



October 20, 2017
G-Logics File 01-0739-F

BV Holdings, LLC
Mr. Michael Nielson
10620 NE 9th Pl
Bellevue, WA 98004

Subject: Operation and Monitoring Memo, Biannual 2017
Former Drycleaner Location
106th Avenue NE and NE 8th Street
Bellevue, WA

Dear Mr. Nielson:

This memo summarizes G-Logics findings from monthly site visits, the first round of biannual-vapor sampling, and groundwater-elevation monitoring at the property (Figure 1). Additionally, analytical results from the collected vapor samples have been used to calculate the total amount of contaminant mass removed from the subsurface at the property. This work has been performed in accordance with our workplan *Authorization for SVE Continued Pulse Operation*, dated May 4, 2017.

Site Background

The Property is located on the northeast corner of the intersection of NE 8th Street and 106th Avenue NE in downtown Bellevue (Figure 1). During the 1950s, a single structure was built on the site and used as an auto-fueling and service station. In 1976, the service station was converted to operate as a retail/commercial space. A dry-cleaning business operated on the property from 1976 to 1986. During that time, a common dry-cleaning solvent known as tetrachloroethylene (PCE) was used in the operations. After 1986, the structure was used for various commercial uses, including a pet store and toy store (Thinker Toys) until 2007. In 2007, the structure was demolished and the site was converted to its current use as a parking lot.

Several environmental investigations have been conducted on the Property and immediate vicinity to evaluate contaminant impacts to soil and groundwater from release(s) of PCE. The results of a soil-vapor survey conducted in 2009 indicated chlorinated solvents were present on the Property. Two subsurface investigations conducted in 2010 confirmed that the soil and groundwater on the Property were contaminated with chlorinated solvents, specifically PCE and its associated degradation products. The highest concentrations of chlorinated solvents are located near the center of the Property (Figure 2) in the general vicinity of the former dry-cleaning operations.

In 2012, a SVE system was installed on the Property to reduce concentrations of PCE in soils at the Property and thereby reduce offsite migration of PCE-related substances. Specifically, the treatment system was installed in order to reduce soil concentrations such that when soils are excavated (as part of a future site development) they could be disposed as a non-hazardous waste, subject to Ecology approval. See G-Logics *Interim Action Report* dated, February 25, 2013 for more information.

SVE System Configuration

The SVE system consists of one regenerative blower, one rotary-vane compressor, related electrical equipment, and a moisture-reduction or “knockout” tank (K/O tank). The equipment is housed in a wood-framed building identified as the Equipment Shed (Figure 2). The regenerative blower produces a vacuum that removes subsurface vapors from the vadose zone. The regenerative blower operates on a pulsed schedule, running for two 6-hour periods every 24-hours (resting between operating times).

A vacuum-pipe line extends from the blower in the equipment shed to the north vault, where a manifold draws vacuum from SVE Wells 1 through 4. Similarly, a pipe line extends from the blower in the equipment shed to the south vault to draw vacuum from SVE Wells 5 through 9.

SVE System and Groundwater Monitoring

During monthly site visits, vacuum readings were observed on vacuum gauges and recorded. The vacuum gauges are located on the K/O tank and at each of the two vacuum lines immediately after the manifold. The manifold is located inside the shed, positioned between the K/O tank and the wells.

Depth to groundwater was measured in 13 existing monitoring wells, groundwater elevations also were calculated (Table 3). Although continuous groundwater has not been observed in exploratory borings to a depth of 50 feet below the surface (G-Logics, 2017), groundwater consistently accumulates in the monitoring wells. Based on depth to groundwater measurements, the potentiometric-groundwater surface stabilizes approximately 10-20 feet below the surface (with little seasonal variability) at the property. Groundwater-elevation calculations continue to indicate a groundwater-flow direction to the south/southwest.

Vapor Removal Discussion

On June 9, 2017, vapor samples were collected from the exhaust-stack and SVE Wells. A summary of G-Logics sampling methods are described in Appendix A. The vapor samples were analyzed by EPA Method 8260. Analytical data is summarized on Table 1, Graph 1. Analytical reports are attached in Appendix B.

The recent analytical results demonstrate that PCE continues to be removed from the soil on the property. Generally, the highest concentrations of PCE are found in the SVE Wells 1, 3, and 6. These wells are located in and/or near areas that have been previously mapped as having elevated concentrations of PCE in the soil (Figure 3). Between October 10, 2016 and June 9, 2017, an additional 2.14 pounds of PCE have been removed from the subsurface (Table 2).

Additional Discussion

The system has removed over 100 pounds of PCE since the system was started (December 7, 2012 to June 9, 2017), with the largest volume removed during the first year of system operation. Both the cumulative total and daily average of PCE removed are shown on Graph 2.

The most recent analytical results indicate that the system continues to remove PCE contaminants from the subsurface. The data also indicates that the rate of PCE removal from the surface is diminishing.

Recent soil-sampling results described in the G-Logics report, *Confirmation Sampling* dated February 26, 2017 indicate that the SVE system has reduced PCE concentrations in soil to

levels that will likely meet the criteria for disposal at a solid-waste landfill (if or when the soil is excavated for property redevelopment).

Recommendation

Based on G-Logics understanding of BV Holdings, LLC agreement with the Sterling Realty Organization (to reduce potential off-site migration), G-Logics recommends the SVE system continues to be operated under the current schedule.

Closing

We appreciate this opportunity to provide our services to you. Please contact us at your convenience with any questions regarding our work or findings.

Sincerely,

G-Logics, Inc.



Rory L. Galloway, LG, LHG
Principal



Jon Stordahl
Project Geologist

Attachments:

Figure 1 – Site Location Maps

Figure 2 – Site Diagram, SVE System Layout

Figure 3 – AS/SVE System Layout with PCE Mapping

Table 1 – Vapor Sample Analyses, Volatile Organic Compounds

Table 2 – Vapor Contaminant Removal Calculations

Table 3 – Groundwater Elevation Measurements

Graph 1 – Analytical Results for PCE Vapor

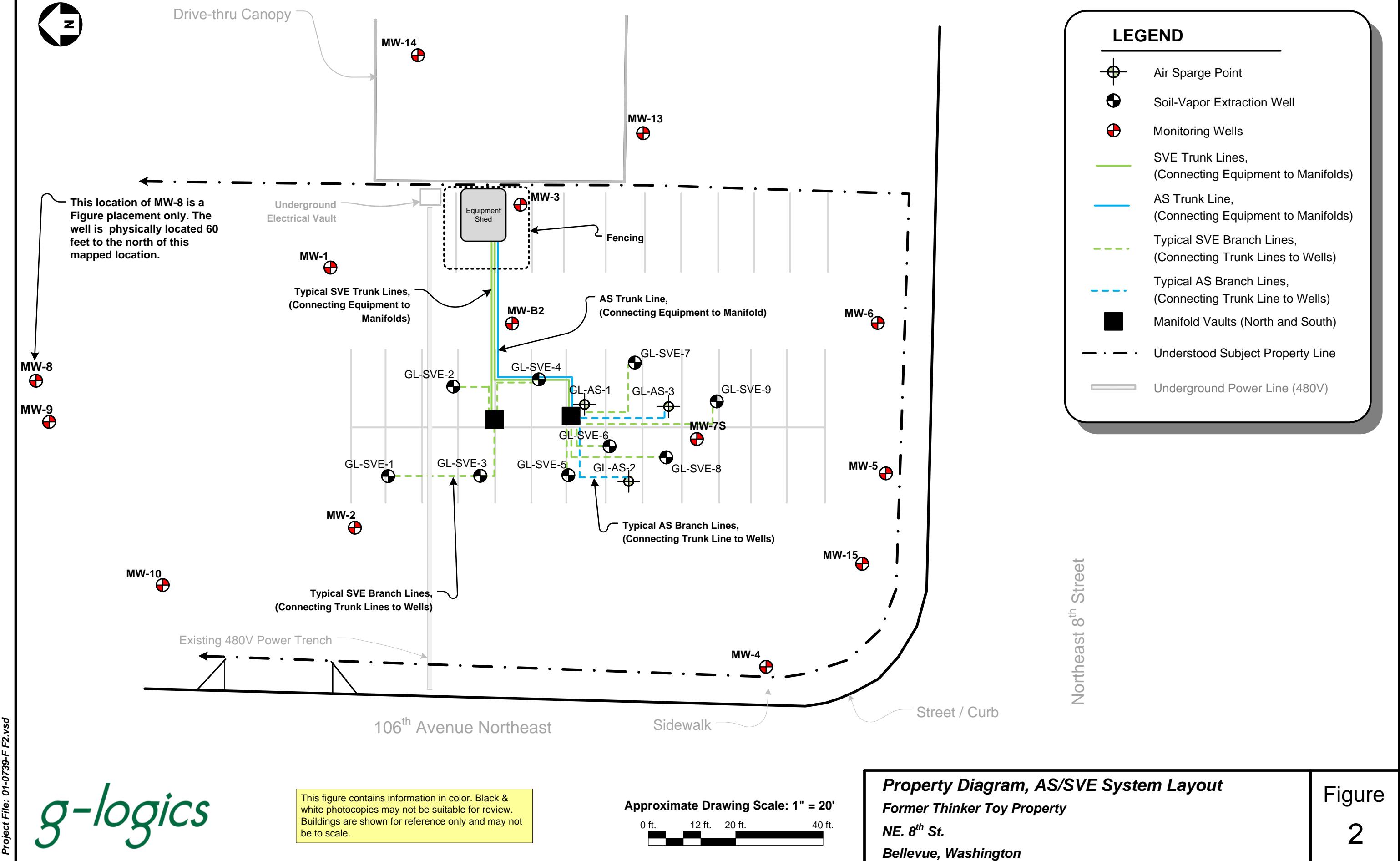
Graph 2 – Pounds of PCE Removal

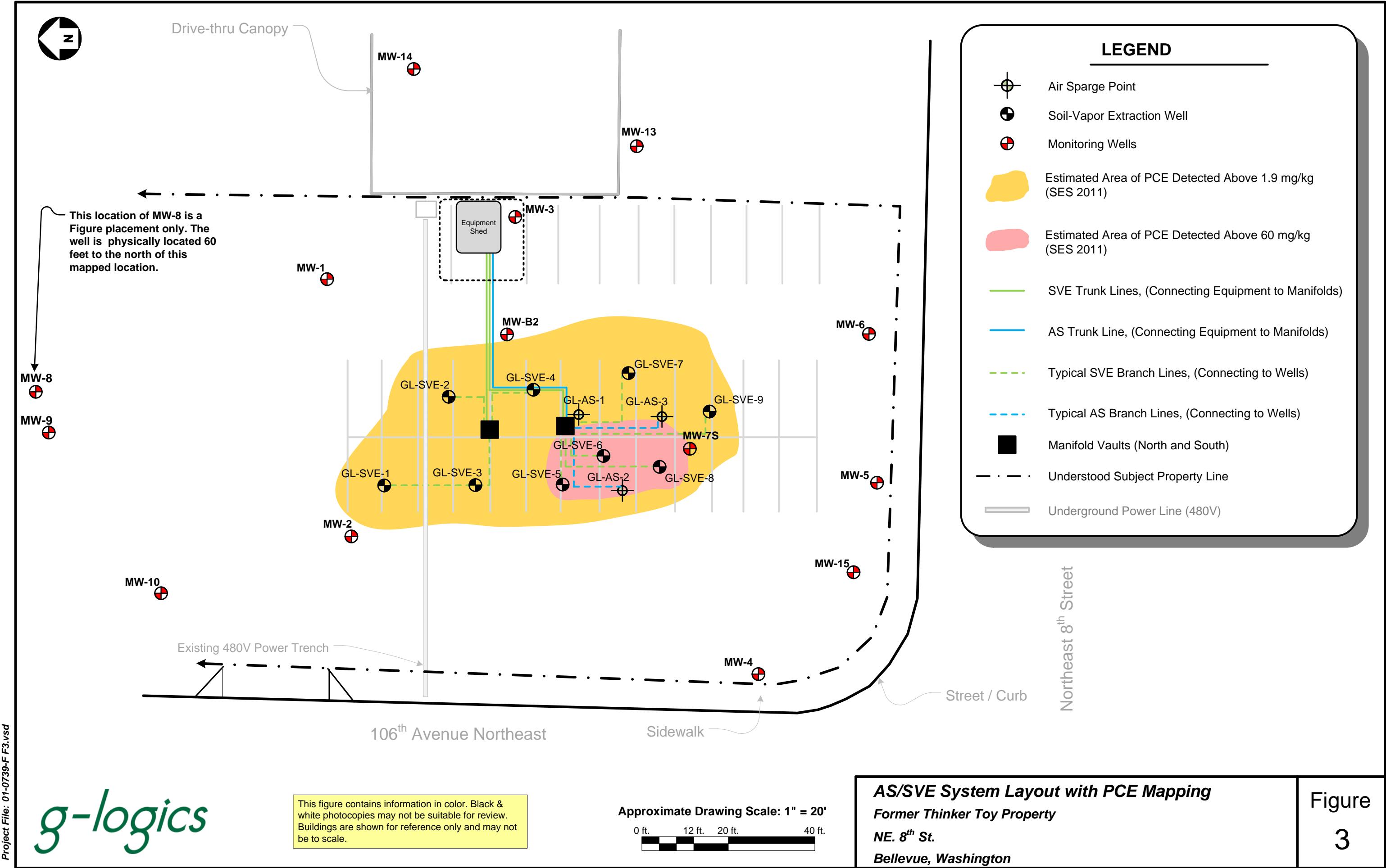
Appendix A – Field Methods

Appendix B – Analytical Report

FIGURES







TABLES

TABLE 1
Vapor Sample Analyses, Volatile Organic Compounds (1)
Former Thinker Toys (Bellevue)

