

# Annual Summary Report

City of Dover DPW Facility

271 Mast Road

Dover, New Hampshire

August 31, 2010

Terracon Project No. J1097144

**Prepared for:**

Community Services Department  
Dover, New Hampshire

**Prepared by:**

Terracon Consultants, Inc.  
Manchester, New Hampshire

Offices Nationwide  
Employee-Owned

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**Terracon**

Geotechnical ■ Environmental ■ Construction Materials ■ Facilities

August 31, 2010

Community Services Department  
288 Central Avenue  
Dover, NH 03820

Attn: Mr. Dean Peschel  
Email: [d.peschel@dover.nh.gov](mailto:d.peschel@dover.nh.gov)

Re: Annual Summary Report  
Department of Public Works  
Dover, New Hampshire  
Project No. J1097144

Dear Mr. Peschel:

This monitoring report presents the results of water sampling and analyses conducted during October 2009 and April 2010 at the above-referenced site (Exhibit A-1). A description of our sampling program field methods, results and recommendations follow. The contents of this report are subject to the Limitations included in Appendix A.

## 2009/2010 FIELD SAMPLING PROGRAM

On October 15, 2009 and April 27, 2010, Terracon representatives obtained water samples from groundwater monitoring wells DPW-1, DPW-2, DPW-3, DPW-4, DPW-5, and DPW-6 at the Dover Department of Public Works facility located at 271 Mast Road in the city of Dover, New Hampshire. The location of the monitoring well network and other pertinent site features are depicted on Exhibit A-1.

A low-flow sampling methodology was used during the sampling events. Flow rates were adjusted to be approximately 0.2 to 0.4 liters per minute, which is within the accepted range of 0.1 to 0.5 liter per minute used for low-flow sampling (*Low Flow Groundwater Sampling Procedures, US EPA/540/S-95/504, April 1996*). The low-flow sampling system consisted of either a Cole/Parmer MasterFlex Pump or a Grundfos Redi-Flo2 pump connected to 0.25- inch-diameter or 0.75-inch-diameter polyethylene discharge pipe. The flow-through cell consisted of a 1-liter Erlenmeyer flask set up with water-quality probes inserted within the flask. Water flowed into the base of the flask to an outlet located near the top of the flask. Generally, the

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## Annual Groundwater Monitoring Report

Dover Department of Public Works ■ Dover, New Hampshire  
August 31, 2010 ■ Terracon Project No. J1097144



water-quality probes showed stabilized readings within 30 minutes of the flask filling with water. Water samples were collected by extracting the tubing from the flow-through cell and filling the appropriate containers. Table 1 summarizes groundwater level measurements and field parameters taken during the October 2009 and April 2010 sampling events.

Groundwater samples from each monitoring well were collected in two laboratory-supplied, preserved 40-milliliter glass vials and placed on ice during transportation under proper chain-of-custody documentation to Aquarian Analytical, Inc. of Canterbury, New Hampshire for analysis of volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), dissolved Resource Conservation and Recovery Act (RCRA) 8 metals, sulfate, chloride and ethylene glycol by the U.S. Environmental Protection Agency Methods 524.2, 8270, 200.8, 300.0 and ASTM D 3695-95.

Laboratory analytical data from the October 2009 sampling event has already been transmitted and, therefore, is not included in this annual report. A copy of the April 2010 analytical report is attached in Appendix B. A summary of the groundwater analytical data collected to date for each monitoring well is presented as Table 2.

## DATA EVALUATION

Based on the available analytical data, VOCs were not detected within the water samples collected from the site during the October 2009 and April 2010 sampling events with the exception of tetrachloroethene. Tetrachloroethene was detected during the October 2009 sampling event within the groundwater sample collected at DPW-3 at a concentration of 1.8 parts per billion (ppb), which is below the applicable New Hampshire Department of Environmental Services (NHDES) Ambient Groundwater Quality Standard (AGQS) of 5 ppb.

Concentrations of sulfate and chloride were detected in groundwater samples collected at each monitoring well location during the October 2009 and April 2010 sampling events; however the concentrations were below applicable AGQS or secondary maximum contaminant level (SMCL).

During the October 2009 sampling event, arsenic was detected above the applicable AGQS of 0.01 parts per million (ppm) within monitoring well DPW-1 (0.085 ppm), DPW-2 (0.020 ppm), DPW-3 (0.110 ppm), DPW-4 (0.100 ppm), DPW-5 (0.300 ppm) and DPW-6 (0.034 ppm). During the April 2010 sampling event, arsenic was only detected above the AGQS within monitoring wells DPW-2 (0.073 ppm) and DPW-3 (0.170 ppm). Historically, arsenic has predominantly been detected above AGQS at the site within monitoring well DPW-5, which is depicted on Exhibit A-2.



In addition to arsenic, lead was detected above the applicable AGQS of 0.015 ppm within samples collected from DPW-1 (0.022 ppm), DPW-3 (0.027 ppm) and DPW-4 (0.019 ppm) during the October 2009 sampling event. During the April 2010 sampling event, lead was not detected above the laboratory reporting limits within any of the groundwater samples collected from the site. Additional metals were reported above the laboratory detection limits but did not exceed applicable AGQS or SMCLs

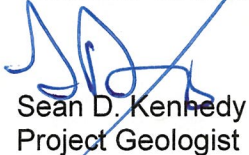
Several PAHs were also detected in groundwater at the site; however, the additional PAH compounds were not reported above applicable NHDES AGQS.

## **CONCLUSIONS AND RECOMMENDATIONS**

The groundwater monitoring data continue to suggest the presence of arsenic impacts to the groundwater quality at the site. Arsenic was detected above the applicable AGQS of 0.01 ppm during the October 2009 sampling event within groundwater collected from each monitoring well at the site. Due to the lack of site history, we are unable to assess whether the arsenic impacts at the site are associated with a naturally occurring source or an anthropogenic source. Based on the concentrations detected at the site, we recommend that the city of Dover notify NHDES of the presence of arsenic above applicable AGQS. In addition, we recommend continued monitoring of the groundwater to evaluate the presence of metals at the site.

