



April 1, 2016
G-Logics File 01-0739-F

BV Holdings, LLC
Mr. Michael Nielson
10672 NE 9th Pl
Bellevue, WA 98004

**Subject: System Status, Memo
Former Drycleaner Location
10610 NE 8th Street
Bellevue, WA**

Dear Mr. Nielson:

This memo discusses vapor sampling results and the status of the treatment-system at the above referenced property (Figure 1). This work has been performed in accordance with our workplan *Authorization for SVE Continued Pulse Operation*, dated August 15, 2015. Operation of the SVE system was extended from July 2015 to July 2016 to continue the removal of volatile contaminants from on-property soils and groundwater. With the continued operation, monthly site visits and vapor sampling (conducted on a quarterly basis) have been conducted to monitor the system and the operational components. Additionally, analytical results from the collected vapor samples have been used to calculate the amount of contaminant removal to date.

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System Background

Initially, the treatment system included an air-sparge and soil-vapor extraction system (AS/SVE) that was installed on the former Thinker Toys property. Installation of the AS/SVE system began in October 2012 after receiving appropriate permits. During the December 2013 visit/sampling event, air-pressure was observed to remain in the AS supply line between the backflow valve and the wells. This continued to be observed through the June 2014 visit/sampling event, when it was apparent that the soil formation was not sufficiently permeable to effectively accomplish a sparging action. Due to this observation, the AS system was permanently shut down during the June 2014 visit. This report summarizes the observed monitoring results since beginning of the system's operation.

System Configuration

As the AS portion of the system has been turned off, only the SVE portion of the system continues to operate. The SVE system primarily 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). During each monthly site visit, vacuum readings are observed and recorded.

Vapor Removal Discussion

During previous sampling events, vapor samples have been collected (using Tedlar bags) from the exhaust-stack and all nine SVE Wells. In an attempt to remove contaminant vapor more efficiently from higher contaminant producing SVE wells, some of the SVE wells were closed. Specifically, the valves on SVE wells that historically reported lower contaminants removal were closed during the January 2016 site visit. The closed SVE wells included 2, 3, 4, 8, and 9.

Collected vapor samples were analyzed for PCE and its breakdown components by EPA Method 8260. Analytical results demonstrate that contaminants continue to be removed from the soil and groundwater on the property (Table 1, Graph 1). The most significant concentrations of contaminant removal continue to be observed in SVE Wells 5, 6, and 7. These wells are located in the area that was mapped as having elevated concentrations of Tetrachloroethene (PCE) in the soil (Figure 3). As shown on Table 2, approximately 6 pounds of PCE vapor-contaminants were removed during the last three quarters (June 2015 to March 2016).

Groundwater Elevation Discussion

Groundwater levels in the on-property wells were measured and recorded by G-Logics beginning with the September 13, 2013 sampling event. Recorded groundwater levels can be reviewed on the attached Table 3.

Summary

As shown on Table 2, the system has removed 98.34 pounds of PCE to date (December 7, 2012 to March 17, 2016). This is also demonstrated on Graph 2, which plots the removal of effluent concentrations of PCE over time removed by the system. Both the cumulative total and daily average of PCE removal are shown on Graph 2. Groundwater elevations were plotted on the attached Graph 3, which depicts the fluctuations in groundwater elevations over time. Generally, groundwater elevations are lower in the fall and early winter months, higher in the spring and early summer months. When comparing the system exhaust-effluent vapor (Table 1, Graph 1), to groundwater fluctuations (Table 3, Graph 3), the effluent PCE-vapor concentrations are higher from late summer to early winter when more of the vadose zone is exposed (when the groundwater-table is low).

After reviewing the most recent sampling results, the valves on SVE wells 8 and 9 will be reopened to continue vapor extraction from these areas. Vapor samples will be collected in July 2016 to continue the monitoring of contaminant removal. Results of the July 2016 sampling event will be included in the next annual system monitoring report (expected to be in August 2016).



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

Dan Hatch, PMP
Remediation Manager

Steve Holmes, PE
Project Environmental Engineer

cc: Mark Myers
Rob Zarkos

Attachments:

Figure 1 – Site Location Maps

Figure 2 – Property Diagram, AS/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 Summary Calculations