Sample Location	Sample Date	Sample Number	trans-1,2-Dichloroethene	Chloroethane	Toluene	cis-1,2-Dichloroethene	Trichloroethene (TCE)	Tetrachloroethene (PCE)	Chloroform	m, p-Xylene	1,1,1-Trichloroethane
(Units reported in ug/L)											
Exhaust Stack	12/7/2012	Ex Stack	<0.100	<0.100	<0.100	1.32	1.29	21.4	<0.100	<0.100	<0.100
	12/28/2012	Ex Stack	<0.100	<0.100	<0.100	0.110	<0.100	28.0	<0.100	0.106	<0.100
	1/5/2013	Ex Stack	<0.100	<0.100	<0.100	0.103	<0.100	26.5	<0.100	<0.100	<0.100
	1/14/2013	Ex Stack (H)	<0.100	<0.100	<0.100	0.231	0.203	54.6	<0.100	<0.100	<0.100
	1/22/2013	Ex Stack	<0.100	<0.100	<0.100	0.169	0.169	64.7	<0.100	<0.100	<0.100
	1/31/2013	Ex Stack	<0.100	<0.100	<0.100	0.453	0.475	40.4	<0.100	<0.100	<0.100
	3/8/2013	Ex Stack	<0.100	<0.100	<0.100	<0.100	<0.100	19.4	<0.100	<0.100	<0.100
	4/10/2013	Ex Stack	<0.100	<0.100	<0.100	<0.100	<0.100	9.85	<0.100	<0.100	<0.100
	5/30/2013	Ex Stack	<0.100	<0.100	<0.100	<0.100	<0.100	8.0	<0.100	<0.100	<0.100
	6/11/2013	Ex Stack	<0.100	<0.100	<0.100	0.113	0.145	21.8	<0.100	<0.100	<0.100
	9/12/2013	Ex Stack	<0.100	<0.100	<0.100	<0.100	0.127	15.7	<0.100	<0.100	<0.100
	12/23/2013	Ex Stack	<0.100	<0.100	<0.100	<0.100	<0.100	4.65	<0.100	0.143	<0.100
	3/19/2014	Ex Stack Dup	<0.100	<0.100	<0.100	<0.100	<0.100	0.826	<0.100	<0.100	<0.100
	6/19/2014	Ex Stack	<0.100	<0.100	<0.100	<0.100	<0.100	2.24	<0.100	<0.100	<0.100
	9/19/2014	Ex Stack	<0.100	<0.100	<0.100	0.101	<0.100	8.00	<0.100	<0.100	<0.100
	12/19/2014	Ex Stack	<0.100	<0.100	<0.100	<0.100	<0.100	3.46	<0.100	<0.100	<0.100
	3/26/2015	Ex Stack	<0.100	<0.100	<0.100	<0.100	<0.100	1.38	<0.100	<0.100	<0.100
	6/26/2015	Ex Stack	<0.100	<0.100	<0.100	<0.100	0.105	10.00	<0.100	<0.100	<0.100
	1/7/2016	Ex Stack	<0.100	<0.100	<0.100	<0.100	<0.100	1.69	<0.100	<0.100	<0.100
	3/17/2016	Ex Stack	<0.100	<0.100	<0.100	<0.100	<0.100	1.50	<0.100	<0.100	<0.100
	6/23/2016	Ex Stack	<0.100	<0.100	0.161	<0.100	<0.100	1.03	<0.100	<0.100	<0.100
	10/10/2016	Ex Stack	<0.100	<0.100	<0.100	<0.100	0.103	4.12	<0.100	<0.100	<0.100
	6/12/2017	Ex Stack	<0.100	<0.100	<0.100	<0.100	<0.100	3.76	<0.100	<0.100	<0.100
SVE-1	1/31/2013	SVE-1	<0.100	<0.100	0.123	1.06	0.445	10.8	<0.100	<0.100	<0.100
	3/8/2013	SVE-1	<0.100	<0.100	<0.100	<0.100	0.147	14.0	<0.100	<0.100	<0.100
	4/10/2013	SVE-1	<0.100	<0.100	<0.100	0.271	0.289	22.8	<0.100	<0.100	<0.100
	5/30/2013	SVE-1	<0.100	<0.100	<0.100	0.333	<0.100	16.4	<0.100	<0.100	<0.100
	6/11/2013	SVE-1	<0.100	<0.100	<0.100	0.313	0.363	37.7	<0.100	<0.100	<0.100
	9/12/2013	SVE-1	<0.100	<0.100	<0.100	0.133	0.176	18.4	<0.100	<0.100	<0.100
	12/23/2013	SVE-1	<0.100	<0.100	<0.100	<0.100	<0.100	12.8	<0.100	<0.100	<0.100
	3/19/2014	SVE-1	<0.100	<0.100	<0.100	<0.100	<0.100	2.73	<0.100	<0.100	<0.100
	6/19/2014	SVE-1	<0.100	<0.100	<0.100	<0.100	<0.100	1.72	<0.100	<0.100	<0.100
	9/19/2014	SVE-1	<0.100	<0.100	<0.100	0.330	0.225	14.6	<0.100	<0.100	<0.100
	12/19/2014	SVE-1	<0.100	<0.100	0.134	<0.100	<0.100	2.12	<0.100	0.117	<0.100
	3/26/2015	SVE-1	<0.100	<0.100	<0.100	<0.100	<0.100	0.870	<0.100	<0.100	<0.100
	6/26/2015	SVE-1	<0.100	<0.100	<0.100	<0.100	<0.100	3.29	<0.100	<0.100	<0.100
	1/7/2016	SVE-1	<0.100	<0.100	<0.100	<0.100	<0.100	2.75	<0.100	<0.100	<0.100
	3/17/2016	SVE-1	<0.100	<0.100	<0.100	<0.100	<0.100	5.07	<0.100	<0.100	<0.100
	6/23/2016	SVE-1	<0.100	<0.100	<0.100	<0.100	<0.100	0.952	<0.100	<0.100	<0.100
	10/10/2016	SVE-1	<0.100	<0.100	<0.100	0.108	0.123	5.10	<0.100	<0.100	<0.100
	6/12/2017	SVE-1	<0.100	<0.100	<0.100	0.148	0.159	6.98	<0.100	<0.100	<0.100

TABLE 1
Vapor Sample Analyses, Volatile Organic Compounds (1)
Former Thinker Toys (Bellevue)

Sample Location	Sample Date	Sample Number	trans-1,2-Dichloroethene	Chloroethane	Toluene	cis-1,2-Dichloroethene	Trichloroethene (TCE)	Tetrachloroethene (PCE)	Chloroform	m, p-Xylene	1,1,1-Trichloroethane
(Units reported in ug/L)											
SVE-2	1/31/2013	SVE-2	<0.100	<0.100	0.132	1.04	0.466	5.64	<0.100	0.190	<0.100
	3/8/2013	SVE-2	<0.100	<0.100	<0.100	nd	<0.100	6.82	<0.100	nd	<0.100
	4/10/2013	SVE-2	<0.100	<0.100	<0.100	nd	<0.100	6.55	<0.100	nd	<0.100
	5/30/2013	SVE-2	<0.100	<0.100	<0.100	nd	<0.100	6.27	<0.100	nd	<0.100
	6/11/2013	SVE-2	<0.100	<0.100	<0.100	nd	<0.100	10.6	<0.100	nd	<0.100
	9/12/2013	SVE-2	<0.100	<0.100	<0.100	nd	<0.100	4.82	<0.100	nd	<0.100
	12/23/2013	SVE-2	<0.100	<0.100	<0.100	nd	<0.100	7.04	<0.100	nd	<0.100
	3/19/2014	SVE-2	<0.100	<0.100	<0.100	nd	<0.100	1.98	<0.100	nd	<0.100
	6/19/2014	SVE-2	<0.100	<0.100	<0.100	nd	<0.100	0.316	<0.100	nd	<0.100
	9/19/2014	SVE-2	<0.100	<0.100	<0.100	0.168	<0.100	3.93	<0.100	nd	<0.100
	12/19/2014	SVE-2	<0.100	<0.100	<0.100	nd	<0.100	1.23	<0.100	nd	<0.100
	3/26/2015	SVE-2	<0.100	<0.100	<0.100	nd	<0.100	0.677	<0.100	nd	<0.100
	6/26/2015	SVE-2	<0.100	<0.100	<0.100	nd	<0.100	1.28	<0.100	nd	<0.100
	1/7/2016	SVE-2	<0.100	<0.100	<0.100	nd	<0.100	1.63	<0.100	nd	<0.100
	3/17/2016	SVE-2	*	---	---	---	---	---	---	---	---
	6/23/2016	SVE-2	<0.100	<0.100	0.229	<0.100	<0.100	0.293	<0.100	<0.100	<0.100
	10/10/2016	SVE-2	<0.100	<0.100	<0.100	<0.100	<0.100	2.93	<0.100	<0.100	<0.100
	6/12/2017	SVE-2	<0.100	<0.100	<0.100	<0.100	<0.100	1.04	<0.100	0.104	<0.100
SVE-3	1/31/2013	SVE-3	<0.100	<0.100	0.125	1.030	0.460	15.8	<0.100	<0.100	<0.100
	3/8/2013	SVE-3	<0.100	<0.100	<0.100	1.07	0.553	13.6	<0.100	<0.100	<0.100
	4/10/2013	SVE-3	<0.100	<0.100	<0.100	0.340	0.426	14.2	<0.100	<0.100	<0.100
	5/30/2013	SVE-3	<0.100	<0.100	<0.100	1.08	0.494	14.8	<0.100	<0.100	<0.100
	6/11/2013	SVE-3	<0.100	<0.100	<0.100	3.14	1.74	36.7	<0.100	<0.100	<0.100
	9/12/2013	SVE-3	<0.100	<0.100	<0.100	0.989	0.495	15.8	<0.100	<0.100	<0.100
	12/23/2013	SVE-3	<0.100	<0.100	<0.100	<0.100	0.261	21.2	<0.100	<0.100	<0.100
	3/19/2014	SVE-3	<0.100	<0.100	<0.100	<0.100	<0.100	3.60	<0.100	<0.100	<0.100
	6/19/2014	SVE-3	<0.100	<0.100	<0.100	<0.100	<0.100	2.15	<0.100	<0.100	<0.100
	9/19/2014	SVE-3	<0.100	<0.100	<0.100	0.115	<0.100	2.21	<0.100	<0.100	<0.100
	12/19/2014	SVE-3	<0.100	<0.100	<0.100	<0.100	<0.100	1.49	<0.100	<0.100	<0.100
	3/26/2015	SVE-3	<0.100	<0.100	<0.100	<0.100	<0.100	3.78	<0.100	<0.100	<0.100
	6/26/2015	SVE-3	<0.100	<0.100	<0.100	<0.100	<0.100	0.93	<0.100	<0.100	<0.100
	1/7/2016	SVE-3	<0.100	<0.100	<0.100	<0.100	<0.100	0.93	<0.100	<0.100	<0.100
	3/17/2016	SVE-3	*	---	---	---	---	---	---	---	---
	6/23/2016	SVE-3	<0.100	<0.100	0.238	<0.100	0.176	3.76	<0.100	<0.100	<0.100
	10/10/2016	SVE-3	<0.100	<0.100	<0.100	<0.100	<0.100	2.51	<0.100	<0.100	<0.100
	6/12/2017	SVE-3	<0.100	<0.100	<0.100	0.140	0.193	2.49	<0.100	<0.100	<0.100

TABLE 1
Vapor Sample Analyses, Volatile Organic Compounds (1)
Former Thinker Toys (Bellevue)

Sample Location	Sample Date	Sample Number		trans-1,2-Dichloroethene	Chloroethane	Toluene	cis-1,2-Dichloroethene	Trichloroethene (TCE)	Tetrachloroethene (PCE)	Chloroform	m, p-Xylene	1,1,1-Trichloroethane
(Units reported in ug/L)												
SVE-4	1/31/2013	SVE-4	<0.100	<0.100	0.125	0.981	0.546	18.3	<0.100	<0.100	<0.100	<0.100
	3/8/2013	SVE-4	<0.100	<0.100	<0.100	0.853	3.380	70.5	<0.100	<0.100	<0.100	<0.100
	4/10/2013	SVE-4	<0.100	<0.100	<0.100	1.29	12.1	191	<0.100	<0.100	<0.100	<0.100
	5/30/2013	SVE-4	<0.100	<0.100	<0.100	0.40	2.52	78.2	<0.100	<0.100	<0.100	<0.100
	6/11/2013	SVE-4	<0.100	<0.100	<0.100	0.240	1.70	21.0	<0.100	<0.100	<0.100	<0.100
	9/12/2013	SVE-4	<0.100	<0.100	<0.100	2.74	15.3	493	<0.100	<0.100	<0.100	<0.100
	12/23/2013	SVE-4	<0.100	<0.100	<0.100	0.890	10.8	199	<0.100	<0.100	<0.100	<0.100
	3/19/2014	SVE-4	<0.100	<0.100	<0.100	<0.100	<0.100	4.77	<0.100	<0.100	<0.100	<0.100
	6/19/2014	SVE-4	<0.100	<0.100	<0.100	<0.100	<0.100	0.195	<0.100	<0.100	<0.100	<0.100
	9/19/2014	SVE-4	<0.100	<0.100	<0.100	0.686	7.01	119	<0.100	<0.100	<0.100	<0.100
	12/19/2014	SVE-4	<0.100	<0.100	<0.100	0.125	0.306	4.60	<0.100	<0.100	<0.100	<0.100
	3/26/2015	SVE-4	<0.100	<0.100	<0.100	<0.100	<0.100	2.09	<0.100	<0.100	<0.100	<0.100
	6/26/2015	SVE-4	<0.100	<0.100	<0.100	<0.100	<0.100	1.66	<0.100	<0.100	<0.100	<0.100
	1/7/2016	SVE-4	<0.100	<0.100	<0.100	<0.100	<0.100	0.67	<0.100	<0.100	<0.100	<0.100
	3/17/2016	SVE-4	*	---	---	---	---	---	---	---	---	---
	6/23/2016	SVE-4	<0.100	<0.100	0.249	<0.100	<0.100	1.73	<0.100	<0.100	<0.100	<0.100
	10/10/2016	SVE-4	<0.100	<0.100	<0.100	0.191	1.18	14.8	<0.100	<0.100	<0.100	<0.100
	6/12/2017	SVE-4	<0.100	<0.100	<0.100	<0.100	<0.100	0.662	<0.100	<0.100	<0.100	<0.100
SVE-5	1/31/2013	SVE-5	<0.100	<0.100	0.147	0.62	1.06	45.0	<0.100	<0.100	<0.100	<0.100
	3/8/2013	SVE-5	<0.100	<0.100	<0.100	0.46	0.66	55.2	<0.100	<0.100	<0.100	<0.100
	4/10/2013	SVE-5	<0.100	<0.100	<0.100	0.934	1.40	38.1	<0.100	<0.100	<0.100	<0.100
	5/30/2013	SVE-5	<0.100	0.222	<0.100	<0.100	0.473	33.3	<0.100	<0.100	<0.100	<0.100
	6/11/2013	SVE-5	0.458	<0.100	<0.100	5.87	9.23	238	<0.100	<0.100	<0.100	<0.100
	9/12/2013	SVE-5	0.224	<0.100	<0.100	4.04	8.7	1,720	0.135	<0.100	0.262	<0.100
	12/23/2013	SVE-5	<0.100	<0.100	<0.100	2.26	3.5	472	<0.100	<0.100	<0.100	<0.100
	3/19/2014	SVE-5	<0.100	<0.100	<0.100	<0.100	<0.100	6.07	<0.100	<0.100	<0.100	<0.100
	6/19/2014	SVE-5	<0.100	<0.100	<0.100	<0.100	<0.100	0.806	<0.100	<0.100	<0.100	<0.100
	9/19/2014	SVE-5	<0.100	<0.100	<0.100	0.311	0.648	125	<0.100	<0.100	<0.100	<0.100
	12/19/2014	SVE-5	<0.100	<0.100	<0.100	<0.100	<0.100	22.0	<0.100	<0.100	<0.100	<0.100
	3/26/2015	SVE-5	<0.100	<0.100	<0.100	<0.100	<0.100	0.196	16.7	<0.100	<0.100	<0.100
	6/26/2015	SVE-5	<0.100	<0.100	<0.100	<0.100	<0.100	0.259	50.10	<0.100	<0.100	<0.100
	1/7/2016	SVE-5	<0.100	<0.100	<0.100	0.478	1.88	53.80	<0.100	<0.100	<0.100	<0.100
	3/17/2016	SVE-5	<0.100	<0.100	<0.100	<0.100	<0.100	2.36	<0.100	<0.100	<0.100	<0.100
	6/23/2016	SVE-5	<0.100	<0.100	0.240	0.153	0.307	21.5	<0.100	<0.100	<0.100	<0.100
	10/10/2016	SVE-5	<0.100	<0.100	<0.100	1.23	4.70	174	<0.100	<0.100	<0.100	<0.100
	6/12/2017	SVE-5	<0.100	<0.100	<0.100	<0.100	<0.100	0.752	<0.100	<0.100	<0.100	<0.100

