SDMS DOCID#1144200

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February 15, 2014

Ms. Lourdes Gonzales
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612
Attn: NPDES Wastewater Division
VOC General NPDES NO. CAG912003

Subject: Fourth Quarter/Annual 2013 Self-Monitoring Report, National Pollutant Discharge Elimination System General Permit, Groundwater Extraction and Treatment System, Hewlett-Packard Company, 640 Page Mill Road, Palo Alto, Santa Clara County, CA 94304

CIWQS Place ID: 203470 (Lrg)

Paul E. Paschke
Environmental Program Manager
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Dear Ms. Gonzales,

This *Fourth Quarter/Annual 2013 Self-Monitoring Report* is submitted by Hewlett-Packard Company (HP) for the groundwater extraction and treatment (GWET) system, located at 640 Page Mill Road, Palo Alto, CA (the Site). This report is submitted in compliance with the requirements of the Regional Water Quality Control Board (RWQCB) Notice of Coverage Under the Requirements of Order No. R2-2009-0059 (National Pollutant Discharge Elimination System [NPDES] Permit No. CAG912003, or the General Permit) issued to HP on November 25, 2009. The Annual Fee has been paid.

This report includes a summary of 2013 self-monitoring activities, including standard observations and analytical results for sampling events conducted during the Fourth Quarter 2013.

Review of the effluent monitoring analytical results and standard observations data indicate that there were no excursions from the effluent or receiving water limitations during 2013.

Operation and Maintenance (O&M) of the GWET system was performed during 2013 in a manner consistent with the O&M Manual for the system. System specific checklists were used to document routine inspections and maintenance. Carbon change outs were performed at the site on April 13, June 22, and November 2, 2013. The system was shut down on October 14, 2013, to tie in two additional groundwater extraction wells and retrofit the Ozone/Peroxide contact piping. The system was restarted on January 6, 2014.

Compliance samples were collected and submitted for laboratory analysis in accordance with Table E-2 from Order No R2-2009-0059. Samples were transported to TestAmerica laboratories, Inc. (TestAmerica), a California state-certified laboratory, using chain-of-custody protocol.

Laboratory analyses were performed by TestAmerica with the exception of fish bioassay, which was performed by Block Environmental Services.

The attached tables contain data for 2013. Table 1 presents a summary of the monitoring and reporting program conducted in 2013. Table 2 presents a summary of the influent analytical results (sample location INF-001). Table 3 presents a summary of effluent analytical results (sample location EFF-001). Tables 4A through 4J present summaries of the quality control activities. Table 5 presents a performance summary of the GWET system, including the average weekly flow data and an estimate of the mass of volatile organic compounds (VOCs) removed. Table 6 presents the standard observations observed at the GWET system and the receiving water locations. The Site, receiving water locations, and surrounding vicinity are shown on Figure 1.

> I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Please contact me at (970) 898-0573 if you have any questions regarding this report.

Sincerely,
HEWLETT-PACKARD COMPANY

paul.paschke@hp.com Digitally signed by paul.paschke@hp.com
DN: cn=paul.paschke@hp.com
Date: 2014.02.12 16:56:12 -07'00'

Paul E. Paschke
Environmental Program Manager

Attachments:

Table 1 – Summary of Self-Monitoring and Reporting Program – Annual 2013
Table 2 – Summary of Influent (INF-001) Analytical Results – Annual 2013
Table 3 – Summary of Effluent (EFF-001) Analytical Results – Annual 2013
Table 4A – Summary of Quality Control Activities – January 2013
Table 4B – Summary of Quality Control Activities – February 2013
Table 4C – Summary of Quality Control Activities – March 2013
Table 4D – Summary of Quality Control Activities – April 2013

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CIWQS Place ID: 203470 (Lrg)

Table 4E – Summary of Quality Control Activities – May 2013
Table 4F – Summary of Quality Control Activities – June 2013
Table 4G – Summary of Quality Control Activities – July 2013
Table 4H – Summary of Quality Control Activities – August 2013
Table 4I – Summary of Quality Control Activities – September 2013
Table 4J – Summary of Quality Control Activities – October 2013
Table 5 – Flow Data and VOC Mass Removal Data – Annual 2013
Table 6 – Summary of Standard Observations – Annual 2013

Figure 1 – Site Vicinity and Storm Drain Location Map

cc: Wendy Chen, *Stantec Consulting Services Inc.*
Christopher Maxwell, *Stantec Consulting Services Inc.*
John Buchanan, *Varian Medical Systems, Inc.*
Annette Walton – *Stanford University*
Kimberly McMorrow – *Wilson, Sonsini, Goodrich, and Rosati*
Kristin Ashby – *Wilson, Sonsini, Goodrich, and Rosati*
Rachel Fleitman – *Hines Property Management*
Kirstin Trautwein – *NOP 650 Page Mill Road*

Table 1
Summary of Self-Monitoring and Reporting Program
Annual 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Sample Location	Date Sampled	Analytical Suite	Analytical Method	Date Analyzed
INF-001	1/15/2013	VOCs	US EPA8260B	1/17/2013
	2/6/2013	VOCs	US EPA 8260B	2/8/2013
	3/5/2013	VOCs	US EPA 8260B	3/11/2013
	4/16/2013	VOCs	US EPA8260B	4/19/2013
	5/9/2013	VOCs	US EPA 8260B	5/13/2013
	6/6/2013	VOCs	US EPA 8260B	6/10/2013
	7/11/2013	VOCs	US EPA8260B	7/16/2013
	8/7/2013	VOCs	US EPA 8260B	8/9/2013
	9/4/2013	VOCs	US EPA 8260B	9/6/2013
	10/3/2013	VOCs	US EPA8260B	10/9/2013
EFF-001	1/15/2013	Mercury	US EPA 1631E	1/21/2013
	1/15/2013	Metals	US EPA 200.8	1/21/2013
	1/15/2013	Turbidity	US EPA 2130B	1/15/2013
	1/15/2013 and 1/17/2013	Fish Toxicity, 96-hr (% survival)	US EPA 821-R-02-012	1/16/2013 - 1/20/2013
	1/15/2013	Parameters	Field Test Kit	1/15/2013
	1/15/2013	1,4-Dioxane	US EPA 8270C	1/23/2013
	1/15/2013	VOCs	US EPA 8260B	1/17/2013
	1/15/2013	SVOCs	US EPA 8270C	1/18/2013
	1/15/2013	Cyanide	SM20-4500-CN C&E, Low	1/24/2013
	2/6/2013	VOCs	US EPA 8260B	2/8/2013
	3/5/2013	VOCs	US EPA 8260B	3/8/2013
	4/16/2013	VOCs	US EPA 8260B	4/19/2013
	5/9/2013	VOCs	US EPA 8260B	5/10/2013
	6/6/2013	VOCs	US EPA 8260B	6/10/2013
	7/11/2013	VOCs	US EPA 8260B	7/16/2013
	7/11/2013	SVOCs	US EPA 8270C	7/17/2013
	8/7/2013	VOCs	US EPA 8260B	8/9/2013
	9/4/2013	VOCs	US EPA 8260B	9/6/2013
	10/3/2013	VOCs	US EPA 8260B	10/9/2013
Trip Blank	1/15/2013	VOCs	US EPA 8260B	1/17/2013
	2/6/2013	VOCs	US EPA 8260B	2/8/2013
	3/5/2013	VOCs	US EPA 8260B	3/8/2013
	4/16/2013	VOCs	US EPA 8260B	4/19/2013
	5/9/2013	VOCs	US EPA 8260B	5/13/2013
	6/6/2013	VOCs	US EPA 8260B	6/10/2013
	7/11/2013	VOCs	US EPA 8260B	7/16/2013
	8/7/2013	VOCs	US EPA 8260B	8/9/2013
	9/4/2013	VOCs	US EPA 8260B	9/6/2013
	10/3/2013	VOCs	US EPA 8260B	10/9/2013

Abbreviations:
VOCs = volatile organic compounds
SVOCs = semi-volatile organic compounds
TDS = Total Siddolved Solids
US EPA = United States Environmental Protection Agency