If you have questions, please contact our office. Thank you for this opportunity to have been of service to you on this project.

Sincerely,  
**Terracon Consultants, Inc.**

  
Sean D. Kennedy  
Project Geologist

/cjd

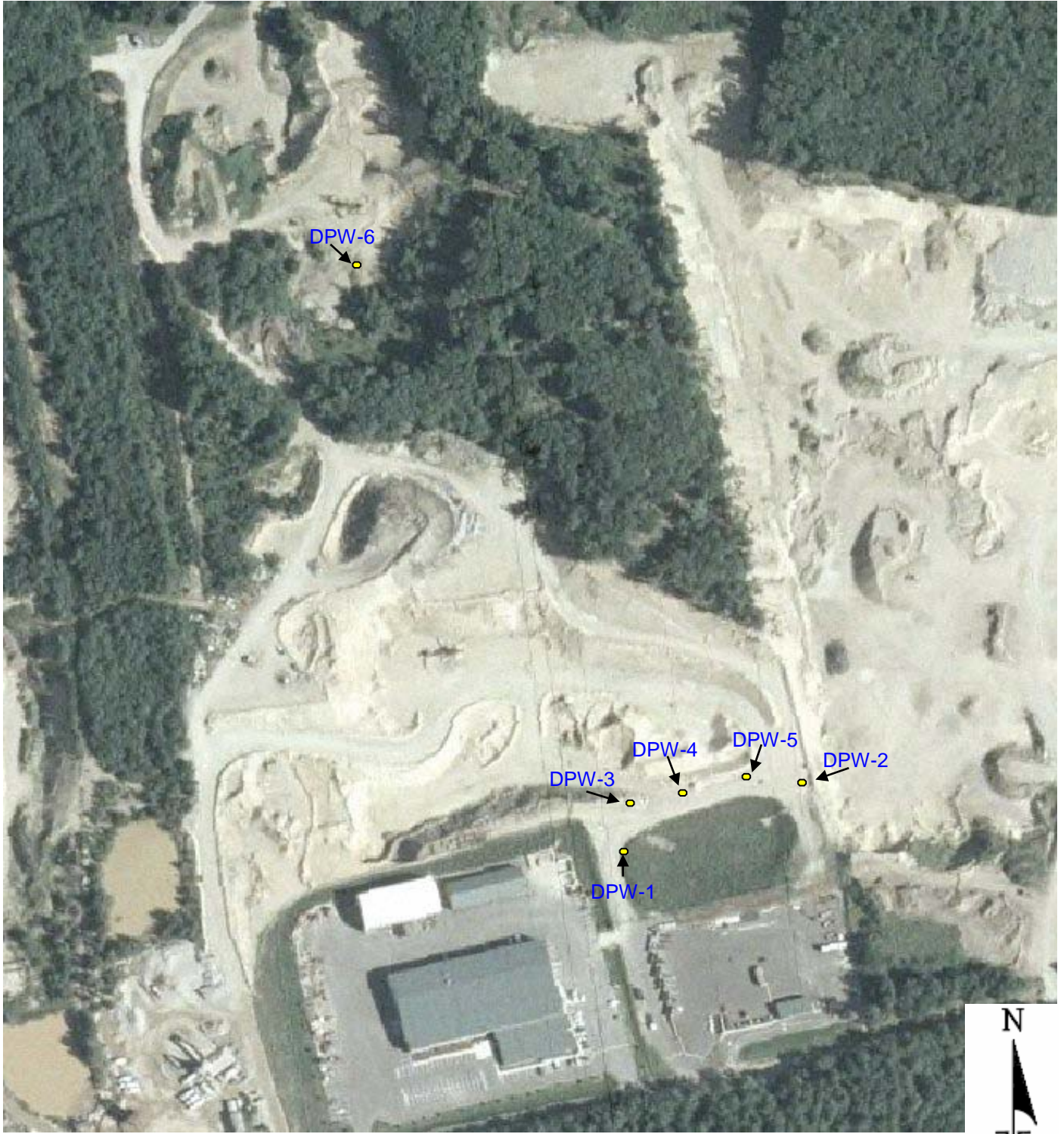
  
Mark R. Henderson, PG  
Principal  
Environmental Department Manager

Attachments: Figures: Exhibit A-1 – Site Location Plan  
Exhibit A-2 – Arsenic Trend in DPW-5  
Tables: Table 1 – Water Levels and Field Parameters  
Table 2 – Summary of Groundwater Analytical Results  
Appendix A: Limitations  
Appendix B: AAI report dated May 12, 2010



