	2/16/17	13:29	13:42	E-0680-15	200	HAND PURGED	M100.103	SG	X			10		
SV-17-5'	3	176	2/16/17	13:52	14:00	E-0680-16	200	HAND PURGED	M100.103	SG	X			8		
SV-6-5'	-	-	2/16/17	10:52	-	E-0680-17	200	HAND PURGED	M100.103	SG	X			>100	0	NO FLOW
SV-16-5'	-	-	2/16/17	13:48	-	E-0680-18	200	HAND PURGED	M100.103	SG	X			>100	0	NO FLOW, LOTS OF WATER IN PROBE

Relinquished By (Signature)
[Signature]

Printed Name
 SUSAN L MEAMS PHD

Company
 MEAMS CONSULTING CORP

Date
 2-16-17

Time
 1500

Received By (Signature)
[Signature]

Printed Name
 JOSH BASS

Company
 JONES ENVIRONMENTAL

Date
 2-16-17

Time
 1430

16 Total Number of Containers

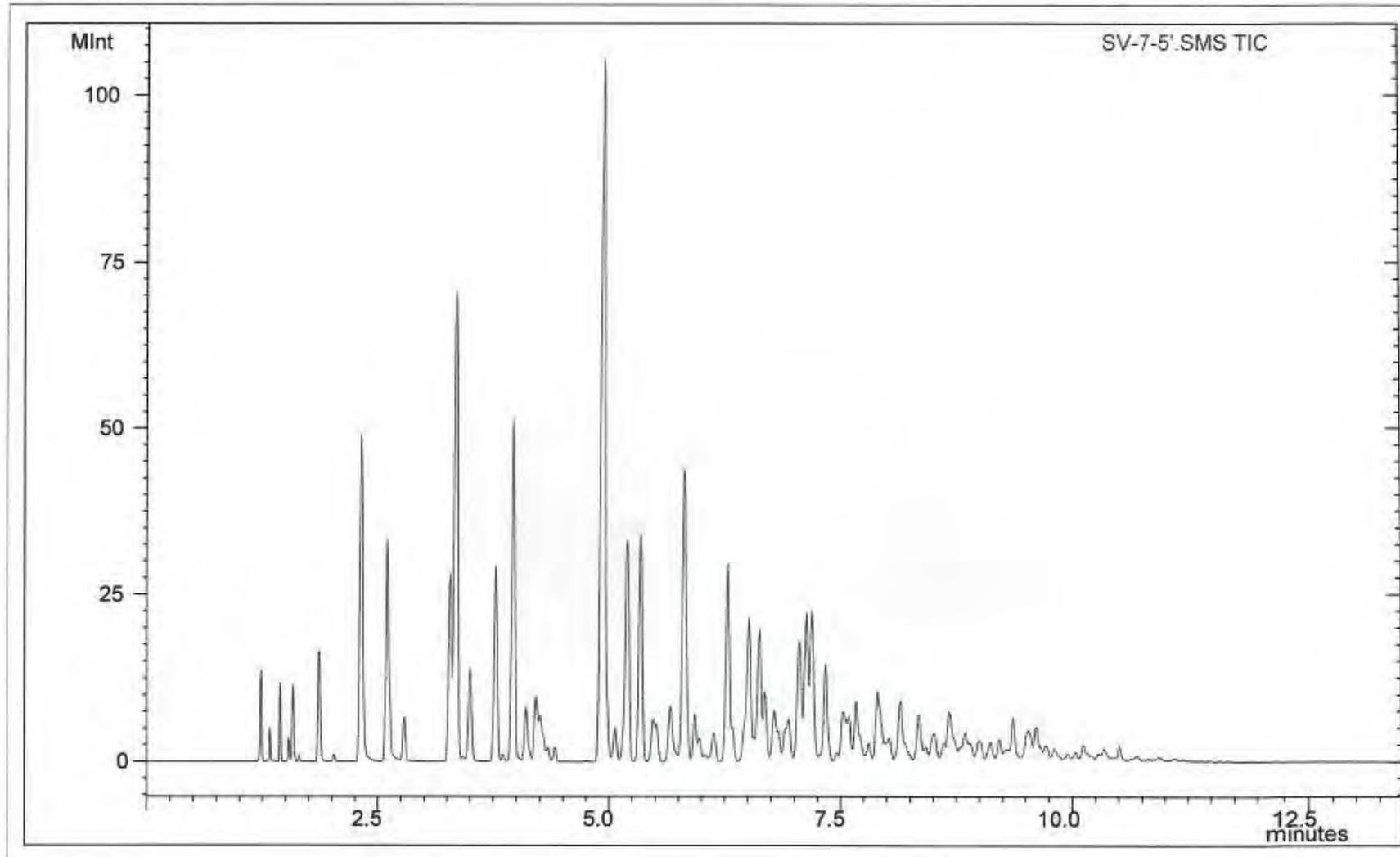
Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.

CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:_jones reports\lab_2017\1-e-0680\1-021617-e-0680\SV-7-5'.SMS
Acquisition Date: 2/16/2017 11:16
EPA Sample No: SV-7-5'
Lab Sample ID: SV-7-5'

Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS
Cal. Sample Date Range: 7/30/2016 2:37 7/30/2016 2:37
Operator: jsb
Dilution: 1