Table 3 – Groundwater Elevation Measurements

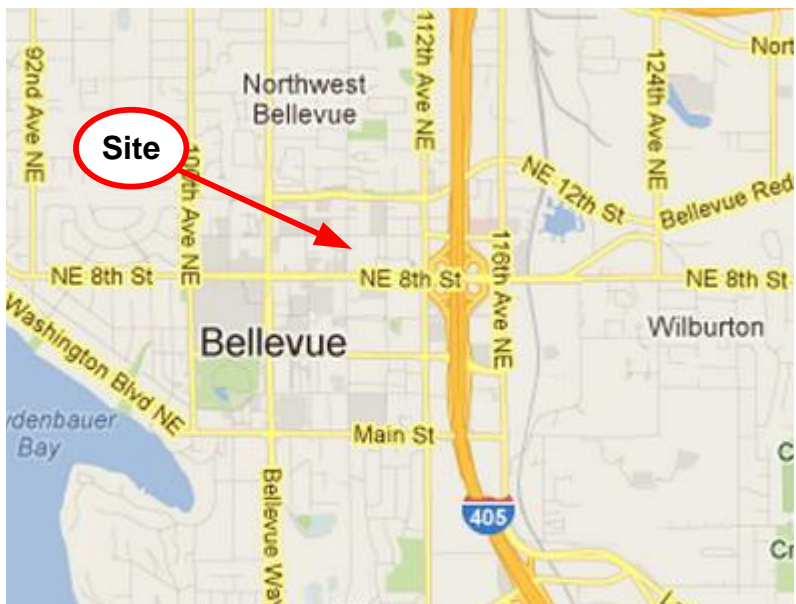
Graph 1 – Adjusted Analytical Results for PCE Vapor

Graph 2 – Pounds of PCE Removal

Graph 3 – Plotted Groundwater Elevations

The logo for g-logics, featuring the lowercase letters 'g-logics' in a green, sans-serif font. The 'g' is stylized with a small loop at the bottom.

FIGURES



Project File: 01-0739-F F1.vsd



Site Location Maps
 Former Thinker Toy Property
 10610 NE 8th Street
 Bellevue, Washington

Figure
 1



Drive-thru Canopy

MW-14

MW-13

Equipment Shed

Fencing

Underground Electrical Vault

MW-1

Typical SVE Trunk Lines,
(Connecting Equipment to
Manifolds)

AS Trunk Line,
(Connecting Equipment to Manifold)

MW-B2

MW-6

MW-8

MW-9

GL-SVE-2

GL-SVE-4

GL-SVE-7

GL-AS-1

GL-AS-3

GL-SVE-9

GL-SVE-6

MW-7S

GL-SVE-1

GL-SVE-3

GL-SVE-5

GL-AS-2

GL-SVE-8

MW-5

MW-2

Typical AS Branch Lines,
(Connecting Trunk Line to Wells)

MW-15

Typical SVE Branch Lines,
(Connecting Trunk Lines to Wells)

Existing 480V Power Trench

MW-4

106th Avenue Northeast

Sidewalk

Street / Curb

Northeast 8th Street

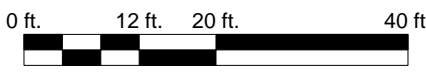
LEGEND

- Air Sparge Point
- Soil-Vapor Extraction Well
- Monitoring Wells
- SVE Trunk Lines,
(Connecting Equipment to Manifolds)
- AS Trunk Line,
(Connecting Equipment to Manifolds)
- Typical SVE Branch Lines,
(Connecting Trunk Lines to Wells)
- Typical AS Branch Lines,
(Connecting Trunk Line to Wells)
- Manifold Vaults (North and South)
- Understood Subject Property Line
- Underground Power Line (480V)

This location of MW-8 is a Figure placement only. The well is physically located 60 feet to the north of this mapped location.

This figure contains information in color. Black & white photocopies may not be suitable for review. Buildings are shown for reference only and may not be to scale.

Approximate Drawing Scale: 1" = 20'



Property Diagram, AS/SVE System Layout
Former Thinker Toy Property
NE. 8th St.
Bellevue, Washington

Figure
2

Project File: 01-0739-F F2 4-2016.vsd





Drive-thru Canopy

MW-14

MW-13

Equipment Shed

MW-3

MW-1

MW-B2

MW-6

MW-8

MW-9

GL-SVE-2

GL-SVE-4

GL-SVE-7

GL-SVE-9

GL-AS-1

GL-AS-3

MW-7S

GL-SVE-1

GL-SVE-3

GL-SVE-5

GL-AS-2

GL-SVE-8

MW-5

MW-10

Existing 480V Power Trench

106th Avenue Northeast

Sidewalk

MW-4

Street / Curb

Northeast 8th Street

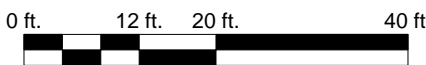
LEGEND

- Air Sparge Point
- Soil-Vapor Extraction Well
- Monitoring Wells
- G-Logics Estimated Area of PCE Detected Above 1.9 mg/kg (MTCA Method B Cleanup Level prior to 2012 regulation change)
- G-Logics Estimated Area of PCE Detected Above 60 mg/kg (Land Ban)
- SVE Trunk Lines, (Connecting Equipment to Manifolds)
- AS Trunk Line, (Connecting Equipment to Manifolds)
- Typical SVE Branch Lines, (Connecting to Wells)
- Typical AS Branch Lines, (Connecting to Wells)
- Manifold Vaults (North and South)
- Understood Subject Property Line
- Underground Power Line (480V)

This location of MW-8 is a Figure placement only. The well is physically located 60 feet to the north of this mapped location.