## **FIGURES**

Exhibit A-1 – Site Location Plan  
Exhibit A-2 – Arsenic Trend in DPW-5



NOT TO SCALE

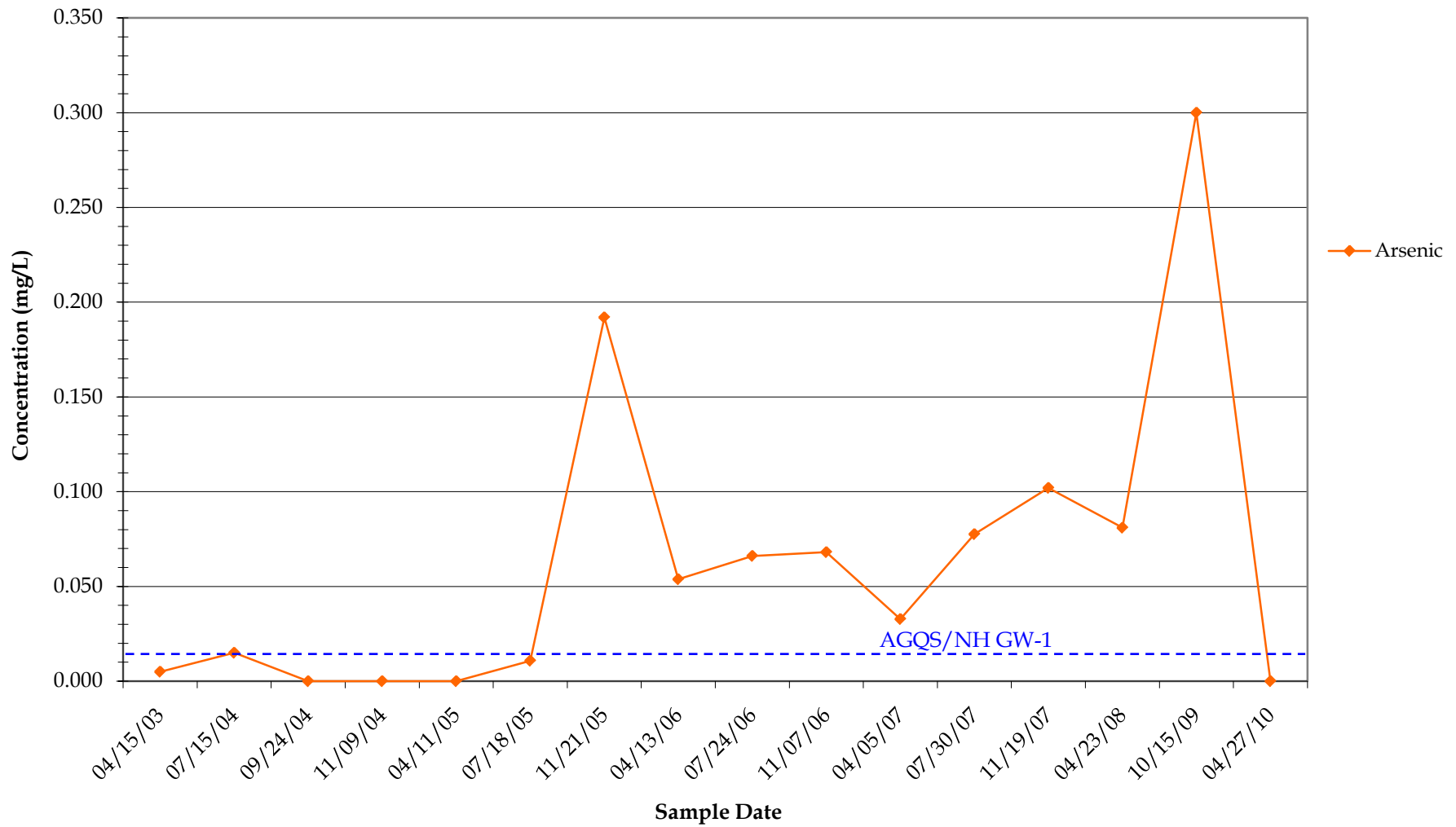
**DPW-1**

- Approximate Monitoring Well Location

Project Mngr: SDK	Project No: J1097144	<b>Terracon</b>	SITE LOCATION PLAN	Exb. No.
Drawn By: SDK	Scale: NTS		SITE: Dover D.P.W ADDRESS: 271 Mast Road DOVER, NH	A-1
Checked By: MRH	File No: NA	77 Sundial Avenue Manchester, NH 03103		
Approved By: MRH	Date: 11/6/2009	(603) 647-9700 (603)647-4432		

### Exhibit A-2: Arsenic Trend in DPW-5

Dover DPW Facility  
Mast Road  
Dover, NH





## **TABLES**

Table 1 – Water Levels and Field Parameters

Table 2 – Summary of Groundwater Analytical Results



**TABLE 1**

Retention Pond Monitoring Wells  
 City of Dover DPW  
 Dover, New Hampshire

**Water Levels and Field Parameters**

Well	Date	Depth to	Temperature (C)	Specific Conductance	pH
DPW-1	9/5/2002	54.68	-	-	-
	4/15/2003	56.37	11.3	350	6.10
	7/15/2004	55.51	12.0	251	5.61
	11/9/2004	54.02	8.5	347	5.99
	4/11/2005	54.10	9.4	377	5.80
	7/18/2005	51.48	10.3	345	6.43
	11/21/2005	49.21	10.7	149	5.49
	4/13/2006	50.47	12.3	323	7.64
	7/24/2006	46.25	12.8	102	6.34
	11/7/2006	47.45	10.0	242	5.90
	4/5/2007	48.70	9.1	637	6.37
	7/30/2007	47.52	10.5	368	6.01
	11/19/2007	49.14	9.2	> 500	6.58
	4/23/2008	47.78	10.9	430	7.30
	10/15/2009	49.00	9.2	301	7.16
	4/27/2010	46.33	7.4	65	7.70
	DPW-2	9/5/2002	40.80	-	-
4/15/2003		41.73	15.3	252	6.80
7/15/2004		42.49	13.0	166	6.37
11/9/2004		15.15	8.9	111	6.33
4/11/2005		21.00	2.7	292	6.51
7/18/2005		>23.25	-	-	-
11/21/2005		Dry/Destroyed	-	-	-
4/13/2006		>25.90	-	-	-
7/24/2006		>25.90	-	-	-
11/7/2006		>25.90	-	-	-
4/5/2007		>25.90	-	-	-
7/30/2007		>27.01	-	-	-
11/19/2007		>27.01	9.7	494	6.75
4/23/2008		>27.01	15.2	450	6.55
10/15/2009		26.10	9.8	360	7.59
4/27/2010		34.61	9.9	527	7.40