Approved _____

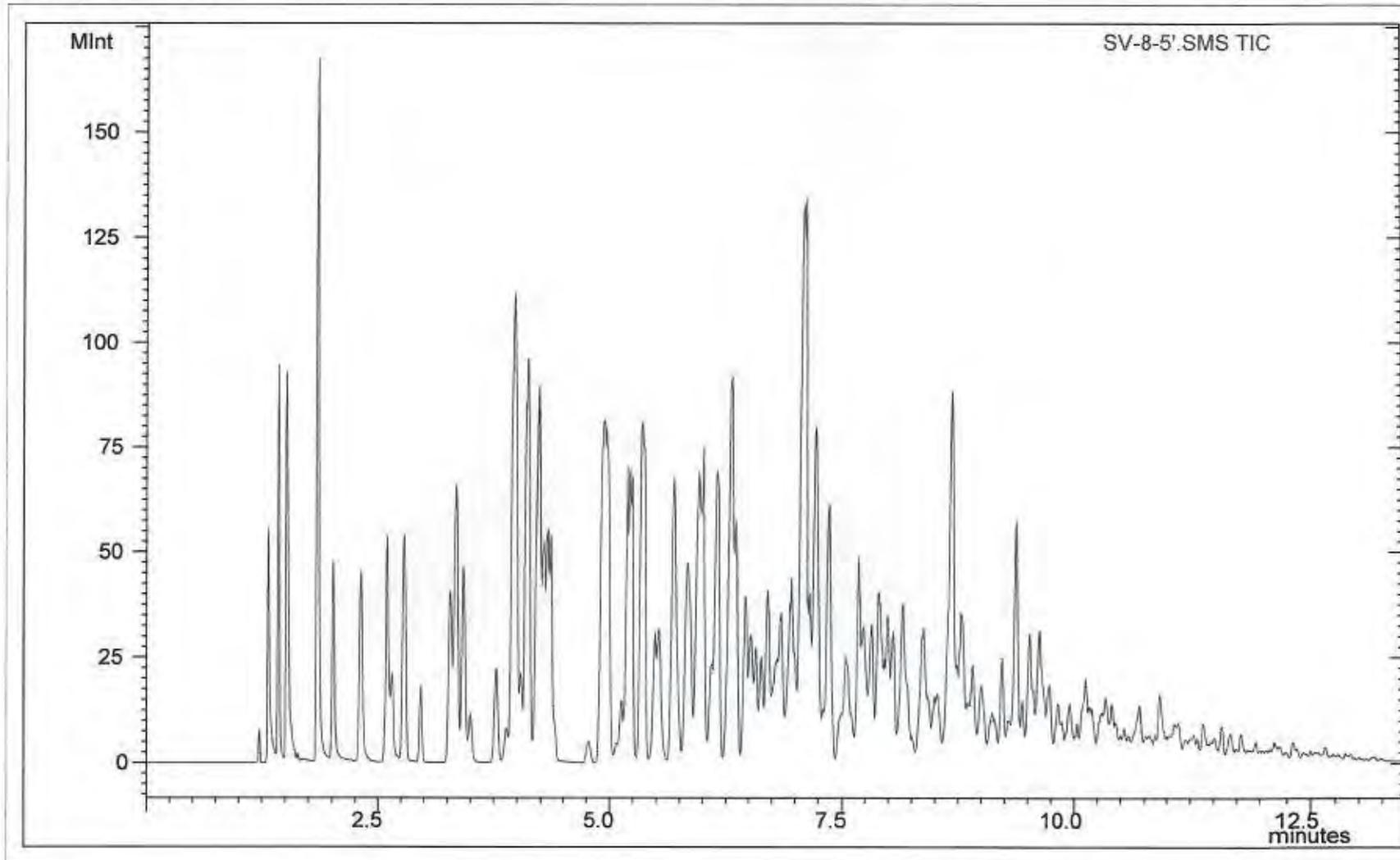
Date _____

CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:_jones reports\le-lab_2017\le-0680\le1-021617-e-0680\SV-8-5'.SMS
Acquisition Date: 2/16/2017 11:34
EPA Sample No: SV-8-5'
Lab Sample ID: SV-8-5'

Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS
Cal. Sample Date Range: 7/30/2016 2:37 7/30/2016 2:37
Operator: jsb
Dilution: 1



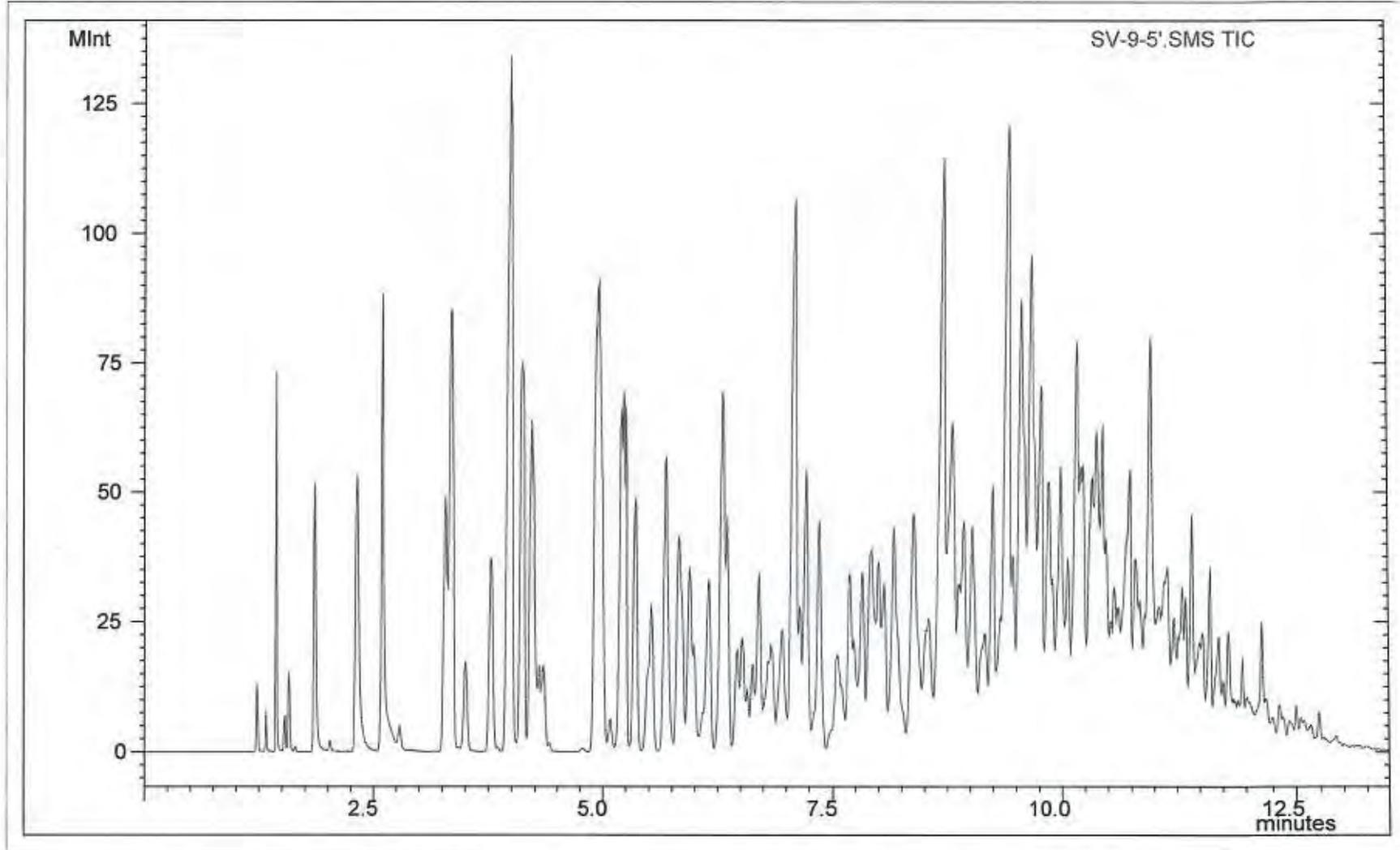
Approved _____

Date _____

CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:_jones reports\le-lab_2017\le-0680\le1-021617-e-0680\SV-9-5'.SMS Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS
Acquisition Date: 2/16/2017 12:08 Cal. Sample Date Range: 7/30/2016 2:37 7/30/2016 2:37
EPA Sample No: SV-9-5' Operator: jsb
Lab Sample ID: SV-9-5' Dilution: 1