Table 2
Summary of Influent (INF-001) Analytical Results
Annual 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Chemical Compound	US EPA Method	15-Jan-13			6-Feb-13			5-Mar-13			16-Apr-13			9-May-13			6-Jun-13			11-Jul-13			7-Aug-13			4-Sep-13			3-Oct-13		
		Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
1,1,1,2-Tetrachloroethane	8260B	ND	5.0	0.67	ND	5.0	0.67	ND	5.0	0.67	ND	5.0	0.67	ND	5.0	0.67	ND	5.0	0.67	ND	5.0	0.67	ND	5.0	0.67	ND	5.0	0.67	ND	5.0	0.67
1,1,1-Trichloroethane	8260B	630	5.0	2.0	530	5.0	2.0	280	5.0	2.0	310	5.0	2.0	320	5.0	2.0	370	5.0	2.0	330	5.0	2.0	330	5.0	2.0	310	5.0	2.0	420	5.0	2.0
1,1,2,2-Tetrachloroethane	8260B	ND	5.0	0.74	ND	5.0	0.74	ND	5.0	0.74	ND	5.0	0.74	ND	5.0	0.74	ND	5.0	0.74	ND	5.0	0.74	ND	5.0	0.74	ND	5.0	0.74	ND	5.0	0.74
1,1,2-Trichloroethane	8260B	ND	5.0	1.1	ND	5.0	1.1	ND	5.0	1.1	ND	5.0	1.1	ND	5.0	1.1	ND	5.0	1.1	ND	5.0	1.1	ND	5.0	1.1	ND	5.0	1.1	ND	5.0	1.1
1,1-Dichloroethane	8260B	27	5.0	0.75	22	5.0	0.75	16	5.0	0.75	20	5.0	1.1	21	5.0	1.1	20	5.0	1.1	19	5.0	1.1	18	5.0	1.1	15	5.0	1.1	19	5.0	1.1
1,1-Dichloroethylene	8260B	64	5.0	2.0	53	5.0	2.0	43	5.0	2.0	46	5.0	2.0	57	5.0	2.0	43	5.0	2.0	38	5.0	2.0	47	5.0	2.0	35	5.0	2.0	51	5.0	2.0
1,1-Dichloropropene	8260B	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0
1,2,3-Trichlorobenzene	8260B	ND	10	2.1	ND	10	2.1	ND	10	2.1	ND	10	2.1	ND	10	2.1	ND	10	2.1	ND	10	2.1	ND	10	2.1	ND	10	2.1	ND	10	2.1
1,2,3-Trichloropropane	8260B	ND	5.0	0.87	ND	5.0	0.87	ND	5.0	0.87	ND	5.0	0.87	ND	5.0	0.87	ND	5.0	0.87	ND	5.0	0.87	ND	5.0	0.87	ND	5.0	0.87	ND	5.0	0.87
1,2,4-Trichlorobenzene	8260B	ND	10	1.3	ND	10	1.3	ND	10	1.3	ND	10	1.3	2.7 DNQ	10	1.3	ND	10	1.3	ND	10	1.3	2.1 DNQ	10	1.3	2.5 DNQ	10	1.3	2.0 DNQ	10	1.3
1,2,4-Trimethylbenzene	8260B	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0
1,2-Dibromo-3-Chloropropane (DBCP)	8260B	ND	10	2.1	ND	10	2.1	ND	10	2.1	ND	10	2.1	ND	10	2.1	ND	10	2.1	ND	10	2.1	ND	10	2.1	ND	10	2.1	ND	10	2.1
1,2-Dichlorobenzene	8260B	ND	5.0	2.1	ND	5.0	2.1	14	5.0	2.1	12	5.0	2.1	17	5.0	2.1	19	5.0	2.1	17	5.0	2.1	16	5.0	2.1	15	5.0	2.1	13	5.0	2.1
1,2-Dichloroethane	8260B	ND	5.0	0.77	ND	5.0	0.77	ND	5.0	0.77	ND	5.0	0.77	ND	5.0	0.77	ND	5.0	0.77	ND	5.0	0.77	ND	5.0	0.77	ND	5.0	0.77	ND	5.0	0.77
1,2-Dichloropropane	8260B	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0
1,3,5-Trimethylbenzene	8260B	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7
1,3-Dichlorobenzene	8260B	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0
1,3-Dichloropropane	8260B	ND	10	1.7	ND	10	1.7	ND	10	1.7	ND	10	1.7	ND	10	1.7	ND	10	1.7	ND	10	1.7	ND	10	1.7	ND	10	1.7	ND	10	1.7
1,4-Dichlorobenzene	8260B	ND	5.0	1.6	ND	5.0	1.6	ND	5.0	1.6	ND	5.0	1.6	ND	5.0	1.6	ND	5.0	1.6	ND	5.0	1.6	ND	5.0	1.6	ND	5.0	1.6	ND	5.0	1.6
2,2-Dichloropropane	8260B	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7
2-Chlorotoluene	8260B	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0
2-Hexanone	8260B	ND	500	27	ND	500	27	ND	500	27	ND	500	30	ND	500	30	ND	500	30	ND	500	30	ND	500	30	ND	500	30	ND	500	30
2-Phenylbutane (sec-Butylbenzene)	8260B	ND	10	1.7	ND	10	1.7	ND	10	1.7	ND	10	1.7	ND	10	1.7	ND	10	1.7	ND	10	1.7	ND	10	1.7	ND	10	1.7	ND	10	1.7
4-Chlorotoluene	8260B	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0
Acetone	8260B	ND	500	80	ND	500	80	ND	500	80	ND	500	80	ND	500	80	ND	500	80	ND	500	80	ND	500	80	ND	500	80	ND	500	80
Benzene	8260B	ND	5.0	2.5	ND	5.0	2.5	ND	5.0	2.5	ND	5.0	2.5	ND	5.0	2.5	ND	5.0	2.5	ND	5.0	2.5	ND	5.0	2.5	ND	5.0	2.5	ND	5.0	2.5
Bromobenzene	8260B	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0
Bromodichloromethane	8260B	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0
Bromoform	8260B	ND	10	5.0	ND	10	5.0	ND	10	5.0	ND	10	5.0	ND	10	5.0	ND	10	5.0	ND	10	5.0	ND	10	5.0	ND	10	5.0	ND	10	5.0
Bromomethane	8260B	ND	10	4.9	ND	10	4.9	ND	10	4.9	ND	10	4.9	ND	10	4.9	ND	10	4.9	ND	10	4.9	ND	10	4.9	ND	10	4.9	ND	10	4.9
Carbon Disulfide	8260B	ND	50	7.8	ND	50	7.8	ND	50	7.8	ND	50	7.8	ND	50	7.8	ND	50	7.8	ND	50	7.8	ND	50	7.8	ND	50	7.8	ND	50	7.8
Carbon Tetrachloride (Tetrachloromethane)	8260B	ND	5.0	0.72	ND	5.0	0.72	ND	5.0	0.72	ND	5.0	1.1	ND	5.0	1.1	ND	5.0	1.1	ND	5.0	1.1	ND	5.0	1.1	ND	5.0	1.1	ND	5.0	1.1
Chlorinated Fluorocarbon (Freon 113)	8260B	280	5.0	0.91	270	5.0	0.91	230	5.0	0.91	220	5.0	0.91	260	5.0	0.91	370	5.0	0.91	220	5.0	0.91	260	5.0	0.91	280	5.0	0.91	270	5.0	0.91
Chlorobenzene (Monochlorobenzene)	8260B	ND	5.0	1.3	ND	5.0	1.3	ND	5.0	1.3	ND	5.0	1.3	ND	5.0	1.3	ND	5.0	1.3	ND	5.0	1.3	ND	5.0	1.3	ND	5.0	1.3	2.4 DNQ	5.0	1.3
Chlorobromomethane	8260B	ND	10	2.5	ND	10	2.5	ND	10	2.5	ND	10	2.5	ND	10	2.5	ND	10	2.5	ND	10	2.5	ND	10	2.5	ND	10	2.5	ND	10	2.5
Chloroethane	8260B	ND	10	1.2	ND	10	1.2	ND	10	1.2	ND	10	1.7	ND	10	1.7	ND	10	1.7	ND	10	1.7	ND	10	1.7	ND	10	1.7	ND	10	1.7
Chloroform	8260B	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0
Chloromethane	8260B	ND	10	1.9	ND	10	1.9	ND	10	1.9	ND	10	1.9	ND	10	1.9	ND	10	1.9	ND	10	1.9	ND	10	1.9	ND	10	1.9	ND	10	1.9
cis-1,2-Dichloroethylene	8260B	310	5.0	0.71	250	5.0	0.71	140	5.0	0.71	180	5.0	0.76	210	5.0	0.76	200	5.0	0.76	180	5.0	0.76	180	5.0	0.76	160	5.0	0.76	200	5.0	0.76
cis-1,3-Dichloropropene	8260B	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0
Cymene (p-Isopropyltoluene)	8260B	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0
Dibromochloromethane	8260B	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0
Dibromomethane	8260B	ND	5.0	0.67	ND	5.0	0.67	ND	5.0	0.67	ND	5.0	0.67	ND	5.0	0.67	ND	5.0	0.67	ND	5.0	0.67	ND	5.0	0.67	ND	5.0	0.67	ND	5.0	0.67
Dichlorodifluoromethane	8260B	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0	ND	5.0	1.0
Electrical Conductivity (micro mho/cm)	Field Test Kit	1416	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	8260B	ND	5.0	1.3	ND	5.0	1.3	ND	5.0	1.3	ND	5.0	1.3	ND	5.0	1.3	ND	5.0	1.3	ND	5.0	1.3	ND	5.0	1.3	ND	5.0	1.3	ND	5.0	1.3
Ethylene Dibromide (1,2-Dibromoethane)	8260B	ND	5.0	0.75	ND	5.0	0.75	ND	5.0	0.75	ND	5.0	0.75	ND	5.0	0.75	ND	5.0	0.75	ND	5.0	0.75	ND	5.0	0.75	ND	5.0	0.75	ND	5.0	0.75
Hexachlorobutadiene	8260B	ND	10	2.7	ND	10	2.7	ND	10	2.7	ND	10	2.7	ND	10	2.7	ND	10	2.7	ND	10	2.7	ND	10	2.7	ND	10	2.7	ND	10	2.7
Isopropylbenzene	8260B	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0
Methyl Ethyl Ketone (MEK)	8260B	ND	500	84	ND	500	84	ND	500	84	ND	500	84	ND	500	84	ND	500	84	ND	500	84	ND	500	84	ND	500	84	ND	500	84
Methyl Isobutyl Ketone (MIBK)	8260B	ND	500	45	ND	500	45	ND	500	45	ND	500	45	ND	500	45	ND	500	45	ND	500	45	ND	500	45	ND	500	45	ND	500	45
Methyl tert-butyl ether (MTBE)	8260B	ND	5.0	0.69	ND	5.0	0.69	ND	5.0	0.69	ND	5.0	0.69	ND	5.0	0.69	ND	5.0	0.69	ND	5.0	0.69	ND	5.0	0.69	ND	5.0	0.69	ND	5.0	0.69
Methylene Chloride (Dichloromethane)	8260B	ND	50	15	ND	50	15	23 DNQ	50	15	ND	50	15	ND	50	15	ND	50	15	ND	50	15	ND	50	15	ND	50	15	17 DNQ	50	15

Table 2
Summary of Influent (INF-001) Analytical Results
Annual 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Chemical Compound	US EPA Method	15-Jan-13			6-Feb-13			5-Mar-13			16-Apr-13			9-May-13			6-Jun-13			11-Jul-13			7-Aug-13			4-Sep-13			3-Oct-13		
		Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Naphthalene	8260B	ND	10	2.2	ND	10	2.2	ND	10	2.2	3.5 DNQ	10	2.2	ND	10	2.2	ND	10	2.2	ND	10	2.2	ND	10	2.2	ND	10	2.2	ND	10	2.2
n-Butylbenzene	8260B	ND	10	3.0	ND	10	3.0	ND	10	3.0	ND	10	3.0	ND	10	3.0	ND	10	3.0	ND	10	3.0	ND	10	3.0	ND	10	3.0	ND	10	3.0
n-Propylbenzene	8260B	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0
pH	Field Test Kit	7.53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	8260B	ND	5.0	0.75	ND	5.0	0.75	ND	5.0	0.75	ND	5.0	0.75	ND	5.0	0.75	ND	5.0	0.75	ND	5.0	0.75	ND	5.0	0.75	ND	5.0	0.75	ND	5.0	0.75
Temperature (degree centigrade)	Field Test Kit	18.83	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	8260B	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0	ND	10	2.0
Tetrachloroethylene	8260B	8.0	5.0	2.0	9.0	5.0	2.0	15	5.0	2.0	11	5.0	2.0	15	5.0	2.0	20	5.0	2.0	13	5.0	2.0	13	5.0	2.0	16	5.0	2.0	14	5.0	2.0
Toluene	8260B	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7
trans-1,2-Dichloroethylene	8260B	ND	5.0	0.70	ND	5.0	0.70	ND	5.0	0.70	ND	5.0	1.3	ND	5.0	1.3	ND	5.0	1.3	ND	5.0	1.3	ND	5.0	1.3	ND	5.0	1.3	ND	5.0	1.3
trans-1,3-Dichloropropene	8260B	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7	ND	5.0	1.7
Trichloroethylene	8260B	720	5.0	2.0	650	5.0	2.0	580	5.0	2.0	500	5.0	2.0	580	5.0	2.0	680	5.0	2.0	540	5.0	2.0	550	5.0	2.0	560	5.0	2.0	550	5.0	2.0
Trichlorofluoromethane (Freon 11)	8260B	ND	10	0.67	ND	10	0.67	0.98 DNQ	10	0.67	ND	10	0.67	1.1 DNQ	10	0.67	ND	10	0.67	ND	10	0.67	ND	10	0.67	ND	10	0.67	ND	10	0.67
Vinyl Acetate	8260B	ND	100	6.0	ND	100	6.0	ND	100	6.0	ND	100	6.0	ND	100	6.0	ND	100	6.0	ND	100	6.0	ND	100	6.0	ND	100	6.0	ND	100	6.0
Vinyl chloride	8260B	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0	ND	5.0	2.0
Xylenes, Total	8260B	ND	10	4.9	ND	10	4.9	ND	10	4.9	ND	10	4.9	ND	10	4.9	ND	10	4.9	ND	10	4.9	ND	10	4.9	ND	10	4.9	ND	10	4.9