**TABLE 1**

Retention Pond Monitoring Wells  
 City of Dover DPW  
 Dover, New Hampshire

**Water Levels and Field Parameters**

Well	Date	Depth to	Temperature (C)	Specific Conductance	pH
DPW-3	9/5/2002	>40.20	-	-	-
	4/15/2003	>40.20	-	-	-
	7/15/2004	>40.20	-	-	-
	11/9/2004	>40.20	-	-	-
	4/11/2005	>40.20	-	-	-
	7/18/2005	Well Covered	-	-	-
	11/21/2005	>39.00	-	-	-
	4/13/2006	>41.45	-	-	-
	7/24/2006	>41.45	-	-	-
	11/7/2006	>41.45	-	-	-
	4/5/2007	>41.45	-	-	-
	7/30/2007	36.84	9.7	151	6.31
	11/19/2007	38.41	-	-	-
	4/23/2008	37.03	12.5	343	6.40
	10/15/2009	34.00	10.3	1428	7.89
	4/27/2010	31.24	7.7	459	7.30
DPW-4	9/5/2002	40.98	-	-	-
	4/15/2003	42.22	13.6	355	6.30
	7/15/2004	36.69	10.8	123	6.16
	11/9/2004	19.25	9.7	151	6.26
	4/11/2005	33.32	7.0	591	6.20
	7/18/2005	31.07	8.1	342	5.79
	11/21/2005	28.66	9.7	162	5.66
	4/13/2006	32.33	9.9	416	7.39
	7/24/2006	28.10	9.8	254	6.38
	11/7/2006	30.55	10.5	168	6.07
	4/5/2007	31.76	9.7	413	6.28
	7/30/2007	30.61	10.8	187	6.22
	11/19/2007	32.30	9.4	194	7.36
	4/23/2008	30.93	11.6	281	6.75
	10/15/2009	32.06	10.7	236	7.51
	4/27/2010	29.63	8.6	178	7.80





**TABLE 1**

Retention Pond Monitoring Wells  
 City of Dover DPW  
 Dover, New Hampshire

**Water Levels and Field Parameters**

Well	Date	Depth to	Temperature (C)	Specific Conductance	pH
DPW-5	9/5/2002	41.14	-	-	-
	4/15/2003	42.32	17.1	265	6.30
	7/15/2004	15.42	10.7	340	6.21
	11/9/2004	14.07	10.9	174	6.16
	4/11/2005	13.61	3.5	412	6.52
	7/18/2005	21.22	7.0	1,950	6.01
	11/21/2005	18.83	10.2	1,133	6.27
	4/13/2006	34.22	9.1	668	7.38
	7/24/2006	29.96	9.3	730	6.21
	11/7/2006	32.45	10.1	408	6.20
	4/5/2007	33.60	10.0	613	6.39
	7/30/2007	32.51	10.9	222	6.16
	11/19/2007	34.30	9.9	> 500	6.39
	4/23/2008	32.83	10.5	637	5.75
	10/15/2009	38.22	10.3	134	7.77
	4/27/2010	35.72	8.4	106	8.30
DPW-6	4/15/2003	40.75	12.8	61	6.60
	7/15/2004	44.26	10.7	340	6.21
	11/9/2004	41.97	8.9	80	6.83
	4/11/2005	40.93	8.9	140	6.42
	7/18/2005	39.32	10.6	89	5.62
	11/21/2005	35.89	8.9	128	5.61
	4/13/2006	35.00	9.1	85	8.10
	7/24/2006	34.73	10.3	53	6.89
	11/7/2006	37.79	9.4	107	5.83
	4/5/2007	37.26	9.1	99	5.96
	7/30/2007	34.61	11.9	158	6.43
	11/19/2007	35.35	9.9	121	6.87
	4/23/2008	34.72	11.1	85	7.60
	10/15/2009	35.42	9.6	289	7.50
	4/27/2010	34.61	9.9	245	7.60

Notes:

1. Data prior to 7/30/07 collected by previous consultants. Data from 7/30/07 to 04/23/08 collected by LEI; data from 10/15/09 and 04/27/10 collected by Terracon Consultants, Inc.
2. -- not measured: DPW-2 is obstructed at 27 feet. DPW3 is historically dry.
3. Depth to water measurements are referenced to the top of PVC casing.



TABLE 2

Retention Pond Monitoring Wells  
City of Dover, DPW  
Dover, New Hampshire

Summary of Groundwater Analytical Results

Analyte	Sulfate (mg/l)	Chloride (mg/l)	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Iron (mg/l)	Manganese (mg/l)	Ethylene Glycol (ug/l)	Acetone (ug/l)	2-Butanone (MEK)(ug/l)	4-isopropyltoluene (ug/l)	MtBE (ug/l)	Tetrachloroethene (ug/l)	Toluene (ug/l)	Trichlorofluoromethane (ug/l)	Tetrahydrofuran (ug/l)	PAHs (ug/l)	
AGQS/NH GW-1	500	-	0.01	2	0.005	0.1	0.015	0.002	0.05	0.1	-	0.84	7	6,000	4,000	260	13	5	1000	2000	154	various	
SMCL	-	250	-	-	-	-	-	-	-	-	0.3	-	-	-	-	-	-	-	-	-	-	-	
WELL	DATE																						
DPW-1	04/15/03	8	50	0.002	0.012	ND	ND	ND	ND	ND	ND	0.240	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	07/15/04	9.5	36.1	0.006	ND	ND	ND	ND	ND	ND	ND	0.050	65.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	09/24/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	11/09/04	28.1	23.2	ND	0.013	ND	ND	ND	ND	ND	ND	0.065	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	04/11/05	13.5	66	ND	0.010	ND	ND	ND	ND	ND	ND	0.014	0.014	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	07/18/05	ND	34.8	ND	0.009	ND	ND	ND	ND	ND	ND	0.015	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	11/21/05	5.24	7.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	04/13/06	14.5	42	ND	0.016	ND	ND	ND	ND	ND	ND	0.032	0.034	ND	98.7	15,100	ND	ND	ND	ND	17,400	ND	
	07/24/06	5.99	4.99	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	566	ND
	11/07/06	15.6	4.43	0.028	0.170	ND	ND	ND	ND	ND	ND	ND	0.120	ND	ND	15	ND	ND	ND	ND	ND	91.2	ND
	04/05/07	7.35	260	ND	0.023	ND	ND	ND	ND	ND	ND	ND	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/07	44.3	30.4	0.017	0.016	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	2.7	ND	ND	ND
	11/19/07	55.6	52.9	ND	0.017	ND	ND	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/23/08	2.28	167	ND	0.017	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/15/09	11.8	11.1	0.085	0.081	ND	0.050	0.022	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.94	
04/27/10	3.09	12.7	0.001	0.001	ND	0.002	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
DPW-2	04/15/03	7	16	0.003	0.018	ND	ND	ND	ND	ND	ND	0.290	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	07/15/04	7.8	22.7	ND	ND	ND	ND	0.001	ND	ND	ND	ND	17.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	09/24/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	
	11/09/04	7.62	11.7	ND	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	04/11/05	19.4	62.1	ND	0.018	ND	ND	ND	ND	ND	0.310	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	07/18/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	07/30/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	11/19/07	26.7	62.4	ND	0.028	ND	ND	ND	ND	ND	ND	0.024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	04/23/08	36.8	49.3	0.010	0.028	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/15/09	26	15.4	0.020	0.015	ND	0.009	ND	0.004	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.47
04/27/10	28.6	15.7	0.073	0.029	ND	0.034	ND	ND	0.002	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
DPW-3	07/30/07	8.44	17.9	0.020	0.013	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	1.4	1.0	ND	ND	ND	
	04/23/08	3.35	148	ND	0.022	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	3.0	ND	ND	ND	ND	
	10/15/09	7.6	4.74	0.110	0.280	ND	0.089	0.027	ND	ND	NA	NA	ND	ND	ND	ND	ND	1.8	ND	ND	ND	0.37	
	04/27/10	36.4	28	0.170	0.031	0.002	0.024	ND	ND	0.001	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	
DPW-4	04/15/03	7	77	0.001	0.020	ND	ND	ND	ND	ND	ND	0.062	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	07/15/04	9.9	9.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	09/24/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	
	11/09/04	11.7	4.66	ND	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	04/11/05	8	148	ND	0.028	ND	ND	ND	ND	ND	0.012	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	07/18/05	37	32.4	ND	0.014	ND	ND	ND	ND	ND	0.012	0.001	ND	ND	ND	ND	ND	ND	ND	2.2	ND	ND	
	11/21/05	8.63	22.4	ND	0.008	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	04/13/06	20.5	104	ND	0.027	ND	ND	ND	ND	ND	ND	ND	ND	ND	417	ND	ND	ND	ND	ND	226	ND	
	07/24/06	9.78	51.5	0.005	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND	56	ND	ND	ND	ND	ND	80.1	ND	
	11/07/06	22.9	16.8	0.028	0.159	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	04/05/07	10.7	117	ND	0.030	ND	ND	ND	ND	ND	ND	ND	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	07/30/07	14.2	19	0.018	0.013	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	1.9	ND	ND	ND	
	11/19/07	16.7	13.7	ND	0.014	ND	ND	ND	ND	ND	ND	0.296	0.032	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	04/23/08	28.5	57.6	ND	0.024	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/15/09	26.9	14.6	0.100	0.081	ND	0.034	0.019	ND	0.001	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.35	
04/27/10	11.7	21.6	0.001	0.009	ND	0.006	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	