Approved _____

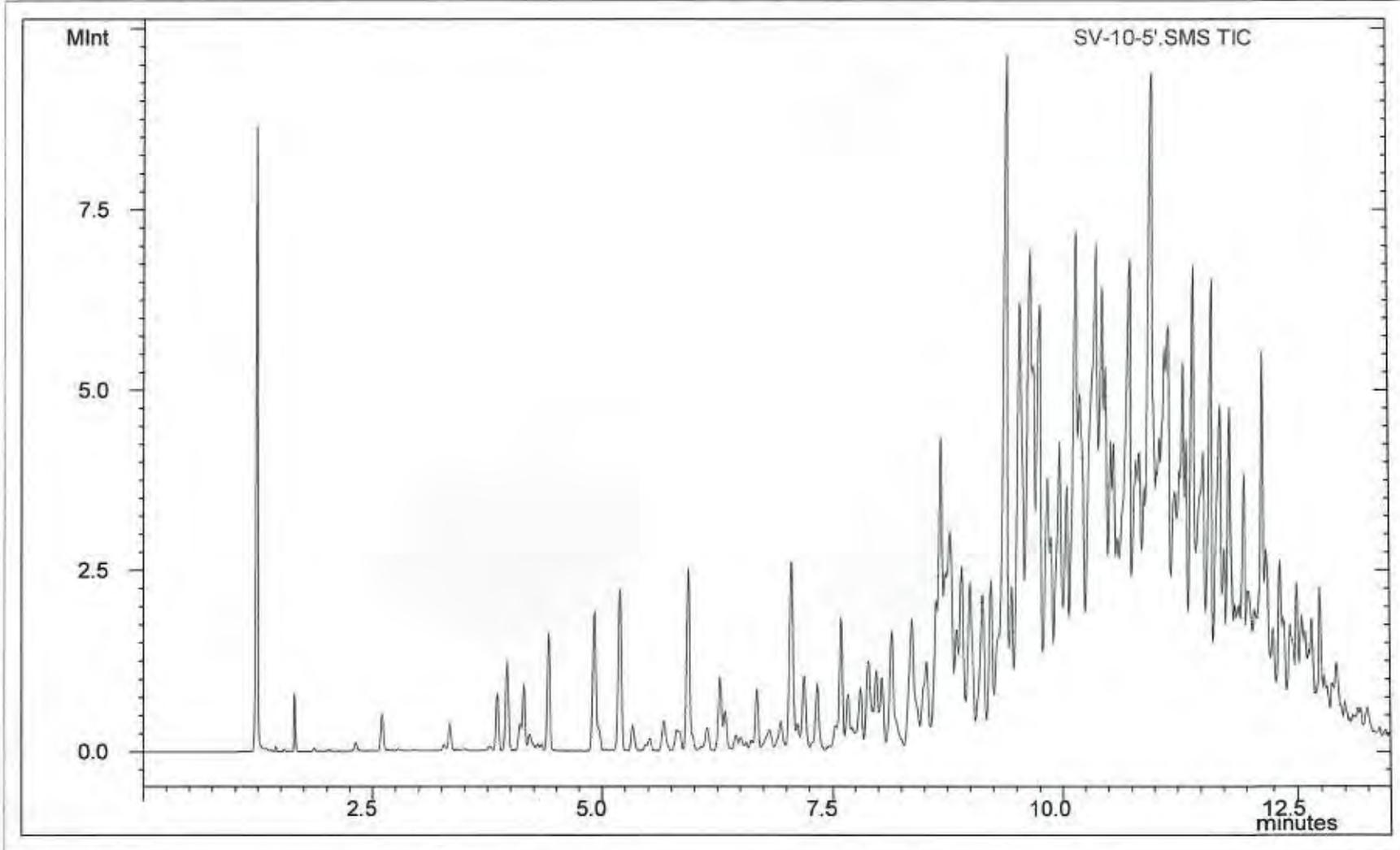
Date _____

CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:_jones reports\le-lab_2017\le-0680\le1-021617-e-0680\SV-10-5'.SM
Acquisition Date: 2/16/2017 12:26
EPA Sample No: SV-10-5'
Lab Sample ID: SV-10-5'

Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS
Cal. Sample Date Range: 7/30/2016 2:37 7/30/2016 2:37
Operator: jsb
Dilution: 1



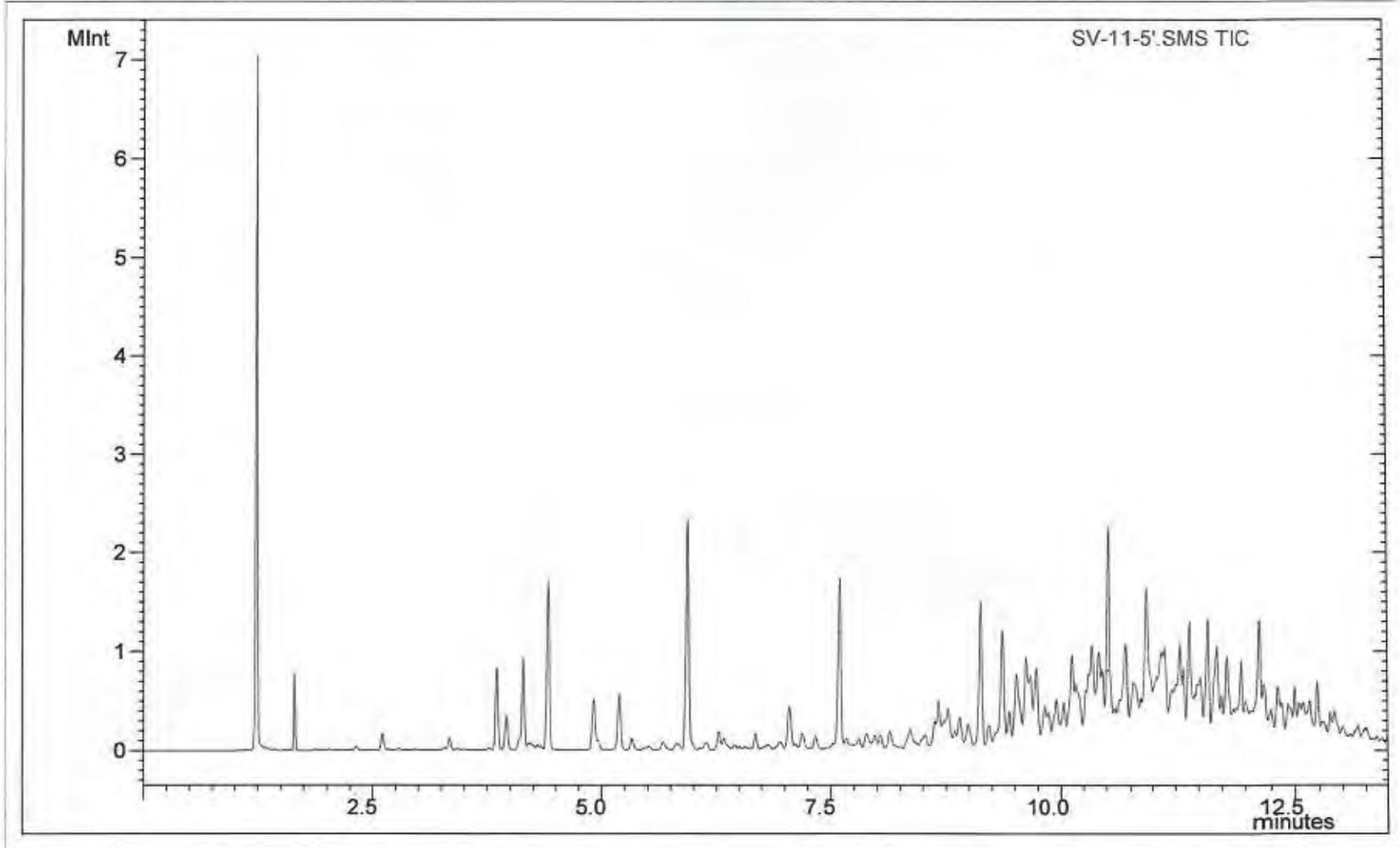
Approved _____

Date _____

CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:_jones reports\e-lab_2017\e-0680\1-021617-e-0680\SV-11-5'.SM Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS
Acquisition Date: 2/16/2017 12:43 Cal. Sample Date Range: 7/30/2016 2:37 7/30/2016 2:37
EPA Sample No: SV-11-5' Operator: jsb
Lab Sample ID: SV-11-5' Dilution: 1