This figure contains information in color. Black & white photocopies may not be suitable for review. Buildings are shown for reference only and may not be to scale.

Approximate Drawing Scale: 1" = 20'



AS/SVE System Layout with PCE Mapping
Former Thinker Toy Property
NE. 8th St.
Bellevue, Washington

Figure
3

Project File: 01-0739-F F3 4-2016.vsd



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 (T)	nd	nd	nd	1.32	1.29	21.4	nd	nd	nd
	12/28/2012	Ex Stack	nd	nd	nd	0.110	nd	28.0	nd	0.106	nd
	1/5/2013	Ex Stack	nd	nd	nd	0.103	nd	26.5	nd	nd	nd
	1/14/2013	Ex Stack (H)	nd	nd	nd	0.231	0.203	54.6	nd	nd	nd
	1/22/2013	Ex Stack	nd	nd	nd	0.169	0.169	64.7	nd	nd	nd
	1/31/2013	Ex Stack	nd	nd	nd	0.453	0.475	40.4	nd	nd	nd
	3/8/2013	Ex Stack	nd	nd	nd	nd	nd	19.4	nd	nd	nd
	4/10/2013	Ex Stack	nd	nd	nd	nd	nd	9.85	nd	nd	nd
	5/30/2013	Ex Stack	nd	nd	nd	nd	nd	8.0	nd	nd	nd
	6/11/2013	Ex Stack	nd	nd	nd	0.113	0.145	21.8	nd	nd	nd
	9/12/2013	Ex Stack	nd	nd	nd	nd	0.127	15.7	nd	nd	nd
	12/23/2013	Ex Stack	nd	nd	nd	nd	nd	4.65	nd	0.143	nd
	3/19/2014	Ex Stack Dup	nd	nd	nd	nd	nd	0.826	nd	nd	nd
	6/19/2014	Ex Stack	nd	nd	nd	nd	nd	2.24	nd	nd	nd
	9/19/2014	Ex Stack	nd	nd	nd	0.101	nd	8.00	nd	nd	nd
	12/19/2014	Ex Stack	nd	nd	nd	nd	nd	3.46	nd	nd	nd
	3/26/2015	Ex Stack	nd	nd	nd	nd	nd	1.38	nd	nd	nd
	6/26/2015	Ex Stack	nd	nd	nd	nd	0.105	10.00	nd	nd	nd
1/7/2016	Ex Stack	nd	nd	nd	nd	nd	1.69	nd	nd	nd	
3/17/2016	Ex Stack	nd	nd	nd	nd	nd	1.50	nd	nd	nd	
SVE-1	1/31/2013	SVE-1	nd	nd	0.123	1.06	0.445	10.8	nd	nd	nd
	3/8/2013	SVE-1	nd	nd	nd	nd	0.147	14.0	nd	nd	nd
	4/10/2013	SVE-1	nd	nd	nd	0.271	0.289	22.8	nd	nd	nd
	5/30/2013	SVE-1	nd	nd	nd	0.333	nd	16.4	nd	nd	nd
	6/11/2013	SVE-1	nd	nd	nd	0.313	0.363	37.7	nd	nd	nd
	9/12/2013	SVE-1	nd	nd	nd	0.133	0.176	18.4	nd	nd	nd
	12/23/2013	SVE-1	nd	nd	nd	nd	nd	12.8	nd	nd	nd
	3/19/2014	SVE-1	nd	nd	nd	nd	nd	2.73	nd	nd	nd
	6/19/2014	SVE-1	nd	nd	nd	nd	nd	1.72	nd	nd	nd
	9/19/2014	SVE-1	nd	nd	nd	0.330	0.225	14.6	nd	nd	nd
	12/19/2014	SVE-1	nd	nd	0.134	nd	nd	2.12	nd	0.117	nd
	3/26/2015	SVE-1	nd	nd	nd	nd	nd	0.870	nd	nd	nd
	6/26/2015	SVE-1	nd	nd	nd	nd	nd	3.29	nd	nd	nd
	1/7/2016	SVE-1	nd	nd	nd	nd	nd	2.75	nd	nd	nd
3/17/2016	SVE-1	nd	nd	nd	nd	nd	5.07	nd	nd	nd	
SVE-2	1/31/2013	SVE-2	nd	nd	0.132	1.04	0.466	5.64	nd	0.190	nd
	3/8/2013	SVE-2	nd	nd	nd	nd	nd	6.82	nd	nd	nd
	4/10/2013	SVE-2	nd	nd	nd	nd	nd	6.55	nd	nd	nd
	5/30/2013	SVE-2	nd	nd	nd	nd	nd	6.27	nd	nd	nd
	6/11/2013	SVE-2	nd	nd	nd	nd	nd	10.6	nd	nd	nd
	9/12/2013	SVE-2	nd	nd	nd	nd	nd	4.82	nd	nd	nd
	12/23/2013	SVE-2	nd	nd	nd	nd	nd	7.04	nd	nd	nd
	3/19/2014	SVE-2	nd	nd	nd	nd	nd	1.98	nd	nd	nd
	6/19/2014	SVE-2	nd	nd	nd	nd	nd	0.316	nd	nd	nd
	9/19/2014	SVE-2	nd	nd	nd	0.168	nd	3.93	nd	nd	nd
	12/19/2014	SVE-2	nd	nd	nd	nd	nd	1.23	nd	nd	nd
	3/26/2015	SVE-2	nd	nd	nd	nd	nd	0.677	nd	nd	nd
	6/26/2015	SVE-2	nd	nd	nd	nd	nd	1.28	nd	nd	nd
	1/7/2016	SVE-2	nd	nd	nd	nd	nd	1.63	nd	nd	nd
3/17/2016	SVE-2	*	---	---	---	---	---	---	---	---	