TABLE 2

Retention Pond Monitoring Wells  
City of Dover, DPW  
Dover, New Hampshire

Summary of Groundwater Analytical Results

Analyte	Sulfate (mg/l)	Chloride (mg/l)	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Iron (mg/l)	Manganese (mg/l)	Ethylene Glycol (ug/l)	Acetone (ug/l)	2-Butanone (MEK)(ug/l)	4-isopropyltoluene (ug/l)	MtBE (ug/l)	Tetrachloroethene (ug/l)	Toluene (ug/l)	Trichlorofluoromethane (ug/l)	Tetrahydrofuran (ug/l)	PAHs (ug/l)		
AGQS/NH GW-1	500	-	0.01	2	0.005	0.1	0.015	0.002	0.05	0.1	-	0.84	7	6,000	4,000	260	13	5	1000	2000	154	various		
SMCL	-	250	-	-	-	-	-	-	-	-	0.3	-	-	-	-	-	-	-	-	-	-	-		
WELL	DATE																							
DPW-5	04/15/03	9	52	0.005	0.021	ND	ND	ND	ND	ND	0.050	0.330	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	07/15/04	86.2	25	0.015	ND	ND	ND	ND	ND	ND	ND	ND	4.3	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	09/24/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	11/09/04	21.4	11.4	ND	0.012	ND	ND	0.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	04/11/05	11.8	94.4	ND	0.009	ND	ND	ND	ND	ND	0.013	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	07/18/05	134	393	0.011	0.133	ND	0.009	ND	ND	ND	0.005	2.470	12	ND	ND	ND	1.0	ND	ND	ND	22.3	10.5	ND	
	11/21/05	31.2	132	0.192	0.079	ND	0.023	ND	ND	ND	ND	86.50	47	ND	582	92.6	5.0	ND	ND	ND	ND	ND	ND	
	04/13/06	42	141	0.054	0.048	ND	ND	ND	ND	ND	ND	26.50	6.2	ND	ND	ND	ND	ND	ND	ND	ND	51.7	ND	
	07/24/06	42.9	114	0.066	0.059	ND	ND	ND	ND	ND	ND	48.80	9.7	ND	ND	ND	ND	ND	ND	ND	ND	19.7	ND	
	11/07/06	29.7	58.6	0.068	0.178	ND	ND	ND	ND	ND	ND	14.30	4.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/05/07	24.6	89.8	0.033	0.047	ND	ND	ND	ND	ND	ND	7.04	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/07	23.6	73	0.078	0.041	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	2.3	ND	ND	ND
	11/19/07	23.1	72.6	0.102	0.047	ND	ND	ND	ND	ND	ND	12.70	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/23/08	33.3	61.1	0.081	0.044	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/15/09	53.5	135	0.300	0.140	ND	0.030	0.013	ND	0.013	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
04/27/10	2.76	21.6	ND	0.003	ND	0.001	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	
DPW-6	04/15/03	2	8	0.002	0.004	ND	ND	ND	ND	ND	ND	0.065	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	07/15/04	1.6	22.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	11/09/04	7.33	10.7	ND	ND	ND	ND	ND	ND	ND	ND	0.059	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	04/11/05	6.42	36.6	ND	ND	ND	ND	ND	ND	ND	0.028	0.003	ND	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	
	07/18/05	5.38	11.6	ND	ND	ND	ND	ND	ND	ND	0.011	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	11/21/05	14.6	23.3	ND	ND	ND	ND	ND	ND	ND	ND	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	04/13/06	8.22	18.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	07/24/06	5.68	4.58	0.005	ND	ND	ND	ND	ND	ND	ND	0.014	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	11/07/06	24.9	11.8	0.024	0.146	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/05/07	6.75	18.8	ND	ND	ND	ND	ND	ND	ND	ND	0.035	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/30/07	19	22.7	0.018	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/19/07	16	21	ND	ND	ND	ND	ND	ND	ND	ND	0.896	0.045	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/23/08	15.7	7.87	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/15/09	37.7	26.6	0.034	0.023	ND	0.013	0.007	ND	0.002	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36
04/27/10	53.1	22.6	0.001	0.004	ND	0.005	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. Units expressed as mg/l = milligrams per liter (parts per million) and ug/l = micrograms per liter (parts per billion) as indicated
2. Data prior to 7/30/07 collected by previous consultants. Data from 7/30/07 to 04/23/08 collected by LEI.
3. AGQS = Ambient Groundwater Quality Standards (as of May 2007, the revised NH GW-1 standards are now AGQS)
4. NH GW-1 = NHDES Risk Characterization and Management Policy Method 1, GW-1 Groundwater Standards
5. SMCL = Secondary Maximum Contaminant Level
6. Bold indicates exceedance of AGQS