TABLE 1
Vapor Sample Analyses, Volatile Organic Compounds (1)
Former Thinker Toys (Bellevue)

Sample Location	Sample Date	Sample Number	trans-1,2-Dichloroethene	Chloroethane	Toluene	cis-1,2-Dichloroethene	Trichloroethene (TCE)	Tetrachloroethene (PCE)	Chloroform	m, p-Xylene	1,1,1-Trichloroethane
(Units reported in ug/L)											
SVE-6	1/31/2013	SVE-6	<0.100	<0.100	0.130	0.246	0.716	77.6	<0.100	<0.100	<0.100
	3/8/2013	SVE-6	<0.100	<0.100	<0.100	nd	0.257	307	<0.100	<0.100	<0.100
	4/10/2013	SVE-6	<0.100	<0.100	<0.100	0.204	0.471	240	<0.100	<0.100	<0.100
	5/30/2013	SVE-6	<0.100	<0.100	<0.100	nd	nd	47.4	<0.100	<0.100	<0.100
	6/11/2013	SVE-6	<0.100	<0.100	<0.100	0.284	1.21	370	<0.100	<0.100	<0.100
	9/12/2013	SVE-6	<0.100	<0.100	<0.100	0.287	0.748	238	<0.100	<0.100	<0.100
	12/23/2013	SVE-6	<0.100	<0.100	<0.100	0.153	0.290	55.3	<0.100	<0.100	<0.100
	3/19/2014	SVE-6	<0.100	<0.100	<0.100	nd	0.159	11.5	<0.100	<0.100	<0.100
	6/19/2014	SVE-6	<0.100	<0.100	<0.100	nd	nd	1.2	<0.100	<0.100	<0.100
	9/19/2014	SVE-6	<0.100	<0.100	<0.100	0.835	0.960	196	<0.100	<0.100	<0.100
	12/19/2014	SVE-6	<0.100	<0.100	<0.100	0.287	0.348	27.7	<0.100	<0.100	<0.100
	3/26/2015	SVE-6	<0.100	<0.100	<0.100	nd	0.130	13.6	<0.100	<0.100	<0.100
	6/26/2015	SVE-6	<0.100	<0.100	<0.100	nd	nd	14.60	<0.100	<0.100	<0.100
	1/7/2016	SVE-6	<0.100	<0.100	<0.100	0.157	0.491	39.40	<0.100	<0.100	<0.100
	3/17/2016	SVE-6	<0.100	<0.100	<0.100	0.199	0.350	16.8	<0.100	<0.100	<0.100
	6/23/2016	SVE-6	<0.100	<0.100	0.212	<0.100	<0.100	7.55	<0.100	<0.100	<0.100
	10/10/2016	SVE-6	<0.100	<0.100	<0.100	0.358	1.13	57.4	<0.100	<0.100	<0.100
	6/12/2017	SVE-6	<0.100	<0.100	<0.100	<0.100	<0.100	2.98	<0.100	<0.100	<0.100
SVE-7	1/31/2013	SVE-7	<0.100	<0.100	0.139	0.388	0.712	57.2	<0.100	0.187	<0.100
	3/8/2013	SVE-7	<0.100	<0.100	<0.100	0.591	7.500	165.0	<0.100	<0.100	<0.100
	4/10/2013	SVE-7	<0.100	<0.100	<0.100	<0.100	0.688	22.9	<0.100	<0.100	<0.100
	5/30/2013	SVE-7	<0.100	<0.100	<0.100	<0.100	<0.100	6.0	<0.100	<0.100	<0.100
	6/11/2013	SVE-7	<0.100	<0.100	<0.100	<0.100	1.72	89.0	<0.100	<0.100	<0.100
	9/12/2013	SVE-7	<0.100	<0.100	<0.100	0.570	16.2	330	<0.100	<0.100	<0.100
	12/23/2013	SVE-7	<0.100	<0.100	<0.100	0.244	6.1	102	<0.100	<0.100	<0.100
	3/19/2014	SVE-7	<0.100	<0.100	<0.100	<0.100	1.34	18.6	<0.100	<0.100	<0.100
	6/19/2014	SVE-7	<0.100	<0.100	<0.100	<0.100	0.664	3.10	<0.100	<0.100	<0.100
	9/19/2014	SVE-7	<0.100	<0.100	<0.100	0.107	1.530	87.6	<0.100	<0.100	<0.100
	12/19/2014	SVE-7	<0.100	<0.100	<0.100	<0.100	0.338	13.8	<0.100	<0.100	<0.100
	3/26/2015	SVE-7	<0.100	<0.100	<0.100	<0.100	0.436	7.24	<0.100	<0.100	<0.100
	6/26/2015	SVE-7	<0.100	<0.100	<0.100	<0.100	0.104	6.25	<0.100	<0.100	<0.100
	1/7/2016	SVE-7	<0.100	<0.100	<0.100	<0.100	0.975	29.0	<0.100	<0.100	<0.100
	3/17/2016	SVE-7	<0.100	<0.100	<0.100	<0.100	<0.100	1.0	<0.100	<0.100	<0.100
	6/23/2016	SVE-7	<0.100	<0.100	0.203	<0.100	0.310	7.9	<0.100	<0.100	<0.100
	10/10/2016	SVE-7	<0.100	<0.100	<0.100	0.231	2.61	55.7	<0.100	<0.100	<0.100
	6/12/2017	SVE-7	<0.100	<0.100	<0.100	<0.100	<0.100	1.42	<0.100	<0.100	<0.100

TABLE 1
Vapor Sample Analyses, Volatile Organic Compounds (1)
Former Thinker Toys (Bellevue)

Sample Location	Sample Date	Sample Number		trans-1,2-Dichloroethene	Chloroethane	Toluene	cis-1,2-Dichloroethene	Trichloroethene (TCE)	Tetrachloroethene (PCE)	Chloroform	m, p-Xylene	1,1,1-Trichloroethane
(Units reported in ug/L)												
SVE-8	1/31/2013	SVE-8	<0.100	<0.100	0.134	0.349	0.373	19.7	<0.100	0.203	<0.100	<0.100
	3/8/2013	SVE-8	<0.100	<0.100	nd	nd	0.108	6.9	<0.100	nd	<0.100	<0.100
	4/10/2013	SVE-8	<0.100	<0.100	nd	nd	nd	4.8	<0.100	nd	<0.100	<0.100
	5/30/2013	SVE-8	<0.100	<0.100	nd	nd	nd	4.75	<0.100	nd	<0.100	<0.100
	6/11/2013	SVE-8	<0.100	<0.100	nd	nd	0.175	31.6	<0.100	nd	<0.100	<0.100
	9/12/2013	SVE-8	<0.100	<0.100	nd	nd	0.243	26.3	<0.100	nd	<0.100	<0.100
	12/23/2013	SVE-8	<0.100	<0.100	nd	nd	nd	1.3	<0.100	nd	<0.100	<0.100
	3/19/2014	SVE-8	<0.100	<0.100	nd	nd	0.391	10.5	<0.100	nd	<0.100	<0.100
	6/19/2014	SVE-8	<0.100	<0.100	nd	nd	0.163	2.08	<0.100	nd	<0.100	<0.100
	9/19/2014	SVE-8	<0.100	<0.100	nd	nd	nd	13.7	<0.100	nd	<0.100	<0.100
	12/19/2014	SVE-8	<0.100	<0.100	nd	nd	nd	6.04	<0.100	nd	<0.100	<0.100
	3/26/2015	SVE-8	<0.100	<0.100	nd	nd	nd	2.01	<0.100	nd	<0.100	<0.100
	6/26/2015	SVE-8	<0.100	<0.100	nd	nd	nd	2.45	<0.100	nd	<0.100	<0.100
	1/7/2016	SVE-8	<0.100	<0.100	nd	nd	0.189	12.9	<0.100	nd	<0.100	<0.100
	3/17/2016	SVE-8	*	---	---	---	---	---	---	---	---	---
	6/23/2016	SVE-8	<0.100	<0.100	0.201	<0.100	<0.100	3.75	<0.100	<0.100	<0.100	<0.100
	10/10/2016	SVE-8	<0.100	<0.100	<0.100	<0.100	0.489	26.7	<0.100	<0.100	<0.100	<0.100
	6/12/2017	SVE-8	<0.100	<0.100	<0.100	<0.100	<0.100	0.570	<0.100	<0.100	<0.100	<0.100
SVE-9	1/31/2013	SVE-9	<0.100	<0.100	0.123	0.312	0.256	14.4	<0.100	<0.100	<0.100	<0.100
	3/8/2013	SVE-9	<0.100	<0.100	<0.100	<0.100	<0.100	17.2	<0.100	<0.100	<0.100	<0.100
	4/10/2013	SVE-9	<0.100	<0.100	<0.100	<0.100	<0.100	6.20	<0.100	<0.100	<0.100	<0.100
	5/30/2013	SVE-9	<0.100	0.222	<0.100	<0.100	<0.100	13.7	<0.100	<0.100	<0.100	<0.100
	6/11/2013	SVE-9	<0.100	<0.100	<0.100	<0.100	<0.100	15.2	<0.100	<0.100	<0.100	<0.100
	9/12/2013	SVE-9	<0.100	<0.100	<0.100	<0.100	0.441	39.4	<0.100	<0.100	<0.100	<0.100
	12/23/2013	SVE-9	<0.100	<0.100	<0.100	<0.100	<0.100	1.58	<0.100	<0.100	<0.100	<0.100
	3/19/2014	SVE-9	<0.100	<0.100	<0.100	<0.100	0.158	6.32	<0.100	<0.100	<0.100	<0.100
	6/19/2014	SVE-9	<0.100	<0.100	<0.100	<0.100	<0.100	0.603	<0.100	<0.100	<0.100	<0.100
	9/19/2014	SVE-9	<0.100	<0.100	<0.100	<0.100	<0.100	5.34	<0.100	<0.100	<0.100	<0.100
	12/19/2014	SVE-9	<0.100	<0.100	<0.100	<0.100	<0.100	4.53	<0.100	<0.100	<0.100	<0.100
	3/26/2015	SVE-9	<0.100	<0.100	<0.100	<0.100	<0.100	1.15	<0.100	<0.100	<0.100	<0.100
	6/26/2015	SVE-9	<0.100	<0.100	<0.100	<0.100	<0.100	1.90	<0.100	<0.100	<0.100	<0.100
	1/7/2016	SVE-9	<0.100	<0.100	<0.100	<0.100	<0.100	0.125	10.60	<0.100	<0.100	<0.100
	3/17/2016	SVE-9	*	---	---	---	---	---	---	---	---	---
	6/23/2016	SVE-9	<0.100	<0.100	0.178	<0.100	<0.100	2.88	<0.100	<0.100	<0.100	<0.100
	10/10/2016	SVE-9	<0.100	<0.100	<0.100	<0.100	<0.100	0.234	16.7	<0.100	<0.100	<0.100
	6/12/2017	SVE-9	<0.100	<0.100	<0.100	<0.100	<0.100	0.922	<0.100	<0.100	<0.100	<0.100
RL			0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100

Notes: Refer to site diagram(s) for sampling locations.

(1) Method EPA 8260B, Other 8260 Compounds not listed were not detected.

H Holding times for preparation or analysis exceeded.

<0.10 The analyte was not detected at a concentration above the indicated reporting limit.

--- Not Analyzed - No Sample Collected

* Well closed at valve, no sample collected this event.

4.8 Bold Number(s) Indicates Contaminant Detected.

RL Laboratory Reporting Limits for EPA Method 8260

dup Duplicate Sample

Most Recent Sampling Event

Table 2
Vapor Contaminant Removal Summary Calculations
Former Thinker Toys (Bellevue)
Tetrachloroethene (PCE) Removal

Period Start Date	Period End Date	Pounds Removed During Period	Elapsed Days During Period	Pounds Removed Daily (Average for Sampling Interval)
December 7, 2012	December 28, 2012	4.43	21	0.211
December 28, 2012	January 5, 2013	2.27	8	0.284
January 5, 2013	January 14, 2013	3.10	9	0.344
January 14, 2013	January 22, 2013	2.79	8	0.349
January 22, 2013	January 31, 2013	2.96	9	0.329
January 31, 2013	March 8, 2013	10.35	36	0.288
March 8, 2013	April 10, 2013	5.94	33	0.180
April 10, 2013	May 30, 2013	5.58	50	0.112
May 30, 2013	June 11, 2013	2.27	12	0.189
June 11, 2013	September 12, 2013	22.10	93	0.238
September 12, 2013	December 23, 2013	13.16	102	0.129
December 23, 2013	March 19, 2014	3.01	86	0.035
March 19, 2014	June 19, 2014	1.79	92	0.019
June 19, 2014	September 19, 2014	5.78	92	0.063
September 19, 2014	December 19, 2014	3.21	91	0.035
December 19, 2014	March 26, 2015	1.46	97	0.015
March 26, 2015	June 26, 2015	3.22	92	0.035
June 26, 2015	January 7, 2016	4.92	195	0.025
January 7, 2016	March 17, 2016	0.94	70	0.013
March 17, 2016	June 23, 2016	0.24	97	0.003
June 23, 2016	October 10, 2016	0.56	109	0.005
October 10, 2016	June 9, 2017	2.14	242	0.009
*Total Pounds Removed:		102.22		
*Total Days of Operation:		1,645		

* Quantity estimated from start of operation to most recent day of sample collection.