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-3	1/31/2013	SVE-3	nd	nd	0.125	1.03	0.460	15.8	nd	nd	nd
	3/8/2013	SVE-3	nd	nd	nd	1.07	0.553	13.6	nd	nd	nd
	4/10/2013	SVE-3	nd	nd	nd	0.340	0.426	14.2	nd	nd	nd
	5/30/2013	SVE-3	nd	nd	nd	1.08	0.494	14.8	nd	nd	nd
	6/11/2013	SVE-3	nd	nd	nd	3.14	1.74	36.7	nd	nd	nd
	9/12/2013	SVE-3	nd	nd	nd	0.989	0.495	15.8	nd	nd	nd
	12/23/2013	SVE-3	nd	nd	nd	nd	0.261	21.2	nd	nd	nd
	3/19/2014	SVE-3	nd	nd	nd	nd	nd	3.60	nd	nd	nd
	6/19/2014	SVE-3	nd	nd	nd	nd	nd	2.15	nd	nd	nd
	9/19/2014	SVE-3	nd	nd	nd	0.115	nd	2.21	nd	nd	nd
	12/19/2014	SVE-3	nd	nd	nd	nd	nd	1.49	nd	nd	nd
	3/26/2015	SVE-3	nd	nd	nd	nd	nd	3.78	nd	nd	nd
	6/26/2015	SVE-3	nd	nd	nd	nd	nd	0.93	nd	nd	nd
	1/7/2016	SVE-3	nd	nd	nd	nd	nd	0.93	nd	nd	nd
3/17/2016	SVE-3	*	---	---	---	---	---	---	---	---	
SVE-4	1/31/2013	SVE-4	nd	nd	0.125	0.981	0.546	18.3	nd	nd	nd
	3/8/2013	SVE-4	nd	nd	nd	0.853	3.380	70.5	nd	nd	nd
	4/10/2013	SVE-4	nd	nd	nd	1.29	12.1	191	nd	nd	nd
	5/30/2013	SVE-4	nd	nd	nd	0.40	2.52	78.2	nd	nd	nd
	6/11/2013	SVE-4	nd	nd	nd	0.240	1.70	21.0	nd	nd	nd
	9/12/2013	SVE-4	nd	nd	nd	2.74	15.3	493	nd	nd	nd
	12/23/2013	SVE-4	nd	nd	nd	0.890	10.8	199	nd	nd	nd
	3/19/2014	SVE-4	nd	nd	nd	nd	nd	4.77	nd	nd	nd
	6/19/2014	SVE-4	nd	nd	nd	nd	nd	0.195	nd	nd	nd
	9/19/2014	SVE-4	nd	nd	nd	0.686	7.01	119	nd	nd	nd
	12/19/2014	SVE-4	nd	nd	nd	0.125	0.306	4.60	nd	nd	nd
	3/26/2015	SVE-4	nd	nd	nd	nd	nd	2.09	nd	nd	nd
	6/26/2015	SVE-4	nd	nd	nd	nd	nd	1.66	nd	nd	nd
	1/7/2016	SVE-4	nd	nd	nd	nd	nd	0.67	nd	nd	nd
3/17/2016	SVE-4	*	---	---	---	---	---	---	---	---	
SVE-5	1/31/2013	SVE-5	nd	nd	0.147	0.62	1.06	45.0	nd	nd	nd
	3/8/2013	SVE-5	nd	nd	nd	0.46	0.66	55.2	nd	nd	nd
	4/10/2013	SVE-5	nd	nd	nd	0.934	1.40	38.1	nd	nd	nd
	5/30/2013	SVE-5	nd	0.222	nd	nd	0.473	33.3	nd	nd	nd
	6/11/2013	SVE-5	0.458	nd	nd	5.87	9.23	238	nd	nd	nd
	9/12/2013	SVE-5	0.224	nd	nd	4.04	8.7	1,720	0.135	nd	0.262
	12/23/2013	SVE-5	nd	nd	nd	2.26	3.5	472	nd	nd	nd
	3/19/2014	SVE-5	nd	nd	nd	nd	nd	6.07	nd	nd	nd
	6/19/2014	SVE-5	nd	nd	nd	nd	nd	0.806	nd	nd	nd
	9/19/2014	SVE-5	nd	nd	nd	0.311	0.648	125	nd	nd	nd
	12/19/2014	SVE-5	nd	nd	nd	nd	nd	22.0	nd	nd	nd
	3/26/2015	SVE-5	nd	nd	nd	nd	0.196	16.7	nd	nd	nd
	6/26/2015	SVE-5	nd	nd	nd	nd	0.259	50.10	nd	nd	nd
	1/7/2016	SVE-5	nd	nd	nd	0.478	1.88	53.80	nd	nd	nd
3/17/2016	SVE-5	nd	nd	nd	nd	nd	2.36	nd	nd	nd	