## **APPENDIX A**

### Limitations

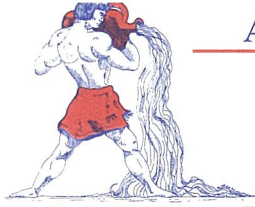
## **LIMITATIONS**

1. Analytical tests performed in the field and in the laboratory were done for the purpose of identifying the likelihood that hazardous wastes exist beneath the site. Analytical tests were not completed for every compound on the Environmental Protection Agency list of priority pollutants, nor was the entire site explored for the purpose of revealing a potential problem. Explorations were widely spaced, thus it is possible that hazardous materials may be present beneath unexplored areas of the site.
2. The analyses and conclusions in this report are based in part upon chemical test data provided by others and are contingent upon their validity. Should additional chemical analyses indicate different evidence of contamination, these data should be reviewed by Terracon and the conclusions presented herein may be modified. It should be noted that variations in the type of contaminants, their concentrations, and their direction of flow would occur due to water table fluctuations and alteration of disposal practices, as well as other factors. As such, it cannot be stated with absolute certainty whether or not a hazardous waste contamination problem exists or will exist in the future at the site.
3. This study and report have been prepared for the exclusive use of the city of Dover solely for the use of an evaluation of the site. Except for the purpose of satisfying federal, state, and local regulations, this report and the findings contained herein shall not, in whole or part, be disseminated or conveyed to any other party, nor used by any other party, in whole or in part, without prior written consent of Terracon. This report has been prepared in accordance with generally accepted environmental assessment practices. No other warranty, expressed or implied, is made.

## **APPENDIX B**

AAI report dated May 12, 2010





# AQUARIAN ANALYTICAL INC.

## Laboratory Services

P.O. Box 186

Canterbury, N.H. 03224

Ph. 603-783-9097 • Fax 603-783-0360

12 May 2010

Mr. Sean Kennedy  
Terracon  
77 Sundial Ave., Suite 401W  
Manchester, NH 03103  
**RE: Dover D.P.W. - Dover, N.H.**

Dear Mr. Kennedy:

Enclosed are the results of analyses for the following samples, which were received at 3 c.

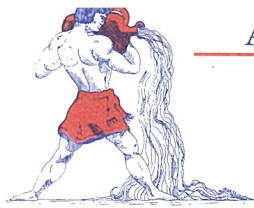
Laboratory ID	Sample ID	Sample matrix	Date sampled	Date received
1004156-01	DPW-1	Drinking Water	27-Apr-10 12:58	28-Apr-10 10:40
1004156-02	DPW-2	Drinking Water	27-Apr-10 13:26	28-Apr-10 10:40
1004156-03	DPW-3	Drinking Water	27-Apr-10 14:00	28-Apr-10 10:40
1004156-04	DPW-4	Drinking Water	27-Apr-10 14:36	28-Apr-10 10:40
1004156-05	DPW-5	Drinking Water	27-Apr-10 15:09	28-Apr-10 10:40
1004156-06	DPW-6	Drinking Water	27-Apr-10 15:09	28-Apr-10 10:40

The results in this report relate only to the submitted samples. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

William M. Rice

Laboratory Director



# AQUARIAN ANALYTICAL INC.

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Canterbury, N.H. 03224

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Terracon  
77 Sundial Ave., Suite 401W  
Manchester NH, 03103

Project: Dover D.P.W. - Dover, N.H.  
Project Number: J1097144  
Project Manager: Mr. Sean Kennedy