Abbreviations:
US EPA = United States Environmental Protection Agency
DNQ = Detection not quantified. Result is less than the RL but greater than or equal to the MDL and the concentration is estimated.
ND = compound was not detected at or above the laboratory method detection limit shown
µg/L = micrograms per liter
NA = not analyzed
RL = Reporting Level
MDL = Method Detection Limit
Field Test Kit - Myron L Ultra Meter II

Table 3
Summary of Effluent (EFF-001) Analytical Results
Annual 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Chemical Compound	US EPA Method	Trigger (µg/L)	Effluent Limit		Average	Maximum	15-Jan-13			6-Feb-13			5-Mar-13			16-Apr-13			9-May-13		
			AMEL	MDEL	Monthly*	Daily*	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
1,1,1,2-Tetrachloroethane	*8260B*	--	--	--			ND	0.50	0.067	ND	0.50	0.067	ND	0.50	0.067	ND	0.50	0.067	ND	0.50	0.067
1,1,1-Trichloroethane	*8260B*	--	--	5		0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
1,1,2,2-Tetrachloroethane	*8260B*	0.17	--	--			ND	0.50	0.074	ND	0.50	0.074	ND	0.50	0.074	ND	0.50	0.074	ND	0.50	0.074
1,1,2-Trichloroethane	*8260B*	--	--	5		0.11	ND	0.50	0.11	ND	0.50	0.11	ND	0.50	0.11	ND	0.50	0.11	ND	0.50	0.11
1,1-Dichloroethane	*8260B*	--	--	5		0.11	ND	0.50	0.075	ND	0.50	0.075	ND	0.50	0.075	ND	0.50	0.11	ND	0.50	0.11
1,1-Dichloroethylene	*8260B*	--	3.2	5	0.20	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
1,1-Dichloropropene	*8260B*	--	--	--			ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
1,2,3-Trichlorobenzene	*8260B*	--	--	--			ND	1.0	0.21	ND	1.0	0.21	ND	1.0	0.21	ND	1.0	0.21	ND	1.0	0.21
1,2,3-Trichloropropane	*8260B*	--	--	--			ND	0.50	0.087	ND	0.50	0.087	ND	0.50	0.087	ND	0.50	0.087	ND	0.50	0.087
1,2,4-Trichlorobenzene	*8260B*	--	--	--			ND	1.0	0.13	ND	1.0	0.13	ND	1.0	0.13	ND	1.0	0.13	ND	1.0	0.13
1,2,4-Trichlorobenzene	*8270C*	--	--	--			ND	2.0	0.46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	*8260B*	--	--	--			ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
1,2-Dibromo-3-Chloropropane (DBCP)	*8260B*	--	--	--			ND	1.0	0.21	ND	1.0	0.21	ND	1.0	0.21	ND	1.0	0.21	ND	1.0	0.21
1,2-Dichlorobenzene	*8260B*	--	--	--			ND	0.50	0.21	ND	0.50	0.21	ND	0.50	0.21	ND	0.50	0.21	ND	0.50	0.21
1,2-Dichlorobenzene	*8270C*	--	--	--			ND	2.0	0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	*8260B*	--	--	5		0.077	ND	0.50	0.077	ND	0.50	0.077	ND	0.50	0.077	ND	0.50	0.077	ND	0.50	0.077
1,2-Dichloropropane	*8260B*	0.52	--	--			ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
1,3,5-Trimethylbenzene	*8260B*	--	--	--			ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17
1,3-Dichlorobenzene	*8260B*	--	--	--			ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
1,3-Dichlorobenzene	*8270C*	--	--	--			ND	2.0	0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	*8260B*	--	--	--			ND	1.0	0.17	ND	1.0	0.17	ND	1.0	0.17	ND	1.0	0.17	ND	1.0	0.17
1,4-Dichlorobenzene	*8260B*	--	--	--			ND	0.50	0.16	ND	0.50	0.16	ND	0.50	0.16	ND	0.50	0.16	ND	0.50	0.16
1,4-Dichlorobenzene	*8270C*	--	--	--			ND	2.0	0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	*8270C*	--	--	--			ND	1.0	0.61	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	*8260B*	--	--	--			ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17
2,4,5-Trichlorophenol	*8270C*	--	--	--			ND	4.0	0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	*8270C*	2.1	--	--			ND	2.0	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	*8270C*	--	--	--			ND	5.1	0.29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	*8270C*	--	--	--			ND	3.0	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	*8270C*	--	--	--			ND	10	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	*8270C*	0.11	--	--			ND	4.0	0.36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	*8270C*	--	--	--			ND	5.1	0.42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	*8270C*	--	--	--			ND	4.0	0.45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	*8270C*	--	--	--			ND	4.0	0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	*8260B*	--	--	--			ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
2-Hexanone	*8260B*	--	--	--			ND	50	2.7	ND	50	2.7	ND	50	2.7	ND	50	3.0	ND	50	3.0
2-Methylnaphthalene	*8270C*	--	--	--			ND	2.0	0.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	*8270C*	--	--	--			ND	10	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	*8270C*	--	--	--			ND	2.0	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Phenylbutane (sec-Butylbenzene)	*8260B*	--	--	--			ND	1.0	0.17	ND	1.0	0.17	ND	1.0	0.17	ND	1.0	0.17	ND	1.0	0.17
3,3-Dichlorobenzidine	*8270C*	0.04	--	--			ND	5.1	0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	*8270C*	--	--	--			ND	5.1	0.93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-o-cresol	*8270C*	--	--	--			ND	10	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl Phenyl Ether	*8270C*	--	--	--			ND	5.1	0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methyl phenol	*8270C*	--	--	--			ND	5.1	0.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	*8270C*	--	--	--			ND	2.0	0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl Phenyl Ether	*8270C*	--	--	--			ND	5.1	0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	*8260B*	--	--	--			ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
4-Nitroaniline	*8270C*	--	--	--			ND	10	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	*8270C*	--	--	--			ND	10	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	*8270C*	--	--	--			ND	2.0	0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	*8270C*	--	--	--			ND	4.0	0.43	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	*8260B*	--	--	--			ND	50	8.0	ND	50	8.0	ND	50	8.0	ND	50	8.0	ND	50	8.0
Anthracene	*8270C*	--	--	--			ND	2.0	0.29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	*200.8*	6	--	--			0.081 DNQ	0.40	0.080	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	*200.8*	10	--	--			ND	1.0	0.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Azobenzene	*8270C*	--	--	--			ND	2.0	0.30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	*8260B*	--	--	5		0.25	ND	0.50	0.25	ND	0.50	0.25	ND	0.50	0.25	ND	0.50	0.25	ND	0.50	0.25