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	nd	nd	0.130	0.246	0.716	77.6	nd	nd	nd
	3/8/2013	SVE-6	nd	nd	nd	nd	0.257	307	nd	nd	nd
	4/10/2013	SVE-6	nd	nd	nd	0.204	0.471	240	nd	nd	nd
	5/30/2013	SVE-6	nd	nd	nd	nd	nd	47.4	nd	nd	nd
	6/11/2013	SVE-6	nd	nd	nd	0.284	1.21	370	nd	nd	nd
	9/12/2013	SVE-6	nd	nd	nd	0.287	0.748	238	nd	nd	nd
	12/23/2013	SVE-6	nd	nd	nd	0.153	0.290	55.3	nd	nd	nd
	3/19/2014	SVE-6	nd	nd	nd	nd	0.159	11.5	nd	nd	nd
	6/19/2014	SVE-6	nd	nd	nd	nd	nd	1.2	nd	nd	nd
	9/19/2014	SVE-6	nd	nd	nd	0.835	0.960	196	nd	nd	nd
	12/19/2014	SVE-6	nd	nd	nd	0.287	0.348	27.7	nd	nd	nd
	3/26/2015	SVE-6	nd	nd	nd	nd	0.130	13.6	nd	nd	nd
	6/26/2015	SVE-6	nd	nd	nd	nd	nd	14.60	nd	nd	nd
	1/7/2016	SVE-6	nd	nd	nd	0.157	0.491	39.40	nd	nd	nd
3/17/2016	SVE-6	nd	nd	nd	0.199	0.350	16.8	nd	nd	nd	
SVE-7	1/31/2013	SVE-7	nd	nd	0.139	0.388	0.712	57.2	nd	0.187	nd
	3/8/2013	SVE-7	nd	nd	nd	0.591	7.500	165.0	nd	nd	nd
	4/10/2013	SVE-7	nd	nd	nd	nd	0.688	22.9	nd	nd	nd
	5/30/2013	SVE-7	nd	nd	nd	nd	nd	6.0	nd	nd	nd
	6/11/2013	SVE-7	nd	nd	nd	nd	1.72	89.0	nd	nd	nd
	9/12/2013	SVE-7	nd	nd	nd	0.570	16.2	330	nd	nd	nd
	12/23/2013	SVE-7	nd	nd	nd	0.244	6.1	102	nd	nd	nd
	3/19/2014	SVE-7	nd	nd	nd	nd	1.34	18.6	nd	nd	nd
	6/19/2014	SVE-7	nd	nd	nd	nd	0.664	3.10	nd	nd	nd
	9/19/2014	SVE-7	nd	nd	nd	0.107	1.530	87.6	nd	nd	nd
	12/19/2014	SVE-7	nd	nd	nd	nd	0.338	13.8	nd	nd	nd
	3/26/2015	SVE-7	nd	nd	nd	nd	0.436	7.24	nd	nd	nd
	6/26/2015	SVE-7	nd	nd	nd	nd	0.104	6.25	nd	nd	nd
	1/7/2016	SVE-7	nd	nd	nd	nd	0.975	29.0	nd	nd	nd
3/17/2016	SVE-7	nd	nd	nd	nd	nd	1.0	nd	nd	nd	
SVE-8	1/31/2013	SVE-8	nd	nd	0.134	0.349	0.373	19.7	nd	0.203	nd
	3/8/2013	SVE-8	nd	nd	nd	nd	0.108	6.9	nd	nd	nd
	4/10/2013	SVE-8	nd	nd	nd	nd	nd	4.8	nd	nd	nd
	5/30/2013	SVE-8	nd	nd	nd	nd	nd	4.75	nd	nd	nd
	6/11/2013	SVE-8	nd	nd	nd	nd	0.175	31.6	nd	nd	nd
	9/12/2013	SVE-8	nd	nd	nd	nd	0.243	26.3	nd	nd	nd
	12/23/2013	SVE-8	nd	nd	nd	nd	nd	1.3	nd	nd	nd
	3/19/2014	SVE-8	nd	nd	nd	nd	0.391	10.5	nd	nd	nd
	6/19/2014	SVE-8	nd	nd	nd	nd	0.163	2.08	nd	nd	nd
	9/19/2014	SVE-8	nd	nd	nd	nd	nd	13.7	nd	nd	nd
	12/19/2014	SVE-8	nd	nd	nd	nd	nd	6.04	nd	nd	nd
	3/26/2015	SVE-8	nd	nd	nd	nd	nd	2.01	nd	nd	nd
	6/26/2015	SVE-8	nd	nd	nd	nd	nd	2.45	nd	nd	nd
	1/7/2016	SVE-8	nd	nd	nd	nd	0.189	12.9	nd	nd	nd
3/17/2016	SVE-8	*	---	---	---	---	---	---	---	---	