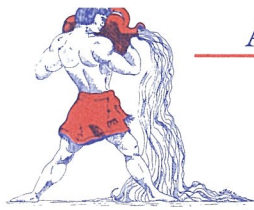
Reported:  
12-May-10 13:40

### DPW-1 1004156-01 (Drinking Water)

Sampled: 27-Apr-10

#### Volatile Organic Compounds by EPA 524.2

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Dichlorodifluoromethane	75-71-8	BD	1.0	ug/L	04-May-10	
Chloromethane	74-87-3	BD	1.0	ug/L	04-May-10	
Vinyl chloride	75-01-4	BD	0.5	ug/L	04-May-10	
Bromomethane	74-83-9	BD	0.5	ug/L	04-May-10	
Chloroethane	75-00-3	BD	0.5	ug/L	04-May-10	
Trichlorofluoromethane	75-69-4	BD	1.0	ug/L	04-May-10	
Acetone	67-64-1	BD	13	ug/L	04-May-10	
Diethyl Ether	60-29-7	BD	13	ug/L	04-May-10	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BD	1.0	ug/L	04-May-10	
1,1-Dichloroethylene	75-35-4	BD	0.5	ug/L	04-May-10	
tert-Butyl alcohol	75-65-0	BD	5.0	ug/L	04-May-10	
Carbon disulfide	75-15-0	BD	1.0	ug/L	04-May-10	
Methylene Chloride	75-09-2	BD	1.3	ug/L	04-May-10	
trans-1,2-Dichloroethylene	156-60-5	BD	0.5	ug/L	04-May-10	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.5	ug/L	04-May-10	
1,1-Dichloroethane	75-34-3	BD	0.5	ug/L	04-May-10	
Diisopropyl Ether	108-20-3	BD	0.5	ug/L	04-May-10	
2,2-Dichloropropane	594-20-7	BD	1.5	ug/L	04-May-10	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	13	ug/L	04-May-10	
cis-1,2-Dichloroethene	156-59-2	BD	0.5	ug/L	04-May-10	
Ethyl tert-Butyl Ether	637-92-3	BD	0.5	ug/L	04-May-10	
Chloroform	67-66-3	BD	0.5	ug/L	04-May-10	
Bromochloromethane	74-97-5	BD	0.5	ug/L	04-May-10	
Tetrahydrofuran	109-99-9	BD	13	ug/L	04-May-10	
1,1,1-Trichloroethane	71-55-6	BD	0.5	ug/L	04-May-10	
1,1-Dichloropropene	563-58-6	BD	0.5	ug/L	04-May-10	
Carbon Tetrachloride	56-23-5	BD	0.5	ug/L	04-May-10	
1,2-Dichloroethane	107-06-2	BD	0.5	ug/L	04-May-10	
Benzene	71-43-2	BD	0.5	ug/L	04-May-10	
Tert-Amyl Methyl Ether	994-05-8	BD	1.0	ug/L	04-May-10	
Trichloroethylene	79-01-6	BD	0.5	ug/L	04-May-10	
1,2-Dichloropropane	78-87-5	BD	0.5	ug/L	04-May-10	
Dibromomethane	74-95-3	BD	0.5	ug/L	04-May-10	
Bromodichloromethane	75-27-4	BD	0.5	ug/L	04-May-10	
cis-1,3-Dichloropropene	10061-01-5	BD	0.5	ug/L	04-May-10	
Methyl Isobutyl Ketone	108-10-1	BD	13	ug/L	04-May-10	
Toluene	108-88-3	BD	0.5	ug/L	04-May-10	
trans-1,3-Dichloropropene	10061-02-6	BD	0.5	ug/L	04-May-10	
1,1,2-Trichloroethane	79-00-5	BD	0.5	ug/L	04-May-10	



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77 Sundial Ave., Suite 401W  
Manchester NH, 03103

Project: Dover D.P.W. - Dover, N.H.  
Project Number: J1097144  
Project Manager: Mr. Sean Kennedy

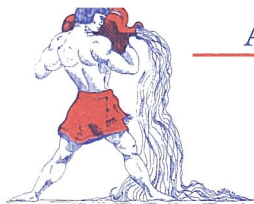
Reported:  
12-May-10 13:40

### DPW-1 1004156-01 (Drinking Water)

Sampled: 27-Apr-10

#### Volatile Organic Compounds by EPA 524.2

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
1,3-Dichloropropane	142-28-9	BD	0.5	ug/L	04-May-10	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	13	ug/L	04-May-10	
Dibromochloromethane	124-48-1	BD	0.5	ug/L	04-May-10	
Tetrachloroethylene	127-18-4	BD	0.5	ug/L	04-May-10	
1,2-Dibromoethane	106-93-4	BD	0.5	ug/L	04-May-10	
Chlorobenzene	108-90-7	BD	0.5	ug/L	04-May-10	
1,1,1,2-Tetrachloroethane	630-20-6	BD	0.5	ug/L	04-May-10	
Ethylbenzene	100-41-4	BD	0.5	ug/L	04-May-10	
m,p-Xylenes	108-38-3,106-42-3	BD	1.0	ug/L	04-May-10	
Styrene	100-42-5	BD	0.5	ug/L	04-May-10	
o-Xylene	95-47-6	BD	0.5	ug/L	04-May-10	
Bromoform	75-25-2	BD	0.5	ug/L	04-May-10	
1,1,2,2-Tetrachloroethane	79-34-5	BD	0.5	ug/L	04-May-10	
Isopropylbenzene	98-82-8	BD	0.5	ug/L	04-May-10	
1,2,3-Trichloropropane	96-18-4	BD	0.5	ug/L	04-May-10	
Bromobenzene	108-86-1	BD	0.5	ug/L	04-May-10	
n-Propylbenzene	103-65-1	BD	0.5	ug/L	04-May-10	
2-Chlorotoluene	95-49-8	BD	0.5	ug/L	04-May-10	
4-Chlorotoluene	106-43-4	BD	0.5	ug/L	04-May-10	
1,3,5-Trimethylbenzene	108-67-8	BD	0.5	ug/L	04-May-10	
tert-Butylbenzene	98-06-6	BD	0.5	ug/L	04-May-10	
1,2,4-Trimethylbenzene	95-63-6	BD	0.5	ug/L	04-May-10	
sec-Butylbenzene	135-98-8	BD	0.5	ug/L	04-May-10	
4-Isopropyltoluene	99-87-6	BD	0.5	ug/L	04-May-10	
1,3-Dichlorobenzene	541-73-1	BD	0.5	ug/L	04-May-10	
1,4-Dichlorobenzene	106-46-7	BD	0.5	ug/L	04-May-10	
n-Butylbenzene	104-51-8	BD	0.5	ug/L	04-May-10	
1,2-Dichlorobenzene	95-50-1	BD	0.5	ug/L	04-May-10	
1,2-Dibromo-3-chloropropane	96-12-8	BD	1.0	ug/L	04-May-10	
1,2,4-Trichlorobenzene	120-82-1	BD	1.0	ug/L	04-May-10	
1,3,5-Trichlorobenzene	108-70-3	BD	1.0	ug/L	04-May-10	
Naphthalene	91-20-3	BD	1.0	ug/L	04-May-10	
Hexachlorobutadiene	87-68-3	BD	1.0	ug/L	04-May-10	
1,2,3-Trichlorobenzene	87-61-6	BD	1.0	ug/L	04-May-10	
Fluorobenzene	surrogate 462-06-6	99 % recovered			04-May-10	
Chlorobenzene-d5	surrogate 3114-55-4	100 % recovered			04-May-10	
Benzene D6	surrogate 71-43-2	97 % recovered			04-May-10	
Parafluorobromobenzene	surrogate 460-00-4	103 % recovered			04-May-10	