Table 3
Summary of Effluent (EFF-001) Analytical Results
Annual 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Chemical Compound	US EPA Method	Trigger (µg/L)	Effluent Limit		Average	Maximum	15-Jan-13			6-Feb-13			5-Mar-13			16-Apr-13			9-May-13		
			AMEL	MDEL	Monthly*	Daily*	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Benzo(a)anthracene	*8270C*	0.0044	--	--			ND	5.1	0.66	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	*8270C*	0.0044	--	--			ND	2.0	0.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	*8270C*	0.0044	--	--			ND	2.0	0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	*8270C*	--	--	--			ND	2.0	0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	*8270C*	0.0044	--	--			ND	2.0	0.31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	*8270C*	--	--	--			ND	10	1.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl Alcohol	*8270C*	--	--	--			ND	5.1	0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	*200.8*	4	--	--			ND	0.40	0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	*8270C*	--	--	--			ND	5.1	0.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethyl)ether	*8270C*	0.031	--	--			ND	2.0	0.30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	*8270C*	1.8	--	--			ND	10	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	*8260B*	--	--	--			ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20
Bromodichloromethane	*8260B*	0.56	--	--			ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
Bromoform	*8260B*	4.3	--	--			ND	1.0	0.50	ND	1.0	0.50	ND	1.0	0.50	ND	1.0	0.50	ND	1.0	0.50
Bromomethane	*8260B*	--	--	--			ND	1.0	0.49	ND	1.0	0.49	ND	1.0	0.49	ND	1.0	0.49	ND	1.0	0.49
Butyl Benzyl Phthalate	*8270C*	--	--	--			ND	5.1	0.30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	*200.8*	1.1	--	--			ND	0.40	0.028	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	*8260B*	--	--	--			ND	5.0	0.78	ND	5.0	0.78	ND	5.0	0.78	ND	5.0	0.78	ND	5.0	0.78
Carbon Tetrachloride (Tetrachloromethane)	*8260B*	--	4.4	5	0.11	0.11	ND	0.50	0.072	ND	0.50	0.072	ND	0.50	0.072	ND	0.50	0.11	ND	0.50	0.11
Chlorinated Fluorocarbon (Freon 113)	*8260B*	--	--	5		0.091	ND	0.50	0.091	ND	0.50	0.091	ND	0.50	0.091	ND	0.50	0.091	ND	0.50	0.091
Chlorobenzene (Monochlorobenzene)	*8260B*	--	--	--			ND	0.50	0.13	ND	0.50	0.13	ND	0.50	0.13	ND	0.50	0.13	ND	0.50	0.13
Chlorobromomethane	*8260B*	--	--	--			ND	1.0	0.25	ND	1.0	0.25	ND	1.0	0.25	ND	1.0	0.25	ND	1.0	0.25
Chloroethane	*8260B*	--	--	--			ND	1.0	0.12	ND	1.0	0.12	ND	1.0	0.12	ND	1.0	0.17	ND	1.0	0.17
Chloroform	*8260B*	--	--	5		0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20
Chloromethane	*8260B*	--	--	--			ND	1.0	0.19	ND	1.0	0.19	ND	1.0	0.19	ND	1.0	0.19	ND	1.0	0.19
Chromium (Total)	*200.8*	11	--	--			ND	0.40	0.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (Total)	*6010B*	11	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	*8270C*	0.044	--	--			ND	2.0	0.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethylene	*8260B*	--	--	5		0.076	ND	0.50	0.071	ND	0.50	0.071	ND	0.50	0.071	ND	0.50	0.076	ND	0.50	0.076
cis-1,3-Dichloropropene	*8260B*	--	--	--			ND	0.50	0.10	ND	0.50	0.10	ND	0.50	0.10	ND	0.50	0.10	ND	0.50	0.10
Copper	*200.8*	4.7	--	--			0.93 DNQ	1.0	0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	*6010B*	4.7	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	*4500-CN-E*	2.9	--	--			ND	1.0	0.70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cymene (p-Isopropyltoluene)	*8260B*	--	--	--			ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20
Dibenzo(a,h)anthracene	*8270C*	0.0044	--	--			ND	2.0	0.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	*8270C*	--	--	--			ND	4.0	0.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	*8260B*	0.401	--	--			ND	0.50	0.10	ND	0.50	0.10	ND	0.50	0.10	ND	0.50	0.10	ND	0.50	0.10
Dibromomethane	*8260B*	--	--	--			ND	0.50	0.067	ND	0.50	0.067	ND	0.50	0.067	ND	0.50	0.067	ND	0.50	0.067
Dichlorodifluoromethane	*8260B*	--	--	--			ND	0.50	0.10	ND	0.50	0.10	ND	0.50	0.10	ND	0.50	0.10	ND	0.50	0.10
Diethyl Phthalate	*8270C*	--	--	--			ND	5.1	0.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl Phthalate	*8270C*	--	--	--			ND	5.1	0.47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butyl Phthalate	*8270C*	--	--	--			ND	5.1	0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octyl phthalate	*8270C*	--	--	--			ND	5.1	0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Electrical Conductivity (micro mho/cm)	*NA*	--	--	--			1417	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	*8260B*	--	--	5		0.13	ND	0.50	0.13	ND	0.50	0.13	ND	0.50	0.13	ND	0.50	0.13	ND	0.50	0.13
Ethylene Dibromide (1,2-Dibromoethane)	*8260B*	--	--	5		0.075	ND	0.50	0.075	ND	0.50	0.075	ND	0.50	0.075	ND	0.50	0.075	ND	0.50	0.075
Fish Toxicity, 96-hr % survival	*821-R-02-012*	--	--	--			100%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	*8270C*	--	--	--			ND	2.0	0.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	*8270C*	--	--	--			ND	4.0	0.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	*8270C*	0.00075	--	--			ND	2.0	0.33	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	*8260B*	0.44	--	--			ND	1.0	0.27	ND	1.0	0.27	ND	1.0	0.27	ND	1.0	0.27	ND	1.0	0.27
Hexachlorobutadiene	*8270C*	0.44	--	--			ND	2.0	0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	*8270C*	--	--	--			ND	5.1	0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	*8270C*	1.9	--	--			ND	2.0	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	*8270C*	--	--	--			ND	2.0	0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	*8270C*	--	--	--			ND	4.0	0.61	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	*8260B*	--	--	--			ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
Lead	*200.8*	3.2	--	--			0.057 DNQ	0.40	0.034	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3
Summary of Effluent (EFF-001) Analytical Results
Annual 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Chemical Compound	US EPA Method	Trigger (µg/L)	Effluent Limit		Average	Maximum	15-Jan-13			6-Feb-13			5-Mar-13			16-Apr-13			9-May-13		
			AMEL	MDEL	Monthly*	Daily*	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Lead	*6010B*	3.2	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Low Level)	*1631*	0.025	--	--			0.00028 DNQ	0.0050	0.00012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	*7470A*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Ethyl Ketone (MEK)	*8260B*	--	--	--			ND	50	8.4	ND	50	8.4	ND	50	8.4	ND	50	8.4	ND	50	8.4
Methyl Isobutyl Ketone (MIBK)	*8260B*	--	--	--			ND	50	4.5	ND	50	4.5	ND	50	4.5	ND	50	4.5	ND	50	4.5
Methyl tert-butyl ether (MTBE)	*8260B*	--	--	5		0.069	ND	0.50	0.069	ND	0.50	0.069	ND	0.50	0.069	ND	0.50	0.069	ND	0.50	0.069
Methylene Chloride (Dichloromethane)	*8260B*	--	--	5		1.5	ND	5.0	1.5	ND	5.0	1.5	ND	5.0	1.5	ND	5.0	1.5	ND	5.0	1.5
Naphthalene	*8260B*	--	--	--			ND	1.0	0.22	ND	1.0	0.22	ND	1.0	0.22	ND	1.0	0.22	ND	1.0	0.22
Naphthalene	*8270C*	--	--	--			ND	2.0	0.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	*8260B*	--	--	--			ND	1.0	0.30	ND	1.0	0.30	ND	1.0	0.30	ND	1.0	0.30	ND	1.0	0.30
Nickel	*200.8*	27	--	--			0.99 DNQ	3.0	0.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	*6010B*	27	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	*8270C*	--	--	--			ND	2.0	0.36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-Propylamine	*8270C*	0.005	--	--			ND	2.0	0.41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Nitrosodiphenylamine	*8270C*	--	--	--			ND	2.0	0.36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	*8260B*	--	--	--			ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20
o-Cresol (2-Methylphenol)	*8270C*	--	--	--			ND	4.0	0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Cresol (4-Methylphenol)	*8270C*	--	--	--			ND	8.1	0.66	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	*8270C*	0.28	--	--			ND	10	0.81	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	*Field Test Kit*	--	--	--			7.88	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	*8270C*	--	--	--			ND	2.0	0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	*8270C*	--	--	--			ND	2.0	0.63	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	*8270C*	--	--	--			ND	2.0	0.32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	*200.8*	5	--	--			2.0	1.0	0.71	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	*200.8*	2.2	--	--			ND	0.40	0.030	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	*8260B*	--	--	--			ND	0.50	0.075	ND	0.50	0.075	ND	0.50	0.075	ND	0.50	0.075	ND	0.50	0.075
Temperature (degree centigrade)	*Field Test Kit*	--	--	--			19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	*8260B*	--	--	--			ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20
Tetrachloroethylene	*8260B*	--	--	5		0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
Thallium	*200.8*	1.7	--	--			ND	1.0	0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	*8260B*	--	--	5		0.17	ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17
trans-1,2-Dichloroethylene	*8260B*	--	--	5		0.13	ND	0.50	0.070	ND	0.50	0.070	ND	0.50	0.070	ND	0.50	0.13	ND	0.50	0.13
trans-1,3-Dichloropropene	*8260B*	--	--	--		0.17	ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17
Trichloroethylene	*8260B*	--	--	5		0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
Trichlorofluoromethane (Freon 11)	*8260B*	--	--	--		0.067	ND	1.0	0.067	ND	1.0	0.067	ND	1.0	0.067	ND	1.0	0.067	ND	1.0	0.067
Turbidity (ntu)	*2130B*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate	*8260B*	--	--	--			ND	10	0.60	ND	10	0.60	ND	10	0.60	ND	10	0.60	ND	10	0.60
Vinyl chloride	*8260B*	--	--	1		0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
Xylenes, Total	*8260B*	--	--	5		0.49	ND	1.0	0.49	ND	1.0	0.49	ND	1.0	0.49	ND	1.0	0.49	ND	1.0	0.49
Zinc	*200.8*	86	--	--			1.9	1.40	0.88	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Abbreviations:
B = Compound was found in the blank and sample.
US EPA = United States Environmental Protection Agency
* = RPD of the LCS and LCSD exceeds the control limits.
AMEL = Average Monthly Effluent Limitation
MDEL = Maximum Daily Effluent Limitation
RL = Reporting Level
MDL = Method Detection Limit
ND = compound was not detected at or above the laboratory method detection limit shown
NA = not analyzed
µg/L = micrograms per liter
J = Indicates estimated value.
DNQ = Detected not quantified. Result is less than the RL but greater than or equal to the MDL and the concentration is estimated.
--- = There is not a trigger or effluent limit for this compound specified in Order No. R2-2009-0059
* = Data was calculated based on April 2013 through June 2013 data.
Field Test Kit - Myron L Ultra Meter II