Approved _____

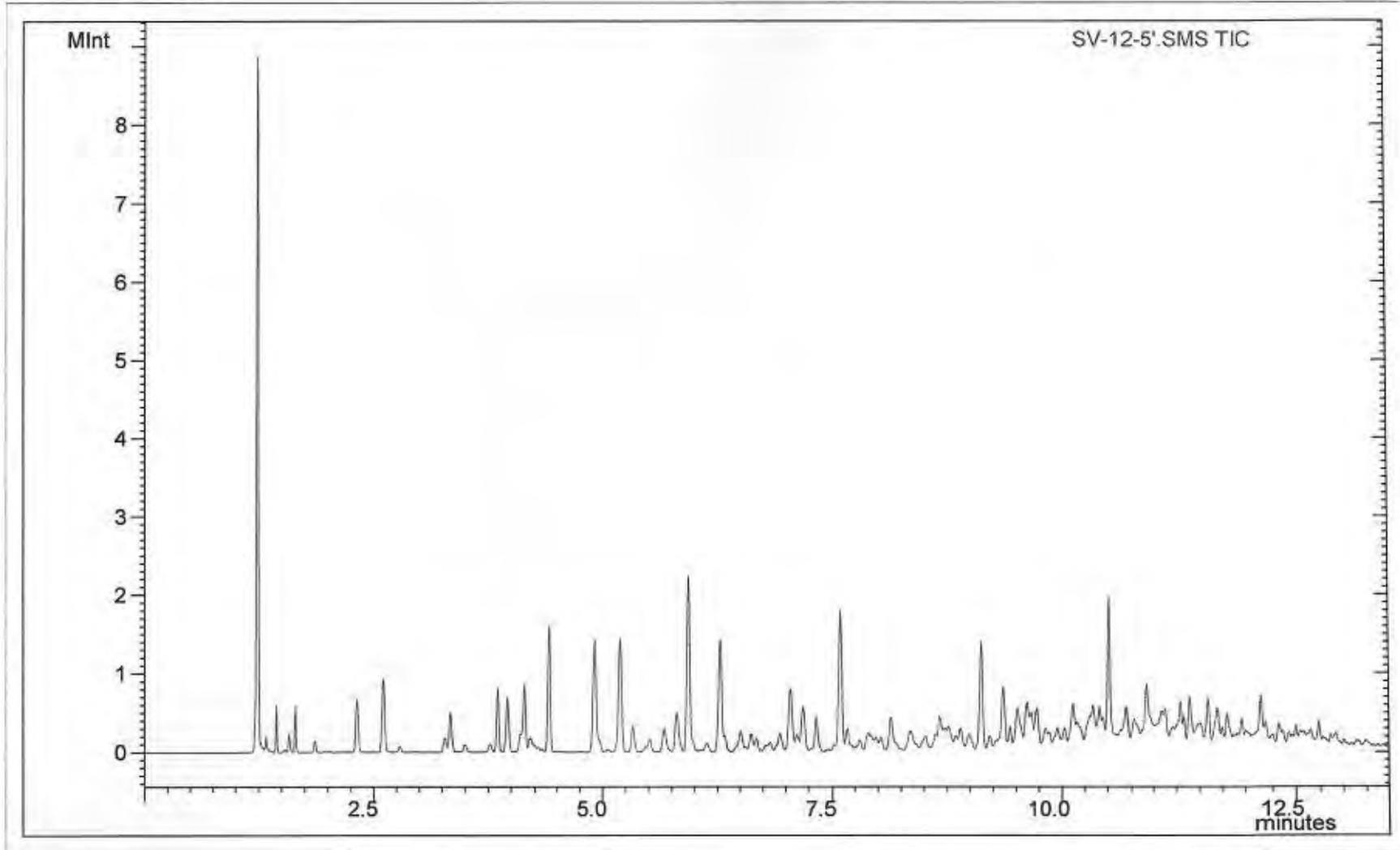
Date _____

CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:_jones reports\le-lab_2017\le-0680\le1-021617-e-0680\SV-12-5'.SM
Acquisition Date: 2/16/2017 13:00
EPA Sample No: SV-12-5'
Lab Sample ID: SV-12-5'

Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS
Cal. Sample Date Range: 7/30/2016 2:37 7/30/2016 2:37
Operator: jsb
Dilution: 1



Approved _____

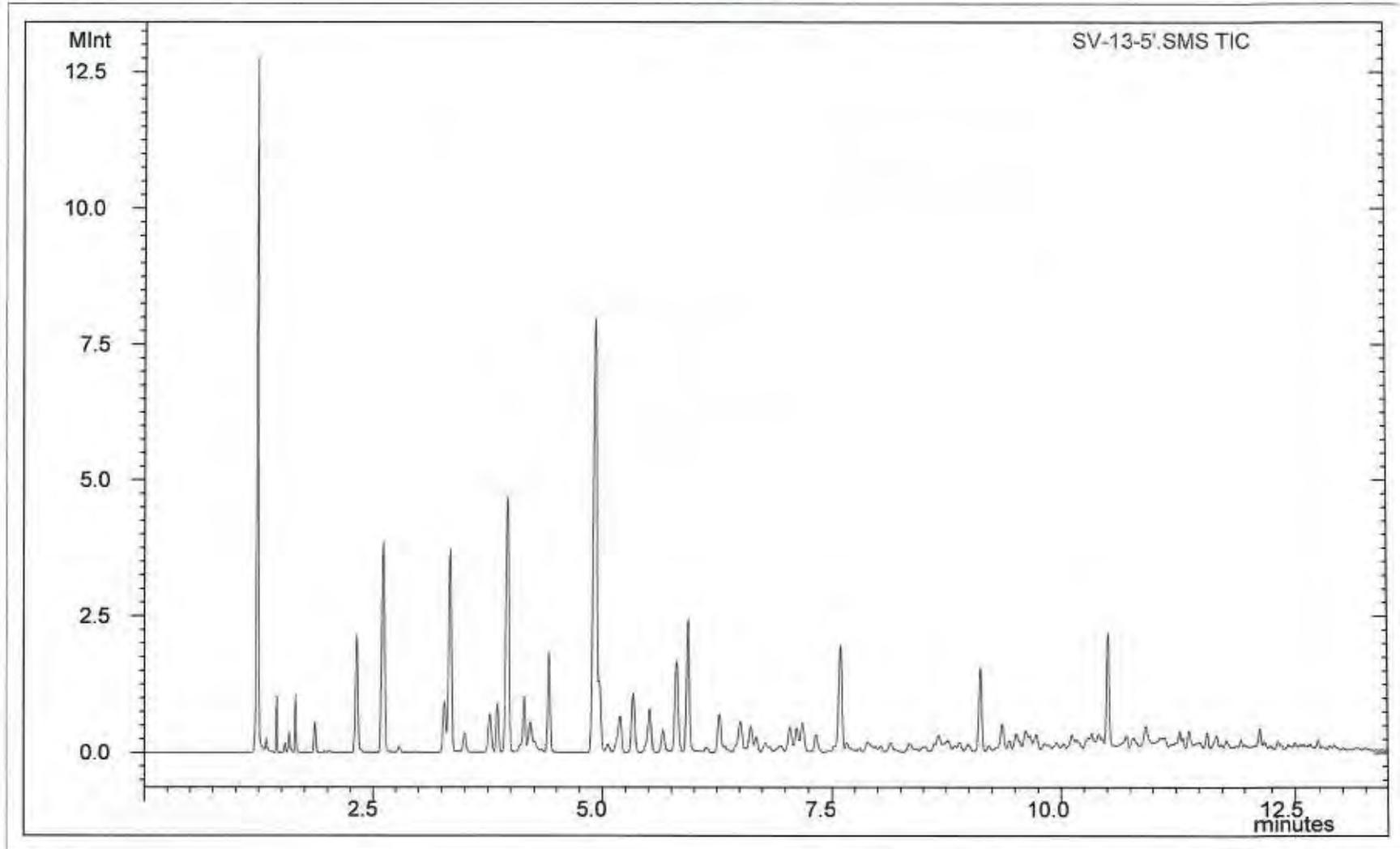
Date _____

CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:_jones reports\le-lab_2017\le-0680\le1-021617-e-0680\SV-13-5'.SM
Acquisition Date: 2/16/2017 13:18
EPA Sample No: SV-13-5'
Lab Sample ID: SV-13-5'

Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS
Cal. Sample Date Range: 7/30/2016 2:37 7/30/2016 2:37
Operator: jsb
Dilution: 1