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-9	1/31/2013	SVE-9	nd	nd	0.123	0.312	0.256	14.4	nd	nd	nd
	3/8/2013	SVE-9	nd	nd	nd	nd	nd	17.2	nd	nd	nd
	4/10/2013	SVE-9	nd	nd	nd	nd	nd	6.20	nd	nd	nd
	5/30/2013	SVE-9	nd	0.222	nd	nd	nd	13.7	nd	nd	nd
	6/11/2013	SVE-9	nd	nd	nd	nd	nd	15.2	nd	nd	nd
	9/12/2013	SVE-9	nd	nd	nd	nd	0.441	39.4	nd	nd	nd
	12/23/2013	SVE-9	nd	nd	nd	nd	nd	1.58	nd	nd	nd
	3/19/2014	SVE-9	nd	nd	nd	nd	0.158	6.32	nd	nd	nd
	6/19/2014	SVE-9	nd	nd	nd	nd	nd	0.603	nd	nd	nd
	9/19/2014	SVE-9	nd	nd	nd	nd	nd	5.34	nd	nd	nd
	12/19/2014	SVE-9	nd	nd	nd	nd	nd	4.53	nd	nd	nd
	3/26/2015	SVE-9	nd	nd	nd	nd	nd	1.15	nd	nd	nd
	6/26/2015	SVE-9	nd	nd	nd	nd	nd	1.90	nd	nd	nd
	1/7/2016	SVE-9	nd	nd	nd	nd	0.125	10.60	nd	nd	nd
	3/17/2016	SVE-9	*	---	---	---	---	---	---	---	---
		RL	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.
 nd The concentration is less than the given laboratory detection 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
 (T) Sample analysis performed by EPA Method TO-15 (ug/m3), results were converted to match EPA Method 8260 (ug/L). Detected analytes shown with nd were below typical Method 8260 reporting limits. Other compounds not listed also were below typical Method 8260 reporting limits.
 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	0.21
December 28, 2012	January 5, 2013	2.27	8	0.28
January 5, 2013	January 14, 2013	3.10	9	0.34
January 14, 2013	January 22, 2013	2.79	8	0.35
January 22, 2013	January 31, 2013	2.96	9	0.33
January 31, 2013	March 8, 2013	10.35	36	0.29
March 8, 2013	April 10, 2013	5.94	33	0.18
April 10, 2013	May 30, 2013	5.58	50	0.11
May 30, 2013	June 11, 2013	2.27	12	0.19
June 11, 2013	September 12, 2013	22.10	93	0.24
September 12, 2013	December 23, 2013	13.16	102	0.13
December 23, 2013	March 19, 2014	3.01	86	0.04
March 19, 2014	June 19, 2014	1.79	92	0.02
June 19, 2014	September 19, 2014	5.78	92	0.06
September 19, 2014	December 19, 2014	3.21	91	0.04
December 19, 2014	March 26, 2015	1.46	97	0.02
March 26, 2015	June 26, 2015	3.22	92	0.04
June 26, 2015	January 7, 2016	4.92	195	0.03
January 7, 2016	March 17, 2016	0.94	70	0.01
*Total Pounds Removed:		98.34		
Total Days of Operation:		1126		
Average Pounds Per Day Removed:		0.09		

* Quantity removed from start of operation to last day of sample collection.