Table 3
Summary of Effluent (EFF-001) Analytical Results
Annual 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Chemical Compound	US EPA Method	Trigger (µg/L)	Effluent Limit		Average	Maximum	6-Jun-13			11-Jul-13			7-Aug-13			4-Sep-13			3-Oct-13		
			AMEL	MDEL	Monthly*	Daily*	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
1,1,1,2-Tetrachloroethane	*8260B*	--	--	--			ND	0.50	0.067	ND	0.50	0.067	ND	0.50	0.067	ND	0.50	0.067	ND	0.50	0.067
1,1,1-Trichloroethane	*8260B*	--	--	5		0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
1,1,2,2-Tetrachloroethane	*8260B*	0.17	--	--			ND	0.50	0.074	ND	0.50	0.074	ND	0.50	0.074	ND	0.50	0.074	ND	0.50	0.074
1,1,2-Trichloroethane	*8260B*	--	--	5		0.11	ND	0.50	0.11	ND	0.50	0.11	ND	0.50	0.11	ND	0.50	0.11	ND	0.50	0.11
1,1-Dichloroethane	*8260B*	--	--	5		0.11	ND	0.50	0.11	ND	0.50	0.11	ND	0.50	0.11	ND	0.50	0.11	ND	0.50	0.11
1,1-Dichloroethylene	*8260B*	--	3.2	5	0.20	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
1,1-Dichloropropene	*8260B*	--	--	--			ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
1,2,3-Trichlorobenzene	*8260B*	--	--	--			ND	1.0	0.21	ND	1.0	0.21	ND	1.0	0.21	ND	1.0	0.21	ND	1.0	0.21
1,2,3-Trichloropropane	*8260B*	--	--	--			ND	0.50	0.087	ND	0.50	0.087	ND	0.50	0.087	ND	0.50	0.087	ND	0.50	0.087
1,2,4-Trichlorobenzene	*8260B*	--	--	--			ND	1.0	0.13	ND	1.0	0.13	ND	1.0	0.13	ND	1.0	0.13	ND	1.0	0.13
1,2,4-Trichlorobenzene	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	*8260B*	--	--	--			ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
1,2-Dibromo-3-Chloropropane (DBCP)	*8260B*	--	--	--			ND	1.0	0.21	ND	1.0	0.21	ND	1.0	0.21	ND	1.0	0.21	ND	1.0	0.21
1,2-Dichlorobenzene	*8260B*	--	--	--			ND	0.50	0.21	ND	0.50	0.21	ND	0.50	0.21	ND	0.50	0.21	ND	0.50	0.21
1,2-Dichlorobenzene	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	*8260B*	--	--	5		0.077	ND	0.50	0.077	ND	0.50	0.077	ND	0.50	0.077	ND	0.50	0.077	ND	0.50	0.077
1,2-Dichloropropane	*8260B*	0.52	--	--			ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
1,3,5-Trimethylbenzene	*8260B*	--	--	--			ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17
1,3-Dichlorobenzene	*8260B*	--	--	--			ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
1,3-Dichlorobenzene	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	*8260B*	--	--	--			ND	1.0	0.17	ND	1.0	0.17	ND	1.0	0.17	ND	1.0	0.17	ND	1.0	0.17
1,4-Dichlorobenzene	*8260B*	--	--	--			ND	0.50	0.16	ND	0.50	0.16	ND	0.50	0.16	ND	0.50	0.16	ND	0.50	0.16
1,4-Dichlorobenzene	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	*8270C*	--	--	--			NA	NA	NA	ND	1.1	0.32	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	*8260B*	--	--	--			ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17
2,4,5-Trichlorophenol	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	*8270C*	2.1	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	*8270C*	0.11	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	*8260B*	--	--	--			ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
2-Hexanone	*8260B*	--	--	--			ND	50	3.0	ND	50	3.0	ND	50	3.0	ND	50	3.0	ND	50	3.0
2-Methylnaphthalene	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Phenylbutane (sec-Butylbenzene)	*8260B*	--	--	--			ND	1.0	0.17	ND	1.0	0.17	ND	1.0	0.17	ND	1.0	0.17	ND	1.0	0.17
3,3-Dichlorobenzidine	*8270C*	0.04	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-o-cresol	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl Phenyl Ether	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methyl phenol	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl Phenyl Ether	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	*8260B*	--	--	--			ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
4-Nitroaniline	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	*8260B*	--	--	--			ND	50	8.0	ND	50	8.0	ND	50	8.0	ND	50	8.0	12 DNQ	50	8.0
Anthracene	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	*200.8*	6	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	*200.8*	10	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Azobenzene	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	*8260B*	--	--	5		0.25	ND	0.50	0.25	ND	0.50	0.25	ND	0.50	0.25	ND	0.50	0.25	ND	0.50	0.25

Table 3
Summary of Effluent (EFF-001) Analytical Results
Annual 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Chemical Compound	US EPA Method	Trigger (µg/L)	Effluent Limit		Average	Maximum	6-Jun-13			11-Jul-13			7-Aug-13			4-Sep-13			3-Oct-13		
			AMEL	MDEL	Monthly*	Daily*	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Benzo(a)anthracene	*8270C*	0.0044	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	*8270C*	0.0044	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	*8270C*	0.0044	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	*8270C*	0.0044	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl Alcohol	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	*200.8*	4	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethyl)ether	*8270C*	0.031	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	*8270C*	1.8	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	*8260B*	--	--	--			ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20
Bromodichloromethane	*8260B*	0.56	--	--			ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
Bromoform	*8260B*	4.3	--	--			ND	1.0	0.50	ND	1.0	0.50	ND	1.0	0.50	ND	1.0	0.50	ND	1.0	0.50
Bromomethane	*8260B*	--	--	--			ND	1.0	0.49	ND	1.0	0.49	ND	1.0	0.49	ND	1.0	0.49	ND	1.0	0.49
Butyl Benzyl Phthalate	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	*200.8*	1.1	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	*8260B*	--	--	--			ND	5.0	0.78	ND	5.0	0.78	ND	5.0	0.78	ND	5.0	0.78	ND	5.0	0.78
Carbon Tetrachloride (Tetrachloromethane)	*8260B*	--	4.4	5	0.11	0.11	ND	0.50	0.11	ND	0.50	0.11	ND	0.50	0.11	ND	0.50	0.11	ND	0.50	0.11
Chlorinated Fluorocarbon (Freon 113)	*8260B*	--	--	5		0.091	ND	0.50	0.091	ND	0.50	0.091	ND	0.50	0.091	ND	0.50	0.091	ND	0.50	0.091
Chlorobenzene (Monochlorobenzene)	*8260B*	--	--	--			ND	0.50	0.13	ND	0.50	0.13	ND	0.50	0.13	ND	0.50	0.13	ND	0.50	0.13
Chlorobromomethane	*8260B*	--	--	--			ND	1.0	0.25	ND	1.0	0.25	ND	1.0	0.25	ND	1.0	0.25	ND	1.0	0.25
Chloroethane	*8260B*	--	--	--			ND	1.0	0.17	ND	1.0	0.17	ND	1.0	0.17	ND	1.0	0.17	ND	1.0	0.17
Chloroform	*8260B*	--	--	5		0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20
Chloromethane	*8260B*	--	--	--			ND	1.0	0.19	ND	1.0	0.19	ND	1.0	0.19	ND	1.0	0.19	ND	1.0	0.19
Chromium (Total)	*200.8*	11	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (Total)	*6010B*	11	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	*8270C*	0.044	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethylene	*8260B*	--	--	5		0.076	ND	0.50	0.076	ND	0.50	0.076	ND	0.50	0.076	ND	0.50	0.076	ND	0.50	0.076
cis-1,3-Dichloropropene	*8260B*	--	--	--			ND	0.50	0.10	ND	0.50	0.10	ND	0.50	0.10	ND	0.50	0.10	ND	0.50	0.10
Copper	*200.8*	4.7	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	*6010B*	4.7	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide	*4500-CN-E*	2.9	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cymene (p-Isopropyltoluene)	*8260B*	--	--	--			ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20
Dibenzo(a,h)anthracene	*8270C*	0.0044	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	*8260B*	0.401	--	--			ND	0.50	0.10	ND	0.50	0.10	ND	0.50	0.10	ND	0.50	0.10	ND	0.50	0.10
Dibromomethane	*8260B*	--	--	--			ND	0.50	0.067	ND	0.50	0.067	ND	0.50	0.067	ND	0.50	0.067	ND	0.50	0.067
Dichlorodifluoromethane	*8260B*	--	--	--			ND	0.50	0.10	ND	0.50	0.10	ND	0.50	0.10	ND	0.50	0.10	ND	0.50	0.10
Diethyl Phthalate	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl Phthalate	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butyl Phthalate	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octyl phthalate	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Electrical Conductivity (micro mho/cm)	*NA*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	*8260B*	--	--	5		0.13	ND	0.50	0.13	ND	0.50	0.13	ND	0.50	0.13	ND	0.50	0.13	ND	0.50	0.13
Ethylene Dibromide (1,2-Dibromoethane)	*8260B*	--	--	5		0.075	ND	0.50	0.075	ND	0.50	0.075	ND	0.50	0.075	ND	0.50	0.075	ND	0.50	0.075
Fish Toxicity, 96-hr % survival	*821-R-02-012*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	*8270C*	0.00075	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	*8260B*	0.44	--	--			ND	1.0	0.27	ND	1.0	0.27	ND	1.0	0.27	ND	1.0	0.27	ND	1.0	0.27
Hexachlorobutadiene	*8270C*	0.44	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	*8270C*	1.9	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	*8260B*	--	--	--			ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
Lead	*200.8*	3.2	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 3
Summary of Effluent (EFF-001) Analytical Results
Annual 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Chemical Compound	US EPA Method	Trigger (µg/L)	Effluent Limit		Average	Maximum	6-Jun-13			11-Jul-13			7-Aug-13			4-Sep-13			3-Oct-13		
			AMEL	MDEL	Monthly*	Daily*	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL	Results	RL	MDL
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Lead	*6010B*	3.2	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Low Level)	*1631*	0.025	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	*7470A*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Ethyl Ketone (MEK)	*8260B*	--	--	--			ND	50	8.4	ND	50	8.4	ND	50	8.4	ND	50	8.4	ND	50	8.4
Methyl Isobutyl Ketone (MIBK)	*8260B*	--	--	--			ND	50	4.5	ND	50	4.5	ND	50	4.5	ND	50	4.5	ND	50	4.5
Methyl tert-butyl ether (MTBE)	*8260B*	--	--	5		0.069	ND	0.50	0.069	ND	0.50	0.069	ND	0.50	0.069	ND	0.50	0.069	ND	0.50	0.069
Methylene Chloride (Dichloromethane)	*8260B*	--	--	5		1.5	ND	5.0	1.5	ND	5.0	1.5	ND	5.0	1.5	ND	5.0	1.5	ND	5.0	1.5
Naphthalene	*8260B*	--	--	--			ND	1.0	0.22	ND	1.0	0.22	ND	1.0	0.22	ND	1.0	0.22	ND	1.0	0.22
Naphthalene	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	*8260B*	--	--	--			ND	1.0	0.30	ND	1.0	0.30	ND	1.0	0.30	ND	1.0	0.30	ND	1.0	0.30
Nickel	*200.8*	27	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	*6010B*	27	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-Propylamine	*8270C*	0.005	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Nitrosodiphenylamine	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	*8260B*	--	--	--			ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20
o-Cresol (2-Methylphenol)	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Cresol (4-Methylphenol)	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	*8270C*	0.28	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	*Field Test Kit*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	*8270C*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	*200.8*	5	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	*200.8*	2.2	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	*8260B*	--	--	--			ND	0.50	0.075	ND	0.50	0.075	ND	0.50	0.075	ND	0.50	0.075	ND	0.50	0.075
Temperature (degree centigrade)	*Field Test Kit*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	*8260B*	--	--	--			ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20	ND	1.0	0.20
Tetrachloroethylene	*8260B*	--	--	5		0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
Thallium	*200.8*	1.7	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	*8260B*	--	--	5		0.17	ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17
trans-1,2-Dichloroethylene	*8260B*	--	--	5		0.13	ND	0.50	0.13	ND	0.50	0.13	ND	0.50	0.13	ND	0.50	0.13	ND	0.50	0.13
trans-1,3-Dichloropropene	*8260B*	--	--	--		0.17	ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17	ND	0.50	0.17
Trichloroethylene	*8260B*	--	--	5		0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
Trichlorofluoromethane (Freon 11)	*8260B*	--	--	--		0.067	ND	1.0	0.067	ND	1.0	0.067	ND	1.0	0.067	ND	1.0	0.067	ND	1.0	0.067
Turbidity (ntu)	*2130B*	--	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate	*8260B*	--	--	--			ND	10	0.60	ND	10	0.60	ND	10	0.60	ND	10	0.60	ND	10	0.60
Vinyl chloride	*8260B*	--	--	1		0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20	ND	0.50	0.20
Xylenes, Total	*8260B*	--	--	5		0.49	ND	1.0	0.49	ND	1.0	0.49	ND	1.0	0.49	ND	1.0	0.49	ND	1.0	0.49
Zinc	*200.8*	86	--	--			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Abbreviations:
B = Compound was found in the blank and sample.
US EPA = United States Environmental Protection Agency
* = RPD of the LCS and LCSD exceeds the control limits.
AMEL = Average Monthly Effluent Limitation
MDEL = Maximum Daily Effluent Limitation
RL = Reporting Level
MDL = Method Detection Limit
ND = compound was not detected at or above the laboratory method detection limit shown
NA = not analyzed
µg/L = micrograms per liter
J = Indicates estimated value.
DNQ = Detected not quantified. Result is less than the RL but greater than or equal to the MDL and the concentration is estimated.
--- = There is not a trigger or effluent limit for this compound specified in Order No. R2-2009-0059
* = Data was calculated based on April 2013 through June 2013 data.
Field Test Kit - Myron L Ultra Meter II