TABLE 3
Groundwater Elevation Measurements
Former Thinker Toys (Bellevue)
10610 Northeast 8th Street

Well	Measured By	Well Installation Date	Elevation Monument Rim (ft.)	Elevation Top of PVC Casing (ft.)	Depth to Top of Screen (ft.)	Depth to Bottom of Screen (ft.)	Well Diameter (in.)	Date Measured	Depth to Water (ft.)	Calculated Elevations (ft.)
MW-1	Farallon	4/19/10	161.37	161.04	15	30	2	5/3/10	13.58	147.46
	Farallon							08/23/10	14.45	146.59
	G-logics							09/13/13	15.92	145.12
	G-logics							12/20/13	16.74	144.30
	G-logics							03/19/14	13.97	147.07
	G-logics							06/19/14	13.50	147.54
	G-logics							09/17/14	16.36	144.68
	G-logics							12/19/14	16.42	144.62
	G-logics							03/26/15	15.50	145.54
	G-logics							06/26/15	16.48	144.56
	G-logics							01/07/16	16.88	144.16
	G-logics							03/17/16	15.24	145.80
	G-logics							06/23/16	15.77	145.27
	G-logics							06/09/17	12.85	148.19
MW-2	Farallon	4/19/10	159.53	159.08	15	30	2	5/3/10	11.70	147.38
	Farallon							08/23/10	13.35	145.73
	G-logics							09/13/13	13.75	145.33
	G-logics							12/20/13	14.24	144.84
	G-logics							03/19/14	11.78	147.30
	G-logics							06/19/14	11.52	147.56
	G-logics							09/17/14	13.98	145.10
	G-logics							12/19/14	13.54	145.54
	G-logics							03/26/15	12.92	146.16
	G-logics							06/26/15	13.85	145.23
	G-logics							01/07/16	14.45	144.63
	G-logics							03/17/16	13.35	145.73
	G-logics							06/23/16	13.72	145.36
	G-logics							06/09/17	11.10	147.98
MW-3	Farallon	4/19/10	161.26	160.88	15	30	2	5/3/10	15.80	145.08
	Farallon							08/23/10	16.11	144.77
	G-logics							09/13/13	12.20	148.68
	G-logics							12/20/13	17.99	142.89
	G-logics							03/19/14	15.81	145.07
	G-logics							06/19/14	14.45	146.43
	G-logics							09/17/14	17.52	143.36
	G-logics							12/19/14	17.54	143.34
	G-logics							03/26/15	17.03	143.85
	G-logics							06/26/15	17.85	143.03
	G-logics							01/07/16	18.21	142.67
	G-logics							03/17/16	16.72	144.16
	G-logics							06/23/16	17.15	143.73
	G-logics							06/09/17	13.84	147.04

TABLE 3
Groundwater Elevation Measurements
Former Thinker Toys (Bellevue)
10610 Northeast 8th Street

Well	Measured By	Well Installation Date	Elevation Monument Rim (ft.)	Elevation Top of PVC Casing (ft.)	Depth to Top of Screen (ft.)	Depth to Bottom of Screen (ft.)	Well Diameter (in.)	Date Measured	Depth to Water (ft.)	Calculated Elevations (ft.)
MW-4	Farallon	4/20/10	157.77	157.44	15	30	2	5/3/10	17.01	140.43
	Farallon							08/23/10	17.45	139.99
	G-logics							09/13/13	17.38	140.06
	G-logics							12/20/13	18.40	139.04
	G-logics							03/19/14	16.28	141.16
	G-logics							06/19/14	16.45	140.99
	G-logics							09/17/14	18.49	138.95
	G-logics							12/19/14	17.20	140.24
	G-logics							03/26/15	17.10	140.34
	G-logics							06/26/15	17.85	139.59
	G-logics							01/07/16	18.94	138.50
	G-logics							03/17/16	17.56	139.89
	G-logics							06/23/16	17.58	139.86
	G-logics							06/09/17	16.09	141.35
MW-5	Farallon	4/20/10	158.60	158.60	15	30	2	5/3/10	19.54	139.06
	Farallon							08/23/10	20.25	138.35
	G-logics							09/13/13	19.98	138.62
	G-logics							12/20/13	24.02	134.58
	G-logics							03/19/14	19.51	139.09
	G-logics							06/19/14	18.05	140.55
	G-logics							09/17/14	20.09	138.51
	G-logics							12/19/14	19.77	138.83
	G-logics							03/26/15	19.20	139.40
	G-logics							06/26/15	20.00	138.60
	G-logics							01/07/16	21.95	136.65
	G-logics							03/17/16	19.10	139.50
	G-logics							06/23/16	19.57	139.03
	G-logics							06/09/17	16.75	141.85
MW-6	Farallon	4/20/10	159.28	159.00	15	30	2	5/3/10	19.55	139.45
	Farallon							08/23/10	20.13	138.87
	G-logics							09/13/13	20.02	138.98
	G-logics							12/20/13	23.72	135.28
	G-logics							03/19/14	19.18	139.82
	G-logics							06/19/14	17.73	141.27
	G-logics							09/17/14	19.75	139.25
	G-logics							12/19/14	19.50	139.50
	G-logics							03/26/15	19.10	139.90
	G-logics							06/26/15	19.10	139.90
	G-logics							01/07/16	22.84	136.16
	G-logics							03/17/16	19.08	139.92
	G-logics							06/23/16	19.21	139.79
	G-logics							06/09/17	16.44	142.56

TABLE 3
Groundwater Elevation Measurements
Former Thinker Toys (Bellevue)
10610 Northeast 8th Street

Well	Measured By	Well Installation Date	Elevation Monument Rim (ft.)	Elevation Top of PVC Casing (ft.)	Depth to Top of Screen (ft.)	Depth to Bottom of Screen (ft.)	Well Diameter (in.)	Date Measured	Depth to Water (ft.)	Calculated Elevations (ft.)
MW-7S	Farallon	8/4/10	159.28	159.51	15	30	2	8/23/10	18.08	141.43
	G-logics							09/13/13	18.28	141.23
	G-logics							12/20/13	18.77	140.74
	G-logics							03/19/14	17.25	142.26
	G-logics							06/19/14	16.17	143.34
	G-logics							09/17/14	18.34	141.17
	G-logics							12/19/14	18.02	141.49
	G-logics							03/26/15	17.73	141.78
	G-logics							06/26/15	18.42	141.09
	G-logics							01/07/16	18.82	140.69
	G-logics							03/17/16	17.80	141.71
	G-logics							06/23/16	17.85	141.66
	G-logics							06/09/17	14.83	144.68
MW-8	Farallon	8/6/10	160.71	160.25	15	30	2	8/23/10	11.55	148.70
	G-logics							09/13/13	13.20	147.05
	G-logics							12/20/13	12.74	147.51
	G-logics							03/19/14	12.08	148.17
	G-logics							06/19/14	12.08	148.17
	G-logics							09/17/14	12.81	147.44
	G-logics							12/19/14	12.63	147.62
	G-logics							03/26/15	Not Available	
	G-logics							06/26/15	Not Available	
	G-logics							01/07/16	Not Available	
	G-logics							03/17/16	Not Available	
	G-logics							06/23/16	12.30	147.95
	G-logics							06/09/17	7.89	152.36
MW-9	Farallon	8/5/10	160.65	160.08	15	30	2	8/23/10	12.33	147.75
	G-logics							09/13/13	13.65	146.43
	G-logics							12/20/13	14.00	146.08
	G-logics							03/19/14	10.83	149.25
	G-logics							06/19/14	10.56	149.52
	G-logics							09/17/14	13.72	146.36
	G-logics							12/19/14	13.30	146.78
	G-logics							03/26/15	12.42	147.66
	G-logics							06/26/15	13.68	146.40
	G-logics							01/07/16	14.14	145.94
	G-logics							03/17/16	11.64	148.44
	G-logics							06/23/16	11.87	148.21
	G-logics							06/09/17	9.22	150.86

TABLE 3
Groundwater Elevation Measurements
Former Thinker Toys (Bellevue)
10610 Northeast 8th Street

Well	Measured By	Well Installation Date	Elevation Monument Rim (ft.)	Elevation Top of PVC Casing (ft.)	Depth to Top of Screen (ft.)	Depth to Bottom of Screen (ft.)	Well Diameter (in.)	Date Measured	Depth to Water (ft.)	Calculated Elevations (ft.)
MW-10	Farallon	8/5/10	160.32	159.93	15	30	2	8/23/10	13.55	146.38
	G-logics							09/13/13	14.05	145.88
	G-logics							12/20/13	14.46	145.47
	G-logics							03/19/14	11.58	148.35
	G-logics							06/19/14	11.79	148.14
	G-logics							09/17/14	14.25	145.68
	G-logics							12/19/14	13.82	146.11
	G-logics							03/26/15	13.15	146.78
	G-logics							06/26/15	14.02	145.91
	G-logics							01/07/16	14.22	145.71
	G-logics							03/17/16	12.95	146.98
	G-logics							06/23/16	13.12	146.81
	G-logics							06/09/17	10.71	149.22
MW-13	Farallon	8/6/10	162.26	161.71	15	30	2	8/23/10	18.77	142.94
	G-logics							09/13/13	19.55	142.16
	G-logics							12/20/13	20.24	141.47
	G-logics							03/19/14	18.65	143.06
	G-logics							06/19/14	16.33	145.38
	G-logics							09/17/14	19.88	141.83
	G-logics							12/19/14	19.94	141.77
	G-logics							03/26/15	Not Available	
	G-logics							06/26/15	Not Available	
	G-logics							01/07/16	Not Available	
	G-logics							03/17/16	Not Available	
	G-logics							06/23/16	18.66	143.05
	G-logics							06/09/17	15.40	146.31
MW-14	Farallon	8/11/10	163.30	162.96	15	30	2	8/23/10	15.79	147.17
	G-logics							09/13/13	18.25	144.71
	G-logics							12/20/13	22.23	140.73
	G-logics							03/19/14	17.98	144.98
	G-logics							06/19/14	15.54	147.42
	G-logics							09/17/14	20.06	142.90
	G-logics							12/19/14	20.16	142.80
	G-logics							03/26/15	20.16	142.80
	G-logics							06/26/15	21.22	141.74
	G-logics							01/07/16	21.64	141.32
	G-logics							03/17/16	18.55	144.41
	G-logics							06/23/16	18.74	144.22
	G-logics							06/09/17	15.11	147.85

TABLE 3
Groundwater Elevation Measurements
Former Thinker Toys (Bellevue)
10610 Northeast 8th Street

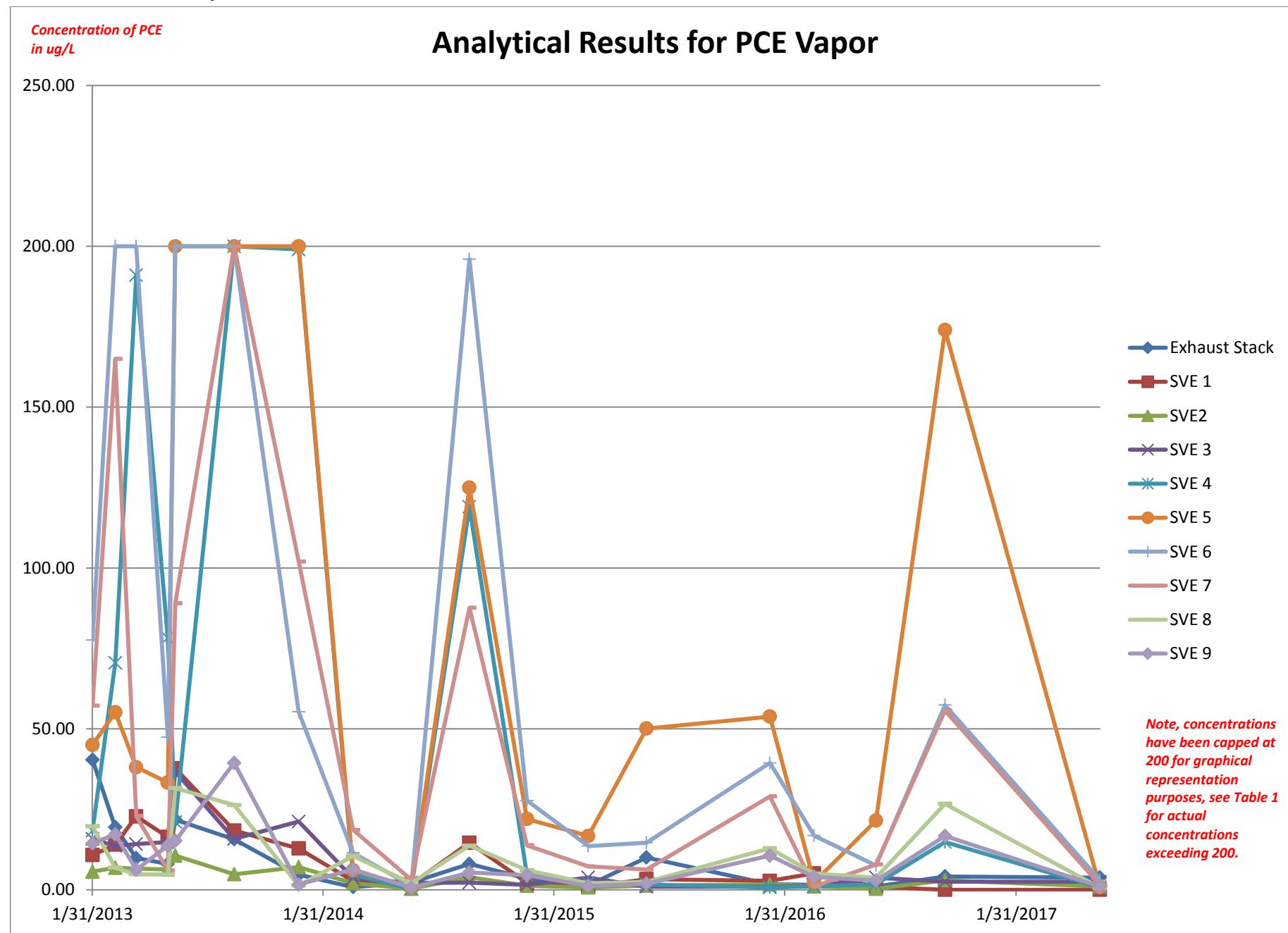
Well	Measured By	Well Installation Date	Elevation Monument Rim (ft.)	Elevation Top of PVC Casing (ft.)	Depth to Top of Screen (ft.)	Depth to Bottom of Screen (ft.)	Well Diameter (in.)	Date Measured	Depth to Water (ft.)	Calculated Elevations (ft.)
MW-15	Farallon	8/4/10	158.31	157.76	15	30	2	8/23/10	18.86	140.65
	G-logics							09/13/13	19.10	140.41
	G-logics							12/20/13	21.21	138.30
	G-logics							03/19/14	18.06	141.45
	G-logics							06/19/14	17.17	142.34
	G-logics							09/17/14	20.44	139.07
	G-logics							12/19/14	18.48	141.03
	G-logics							03/26/15	18.18	141.33
	G-logics							06/26/15	20.03	139.48
	G-logics							01/07/16	19.92	139.59
	G-logics							03/17/16	18.21	141.30
	G-logics							06/23/16	18.63	140.88
	G-logics							06/09/17	15.97	143.54

Notes:

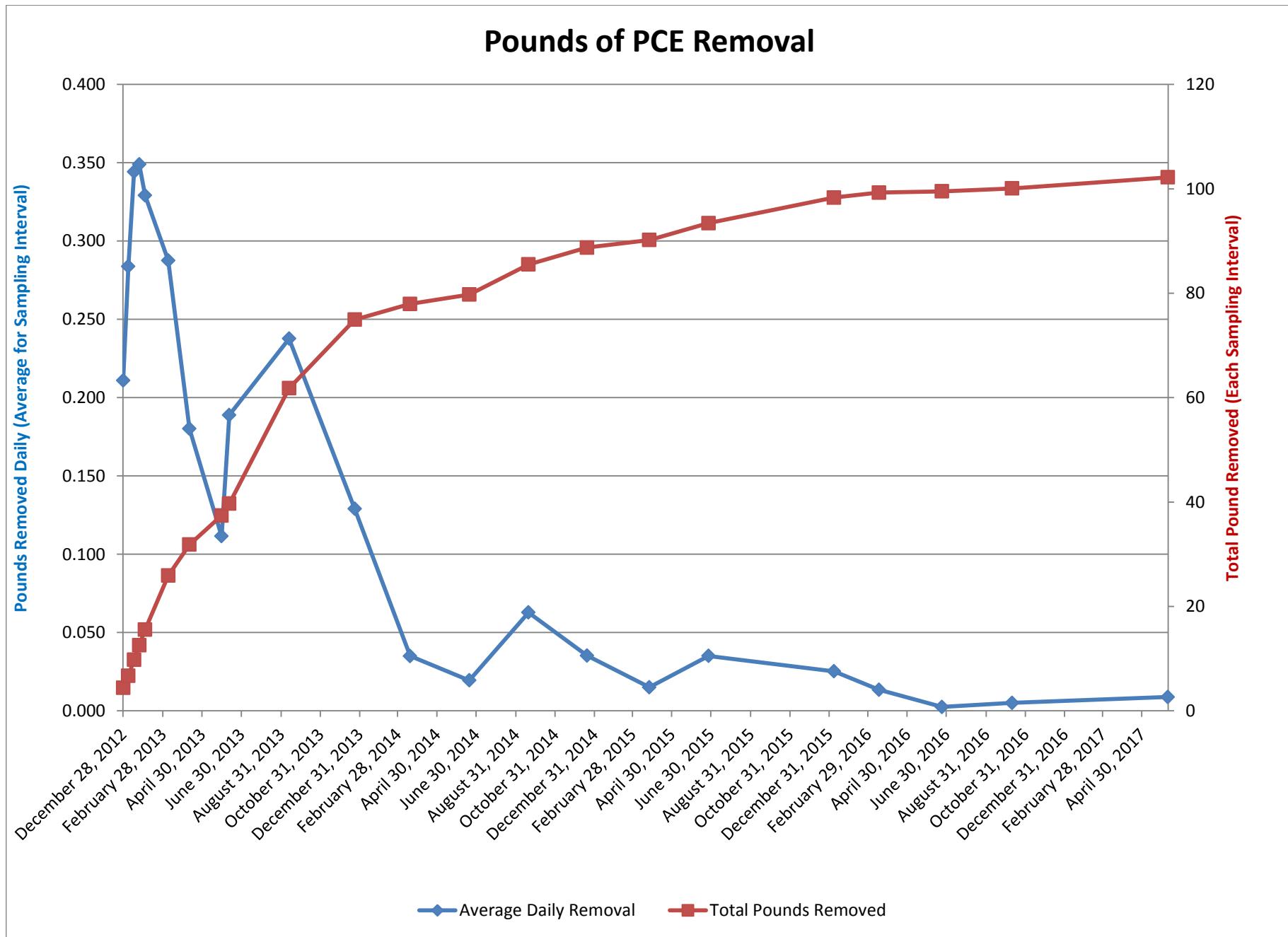
Elevation Datum reported as mean sea level, vertical datum NAVD 88.

GRAPHS

Graph 1
Former Thinker Toys



Graph 2
Former Thinker Toys



APPENDIX A

FIELD EXPLORATION METHODS

Permanent Point, Soil-Vapor Sampling

Soil-vapor monitoring points were sampled in accordance with the following protocol:

- Operation of the SVE system was suspended for approximately 24 hours prior to sample collection.
- A well plug fitted with a quick-connect barbed fitting was connected to the top of the casing of the soil-vapor monitoring point.
- Tubing was connected from the barb fitting to a peristaltic pump, which was used to draw soil vapor from the well. Approximately three well volumes of soil vapor were purged from the monitoring point using the peristaltic pump.
- After purging was complete, a one-liter Tedlar bag was connected to the monitoring point with Tedlar-lined tubing.
- Once purging and setup is complete, the valve on the Tedlar bag is opened. Each bag was then filled. Samples were noted with sample-ID number, date, and time.
- The collected vapor samples were submitted to an analytical laboratory for volatile organic compound analysis using EPA Method 8260. Chain-of-custody procedures were followed to document sample handling.

APPENDIX B



Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremantanalytical.com

G-Logics

Jack Taylor
40 Second Ave. SE
Issaquah, WA 98027

RE: Thinker Toys

Work Order Number: 1706117

June 14, 2017

Attention Jack Taylor:

Fremont Analytical, Inc. received 10 sample(s) on 6/9/2017 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method 8260C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director



Date: 06/14/2017

CLIENT: G-Logics
Project: Thinker Toys
Work Order: 1706117

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1706117-001	Ex Stack	06/09/2017 2:00 PM	06/09/2017 3:26 PM
1706117-002	SVE-1	06/09/2017 2:05 PM	06/09/2017 3:26 PM
1706117-003	SVE-2	06/09/2017 2:10 PM	06/09/2017 3:26 PM
1706117-004	SVE-3	06/09/2017 2:15 PM	06/09/2017 3:26 PM
1706117-005	SVE-4	06/09/2017 2:20 PM	06/09/2017 3:26 PM
1706117-006	SVE-5	06/09/2017 2:25 PM	06/09/2017 3:26 PM
1706117-007	SVE-6	06/09/2017 2:30 PM	06/09/2017 3:26 PM
1706117-008	SVE-7	06/09/2017 2:35 PM	06/09/2017 3:26 PM
1706117-009	SVE-8	06/09/2017 2:40 PM	06/09/2017 3:26 PM
1706117-010	SVE-9	06/09/2017 2:45 PM	06/09/2017 3:26 PM



Case Narrative

WO#: 1706117

Date: 6/14/2017

CLIENT: G-Logics
Project: Thinker Toys

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 1706117

Date Reported: 6/14/2017

Client: G-Logics

Collection Date: 6/9/2017 2:00:00 PM

Project: Thinker Toys

Lab ID: 1706117-001

Matrix: Air

Client Sample ID: Ex Stack

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
-----------------	---------------	-----------	-------------	--------------	-----------	----------------------

Volatile Organic Compounds by EPA Method 8260C				Batch ID: R36765	Analyst: NG
Dichlorodifluoromethane	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
Chloromethane	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
Vinyl chloride	ND	0.0200	µg/L	1	6/12/2017 1:02:06 PM
Bromomethane	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
Trichlorofluoromethane	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
Chloroethane	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
1,1-Dichloroethene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
Methylene chloride	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
trans-1,2-Dichloroethene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
Methyl tert-butyl ether (MTBE)	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
1,1-Dichloroethane	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
2,2-Dichloropropane	ND	0.200	µg/L	1	6/12/2017 1:02:06 PM
cis-1,2-Dichloroethene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
Chloroform	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
1,1,1-Trichloroethane (TCA)	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
1,1-Dichloropropene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
Carbon tetrachloride	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
1,2-Dichloroethane (EDC)	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
Benzene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
Trichloroethene (TCE)	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
1,2-Dichloropropane	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
Dichlorobromomethane	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
Dibromomethane	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
cis-1,3-Dichloropropene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
Toluene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
trans-1,3-Dichloropropene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
1,1,2-Trichloroethane	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
1,3-Dichloropropane	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
Tetrachloroethene (PCE)	3.76	0.100	µg/L	1	6/12/2017 1:02:06 PM
Dibromochloromethane	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
1,2-Dibromoethane (EDB)	ND	0.00100	µg/L	1	6/12/2017 1:02:06 PM
Chlorobenzene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
1,1,1,2-Tetrachloroethane	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
Ethylbenzene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
m,p-Xylene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
o-Xylene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
Styrene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
Isopropylbenzene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
Bromoform	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM



Analytical Report

Work Order: 1706117

Date Reported: 6/14/2017

Client: G-Logics

Collection Date: 6/9/2017 2:00:00 PM

Project: Thinker Toys

Lab ID: 1706117-001

Matrix: Air

Client Sample ID: Ex Stack

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
-----------------	---------------	-----------	-------------	--------------	-----------	----------------------

Volatile Organic Compounds by EPA Method 8260C				Batch ID: R36765	Analyst: NG
1,1,2,2-Tetrachloroethane	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
n-Propylbenzene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
Bromobenzene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
1,3,5-Trimethylbenzene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
2-Chlorotoluene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
4-Chlorotoluene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
tert-Butylbenzene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
1,2,3-Trichloropropane	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
1,2,4-Trichlorobenzene	ND	0.200	µg/L	1	6/12/2017 1:02:06 PM
sec-Butylbenzene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
4-Isopropyltoluene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
1,3-Dichlorobenzene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
1,4-Dichlorobenzene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
n-Butylbenzene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
1,2-Dichlorobenzene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
1,2-Dibromo-3-chloropropane	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
1,2,4-Trimethylbenzene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
Hexachlorobutadiene	ND	0.400	µg/L	1	6/12/2017 1:02:06 PM
Naphthalene	ND	0.100	µg/L	1	6/12/2017 1:02:06 PM
1,2,3-Trichlorobenzene	ND	0.400	µg/L	1	6/12/2017 1:02:06 PM
Surr: Dibromofluoromethane	102	61.1-128	%Rec	1	6/12/2017 1:02:06 PM
Surr: Toluene-d8	99.7	66-138	%Rec	1	6/12/2017 1:02:06 PM
Surr: 1-Bromo-4-fluorobenzene	95.8	64.7-128	%Rec	1	6/12/2017 1:02:06 PM



Analytical Report

Work Order: 1706117

Date Reported: 6/14/2017

Client: G-Logics

Collection Date: 6/9/2017 2:05:00 PM

Project: Thinker Toys

Lab ID: 1706117-002

Matrix: Air

Client Sample ID: SVE-1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Volatile Organic Compounds by EPA Method 8260C				Batch ID: R36765	Analyst: NG	
Dichlorodifluoromethane	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
Chloromethane	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
Vinyl chloride	ND	0.0200	µg/L	1	6/12/2017 11:08:04 AM	
Bromomethane	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
Trichlorofluoromethane	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
Chloroethane	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
1,1-Dichloroethene	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
Methylene chloride	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
trans-1,2-Dichloroethene	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
Methyl tert-butyl ether (MTBE)	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
1,1-Dichloroethane	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
2,2-Dichloropropane	ND	0.200	µg/L	1	6/12/2017 11:08:04 AM	
cis-1,2-Dichloroethene	0.148	0.100	µg/L	1	6/12/2017 11:08:04 AM	
Chloroform	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
1,1,1-Trichloroethane (TCA)	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
1,1-Dichloropropene	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
Carbon tetrachloride	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
1,2-Dichloroethane (EDC)	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
Benzene	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
Trichloroethene (TCE)	0.159	0.100	µg/L	1	6/12/2017 11:08:04 AM	
1,2-Dichloropropane	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
Dichlorobromomethane	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
Dibromomethane	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
cis-1,3-Dichloropropene	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
Toluene	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
trans-1,3-Dichloropropene	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
1,1,2-Trichloroethane	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
1,3-Dichloropropane	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
Tetrachloroethene (PCE)	6.98	1.00	D	µg/L	10	6/12/2017 3:24:55 PM
Dibromochloromethane	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
1,2-Dibromoethane (EDB)	ND	0.00100	µg/L	1	6/12/2017 11:08:04 AM	
Chlorobenzene	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
1,1,1,2-Tetrachloroethane	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
Ethylbenzene	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
m,p-Xylene	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
o-Xylene	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
Styrene	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
Isopropylbenzene	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	
Bromoform	ND	0.100	µg/L	1	6/12/2017 11:08:04 AM	

Original

Page 7 of 33



Analytical Report

Work Order: 1706117

Date Reported: 6/14/2017

Client: G-Logics

Collection Date: 6/9/2017 2:05:00 PM

Project: Thinker Toys

Lab ID: 1706117-002

Matrix: Air

Client Sample ID: SVE-1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C						
					Batch ID: R36765	Analyst: NG
1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
n-Propylbenzene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
Bromobenzene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
1,3,5-Trimethylbenzene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
2-Chlorotoluene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
4-Chlorotoluene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
tert-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	6/12/2017 11:08:04 AM
sec-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
4-Isopropyltoluene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
n-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
1,2,4-Trimethylbenzene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
Hexachlorobutadiene	ND	0.400		µg/L	1	6/12/2017 11:08:04 AM
Naphthalene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	6/12/2017 11:08:04 AM
Surr: Dibromofluoromethane	102	61.1-128		%Rec	1	6/12/2017 11:08:04 AM
Surr: Toluene-d8	115	66-138		%Rec	1	6/12/2017 11:08:04 AM
Surr: 1-Bromo-4-fluorobenzene	95.1	64.7-128		%Rec	1	6/12/2017 11:08:04 AM

	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C						
1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
n-Propylbenzene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
Bromobenzene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
1,3,5-Trimethylbenzene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
2-Chlorotoluene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
4-Chlorotoluene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
tert-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	6/12/2017 11:08:04 AM
sec-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
4-Isopropyltoluene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
n-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
1,2,4-Trimethylbenzene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
Hexachlorobutadiene	ND	0.400		µg/L	1	6/12/2017 11:08:04 AM
Naphthalene	ND	0.100		µg/L	1	6/12/2017 11:08:04 AM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	6/12/2017 11:08:04 AM
Surr: Dibromofluoromethane	102	61.1-128		%Rec	1	6/12/2017 11:08:04 AM
Surr: Toluene-d8	115	66-138		%Rec	1	6/12/2017 11:08:04 AM
Surr: 1-Bromo-4-fluorobenzene	95.1	64.7-128		%Rec	1	6/12/2017 11:08:04 AM



Analytical Report

Work Order: 1706117

Date Reported: 6/14/2017

Client: G-Logics

Collection Date: 6/9/2017 2:10:00 PM

Project: Thinker Toys

Lab ID: 1706117-003

Matrix: Air

Client Sample ID: SVE-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C						
					Batch ID: R36765	Analyst: NG
Dichlorodifluoromethane	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
Chloromethane	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
Vinyl chloride	ND	0.0200		µg/L	1	6/12/2017 10:11:06 AM
Bromomethane	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
Trichlorofluoromethane	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
Chloroethane	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
1,1-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
Methylene chloride	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
1,1-Dichloroethane	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
2,2-Dichloropropane	ND	0.200		µg/L	1	6/12/2017 10:11:06 AM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
Chloroform	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
1,1-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
Carbon tetrachloride	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
1,2-Dichloroethane (EDC)	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
Benzene	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
Trichloroethene (TCE)	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
1,2-Dichloropropane	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
Dichlorobromomethane	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
Dibromomethane	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
Toluene	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
1,3-Dichloropropane	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
Tetrachloroethene (PCE)	1.04	0.100		µg/L	1	6/12/2017 10:11:06 AM
Dibromochloromethane	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	6/12/2017 10:11:06 AM
Chlorobenzene	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
Ethylbenzene	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
m,p-Xylene	0.104	0.100		µg/L	1	6/12/2017 10:11:06 AM
o-Xylene	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
Styrene	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
Isopropylbenzene	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM
Bromoform	ND	0.100		µg/L	1	6/12/2017 10:11:06 AM