Approved _____

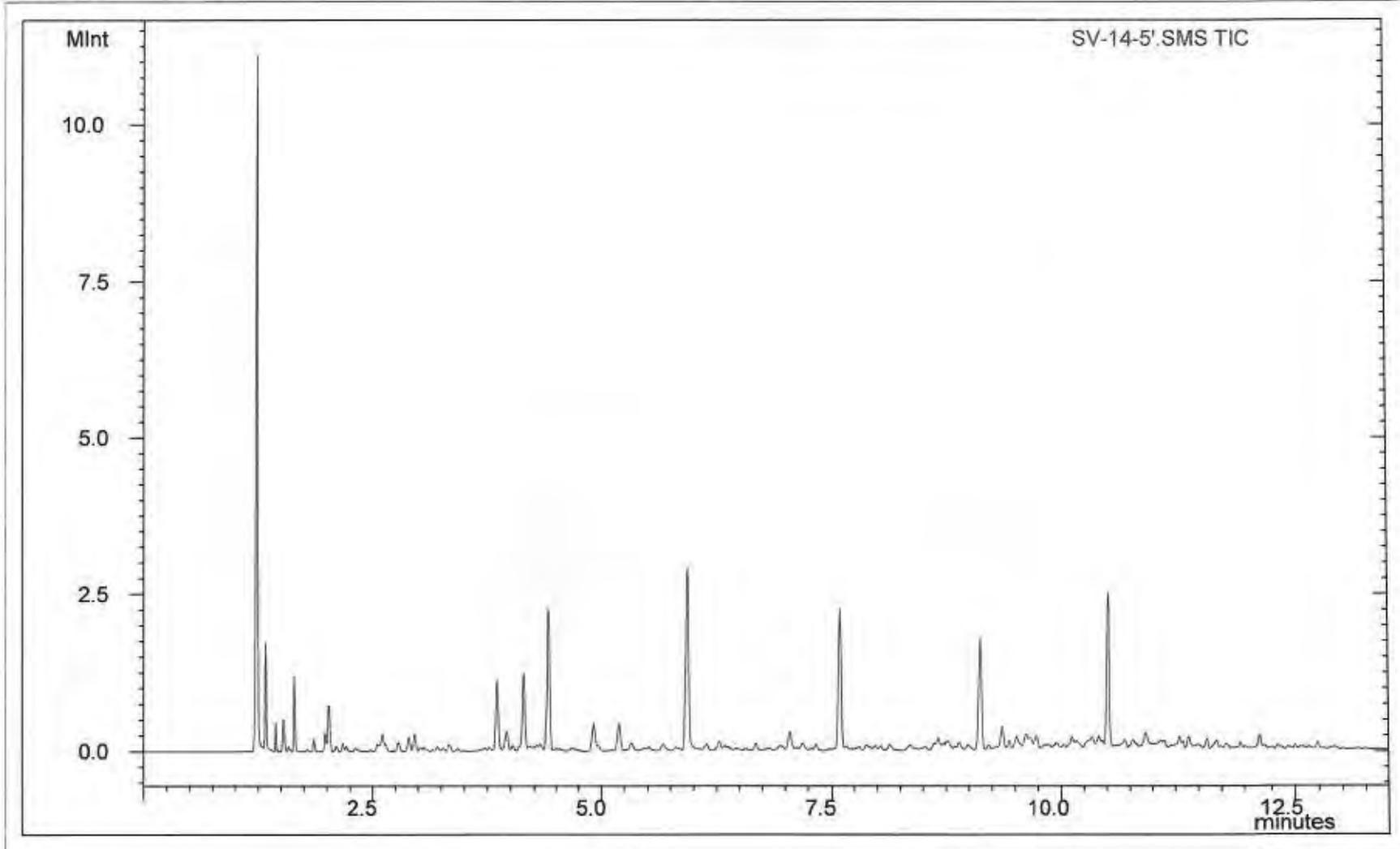
Date _____

CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:_jones reports\le-lab_2017\le-0680\le1-021617-e-0680\SV-14-5'.SM
Acquisition Date: 2/16/2017 13:35
EPA Sample No: SV-14-5'
Lab Sample ID: SV-14-5'

Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS
Cal. Sample Date Range: 7/30/2016 2:37 7/30/2016 2:37
Operator: jsb
Dilution: 1



Approved _____

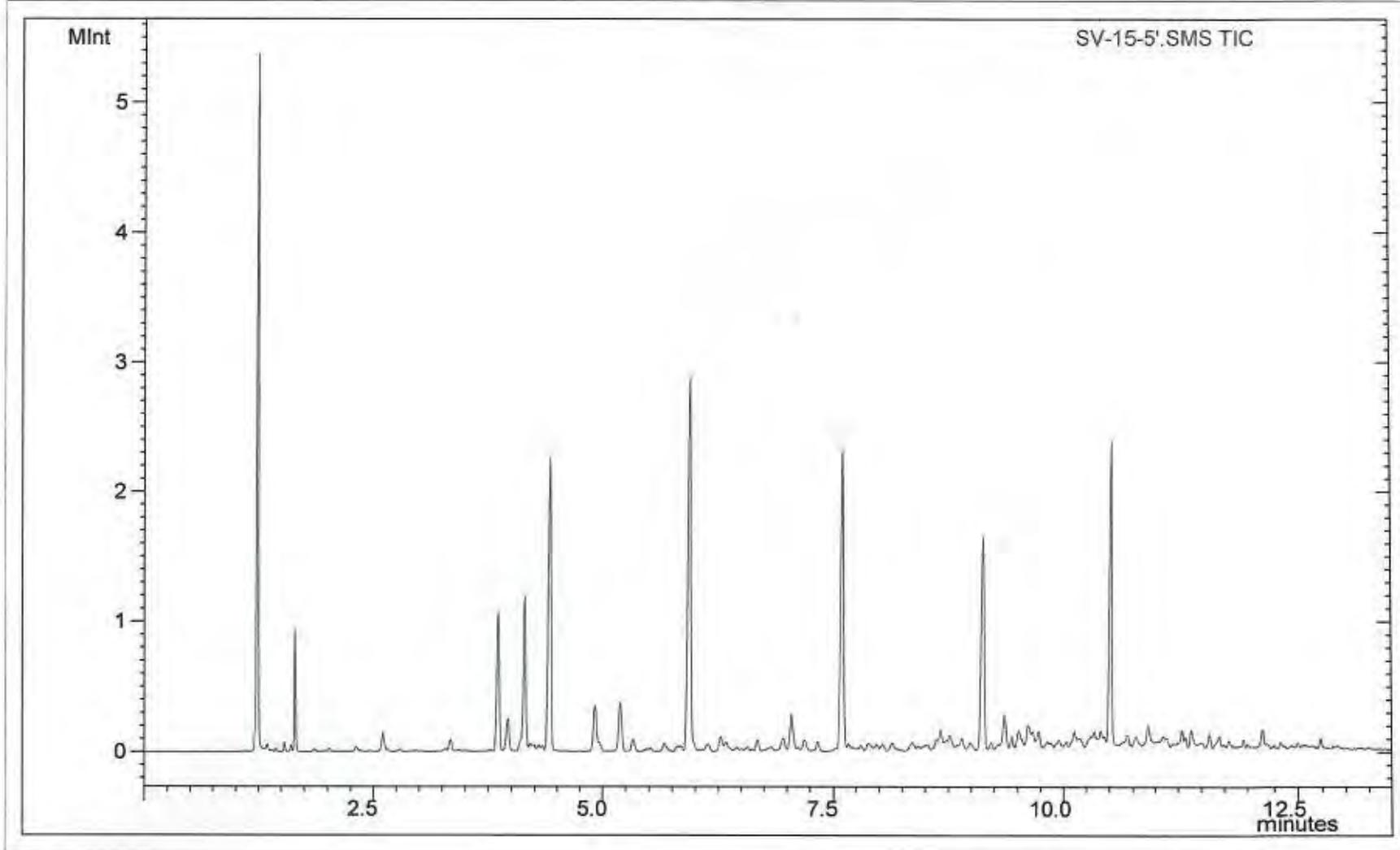
Date _____

CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:_jones reports\le-lab_2017\le-0680\le1-021617-e-0680\SV-15-5'.SM
Acquisition Date: 2/16/2017 13:52
EPA Sample No: SV-15-5'
Lab Sample ID: SV-15-5'

Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS
Cal. Sample Date Range: 7/30/2016 2:37 7/30/2016 2:37
Operator: jsb
Dilution: 1