Table 4A
Summary of Quality Control Activities
January 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Sampling Date:	1/15/2013
Analyte/Analytical Suite and Method:	VOCs / US EPA Method 8260B
QA/QC Activities	**QA/QC Results**
Trip Blank	Analytes within acceptable limits
MS	Analytes within acceptable limits
MSD	Analytes within acceptable limits
RPD MS/MSD	Analytes within acceptable limits
LCS	Analytes within acceptable limits
LCSD	Analytes within acceptable limits
RPD LCS/LCSD	Analytes within acceptable limits
Method Blank	Methylene Chloride was detected at DNQ level in batch# 128839 and 128927.
Analyzed within holding time	Yes
Acceptable temperature upon delivery	Yes
Laboratory Login Sample Receipt Issues	None
Notes	None

Sampling Date:	1/15/2013
Analyte/Analytical Suite and Method:	SVOCs / US EPA Method 8270C
QA/QC Activities	**QA/QC Results**
MS	Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 79548. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.
MSD	
RPD MS/MSD	Analytes within acceptable limits
LCS	Analytes within acceptable limits
LCSD	Analytes within acceptable limits
RPD LCS/LCSD	Analytes within acceptable limits
Method Blank	Analytes within acceptable limits
Analyzed within holding time	Yes
Acceptable temperature upon delivery	Yes
Laboratory Login Sample Receipt Issues	None
Notes	None

Sampling Date:	1/15/2013
Analyte/Analytical Suite and Method:	Metals / US EPA Method 200.8
QA/QC Activities	**QA/QC Results**
MS	The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 128491 were outside control limits for Selenium. The associated laboratory control sample (LCS) recovery met acceptance criteria.
MSD	
RPD MS/MSD	Analytes within acceptable limits
LCS	Analytes within acceptable limits
LCSD	Analytes within acceptable limits
RPD LCS/LCSD	Analytes within acceptable limits
Method Blank	Analytes within acceptable limits
Analyzed within holding time	Yes
Acceptable temperature upon delivery	Yes
Laboratory Login Sample Receipt Issues	None

Sampling Date:	1/15/2013
Analyte/Analytical Suite and Method:	Turbidity / US EPA Method 2130B
QA/QC Activities	**QA/QC Results**
MS	Analytes within acceptable limits
MSD	Analytes within acceptable limits
RPD MS/MSD	Analytes within acceptable limits
LCS	Analytes within acceptable limits
LCSD	Analytes within acceptable limits
RPD LCS/LCSD	Analytes within acceptable limits
Method Blank	Analytes within acceptable limits
Analyzed within holding time	Yes
Acceptable temperature upon delivery	Yes
Laboratory Login Sample Receipt Issues	None

Table 4A
Summary of Quality Control Activities
January 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Sampling Date:	1/15/2013
Analyte/Analytical Suite and Method:	Cyanide / US EPA Method SM20-4500-CN C&E, Low Level
QA/QC Activities	**QA/QC Results**
MS	Analytes within acceptable limits
MSD	Analytes within acceptable limits
RPD MS/MSD	Analytes within acceptable limits
LCS	Analytes within acceptable limits
LCSD	Analytes within acceptable limits
RPD LCS/LCSD	Analytes within acceptable limits
Method Blank	Analytes within acceptable limits
Analyzed within holding time	Yes
Acceptable temperature upon delivery	Yes
Laboratory Login Sample Receipt Issues	None

Abbreviations:

MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Spike
LCSD = Laboratory Control Spike Duplicate
RPD = Relative Percent Difference
DNQ = Detected Not Quantified
QA/QC = Quality Assurance/Quality Control
VOCs = Volatile Organic Compounds
SVOCs = Semi-Volatile Organic Compounds
US EPA = United States Environmental Protection Agency

Table 4B
Summary of Quality Control Activities
February 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Sampling Date:	2/6/2013
Analyte/Analytical Suite and Method:	VOCs / US EPA Method 8260B
QA/QC Activities	**QA/QC Results**
Trip Blank	Analytes within acceptable limits
MS	Analytes within acceptable limits
MSD	Analytes within acceptable limits
RPD MS/MSD	Analytes within acceptable limits
LCS	Analytes within acceptable limits
LCSD	Analytes within acceptable limits
RPD LCS/LCSD	Analytes within acceptable limits
Method Blank	Analytes within acceptable limits
Analyzed within holding time	Yes
Acceptable temperature upon delivery	Yes
Laboratory Login Sample Receipt Issues	None

Abbreviations:
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Spike
LCSD = Laboratory Control Spike Duplicate
RPD = Relative Percent Difference
DNQ = Detected Not Quantified
QA/QC = Quality Assurance/Quality Control
VOCs = Volatile Organic Compounds
US EPA = United States Environmental Protection Agency

Table 4C
Summary of Quality Control Activities
March 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Sampling Date:	3/5/2013
Analyte/Analytical Suite and Method:	VOCs / US EPA Method 8260B
QA/QC Activities	**QA/QC Results**
Trip Blank	Analytes within acceptable limits
MS	The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 131942 were outside control limits. This is attributed to: non-homogeneity of the sample matrix. The matrix spike (MS) recoveries for batch #131944 were outside control limits due to matrix. The associated laboratory control sample (LCS) recovery met acceptance criteria.
MSD	
RPD MS/MSD	Analytes within acceptable limits
LCS	Analytes within acceptable limits
LCSD	Analytes within acceptable limits
RPD LCS/LCSD	Analytes within acceptable limits
Method Blank	Analytes within acceptable limits
Analyzed within holding time	Yes
Acceptable temperature upon delivery	Yes
Laboratory Login Sample Receipt Issues	None

Abbreviations:
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Spike
LCSD = Laboratory Control Spike Duplicate
RPD = Relative Percent Difference
DNQ = Detected Not Quantified
QA/QC = Quality Assurance/Quality Control
VOCs = Volatile Organic Compounds
US EPA = United States Environmental Protection Agency

Table 4D
Summary of Quality Control Activities
April 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Sampling Date:	4/16/2013
Analyte/Analytical Suite and Method:	VOCs / US EPA Method 8260B
QA/QC Activities	**QA/QC Results**
Trip Blank	Analytes within acceptable limits
MS	Analytes within acceptable limits
MSD	Analytes within acceptable limits
RPD MS/MSD	Analytes within acceptable limits
LCS	Analytes within acceptable limits
LCSD	Analytes within acceptable limits
RPD LCS/LCSD	Analytes within acceptable limits
Method Blank	Methylene Chloride was detected at DNQ level in batch# 134694.
Analyzed within holding time	Yes
Acceptable temperature upon delivery	Yes
Laboratory Login Sample Receipt Issues	None
Notes	None

Abbreviations:
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Spike
LCSD = Laboratory Control Spike Duplicate
RPD = Relative Percent Difference
DNQ = Detected Not Quantified
QA/QC = Quality Assurance/Quality Control
VOCs = Volatile Organic Compounds
US EPA = United States Environmental Protection Agency

Table 4E
Summary of Quality Control Activities
May 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Sampling Date:	5/9/2013
Analyte/Analytical Suite and Method:	VOCs / US EPA Method 8260B
QA/QC Activities	**QA/QC Results**
Trip Blank	Analytes within acceptable limits
MS	Analytes within acceptable limits
MSD	Analytes within acceptable limits
RPD MS/MSD	Analytes within acceptable limits
LCS	Analytes within acceptable limits
LCSD	Analytes within acceptable limits
RPD LCS/LCSD	Analytes within acceptable limits
Method Blank	Analytes within acceptable limits
Analyzed within holding time	Yes
Acceptable temperature upon delivery	Yes
Laboratory Login Sample Receipt Issues	None
Notes	None

Abbreviations:
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Spike
LCSD = Laboratory Control Spike Duplicate
RPD = Relative Percent Difference
DNQ = Detected Not Quantified
QA/QC = Quality Assurance/Quality Control
VOCs = Volatile Organic Compounds
US EPA = United States Environmental Protection Agency

Table 4F
Summary of Quality Control Activities
June 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Sampling Date:	6/6/2013
Analyte/Analytical Suite and Method:	VOCs / US EPA Method 8260B
QA/QC Activities	**QA/QC Results**
Trip Blank	Analytes within acceptable limits
MS	Analytes within acceptable limits
MSD	Analytes within acceptable limits
RPD MS/MSD	Analytes within acceptable limits
LCS	Analytes within acceptable limits
LCSD	Analytes within acceptable limits
RPD LCS/LCSD	Analytes within acceptable limits, LCSD had 1,2-DCA surrogate recovery outside the laboratory control limits. The analytes in LCS/LCSD pass the control limits established by the laboratory. All analyzed samples had surrogate recoveries within control limits and data will be reported as is.
Method Blank	Analytes within acceptable limits
Analyzed within holding time	Yes
Acceptable temperature upon delivery	Yes
Laboratory Login Sample Receipt Issues	None
Notes	None