Analytical Report

Work Order: 1706117

Date Reported: 6/14/2017

Client: G-Logics

Collection Date: 6/9/2017 2:10:00 PM

Project: Thinker Toys

Lab ID: 1706117-003

Matrix: Air

Client Sample ID: SVE-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
-----------------	---------------	-----------	-------------	--------------	-----------	----------------------

Volatile Organic Compounds by EPA Method 8260C				Batch ID: R36765	Analyst: NG
1,1,2,2-Tetrachloroethane	ND	0.100	µg/L	1	6/12/2017 10:11:06 AM
n-Propylbenzene	ND	0.100	µg/L	1	6/12/2017 10:11:06 AM
Bromobenzene	ND	0.100	µg/L	1	6/12/2017 10:11:06 AM
1,3,5-Trimethylbenzene	ND	0.100	µg/L	1	6/12/2017 10:11:06 AM
2-Chlorotoluene	ND	0.100	µg/L	1	6/12/2017 10:11:06 AM
4-Chlorotoluene	ND	0.100	µg/L	1	6/12/2017 10:11:06 AM
tert-Butylbenzene	ND	0.100	µg/L	1	6/12/2017 10:11:06 AM
1,2,3-Trichloropropane	ND	0.100	µg/L	1	6/12/2017 10:11:06 AM
1,2,4-Trichlorobenzene	ND	0.200	µg/L	1	6/12/2017 10:11:06 AM
sec-Butylbenzene	ND	0.100	µg/L	1	6/12/2017 10:11:06 AM
4-Isopropyltoluene	ND	0.100	µg/L	1	6/12/2017 10:11:06 AM
1,3-Dichlorobenzene	ND	0.100	µg/L	1	6/12/2017 10:11:06 AM
1,4-Dichlorobenzene	ND	0.100	µg/L	1	6/12/2017 10:11:06 AM
n-Butylbenzene	ND	0.100	µg/L	1	6/12/2017 10:11:06 AM
1,2-Dichlorobenzene	ND	0.100	µg/L	1	6/12/2017 10:11:06 AM
1,2-Dibromo-3-chloropropane	ND	0.100	µg/L	1	6/12/2017 10:11:06 AM
1,2,4-Trimethylbenzene	0.110	0.100	µg/L	1	6/12/2017 10:11:06 AM
Hexachlorobutadiene	ND	0.400	µg/L	1	6/12/2017 10:11:06 AM
Naphthalene	ND	0.100	µg/L	1	6/12/2017 10:11:06 AM
1,2,3-Trichlorobenzene	ND	0.400	µg/L	1	6/12/2017 10:11:06 AM
Surr: Dibromofluoromethane	99.3	61.1-128	%Rec	1	6/12/2017 10:11:06 AM
Surr: Toluene-d8	99.2	66-138	%Rec	1	6/12/2017 10:11:06 AM
Surr: 1-Bromo-4-fluorobenzene	94.3	64.7-128	%Rec	1	6/12/2017 10:11:06 AM



Analytical Report

Work Order: 1706117

Date Reported: 6/14/2017

Client: G-Logics

Collection Date: 6/9/2017 2:15:00 PM

Project: Thinker Toys

Lab ID: 1706117-004

Matrix: Air

Client Sample ID: SVE-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
-----------------	---------------	-----------	-------------	--------------	-----------	----------------------

Volatile Organic Compounds by EPA Method 8260C				Batch ID: R36765	Analyst: NG
Dichlorodifluoromethane	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
Chloromethane	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
Vinyl chloride	ND	0.0200	µg/L	1	6/12/2017 10:39:31 AM
Bromomethane	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
Trichlorofluoromethane	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
Chloroethane	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
1,1-Dichloroethene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
Methylene chloride	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
trans-1,2-Dichloroethene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
Methyl tert-butyl ether (MTBE)	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
1,1-Dichloroethane	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
2,2-Dichloropropane	ND	0.200	µg/L	1	6/12/2017 10:39:31 AM
cis-1,2-Dichloroethene	0.140	0.100	µg/L	1	6/12/2017 10:39:31 AM
Chloroform	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
1,1,1-Trichloroethane (TCA)	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
1,1-Dichloropropene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
Carbon tetrachloride	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
1,2-Dichloroethane (EDC)	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
Benzene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
Trichloroethene (TCE)	0.193	0.100	µg/L	1	6/12/2017 10:39:31 AM
1,2-Dichloropropane	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
Dichlorobromomethane	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
Dibromomethane	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
cis-1,3-Dichloropropene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
Toluene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
trans-1,3-Dichloropropene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
1,1,2-Trichloroethane	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
1,3-Dichloropropane	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
Tetrachloroethene (PCE)	2.49	0.100	µg/L	1	6/12/2017 10:39:31 AM
Dibromochloromethane	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
1,2-Dibromoethane (EDB)	ND	0.00100	µg/L	1	6/12/2017 10:39:31 AM
Chlorobenzene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
1,1,1,2-Tetrachloroethane	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
Ethylbenzene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
m,p-Xylene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
o-Xylene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
Styrene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
Isopropylbenzene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
Bromoform	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM



Analytical Report

Work Order: 1706117

Date Reported: 6/14/2017

Client: G-Logics

Collection Date: 6/9/2017 2:15:00 PM

Project: Thinker Toys

Lab ID: 1706117-004

Matrix: Air

Client Sample ID: SVE-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
-----------------	---------------	-----------	-------------	--------------	-----------	----------------------

Volatile Organic Compounds by EPA Method 8260C				Batch ID: R36765	Analyst: NG
1,1,2,2-Tetrachloroethane	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
n-Propylbenzene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
Bromobenzene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
1,3,5-Trimethylbenzene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
2-Chlorotoluene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
4-Chlorotoluene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
tert-Butylbenzene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
1,2,3-Trichloropropane	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
1,2,4-Trichlorobenzene	ND	0.200	µg/L	1	6/12/2017 10:39:31 AM
sec-Butylbenzene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
4-Isopropyltoluene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
1,3-Dichlorobenzene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
1,4-Dichlorobenzene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
n-Butylbenzene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
1,2-Dichlorobenzene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
1,2-Dibromo-3-chloropropane	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
1,2,4-Trimethylbenzene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
Hexachlorobutadiene	ND	0.400	µg/L	1	6/12/2017 10:39:31 AM
Naphthalene	ND	0.100	µg/L	1	6/12/2017 10:39:31 AM
1,2,3-Trichlorobenzene	ND	0.400	µg/L	1	6/12/2017 10:39:31 AM
Surr: Dibromofluoromethane	100	61.1-128	%Rec	1	6/12/2017 10:39:31 AM
Surr: Toluene-d8	98.0	66-138	%Rec	1	6/12/2017 10:39:31 AM
Surr: 1-Bromo-4-fluorobenzene	95.3	64.7-128	%Rec	1	6/12/2017 10:39:31 AM



Analytical Report

Work Order: 1706117

Date Reported: 6/14/2017

Client: G-Logics

Collection Date: 6/9/2017 2:20:00 PM

Project: Thinker Toys

Lab ID: 1706117-005

Matrix: Air

Client Sample ID: SVE-4

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C						
					Batch ID: R36765	Analyst: NG
Dichlorodifluoromethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Chloromethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Vinyl chloride	ND	0.0200		µg/L	1	6/12/2017 11:36:29 AM
Bromomethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Trichlorofluoromethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Chloroethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,1-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Methylene chloride	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,1-Dichloroethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
2,2-Dichloropropane	ND	0.200		µg/L	1	6/12/2017 11:36:29 AM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Chloroform	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,1-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Carbon tetrachloride	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,2-Dichloroethane (EDC)	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Benzene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Trichloroethene (TCE)	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,2-Dichloropropane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Dichlorobromomethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Dibromomethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Toluene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,3-Dichloropropane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Tetrachloroethene (PCE)	0.662	0.100		µg/L	1	6/12/2017 11:36:29 AM
Dibromochloromethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	6/12/2017 11:36:29 AM
Chlorobenzene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Ethylbenzene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
m,p-Xylene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
o-Xylene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Styrene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Isopropylbenzene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Bromoform	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C						
				µg/L	1	Batch ID: R36765 Analyst: NG
Dichlorodifluoromethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Chloromethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Vinyl chloride	ND	0.0200		µg/L	1	6/12/2017 11:36:29 AM
Bromomethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Trichlorofluoromethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Chloroethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,1-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Methylene chloride	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,1-Dichloroethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
2,2-Dichloropropane	ND	0.200		µg/L	1	6/12/2017 11:36:29 AM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Chloroform	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,1-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Carbon tetrachloride	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,2-Dichloroethane (EDC)	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Benzene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Trichloroethene (TCE)	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,2-Dichloropropane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Dichlorobromomethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Dibromomethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Toluene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,3-Dichloropropane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Tetrachloroethene (PCE)	0.662	0.100		µg/L	1	6/12/2017 11:36:29 AM
Dibromochloromethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	6/12/2017 11:36:29 AM
Chlorobenzene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Ethylbenzene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
m,p-Xylene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
o-Xylene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Styrene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Isopropylbenzene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Bromoform	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM



Analytical Report

Work Order: 1706117

Date Reported: 6/14/2017

Client: G-Logics

Collection Date: 6/9/2017 2:20:00 PM

Project: Thinker Toys

Lab ID: 1706117-005

Matrix: Air

Client Sample ID: SVE-4

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C						
					Batch ID: R36765	Analyst: NG
1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
n-Propylbenzene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Bromobenzene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,3,5-Trimethylbenzene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
2-Chlorotoluene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
4-Chlorotoluene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
tert-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	6/12/2017 11:36:29 AM
sec-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
4-Isopropyltoluene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
n-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,2,4-Trimethylbenzene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
Hexachlorobutadiene	ND	0.400		µg/L	1	6/12/2017 11:36:29 AM
Naphthalene	ND	0.100		µg/L	1	6/12/2017 11:36:29 AM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	6/12/2017 11:36:29 AM
Surr: Dibromofluoromethane	102	61.1-128		%Rec	1	6/12/2017 11:36:29 AM
Surr: Toluene-d8	100	66-138		%Rec	1	6/12/2017 11:36:29 AM
Surr: 1-Bromo-4-fluorobenzene	96.1	64.7-128		%Rec	1	6/12/2017 11:36:29 AM



Analytical Report

Work Order: 1706117

Date Reported: 6/14/2017

Client: G-Logics

Collection Date: 6/9/2017 2:25:00 PM

Project: Thinker Toys

Lab ID: 1706117-006

Matrix: Air

Client Sample ID: SVE-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C						
					Batch ID: R36765	Analyst: NG
Dichlorodifluoromethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Chloromethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Vinyl chloride	ND	0.0200		µg/L	1	6/12/2017 2:27:51 PM
Bromomethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Chloroethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Methylene chloride	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	6/12/2017 2:27:51 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Chloroform	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Carbon tetrachloride	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,2-Dichloroethane (EDC)	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Benzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Dichlorobromomethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Dibromomethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Toluene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Tetrachloroethene (PCE)	0.752	0.100		µg/L	1	6/12/2017 2:27:51 PM
Dibromochloromethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	6/12/2017 2:27:51 PM
Chlorobenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Ethylbenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
m,p-Xylene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
o-Xylene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Styrene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Isopropylbenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Bromoform	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C						
					Batch ID: R36765	Analyst: NG
Dichlorodifluoromethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Chloromethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Vinyl chloride	ND	0.0200		µg/L	1	6/12/2017 2:27:51 PM
Bromomethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Chloroethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Methylene chloride	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	6/12/2017 2:27:51 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Chloroform	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Carbon tetrachloride	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,2-Dichloroethane (EDC)	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Benzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Dichlorobromomethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Dibromomethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Toluene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Tetrachloroethene (PCE)	0.752	0.100		µg/L	1	6/12/2017 2:27:51 PM
Dibromochloromethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	6/12/2017 2:27:51 PM
Chlorobenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Ethylbenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
m,p-Xylene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
o-Xylene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Styrene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Isopropylbenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Bromoform	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM



Analytical Report

Work Order: 1706117

Date Reported: 6/14/2017

Client: G-Logics

Collection Date: 6/9/2017 2:25:00 PM

Project: Thinker Toys

Lab ID: 1706117-006

Matrix: Air

Client Sample ID: SVE-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C						
					Batch ID: R36765	Analyst: NG
1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
n-Propylbenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Bromobenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,3,5-Trimethylbenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
2-Chlorotoluene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
4-Chlorotoluene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
tert-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	6/12/2017 2:27:51 PM
sec-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
n-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,2,4-Trimethylbenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	6/12/2017 2:27:51 PM
Naphthalene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	6/12/2017 2:27:51 PM
Surr: Dibromofluoromethane	103	61.1-128		%Rec	1	6/12/2017 2:27:51 PM
Surr: Toluene-d8	118	66-138		%Rec	1	6/12/2017 2:27:51 PM
Surr: 1-Bromo-4-fluorobenzene	109	64.7-128		%Rec	1	6/12/2017 2:27:51 PM

Volatile Organic Compounds by EPA Method 8260C

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
n-Propylbenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Bromobenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,3,5-Trimethylbenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
2-Chlorotoluene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
4-Chlorotoluene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
tert-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	6/12/2017 2:27:51 PM
sec-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
n-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,2,4-Trimethylbenzene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	6/12/2017 2:27:51 PM
Naphthalene	ND	0.100		µg/L	1	6/12/2017 2:27:51 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	6/12/2017 2:27:51 PM
Surr: Dibromofluoromethane	103	61.1-128		%Rec	1	6/12/2017 2:27:51 PM
Surr: Toluene-d8	118	66-138		%Rec	1	6/12/2017 2:27:51 PM
Surr: 1-Bromo-4-fluorobenzene	109	64.7-128		%Rec	1	6/12/2017 2:27:51 PM



Analytical Report

Work Order: 1706117

Date Reported: 6/14/2017

Client: G-Logics

Collection Date: 6/9/2017 2:30:00 PM

Project: Thinker Toys

Lab ID: 1706117-007

Matrix: Air

Client Sample ID: SVE-6

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C						
					Batch ID: R36765	Analyst: NG
Dichlorodifluoromethane	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
Chloromethane	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
Vinyl chloride	ND	0.0200		µg/L	1	6/12/2017 12:05:04 PM
Bromomethane	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
Chloroethane	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
Methylene chloride	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	6/12/2017 12:05:04 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
Chloroform	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
Carbon tetrachloride	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
1,2-Dichloroethane (EDC)	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
Benzene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
Dichlorobromomethane	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
Dibromomethane	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
Toluene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
Tetrachloroethene (PCE)	2.98	0.100		µg/L	1	6/12/2017 12:05:04 PM
Dibromochloromethane	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	6/12/2017 12:05:04 PM
Chlorobenzene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
Ethylbenzene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
m,p-Xylene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
o-Xylene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
Styrene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
Isopropylbenzene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
Bromoform	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM



Analytical Report

Work Order: 1706117

Date Reported: 6/14/2017

Client: G-Logics

Collection Date: 6/9/2017 2:30:00 PM

Project: Thinker Toys

Lab ID: 1706117-007

Matrix: Air

Client Sample ID: SVE-6

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C						
					Batch ID: R36765	Analyst: NG
1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
n-Propylbenzene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
Bromobenzene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
1,3,5-Trimethylbenzene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
2-Chlorotoluene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
4-Chlorotoluene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
tert-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	6/12/2017 12:05:04 PM
sec-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
n-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
1,2,4-Trimethylbenzene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	6/12/2017 12:05:04 PM
Naphthalene	ND	0.100		µg/L	1	6/12/2017 12:05:04 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	6/12/2017 12:05:04 PM
Surr: Dibromofluoromethane	101	61.1-128		%Rec	1	6/12/2017 12:05:04 PM
Surr: Toluene-d8	101	66-138		%Rec	1	6/12/2017 12:05:04 PM
Surr: 1-Bromo-4-fluorobenzene	95.8	64.7-128		%Rec	1	6/12/2017 12:05:04 PM



Analytical Report

Work Order: 1706117

Date Reported: 6/14/2017

Client: G-Logics

Collection Date: 6/9/2017 2:35:00 PM

Project: Thinker Toys

Lab ID: 1706117-008

Matrix: Air

Client Sample ID: SVE-7

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C						
					Batch ID: R36765	Analyst: NG
Dichlorodifluoromethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Chloromethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Vinyl chloride	ND	0.0200		µg/L	1	6/12/2017 1:59:17 PM
Bromomethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Chloroethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Methylene chloride	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	6/12/2017 1:59:17 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Chloroform	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Carbon tetrachloride	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,2-Dichloroethane (EDC)	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Benzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Dichlorobromomethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Dibromomethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Toluene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Tetrachloroethene (PCE)	1.42	0.100		µg/L	1	6/12/2017 1:59:17 PM
Dibromochloromethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	6/12/2017 1:59:17 PM
Chlorobenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Ethylbenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
m,p-Xylene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
o-Xylene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Styrene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Isopropylbenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Bromoform	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C						
				µg/L	1	Batch ID: R36765 Analyst: NG
Dichlorodifluoromethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Chloromethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Vinyl chloride	ND	0.0200		µg/L	1	6/12/2017 1:59:17 PM
Bromomethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Chloroethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Methylene chloride	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	6/12/2017 1:59:17 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Chloroform	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Carbon tetrachloride	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,2-Dichloroethane (EDC)	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Benzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Dichlorobromomethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Dibromomethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Toluene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Tetrachloroethene (PCE)	1.42	0.100		µg/L	1	6/12/2017 1:59:17 PM
Dibromochloromethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	6/12/2017 1:59:17 PM
Chlorobenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Ethylbenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
m,p-Xylene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
o-Xylene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Styrene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Isopropylbenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Bromoform	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM



Analytical Report

Work Order: 1706117

Date Reported: 6/14/2017

Client: G-Logics

Collection Date: 6/9/2017 2:35:00 PM

Project: Thinker Toys

Lab ID: 1706117-008

Matrix: Air

Client Sample ID: SVE-7

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C						
					Batch ID: R36765	Analyst: NG
1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
n-Propylbenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Bromobenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,3,5-Trimethylbenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
2-Chlorotoluene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
4-Chlorotoluene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
tert-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	6/12/2017 1:59:17 PM
sec-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
n-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,2,4-Trimethylbenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	6/12/2017 1:59:17 PM
Naphthalene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	6/12/2017 1:59:17 PM
Surr: Dibromofluoromethane	103	61.1-128		%Rec	1	6/12/2017 1:59:17 PM
Surr: Toluene-d8	99.5	66-138		%Rec	1	6/12/2017 1:59:17 PM
Surr: 1-Bromo-4-fluorobenzene	109	64.7-128		%Rec	1	6/12/2017 1:59:17 PM

Volatile Organic Compounds by EPA Method 8260C

Batch ID: R36765

Analyst: NG

1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
n-Propylbenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Bromobenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,3,5-Trimethylbenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
2-Chlorotoluene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
4-Chlorotoluene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
tert-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	6/12/2017 1:59:17 PM
sec-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
n-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,2,4-Trimethylbenzene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	6/12/2017 1:59:17 PM
Naphthalene	ND	0.100		µg/L	1	6/12/2017 1:59:17 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	6/12/2017 1:59:17 PM
Surr: Dibromofluoromethane	103	61.1-128		%Rec	1	6/12/2017 1:59:17 PM
Surr: Toluene-d8	99.5	66-138		%Rec	1	6/12/2017 1:59:17 PM
Surr: 1-Bromo-4-fluorobenzene	109	64.7-128		%Rec	1	6/12/2017 1:59:17 PM



Analytical Report

Work Order: 1706117

Date Reported: 6/14/2017

Client: G-Logics

Collection Date: 6/9/2017 2:40:00 PM

Project: Thinker Toys

Lab ID: 1706117-009

Matrix: Air

Client Sample ID: SVE-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C						
					Batch ID: R36765	Analyst: NG
Dichlorodifluoromethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Chloromethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Vinyl chloride	ND	0.0200		µg/L	1	6/12/2017 1:30:38 PM
Bromomethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Chloroethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Methylene chloride	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	6/12/2017 1:30:38 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Chloroform	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Carbon tetrachloride	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,2-Dichloroethane (EDC)	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Benzene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Dichlorobromomethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Dibromomethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Toluene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Tetrachloroethene (PCE)	0.570	0.100		µg/L	1	6/12/2017 1:30:38 PM
Dibromochloromethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	6/12/2017 1:30:38 PM
Chlorobenzene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Ethylbenzene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
m,p-Xylene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
o-Xylene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Styrene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Isopropylbenzene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Bromoform	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C						
				µg/L	Batch ID: R36765	Analyst: NG
Dichlorodifluoromethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Chloromethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Vinyl chloride	ND	0.0200		µg/L	1	6/12/2017 1:30:38 PM
Bromomethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Trichlorofluoromethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Chloroethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,1-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Methylene chloride	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
trans-1,2-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Methyl tert-butyl ether (MTBE)	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,1-Dichloroethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
2,2-Dichloropropane	ND	0.200		µg/L	1	6/12/2017 1:30:38 PM
cis-1,2-Dichloroethene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Chloroform	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,1,1-Trichloroethane (TCA)	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,1-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Carbon tetrachloride	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,2-Dichloroethane (EDC)	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Benzene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Trichloroethene (TCE)	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,2-Dichloropropane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Dichlorobromomethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Dibromomethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
cis-1,3-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Toluene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
trans-1,3-Dichloropropene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,1,2-Trichloroethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,3-Dichloropropane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Tetrachloroethene (PCE)	0.570	0.100		µg/L	1	6/12/2017 1:30:38 PM
Dibromochloromethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,2-Dibromoethane (EDB)	ND	0.00100		µg/L	1	6/12/2017 1:30:38 PM
Chlorobenzene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,1,1,2-Tetrachloroethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Ethylbenzene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
m,p-Xylene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
o-Xylene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Styrene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Isopropylbenzene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Bromoform	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM



Analytical Report

Work Order: 1706117

Date Reported: 6/14/2017

Client: G-Logics

Collection Date: 6/9/2017 2:40:00 PM

Project: Thinker Toys

Lab ID: 1706117-009

Matrix: Air

Client Sample ID: SVE-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260C						
					Batch ID: R36765	Analyst: NG
1,1,2,2-Tetrachloroethane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
n-Propylbenzene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Bromobenzene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,3,5-Trimethylbenzene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
2-Chlorotoluene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
4-Chlorotoluene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
tert-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,2,3-Trichloropropane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,2,4-Trichlorobenzene	ND	0.200		µg/L	1	6/12/2017 1:30:38 PM
sec-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
4-Isopropyltoluene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,3-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,4-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
n-Butylbenzene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,2-Dichlorobenzene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,2-Dibromo-3-chloropropane	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,2,4-Trimethylbenzene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
Hexachlorobutadiene	ND	0.400		µg/L	1	6/12/2017 1:30:38 PM
Naphthalene	ND	0.100		µg/L	1	6/12/2017 1:30:38 PM
1,2,3-Trichlorobenzene	ND	0.400		µg/L	1	6/12/2017 1:30:38 PM
Surr: Dibromofluoromethane	102	61.1-128		%Rec	1	6/12/2017 1:30:38 PM
Surr: Toluene-d8	99.5	66-138		%Rec	1	6/12/2017 1:30:38 PM
Surr: 1-Bromo-4-fluorobenzene	106	64.7-128		%Rec	1	6/12/2017 1:30:38 PM



Analytical Report

Work Order: 1706117

Date Reported: 6/14/2017

Client: G-Logics

Collection Date: 6/9/2017 2:45:00 PM

Project: Thinker Toys

Lab ID: 1706117-010

Matrix: Air

Client Sample ID: SVE-9

Analyses**Result****RL****Qual****Units****DF****Date Analyzed**

Volatile Organic Compounds by EPA Method 8260C			Batch ID: R36765	Analyst: NG
Dichlorodifluoromethane	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
Chloromethane	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
Vinyl chloride	ND	0.0200	µg/L	1 6/12/2017 12:33:37 PM
Bromomethane	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
Trichlorofluoromethane	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
Chloroethane	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
1,1-Dichloroethene	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
Methylene chloride	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
trans-1,2-Dichloroethene	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
Methyl tert-butyl ether (MTBE)	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
1,1-Dichloroethane	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
2,2-Dichloropropane	ND	0.200	µg/L	1 6/12/2017 12:33:37 PM
cis-1,2-Dichloroethene	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
Chloroform	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
1,1,1-Trichloroethane (TCA)	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
1,1-Dichloropropene	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
Carbon tetrachloride	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
1,2-Dichloroethane (EDC)	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
Benzene	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
Trichloroethene (TCE)	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
1,2-Dichloropropane	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
Dichlorobromomethane	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
Dibromomethane	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
cis-1,3-Dichloropropene	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
Toluene	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
trans-1,3-Dichloropropene	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
1,1,2-Trichloroethane	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
1,3-Dichloropropane	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
Tetrachloroethene (PCE)	0.922	0.100	µg/L	1 6/12/2017 12:33:37 PM
Dibromochloromethane	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
1,2-Dibromoethane (EDB)	ND	0.00100	µg/L	1 6/12/2017 12:33:37 PM
Chlorobenzene	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
1,1,1,2-Tetrachloroethane	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
Ethylbenzene	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
m,p-Xylene	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
o-Xylene	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
Styrene	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
Isopropylbenzene	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM
Bromoform	ND	0.100	µg/L	1 6/12/2017 12:33:37 PM



Analytical Report

Work Order: 1706117

Date Reported: 6/14/2017

Client: G-Logics

Collection Date: 6/9/2017 2:45:00 PM

Project: Thinker Toys

Lab ID: 1706117-010

Matrix: Air

Client Sample ID: SVE-9

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
-----------------	---------------	-----------	-------------	--------------	-----------	----------------------

Volatile Organic Compounds by EPA Method 8260C				Batch ID: R36765	Analyst: NG
1,1,2,2-Tetrachloroethane	ND	0.100	µg/L	1	6/12/2017 12:33:37 PM
n-Propylbenzene	ND	0.100	µg/L	1	6/12/2017 12:33:37 PM
Bromobenzene	ND	0.100	µg/L	1	6/12/2017 12:33:37 PM
1,3,5-Trimethylbenzene	ND	0.100	µg/L	1	6/12/2017 12:33:37 PM
2-Chlorotoluene	ND	0.100	µg/L	1	6/12/2017 12:33:37 PM
4-Chlorotoluene	ND	0.100	µg/L	1	6/12/2017 12:33:37 PM
tert-Butylbenzene	ND	0.100	µg/L	1	6/12/2017 12:33:37 PM
1,2,3-Trichloropropane	ND	0.100	µg/L	1	6/12/2017 12:33:37 PM
1,2,4-Trichlorobenzene	ND	0.200	µg/L	1	6/12/2017 12:33:37 PM
sec-Butylbenzene	ND	0.100	µg/L	1	6/12/2017 12:33:37 PM
4-Isopropyltoluene	ND	0.100	µg/L	1	6/12/2017 12:33:37 PM
1,3-Dichlorobenzene	ND	0.100	µg/L	1	6/12/2017 12:33:37 PM
1,4-Dichlorobenzene	ND	0.100	µg/L	1	6/12/2017 12:33:37 PM
n-Butylbenzene	ND	0.100	µg/L	1	6/12/2017 12:33:37 PM
1,2-Dichlorobenzene	ND	0.100	µg/L	1	6/12/2017 12:33:37 PM
1,2-Dibromo-3-chloropropane	ND	0.100	µg/L	1	6/12/2017 12:33:37 PM
1,2,4-Trimethylbenzene	ND	0.100	µg/L	1	6/12/2017 12:33:37 PM
Hexachlorobutadiene	ND	0.400	µg/L	1	6/12/2017 12:33:37 PM
Naphthalene	ND	0.100	µg/L	1	6/12/2017 12:33:37 PM
1,2,3-Trichlorobenzene	ND	0.400	µg/L	1	6/12/2017 12:33:37 PM
Surr: Dibromofluoromethane	101	61.1-128	%Rec	1	6/12/2017 12:33:37 PM
Surr: Toluene-d8	99.1	66-138	%Rec	1	6/12/2017 12:33:37 PM
Surr: 1-Bromo-4-fluorobenzene	97.1	64.7-128	%Rec	1	6/12/2017 12:33:37 PM



Date: 6/14/2017

Work Order: 1706117

CLIENT: G-Logics

Project: Thinker Toys

QC SUMMARY REPORT**Volatile Organic Compounds by EPA Method 8260C**

Sample ID: MBL-R36765	SampType: MBLK	Units: µg/L		Prep Date: 6/12/2017		RunNo: 36765					
Client ID: MBLKW	Batch ID: R36765			Analysis Date: 6/12/2017		SeqNo: 705659					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.100									
Chloromethane	ND	0.100									
Vinyl chloride	ND	0.0200									
Bromomethane	ND	0.100									
Trichlorofluoromethane	ND	0.100									
Chloroethane	ND	0.100									
1,1-Dichloroethene	ND	0.100									
Methylene chloride	ND	0.100									
trans-1,2-Dichloroethene	ND	0.100									
Methyl tert-butyl ether (MTBE)	ND	0.100									
1,1-Dichloroethane	ND	0.100									
2,2-Dichloropropane	ND	0.200									
cis-1,2-Dichloroethene	ND	0.100									
Chloroform	ND	0.100									
1,1,1-Trichloroethane (TCA)	ND	0.100									
1,1-Dichloropropene	ND	0.100									
Carbon tetrachloride	ND	0.100									
1,2-Dichloroethane (EDC)	ND	0.100									
Benzene	ND	0.100									
Trichloroethene (TCE)	ND	0.100									
1,2-Dichloropropane	ND	0.100									
Dichlorobromomethane	ND	0.100									
Dibromomethane	ND	0.100									
cis-1,3-Dichloropropene	ND	0.100									
Toluene	ND	0.100									
trans-1,3-Dichloropropene	ND	0.100									
1,1,2-Trichloroethane	ND	0.100									
1,3-Dichloropropane	ND	0.100									
Tetrachloroethene (PCE)	ND	0.100									
Dibromochloromethane	ND	0.100									
1,2-Dibromoethane (EDB)	ND	0.00100									