Approved _____

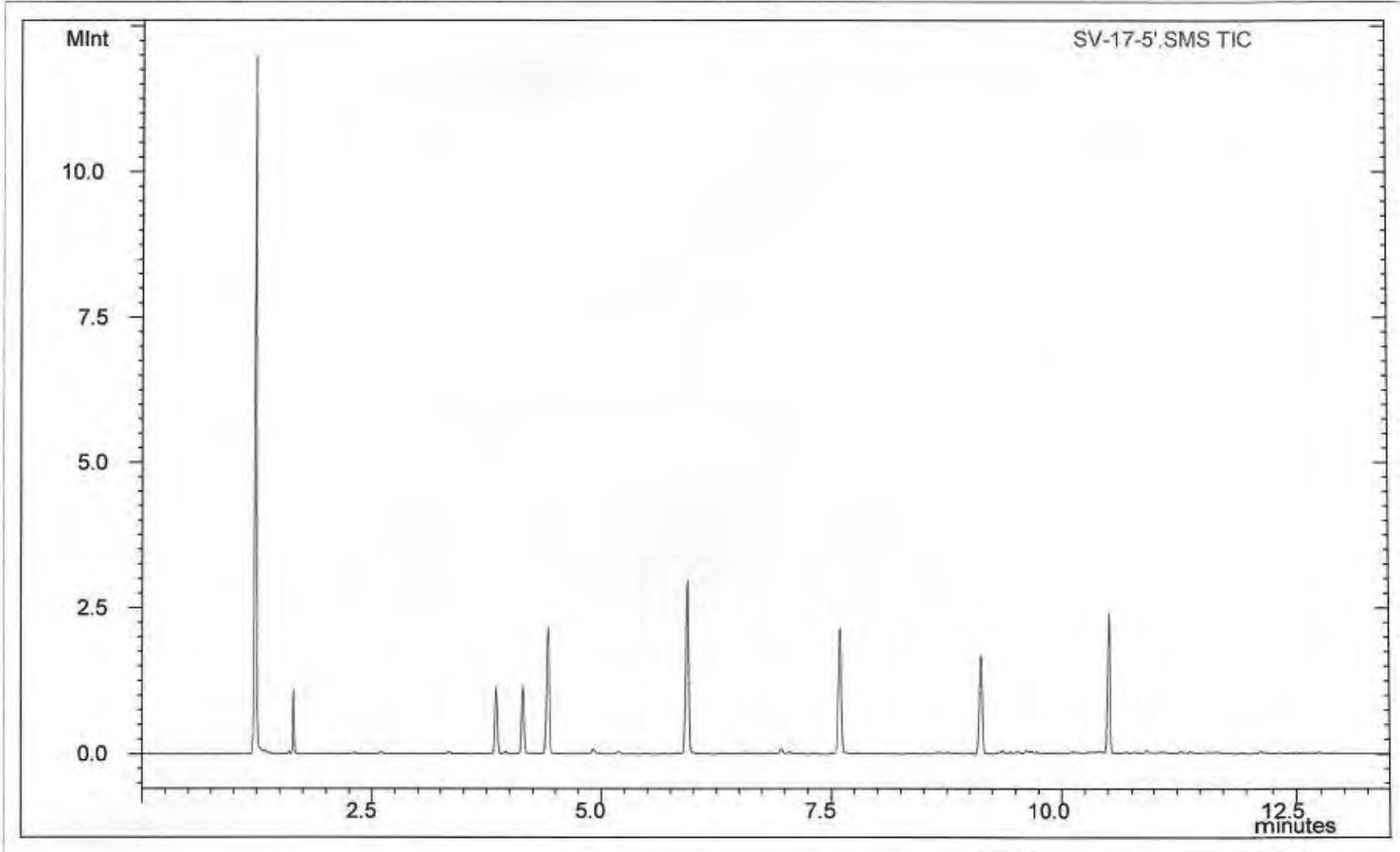
Date _____

CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:_jones reports\le-lab_2017\le-0680\le1-021617-e-0680\SV-17-5'.SM
Acquisition Date: 2/16/2017 14:10
EPA Sample No: SV-17-5'
Lab Sample ID: SV-17-5'

Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS
Cal. Sample Date Range: 7/30/2016 2:37 7/30/2016 2:37
Operator: jsb
Dilution: 1



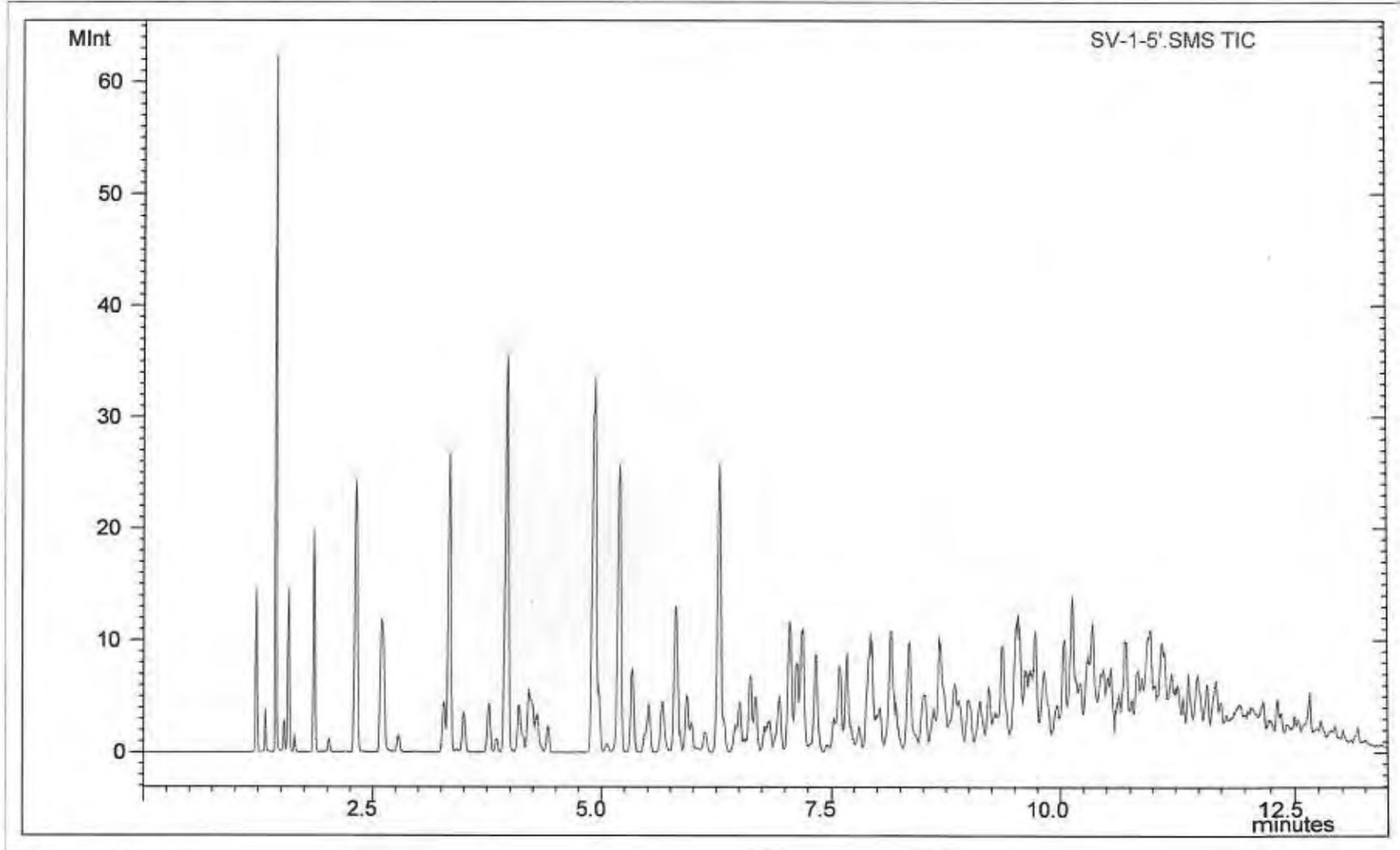
Approved _____

Date _____

CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:_jones reports\le-lab_2017\le-0680\le1-021617-e-0680\SV-1-5'.SMS Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS
Acquisition Date: 2/16/2017 9:09 Cal. Sample Date Range: 7/30/2016 2:37 7/30/2016 2:37
EPA Sample No: SV-1-5' Operator: jsb
Lab Sample ID: SV-1-5' Dilution: 1