Abbreviations:
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Spike
LCSD = Laboratory Control Spike Duplicate
RPD = Relative Percent Difference
DNQ = Detected Not Quantified
QA/QC = Quality Assurance/Quality Control
VOCs = Volatile Organic Compounds
US EPA = United States Environmental Protection Agency

Table 4G
Summary of Quality Control Activities
July 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Sampling Date:	7/11/2013
Analyte/Analytical Suite and Method:	VOCs / US EPA Method 8260B
QA/QC Activities	**QA/QC Results**
Trip Blank	Analytes within acceptable limits
MS	MS or MSD exceeds the control limits. The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
MSD	
RPD MS/MSD	Analytes within acceptable limits
LCS	Analytes within acceptable limits
LCSD	Analytes within acceptable limits
RPD LCS/LCSD	Analytes within acceptable limits
Method Blank	Analytes within acceptable limits
Analyzed within holding time	Yes
Acceptable temperature upon delivery	Yes
Laboratory Login Sample Receipt Issues	None
Notes	None

Sampling Date:	7/11/2013
Analyte/Analytical Suite and Method:	SVOCs / US EPA Method 8270C
QA/QC Activities	**QA/QC Results**
LCS	Analytes within acceptable limits
Method Blank	Analytes within acceptable limits
Analyzed within holding time	Yes
Acceptable temperature upon delivery	Yes
Laboratory Login Sample Receipt Issues	None
Notes	None

Abbreviations:
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Spike
LCSD = Laboratory Control Spike Duplicate
RPD = Relative Percent Difference
QA/QC = Quality Assurance/Quality Control
SVOCs = Semi-volatile organic compounds
VOCs = Volatile Organic Compounds
US EPA = United States Environmental Protection Agency

Table 4H
Summary of Quality Control Activities
August 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Sampling Date:	8/7/2013
Analyte/Analytical Suite and Method:	VOCs / US EPA Method 8260B
QA/QC Activities	**QA/QC Results**
Trip Blank	Analytes within acceptable limits
MS	Analytes within acceptable limits
MSD	Analytes within acceptable limits
RPD MS/MSD	Analytes within acceptable limits
LCS	Analytes within acceptable limits
LCSD	Analytes within acceptable limits
RPD LCS/LCSD	Analytes within acceptable limits
Method Blank	Analytes within acceptable limits
Analyzed within holding time	Yes
Acceptable temperature upon delivery	Yes
Laboratory Login Sample Receipt Issues	None
Notes	None

Abbreviations:
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Spike
LCSD = Laboratory Control Spike Duplicate
RPD = Relative Percent Difference
QA/QC = Quality Assurance/Quality Control
VOCs = Volatile Organic Compounds
US EPA = United States Environmental Protection Agency

Table 4l
Summary of Quality Control Activities
September 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Sampling Date:	9/4/2013
Analyte/Analytical Suite and Method:	VOCs / US EPA Method 8260B
QA/QC Activities	**QA/QC Results**
Trip Blank	Analytes within acceptable limits
MS	Analytes within acceptable limits
MSD	Analytes within acceptable limits
RPD MS/MSD	Analytes within acceptable limits
LCS	Analytes within acceptable limits
LCSD	Analytes within acceptable limits
RPD LCS/LCSD	Analytes within acceptable limits
Method Blank	Analytes within acceptable limits
Analyzed within holding time	Yes
Acceptable temperature upon delivery	Yes
Laboratory Login Sample Receipt Issues	None
Notes	None

Abbreviations:
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Spike
LCSD = Laboratory Control Spike Duplicate
RPD = Relative Percent Difference
QA/QC = Quality Assurance/Quality Control
VOCs = Volatile Organic Compounds
US EPA = United States Environmental Protection Agency

Table 4J
Summary of Quality Control Activities
October 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Sampling Date:	10/3/2013
Analyte/Analytical Suite and Method:	VOCs / US EPA Method 8260B
QA/QC Activities	**QA/QC Results**
Trip Blank	Analytes within acceptable limits
MS	Analytes within acceptable limits
MSD	Analytes within acceptable limits
RPD MS/MSD	Analytes within acceptable limits
LCS	Analytes within acceptable limits
LCSD	Analytes within acceptable limits
RPD LCS/LCSD	Analytes within acceptable limits
Method Blank	Acetone and Carbon disulfide were detected at DNQ level in batch# 145907.
Analyzed within holding time	Yes
Acceptable temperature upon delivery	Yes
Laboratory Login Sample Receipt Issues	None
Notes	None

Abbreviations:
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Spike
LCSD = Laboratory Control Spike Duplicate
RPD = Relative Percent Difference
QA/QC = Quality Assurance/Quality Control
VOCs = Volatile Organic Compounds
US EPA = United States Environmental Protection Agency

Table 5
Flow Data and VOC Mass Removal Data
Annual 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Date	Storm Drain Flow Totalizer Reading (gallons)	Treated Flow Volume Discharged to Storm Drain (gallons per period) (1)	Reuse Flow Totalizer Reading (gallons) (2)	Treated Flow Volume Diverted for Reuse (gallons per period)	Total System Treated Flow Voume (gallons per period) (3)	Calculated Weekly System Flow Volume (gallons per week) (4)	Total VOC Concentration (µg/L) (5)	Estimated VOC Mass Removal Rate (kilograms per period) (6)
28-Dec-12	158,083,200	4,800	16,773,797	0	4,800	33,600	NM	0.03
5-Jan-13	158,124,890	41,690	16,773,797	0	41,690	36,479	NM	0.24
11-Jan-13	158,333,580	208,690	16,773,797	0	208,690	243,472	NM	1.18
15-Jan-13	158,536,160	202,580	16,773,797	0	202,580	354,515	2,039	1.34
19-Jan-13	158,729,300	193,140	16,773,797	0	193,140	337,995	NM	1.28
25-Jan-13	159,022,920	293,620	16,773,797	0	293,620	342,557	NM	1.94
29-Jan-13	159,178,330	155,410	16,773,797	0	155,410	271,968	NM	1.03
2-Feb-13	159,370,710	192,380	16,773,797	0	192,380	336,665	NM	1.27
6-Feb-13	159,579,950	209,240	16,773,797	0	209,240	366,170	1,784	1.52
8-Feb-13	159,664,000	84,050	16,773,797	0	84,050	294,175	NM	0.61
16-Feb-13	160,056,220	392,220	16,773,797	0	392,220	343,193	NM	2.84
22-Feb-13	160,532,900	476,680	16,773,797	0	476,680	556,127	NM	3.45
26-Feb-13	160,841,750	308,850	16,773,797	0	308,850	540,488	NM	2.24
2-Mar-13	161,134,620	292,870	16,773,797	0	292,870	512,523	NM	2.12
5-Mar-13	161,374,660	240,040	16,773,797	0	240,040	560,093	1,050	1.29
9-Mar-13	161,678,430	303,770	16,773,797	0	303,770	531,598	NM	1.63
15-Mar-13	162,129,140	450,710	16,773,797	0	450,710	525,828	NM	2.42
23-Mar-13	162,748,400	619,260	16,773,797	0	619,260	541,853	NM	3.32
26-Mar-13	162,975,650	227,250	16,773,797	0	227,250	530,250	NM	1.22
30-Mar-13	163,260,800	285,150	16,773,797	0	285,150	499,013	NM	1.53
6-Apr-13	163,429,000	168,200	16,773,797	0	168,200	168,200	NM	0.90
11-Apr-13	163,429,010	10	16,773,797	0	10	14	NM	0.00
13-Apr-13	163,429,120	110	16,773,797	0	110	385	NM	0.00
16-Apr-13	163,480,220	51,100	16,773,797	0	51,100	119,233	1,303	0.23
20-Apr-13	163,481,900	1,680	16,773,797	0	1,680	2,940	NM	0.01
27-Apr-13	163,795,250	313,350	16,773,797	0	313,350	313,350	NM	1.40
30-Apr-13	164,035,750	240,500	16,773,797	0	240,500	561,167	NM	1.07
4-May-13	164,339,960	304,210	16,773,797	0	304,210	532,368	NM	1.36
9-May-13	164,736,810	396,850	16,773,797	0	396,850	555,590	1,484	2.09
11-May-13	164,881,230	144,420	16,773,797	0	144,420	505,470	NM	0.76
18-May-13	165,444,130	562,900	16,773,797	0	562,900	562,900	NM	2.97
25-May-13	165,991,000	546,870	16,773,797	0	546,870	546,870	NM	2.89
28-May-13	166,218,900	227,900	16,773,797	0	227,900	531,767	NM	1.20
30-May-13	166,293,400	74,500	16,773,797	0	74,500	260,750	NM	0.39
6-Jun-13	166,845,720	552,320	16,773,797	0	552,320	552,320	1,722	3.35
8-Jun-13	166,992,490	146,770	16,773,797	0	146,770	513,695	NM	0.89
15-Jun-13	167,539,000	546,510	16,773,797	0	546,510	546,510	NM	3.32
18-Jun-13	167,798,350	259,350	16,773,797	0	259,350	605,150	NM	1.57
21-Jun-13	167,958,060	159,710	16,773,797	0	159,710	372,657	NM	0.97
22-Jun-13	167,958,100	40	16,773,797	0	40	280	NM	0.00
28-Jun-13	168,218,750	260,650	16,773,797	0	260,650	304,092	NM	1.58
5-Jul-13	168,760,360	541,610	16,773,797	0	541,610	541,610	NM	3.29
11-Jul-13	168,843,330	82,970	16,773,797	0	82,970	96,798	1,357	0.48
13-Jul-13	169,002,040	158,710	16,773,797	0	158,710	555,485	NM	0.93
20-Jul-13	169,529,600	527,560	16,773,797	0	527,560	527,560	NM	3.08
23-Jul-13	169,529,600	0	16,773,797	0	0	0	NM	0.00
3-Aug-13	170,381,570	851,970	16,773,797	0	851,970	542,163	NM	4.97
7-Aug-13	170,507,900	126,330	16,773,797	0	126,330	221,078	1,416	0.66
10-Aug-13	170,736,480	228,580	16,773,797	0	228,580	533,353	NM	1.20
14-Aug-13	171,062,310	325,830	16,773,797	0	325,830	570,203	NM	1.71
24-Aug-13	171,819,860	757,550	16,773,797	0	757,550	530,285	NM	3.98
31-Aug-13	172,174,630	354,770	16,773,797	0	354,770	354,770	NM	1.86
4-Sep-13	172,486,050	311,420	16,773,797	0	311,420	544,985	1,394	1.66
5-Sep-13	172,553,700	67,650	16,773,797	0	67,650	473,550	NM	0.36
14-Sep-13	173,227,470	673,770	16,773,797	0	673,770	524,043	NM	3.59
21-Sep-13	173,723,140	495,670	16,773,797	0	495,670	495,670	NM	2.64
28-Sep-13	173,944,660	221,520	16,773,797	0	221,520	221,520	NM	1.18
4-Oct-13	174,098,060	153,400	16,773,797	0	153,400	178,967	1,558	0.86
12-Oct-13	174,696,840	598,780	16,773,797	0	598,780	523,933	NM	3.35
18-Oct-13	174,838,960	142,120	16,773,797	0	142,120	165,807	NM	0.79
26-Oct-13	174,840,440	1,480	16,773,797	0	1,480	1,295	NM	0.01
31-Oct-13	174,840,440	0	16,773,797	0	0	0	NM	0.00