Date: 6/14/2017

Work Order: 1706117

CLIENT: G-Logics

Project: Thinker Toys

QC SUMMARY REPORT**Volatile Organic Compounds by EPA Method 8260C**

Sample ID: MBL-R36765	SampType: MBLK	Units: µg/L		Prep Date: 6/12/2017		RunNo: 36765					
Client ID: MBLKW	Batch ID: R36765			Analysis Date: 6/12/2017		SeqNo: 705659					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.100									
1,1,1,2-Tetrachloroethane	ND	0.100									
Ethylbenzene	ND	0.100									
m,p-Xylene	ND	0.100									
o-Xylene	ND	0.100									
Styrene	ND	0.100									
Isopropylbenzene	ND	0.100									
Bromoform	ND	0.100									
1,1,2,2-Tetrachloroethane	ND	0.100									
n-Propylbenzene	ND	0.100									
Bromobenzene	ND	0.100									
1,3,5-Trimethylbenzene	ND	0.100									
2-Chlorotoluene	ND	0.100									
4-Chlorotoluene	ND	0.100									
tert-Butylbenzene	ND	0.100									
1,2,3-Trichloropropane	ND	0.100									
1,2,4-Trichlorobenzene	ND	0.200									
sec-Butylbenzene	ND	0.100									
4-Isopropyltoluene	ND	0.100									
1,3-Dichlorobenzene	ND	0.100									
1,4-Dichlorobenzene	ND	0.100									
n-Butylbenzene	ND	0.100									
1,2-Dichlorobenzene	ND	0.100									
1,2-Dibromo-3-chloropropane	ND	0.100									
1,2,4-Trimethylbenzene	ND	0.100									
Hexachlorobutadiene	ND	0.400									
Naphthalene	ND	0.100									
1,2,3-Trichlorobenzene	ND	0.400									
Surr: Dibromofluoromethane	2.50		2.500		99.9	61.1	128				
Surr: Toluene-d8	2.90		2.500		116	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.39		2.500		95.8	64.7	128				



Date: 6/14/2017

Work Order: 1706117

CLIENT: G-Logics

Project: Thinker Toys

QC SUMMARY REPORT**Volatile Organic Compounds by EPA Method 8260C**

Sample ID: MB-R36765	SampType: MBLK	Units: µg/L			Prep Date: 6/12/2017			RunNo: 36765			
Client ID: MBLKW	Batch ID: R36765				Analysis Date: 6/12/2017			SeqNo: 705659			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: LCS-R36765	SampType: LCS	Units: µg/L			Prep Date: 6/12/2017			RunNo: 36765			
Client ID: LCSW	Batch ID: R36765				Analysis Date: 6/12/2017			SeqNo: 705658			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	2.11	0.100	2.000	0	106	38.8	143				
Chloromethane	1.95	0.100	2.000	0	97.7	42.5	131				
Vinyl chloride	2.08	0.0200	2.000	0	104	56.2	130				
Bromomethane	2.22	0.100	2.000	0	111	45.4	138				
Trichlorofluoromethane	2.33	0.100	2.000	0	117	64.7	129				
Chloroethane	2.28	0.100	2.000	0	114	62.5	123				
1,1-Dichloroethene	2.32	0.100	2.000	0	116	60.7	146				
Methylene chloride	2.33	0.100	2.000	0	116	60.3	135				
trans-1,2-Dichloroethene	2.33	0.100	2.000	0	117	71.3	129				
Methyl tert-butyl ether (MTBE)	2.25	0.100	2.000	0	113	59.3	138				
1,1-Dichloroethane	2.34	0.100	2.000	0	117	71.3	129				
2,2-Dichloropropane	2.58	0.200	2.000	0	129	37.8	132				
cis-1,2-Dichloroethene	2.34	0.100	2.000	0	117	67.5	127				
Chloroform	2.36	0.100	2.000	0	118	70.3	123				
1,1,1-Trichloroethane (TCA)	2.32	0.100	2.000	0	116	67.9	134				
1,1-Dichloropropene	2.01	0.100	2.000	0	101	72.1	133				
Carbon tetrachloride	1.93	0.100	2.000	0	96.6	64.4	133				
1,2-Dichloroethane (EDC)	1.95	0.100	2.000	0	97.3	65.8	126				
Benzene	2.01	0.100	2.000	0	100	67.1	132				
Trichloroethene (TCE)	2.00	0.100	2.000	0	100	71.9	130				
1,2-Dichloropropane	2.11	0.100	2.000	0	106	71.9	131				
Dichlorobromomethane	2.41	0.100	2.000	0	121	70	130				
Dibromomethane	2.14	0.100	2.000	0	107	74.2	125				
cis-1,3-Dichloropropene	2.43	0.100	2.000	0	122	62.8	135				
Toluene	2.26	0.100	2.000	0	113	73.6	127				



Date: 6/14/2017

Work Order: 1706117

CLIENT: G-Logics

Project: Thinker Toys

QC SUMMARY REPORT**Volatile Organic Compounds by EPA Method 8260C**

Sample ID: LCS-R36765	SampType: LCS	Units: µg/L			Prep Date: 6/12/2017			RunNo: 36765			
Client ID: LCSW	Batch ID: R36765				Analysis Date: 6/12/2017			SeqNo: 705658			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	2.43	0.100	2.000	0	122	58.1	138				
1,1,2-Trichloroethane	2.29	0.100	2.000	0	114	65.4	128				
1,3-Dichloropropane	2.30	0.100	2.000	0	115	71.9	131				
Tetrachloroethene (PCE)	2.35	0.100	2.000	0	118	52.4	140				
Dibromochloromethane	2.46	0.100	2.000	0	123	68.7	139				
1,2-Dibromoethane (EDB)	2.25	0.00100	2.000	0	112	71.2	129				
Chlorobenzene	1.98	0.100	2.000	0	99.2	77.2	122				
1,1,1,2-Tetrachloroethane	2.00	0.100	2.000	0	99.9	76.2	130				
Ethylbenzene	2.00	0.100	2.000	0	100	78	127				
m,p-Xylene	4.02	0.100	4.000	0	101	77.5	130				
o-Xylene	2.03	0.100	2.000	0	101	77.6	126				
Styrene	1.98	0.100	2.000	0	99.0	66.8	137				
Isopropylbenzene	1.97	0.100	2.000	0	98.5	75.9	133				
Bromoform	2.02	0.100	2.000	0	101	54.1	146				
1,1,2,2-Tetrachloroethane	1.99	0.100	2.000	0	99.5	68	134				
n-Propylbenzene	2.03	0.100	2.000	0	102	77.1	133				
Bromobenzene	2.00	0.100	2.000	0	100	71.1	131				
1,3,5-Trimethylbenzene	1.98	0.100	2.000	0	98.9	76.2	133				
2-Chlorotoluene	2.01	0.100	2.000	0	101	67.1	137				
4-Chlorotoluene	2.01	0.100	2.000	0	100	70.7	132				
tert-Butylbenzene	1.99	0.100	2.000	0	99.7	71.3	139				
1,2,3-Trichloropropane	2.02	0.100	2.000	0	101	70.8	132				
1,2,4-Trichlorobenzene	2.03	0.200	2.000	0	101	61.4	139				
sec-Butylbenzene	2.14	0.100	2.000	0	107	77.4	136				
4-Isopropyltoluene	2.13	0.100	2.000	0	106	78.1	131				
1,3-Dichlorobenzene	2.06	0.100	2.000	0	103	73.5	125				
1,4-Dichlorobenzene	2.07	0.100	2.000	0	104	71.4	125				
n-Butylbenzene	2.10	0.100	2.000	0	105	69.8	138				
1,2-Dichlorobenzene	2.09	0.100	2.000	0	105	74.2	123				
1,2-Dibromo-3-chloropropane	2.05	0.100	2.000	0	102	53.6	155				
1,2,4-Trimethylbenzene	1.98	0.100	2.000	0	99.1	72.3	133				



Date: 6/14/2017

Work Order: 1706117

CLIENT: G-Logics

Project: Thinker Toys

QC SUMMARY REPORT**Volatile Organic Compounds by EPA Method 8260C**

Sample ID: LCS-R36765	SampType: LCS	Units: µg/L			Prep Date: 6/12/2017			RunNo: 36765			
Client ID: LCSW	Batch ID: R36765				Analysis Date: 6/12/2017			SeqNo: 705658			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorobutadiene	2.11	0.400	2.000	0	106	60.9	141				
Naphthalene	2.13	0.100	2.000	0	106	58.2	140				
1,2,3-Trichlorobenzene	2.01	0.400	2.000	0	100	61.3	133				
Surr: Dibromofluoromethane	2.72		2.500		109	61.1	128				
Surr: Toluene-d8	3.04		2.500		122	66	138				
Surr: 1-Bromo-4-fluorobenzene-BFB	2.61		2.500		104	64.7	128				

Sample ID: 1706117-003AREP	SampType: REP	Units: µg/L			Prep Date: 6/13/2017			RunNo: 36765			
Client ID: SVE-2	Batch ID: R36765				Analysis Date: 6/13/2017			SeqNo: 705821			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.100						0		30	QH
Chloromethane	ND	0.100						0		30	H
Vinyl chloride	ND	0.0200						0		30	H
Bromomethane	ND	0.100						0		30	H
Trichlorofluoromethane	ND	0.100						0		30	H
Chloroethane	ND	0.100						0		30	H
1,1-Dichloroethene	ND	0.100						0		30	H
Methylene chloride	ND	0.100						0		30	H
trans-1,2-Dichloroethene	ND	0.100						0		30	H
Methyl tert-butyl ether (MTBE)	ND	0.100						0		30	H
1,1-Dichloroethane	ND	0.100						0		30	H
2,2-Dichloropropane	ND	0.200						0		30	QH
cis-1,2-Dichloroethene	ND	0.100						0		30	H
Chloroform	ND	0.100						0		30	H
1,1,1-Trichloroethane (TCA)	ND	0.100						0		30	H
1,1-Dichloropropene	ND	0.100						0		30	H
Carbon tetrachloride	ND	0.100						0		30	H
1,2-Dichloroethane (EDC)	ND	0.100						0		30	H
Benzene	ND	0.100						0		30	H



Date: 6/14/2017

Work Order: 1706117

CLIENT: G-Logics

Project: Thinker Toys

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID: 1706117-003AREP	SampType: REP	Units: µg/L		Prep Date: 6/13/2017		RunNo: 36765					
Client ID: SVE-2	Batch ID: R36765			Analysis Date: 6/13/2017		SeqNo: 705821					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	ND	0.100						0		30	H
1,2-Dichloropropane	ND	0.100						0		30	H
Dichlorobromomethane	ND	0.100						0		30	H
Dibromomethane	ND	0.100						0		30	H
cis-1,3-Dichloropropene	ND	0.100						0		30	H
Toluene	0.115	0.100				0.07287		45.3		30	H
trans-1,3-Dichloropropene	ND	0.100				0				30	H
1,1,2-Trichloroethane	ND	0.100				0				30	H
1,3-Dichloropropane	ND	0.100				0				30	H
Tetrachloroethene (PCE)	0.813	0.100				1.039		24.4		30	H
Dibromochloromethane	ND	0.100				0				30	H
1,2-Dibromoethane (EDB)	ND	0.00100				0				30	H
Chlorobenzene	ND	0.100				0				30	H
1,1,1,2-Tetrachloroethane	ND	0.100				0				30	H
Ethylbenzene	ND	0.100				0				30	H
m,p-Xylene	0.171	0.100				0.1045		48.5		30	H
o-Xylene	ND	0.100				0				30	H
Styrene	ND	0.100				0				30	H
Isopropylbenzene	ND	0.100				0				30	H
Bromoform	ND	0.100				0				30	H
1,1,2,2-Tetrachloroethane	ND	0.100				0				30	H
n-Propylbenzene	ND	0.100				0				30	H
Bromobenzene	ND	0.100				0				30	H
1,3,5-Trimethylbenzene	ND	0.100				0				30	H
2-Chlorotoluene	ND	0.100				0				30	H
4-Chlorotoluene	ND	0.100				0				30	H
tert-Butylbenzene	ND	0.100				0				30	H
1,2,3-Trichloropropane	ND	0.100				0				30	H
1,2,4-Trichlorobenzene	ND	0.200				0				30	H
sec-Butylbenzene	ND	0.100				0				30	H
4-Isopropyltoluene	ND	0.100				0				30	H



Date: 6/14/2017

Work Order: 1706117

CLIENT: G-Logics

Project: Thinker Toys

QC SUMMARY REPORT**Volatile Organic Compounds by EPA Method 8260C**

Sample ID: 1706117-003AREP	SampType: REP	Units: $\mu\text{g/L}$			Prep Date: 6/13/2017			RunNo: 36765			
Client ID: SVE-2	Batch ID: R36765				Analysis Date: 6/13/2017			SeqNo: 705821			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.100						0		30	H
1,4-Dichlorobenzene	ND	0.100						0		30	H
n-Butylbenzene	ND	0.100						0		30	H
1,2-Dichlorobenzene	ND	0.100						0		30	H
1,2-Dibromo-3-chloropropane	ND	0.100						0		30	H
1,2,4-Trimethylbenzene	0.128	0.100				0.1095		15.3		30	H
Hexachlorobutadiene	ND	0.400						0		30	H
Naphthalene	ND	0.100						0		30	H
1,2,3-Trichlorobenzene	ND	0.400						0		30	H
Surr: Dibromofluoromethane	2.34		2.500		93.7	61.1	128		0		H
Surr: Toluene-d8	2.32		2.500		92.7	68.2	129		0		H
Surr: 1-Bromo-4-fluorobenzene-BFB	2.42		2.500		96.7	64.7	128		0		H

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).



Sample Log-In Check List

Client Name: **GL**
Logged by: **Clare Griggs**

Work Order Number: **1706117**
Date Received: **6/9/2017 3:26:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
Air Samples
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >0°C to 10.0°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Chain of Custody Record and Laboratory Services Agreement

3600 Fremont Ave N.
Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-7178

Date: 6/9/17

Laboratory Project No (internal): 1706117

Page: 1 of 1

Client: G-Logics
Address: _____
City, State, Zip: _____
Telephone: _____ Fax: _____

Project Name: Thinker Toys
Project No: 01-0731-F Collected by: JT
Location: Bellevue
Report To (PM): Jack Taylor
PM Email: jact@g-logics.com

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCS (EPA 8260 / 6241)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM / 625)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1 Ex Stack	6/9	200	A X														
2 SVE-1		205															
3 SVE-2		210															
4 SVE-3		215															
5 SVE-4		220															
6 SVE-5		225															
7 SVE-6		230															
8 SVE-7		235															
9 SVE-8		240															
10 SVE-9		245															

**Metals Analysis (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Ti Ti U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Sample Disposal: Return to Client Disposal by Lab (Samples will be held for 30 days unless otherwise noted. A fee may be assessed if samples are retained after 30 days.)

Turn-around times for samples received after 4:00pm will begin on the following business day.

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished

Date/Time 6/9/17 1526

Received

Date/Time 6/9/17 1526

Relinquished

Date/Time

Received

Date/Time

TAT → SameDay^ NextDay^ 2 Day 3 Day STD

[^]Please coordinate with the lab in advance