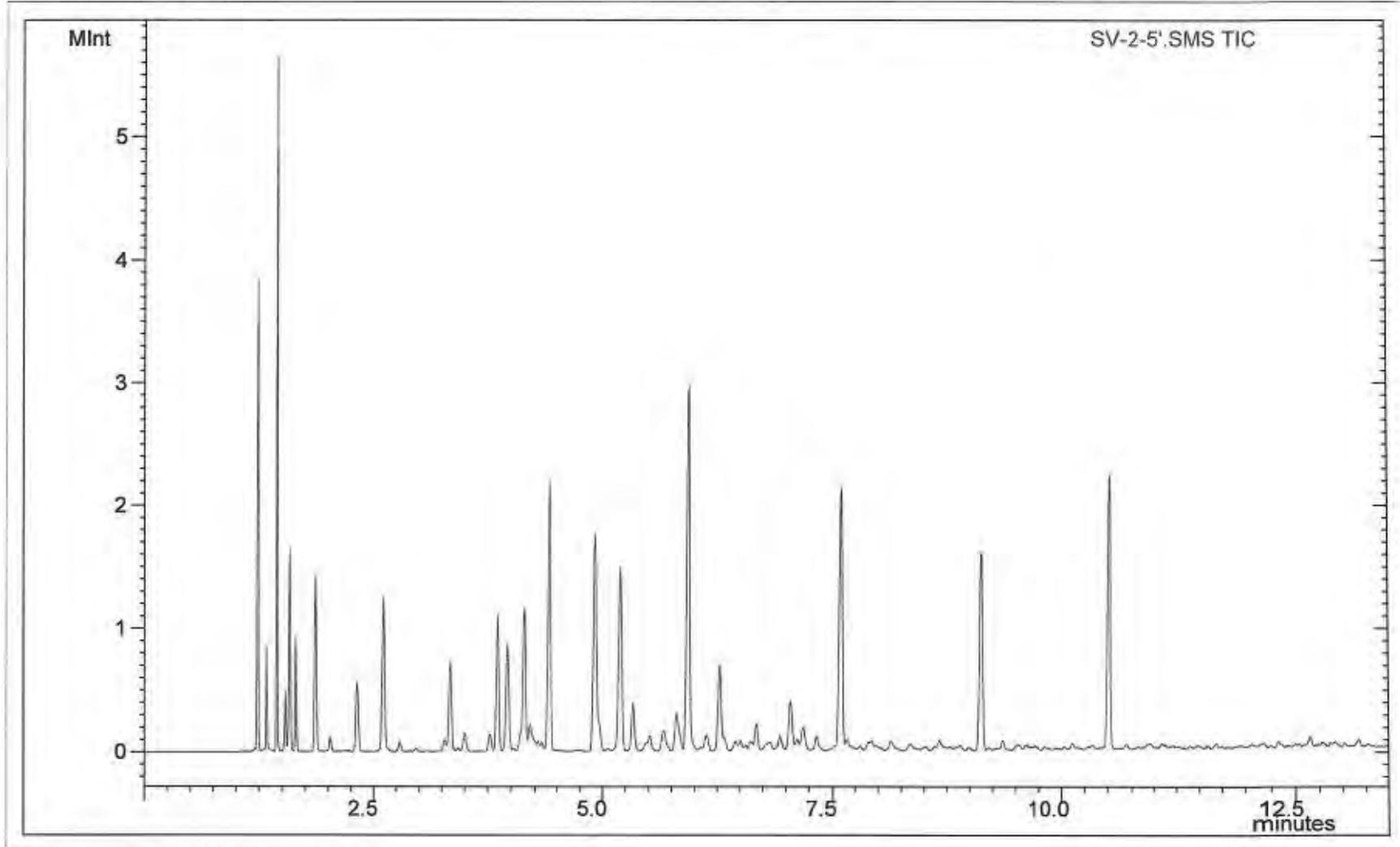
Approved _____

Date _____

CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:_jones reports\le-lab_2017\le-0680\le1-021617-e-0680\SV-2-5'.SMS Calibration File: C:\AgilentWS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS
Acquisition Date: 2/16/2017 9:44 Cal. Sample Date Range: 7/30/2016 2:37 7/30/2016 2:37
EPA Sample No: SV-2-5' Operator: jsb
Lab Sample ID: SV-2-5' Dilution: 1



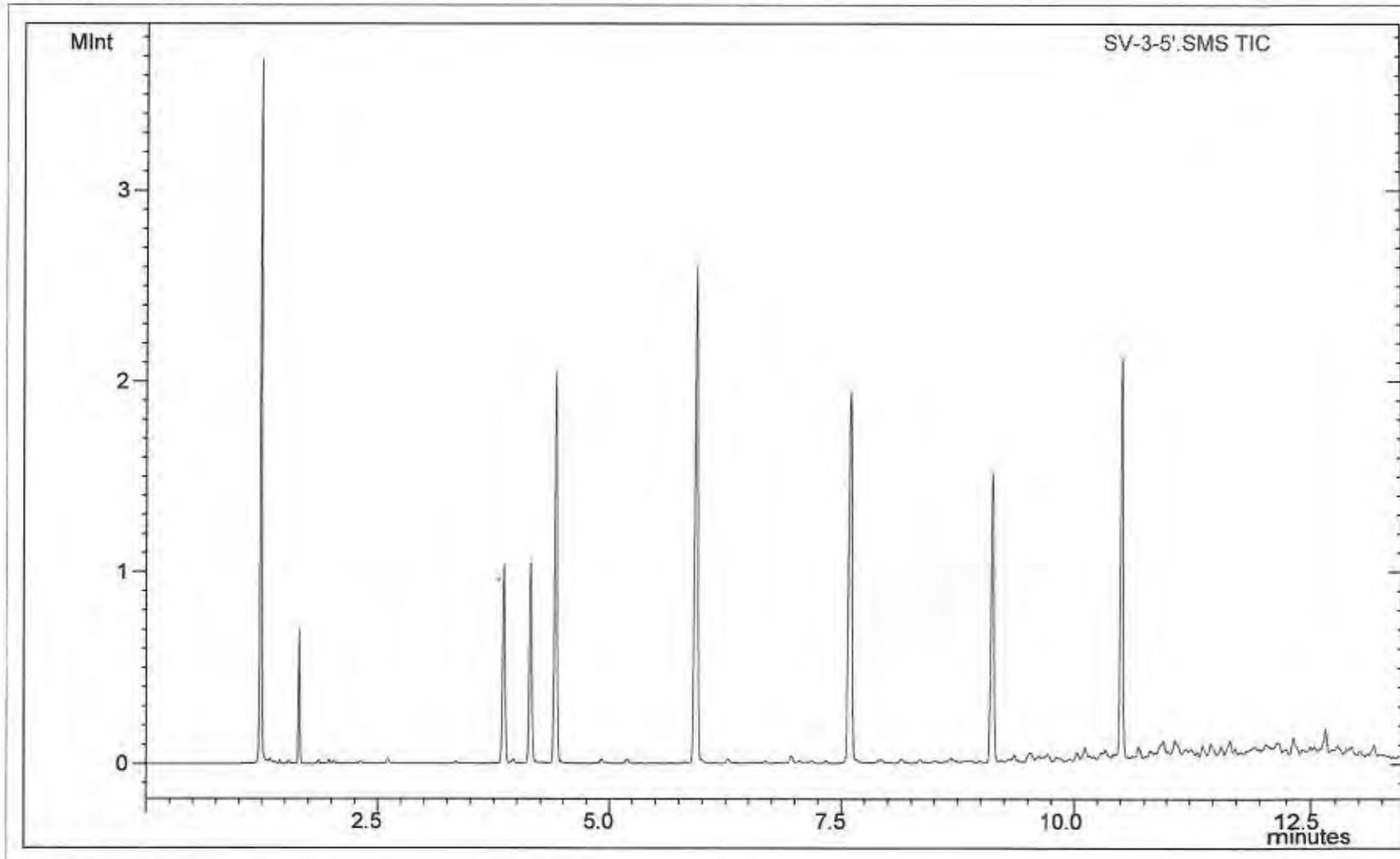
Approved _____

Date _____

CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:_jones reports\lab_2017\16-0680\16-021617-e-0680\SV-3-5'.SMS Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS
Acquisition Date: 2/16/2017 10:01 Cal. Sample Date Range: 7/30/2016 2:37 7/30/2016 2:37
EPA Sample No: SV-3-5' Operator: jsb
Lab Sample ID: SV-3-5' Dilution: 1