TABLE 3

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

Location Designation	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

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

Location Designation	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-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

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

Location Designation	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-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

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

Location Designation	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

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

Location Designation	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-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

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

Location Designation	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-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

TABLE 3

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

Location Designation	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

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

Location Designation	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-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	

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

Location Designation	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-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

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

Location Designation	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

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

Location Designation	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-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 Availilble	
	G-logics							06/26/15	Not Availilble	
	G-logics							01/07/16	Not Availilble	
	G-logics							03/17/16	Not Availilble	

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

Location Designation	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-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

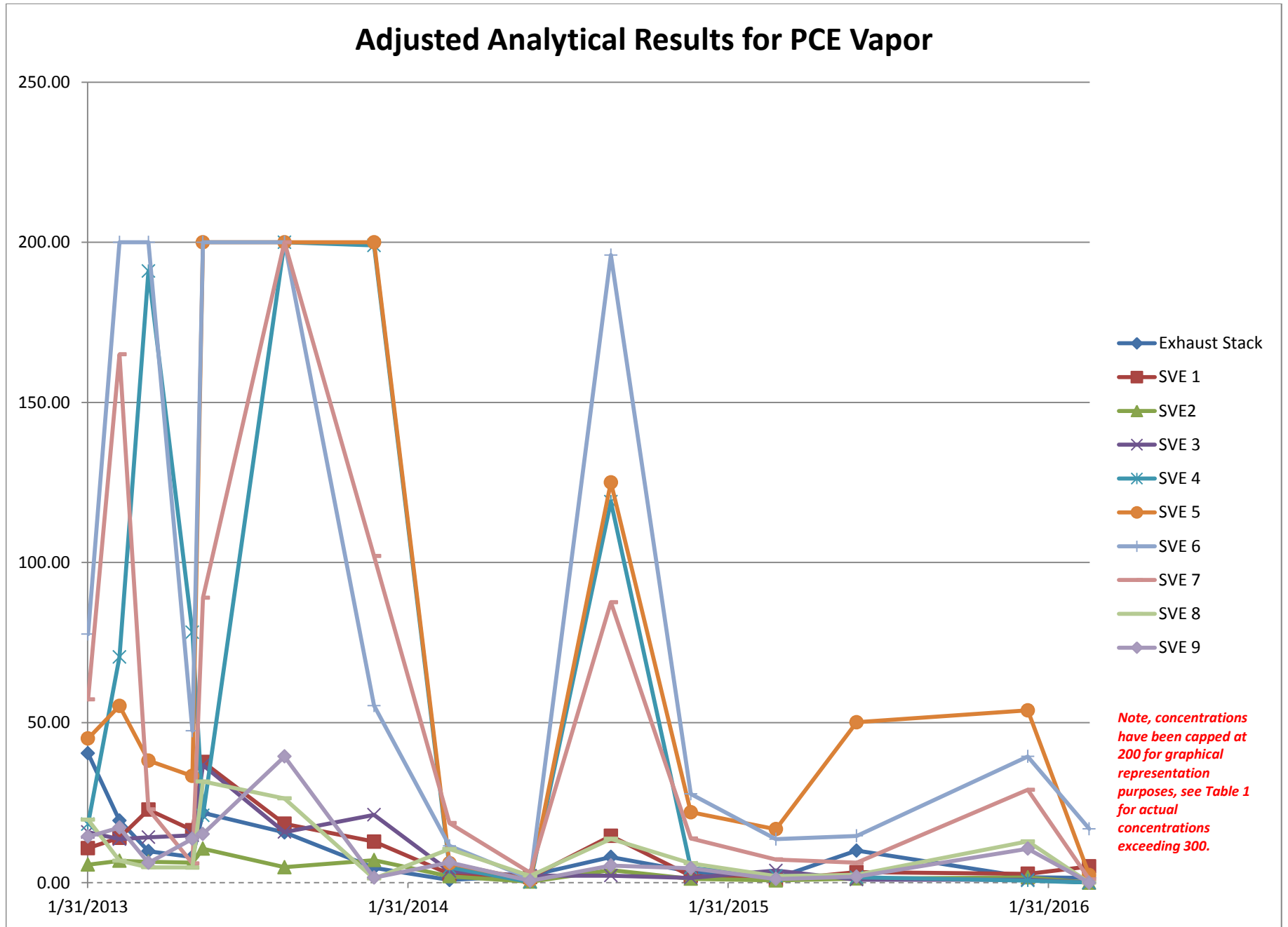
TABLE 3
Groundwater Elevation Measurements
Former Thinker Toys (Bellevue)
10610 Northeast 8th Street