Table 5
Flow Data and VOC Mass Removal Data
Annual 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Monthly system flow volume treated:		
October:	895,780	gallons
November:	0	gallons
December:	0	gallons
Fourth Quarter 2013 Totals		
Total Quarterly System Flow Volume:	895,780	gallons
Total Treated Flow Volume Discharged to Storm Drain:	895,780	gallons
Total Treated Flow Volume Diverted for Reuse:	0	gallons
Percent of Treated Water Reused this Quarter:	0.00%	
Average System Flow Rate (7):	18.9	gallons per minute
Average System Flow Rate (7):	27,144.8	gallons per day
Estimated VOC Mass Removal for the System (8):	5.0	kilograms
2013 Annual Totals:		
Total System Flow Volume:	16,757,240	gallons
Total Treated Flow Volume Discharged to Storm Drain:	16,757,240	gallons
Total Treated Flow Volume Diverted for Reuse:	0	gallons
Approximate percent of treated water reused this year:	0.00%	
Average system flow rate (9):	37.9	gallons per minute
Average system flow rate (9):	54,584	gallons per day
Percent of Treated Water Reused this Year:	0%	
Average System Flow Rate (9):	38	gallons per minute
Average System Flow Rate (9):	54,584	gallons per day
Estimated VOC Mass Removal for the System (10):	96.0	kilograms

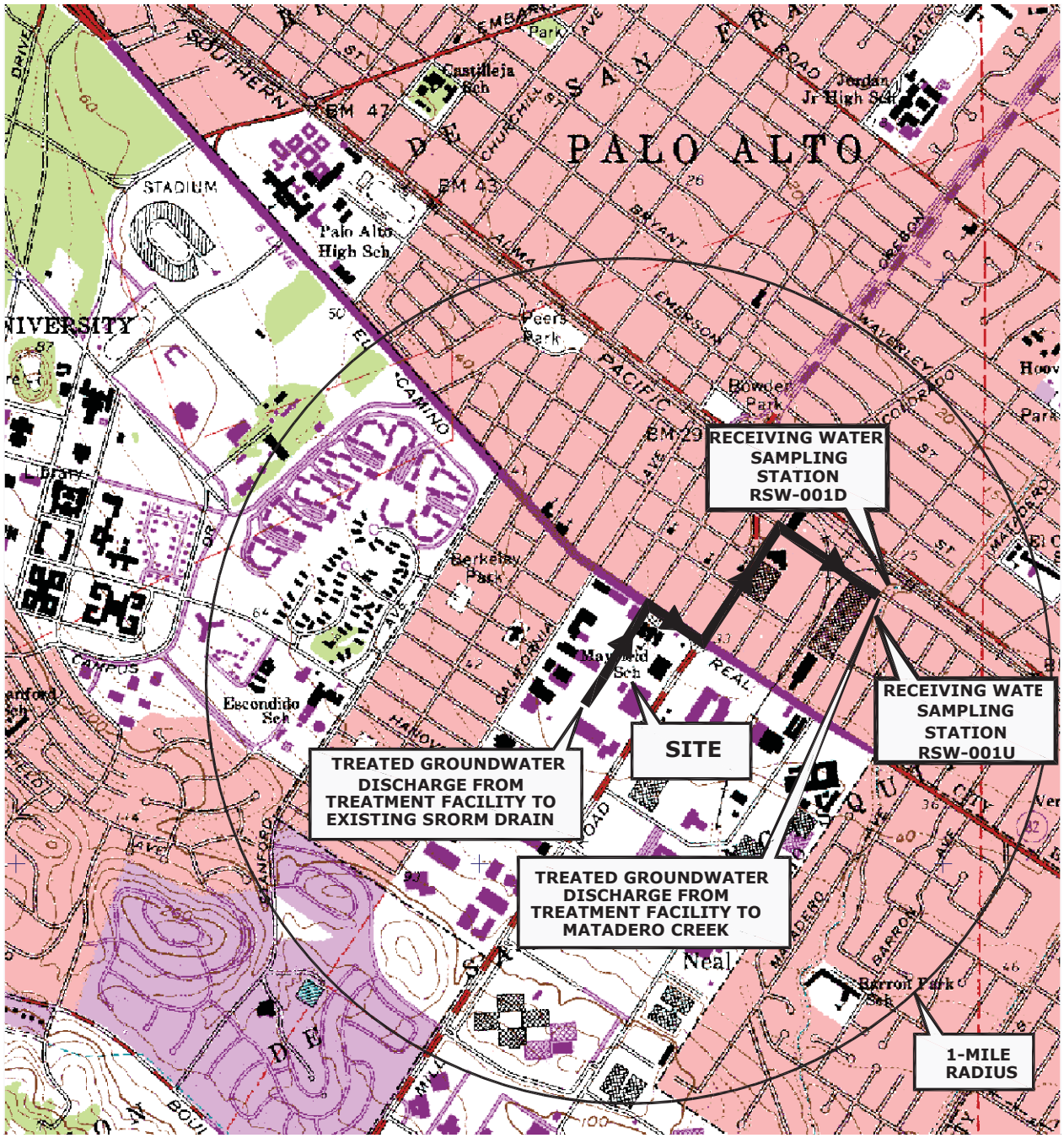
Notes:
(1) Gallons per period refers to the difference between the reading taken on that date and the reading taken on the previous date.
(2) Reuse water is used for on-site landscape irrigation or flushing toilets.
(3) The Total System Treated Flow Volume is the sum of Storm Drain Flow Volume and the Reuse Flow Volume.
(4) Gallons per week is calculated based on the average daily discharge flow volume times seven.
(5) Total VOC concentration is the sum of the concentrations of the individual compounds.
(6) The estimated VOC mass removal rate is calculated using the average total VOC concentration of the system influent and the Discharge Flow volume treated during the period. The average concentration is calculated using the two most recent influent sample results.
(7) The average system flow rate is calculated by dividing the total flow volume of the period by the estimated period of operation of the GWET system.
(8) The estimated VOC mass removal of the period is the sum of the individual VOC mass removal values.

Abbreviations
NM = Not Measured
VOC = Volatile Organic Compounds
μg/L = Micrograms per Liter

Table 6
Summary of Standard Observations
Annual 2013
Hewlett-Packard Company
Groundwater Extraction and Treatment System
640 Page Mill Road
Palo Alto, California

Standard Observation for Groundwater Treatment System	15-Jan-13	6-Feb-13	5-Mar-13	16-Apr-13	9-May-13	6-Jun-13	11-Jul-13	7-Aug-13	4-Sep-13	3-Oct-13
Odor: Presence or absence, characterization, source, distance of travel, and wind direction	No	No	No	No	No	No	No	No	No	No
Wind direction and estimated velocity	North 1 mile per hour	West 1 mile per hour	South 1 mile per hour	North 2 miles per hour	East 2 miles per hour	West 2 miles per hour	East 1 mile per hour	East 2 miles per hour	West 2 miles per hour	North 1 mile per hour
Deposits, discolorations, and/or plugging in the treatment system (stripping tower, carbon filters, etc.) that could adversely affect the system reliability and performance	No	No	No	No	No	No	No	No	No	No
Operation of the float and/or pressure shutoff valves installed to prevent system overflow or bypass	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Standard Observation for Receiving Water	15-Jan-13	6-Feb-13	5-Mar-13	16-Apr-13	9-May-13	6-Jun-13	11-Jul-13	7-Aug-13	4-Sep-13	3-Oct-13
Floating and suspended materials of waste origion (i.e. oil, grease, etc) presence or absence, source, and size of area	No	No	No	No	No	No	No	No	No	No
Discoloration and turbidity (color, source, size of area)	No	No	No	No	No	No	No	No	No	No
Odor: Presence or absence, characterization, source, distance of travel, and wind direction	No	No	No	No	No	No	No	No	No	No
Evidence of beneficial water use: Presence of waterfowl or wildlife, people fishing, recreational activities in the vicinity of the site	No	No	No	No	No	Yes	No	Yes	Yes	Yes
Air temperature (degree F)	55	50	65	65	60	65	60	60	60	65
Wind direction and estimated velocity	North 1 mile per hour	West 1 mile per hour	South 1mile per hour	North 2 miles per hour	East 2 miles per hour	West 2 miles per hour	East 1 mile per hour	East 2 miles per hour	West 2 miles per hour	North 1 mile per hour
Estimated precipitation:	today- 0 inches last five days - 0 inches	today- 0 inches last five days - 0 inches	today- 0 inches last five days - 0 inches	today- 0 inches last five days - 0 inches	today- 0 inches last five days - 0 inches	today- 0 inches last five days - 0 inches	today- 0 inches last five days - 0 inches	today- 0 inches last five days - 0 inches	today- 0 inches last five days - 0 inches	today- 0 inches last five days - 0 inches



STORM DRAIN ROUTING

N

CALIFORNIA

1 1/2 0 1

SCALE IN MILE

1000 0 1000 2000 3000 4000 5000 6000 7000

SCALE IN FEET

REFERENCE: U.S.G.S., 1991, PALO ALTO QUADRANGLE CALIFORNIA
SANTA CLARA COUNTY, 7.5' SERIES (TOPOGRAPHIC).

Stantec
2301 LEGHORN STREET
MOUNTAIN VIEW, CALIFORNIA
PHONE: (650)691-0131 FAX: (650)691-9837

FOR:			FIGURE:
HEWLETT-PACKARD 640 PAGE MILL ROAD PALO ALTO, CALIFRONIA		SITE VICINITY MAP	1
JOB NUMBER: 185702017.200.0021	DRAWN BY: DW/JBL	CHECKED BY: WC	APPROVED BY: MB	DATE: 02/11/10

FILEPATH:M:\00_OTHER OFFICES\04-Mt_View\HP\640_Page_Mill_Road\DWG\HP-NPDES-640 PMR-SVM.dwg|jlieberman|Feb 11, 2010 at 14:45|Layout: Layout1