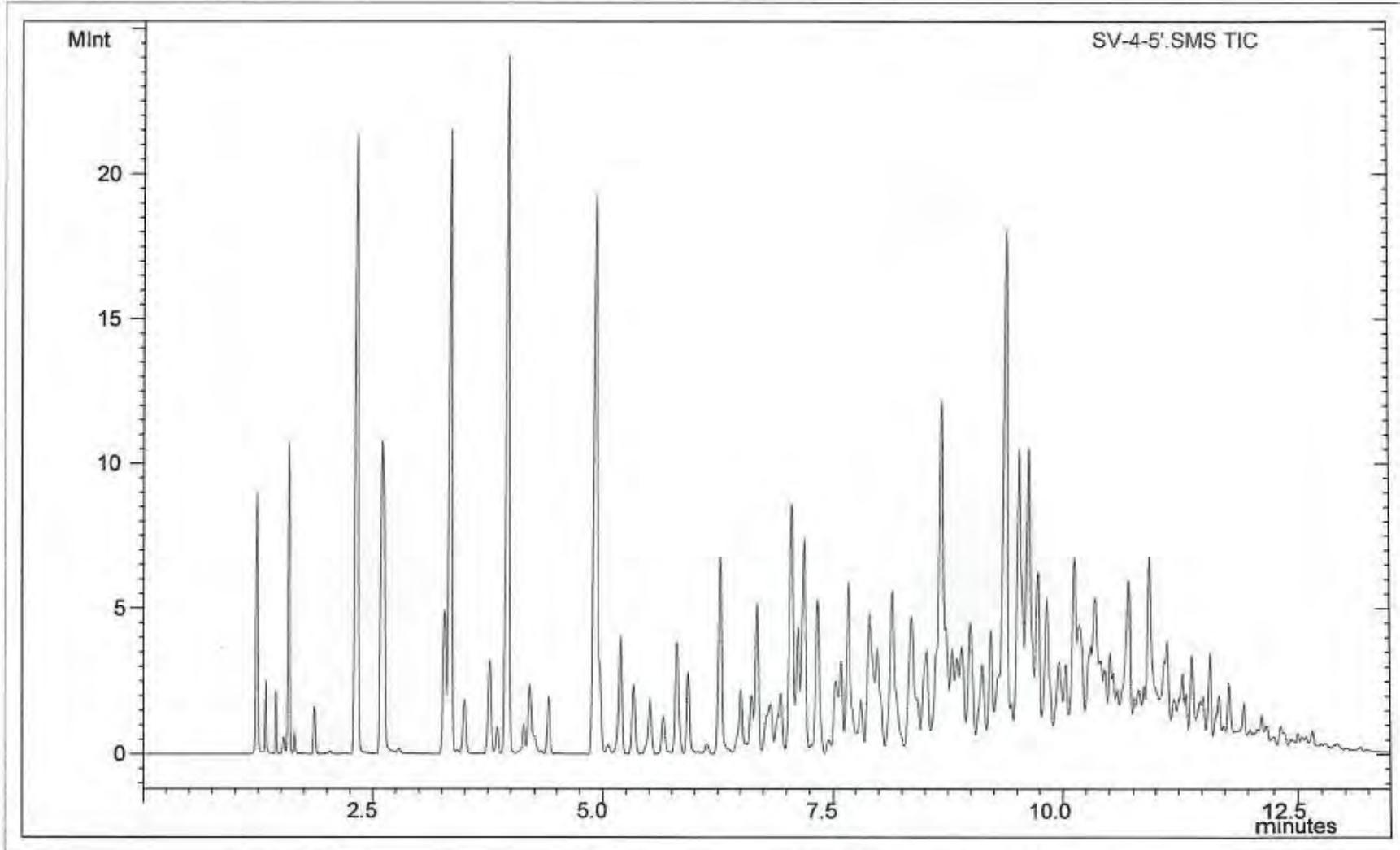
Approved _____

Date _____

CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:_jones reports\lab_2017\16-0680\1-021617-e-0680\SV-4-5'.SMS Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS
Acquisition Date: 2/16/2017 10:42 Cal. Sample Date Range: 7/30/2016 2:37 7/30/2016 2:37
EPA Sample No: SV-4-5' Operator: jsb
Lab Sample ID: SV-4-5' Dilution: 1



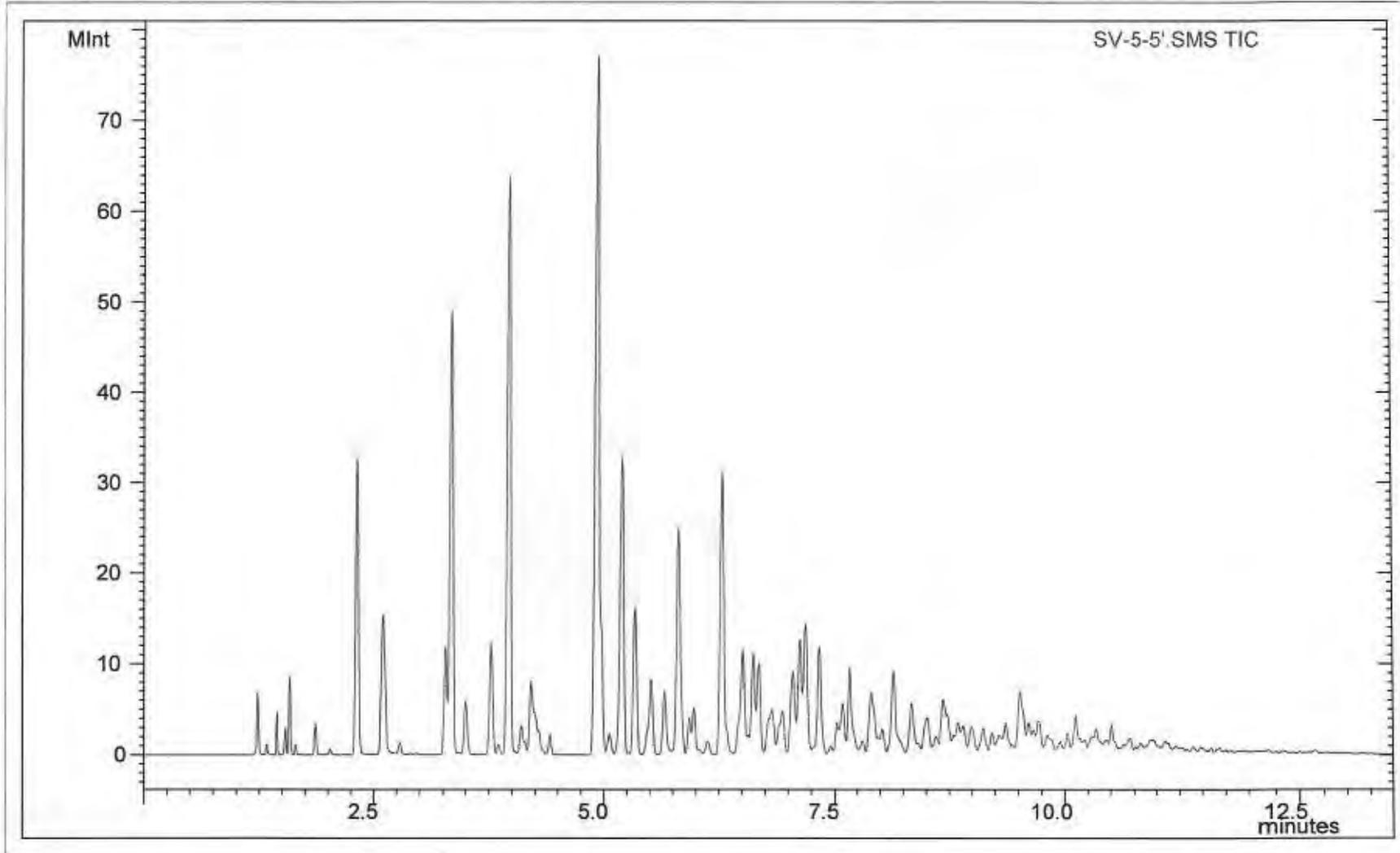
Approved _____

Date _____

CHROMATOGRAM REPORT

EPA Method 8260A

Lab File ID: s:_jones reports\le-lab_2017\le-0680\le1-021617-e-0680\SV-5-5'.SMS Calibration File: C:\Agilent\WS\2016-DATA\07-2016\CAL 072916\1000ppb.SMS
Acquisition Date: 2/16/2017 10:59 Cal. Sample Date Range: 7/30/2016 2:37 7/30/2016 2:37
EPA Sample No: SV-5-5' Operator: jsb
Lab Sample ID: SV-5-5' Dilution: 1



Approved _____

Date _____