Location Designation	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

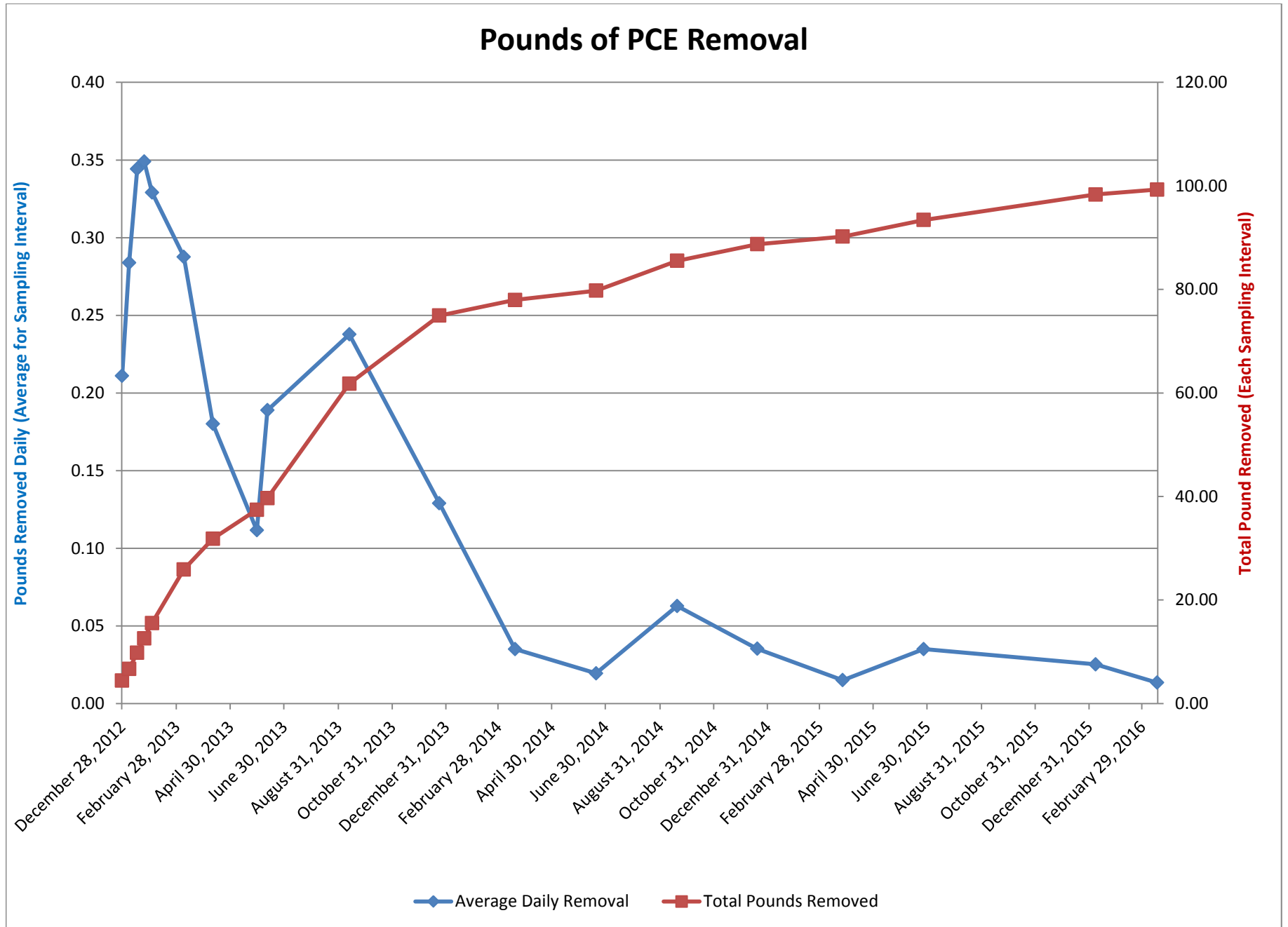
Notes:
Elevation Datum reported as mean sea level, vertical datum NAVD 88.

GRAPHS

Graph 1
Former Thinker Toys



Graph 2
Former Thinker Toys



Graph 3
Former Thinker Toys