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Manchester NH, 03103

Project: Dover D.P.W. - Dover, N.H.  
Project Number: J1097144  
Project Manager: Mr. Sean Kennedy

**Reported:**  
12-May-10 13:40

### DPW-1 1004156-01 (Drinking Water)

Sampled: 27-Apr-10

#### Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Naphthalene	91-20-3	BD	0.50	ug/L	09-May-10	8270C	
2-Methylnaphthalene	91-57-6	BD	0.50	ug/L	09-May-10	8270C	
1-Methylnaphthalene	90-12-0	BD	0.50	ug/L	09-May-10	8270C	
Acenaphthylene	208-96-8	BD	0.50	ug/L	09-May-10	8270C	
Acenaphthene	83-32-9	BD	0.50	ug/L	09-May-10	8270C	
Fluorene	86-73-7	BD	0.50	ug/L	09-May-10	8270C	
Phenanthrene	85-01-8	BD	0.50	ug/L	09-May-10	8270C	
Anthracene	120-12-7	BD	0.50	ug/L	09-May-10	8270C	
Fluoranthene	206-44-0	BD	0.50	ug/L	09-May-10	8270C	
Pyrene	129-00-0	BD	0.50	ug/L	09-May-10	8270C	
Benzo (a) anthracene	56-55-3	BD	0.10	ug/L	09-May-10	8270C	
Chrysene	218-01-9	BD	0.50	ug/L	09-May-10	8270C	
Benzo (b) fluoranthene	205-99-2	BD	0.10	ug/L	09-May-10	8270C	
Benzo (k) fluoranthene	207-08-9	BD	0.50	ug/L	09-May-10	8270C	
Benzo (a) pyrene	50-32-8	BD	0.20	ug/L	09-May-10	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	ug/L	09-May-10	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	ug/L	09-May-10	8270C	
Benzo (g,h,i) perylene	191-24-2	BD	0.50	ug/L	09-May-10	8270C	

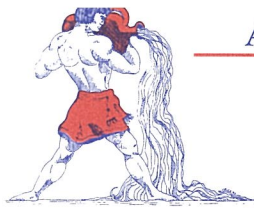
#### Semivolatile Organic Compounds

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Ethylene glycol	107-21-1	BD	1.50	mg/L	11-May-10	ASTM D3695-95	

#### Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Arsenic	7440-38-2	1	1	ug/L	05-May-10	200.8	
Barium	7440-39-3	1	1	ug/L	05-May-10	200.8	
Cadmium	7440-43-9	BD	1	ug/L	05-May-10	200.8	
Chromium	7440-47-3	2	1	ug/L	05-May-10	200.8	
Lead	7439-92-1	BD	1	ug/L	05-May-10	200.8	
Mercury	7439-97-6	BD	0.2	ug/L	05-May-10	200.8	
Selenium	7782-49-2	BD	1	ug/L	05-May-10	200.8	
Silver	7440-22-4	BD	1	ug/L	05-May-10	200.8	





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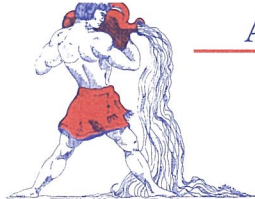
**Reported:**  
12-May-10 13:40

### DPW-1 1004156-01 (Drinking Water)

Sampled: 27-Apr-10

#### Ion Chromatography

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Chloride	16887-00-6	12.7	0.60	mg/L	28-Apr-10	300.0	
Sulfate as SO <sub>4</sub>	148-08-798	3.09	0.60	mg/L	28-Apr-10	300.0	



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Reported:  
12-May-10 13:40

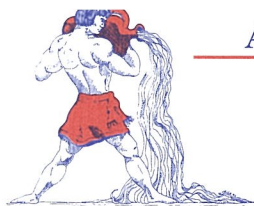
### DPW-2 1004156-02 (Drinking Water)

Sampled: 27-Apr-10

#### Volatile Organic Compounds by EPA 524.2

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Dichlorodifluoromethane	75-71-8	BD	1.0	ug/L	04-May-10	
Chloromethane	74-87-3	BD	1.0	ug/L	04-May-10	
Vinyl chloride	75-01-4	BD	0.5	ug/L	04-May-10	
Bromomethane	74-83-9	BD	0.5	ug/L	04-May-10	
Chloroethane	75-00-3	BD	0.5	ug/L	04-May-10	
Trichlorofluoromethane	75-69-4	BD	1.0	ug/L	04-May-10	
Acetone	67-64-1	BD	13	ug/L	04-May-10	
Diethyl Ether	60-29-7	BD	13	ug/L	04-May-10	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BD	1.0	ug/L	04-May-10	
1,1-Dichloroethylene	75-35-4	BD	0.5	ug/L	04-May-10	
tert-Butyl alcohol	75-65-0	BD	5.0	ug/L	04-May-10	
Carbon disulfide	75-15-0	BD	1.0	ug/L	04-May-10	
Methylene Chloride	75-09-2	BD	1.3	ug/L	04-May-10	
trans-1,2-Dichloroethylene	156-60-5	BD	0.5	ug/L	04-May-10	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.5	ug/L	04-May-10	
1,1-Dichloroethane	75-34-3	BD	0.5	ug/L	04-May-10	
Diisopropyl Ether	108-20-3	BD	0.5	ug/L	04-May-10	
2,2-Dichloropropane	594-20-7	BD	1.5	ug/L	04-May-10	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	13	ug/L	04-May-10	
cis-1,2-Dichloroethene	156-59-2	BD	0.5	ug/L	04-May-10	
Ethyl tert-Butyl Ether	637-92-3	BD	0.5	ug/L	04-May-10	
Chloroform	67-66-3	BD	0.5	ug/L	04-May-10	
Bromochloromethane	74-97-5	BD	0.5	ug/L	04-May-10	
Tetrahydrofuran	109-99-9	BD	13	ug/L	04-May-10	
1,1,1-Trichloroethane	71-55-6	BD	0.5	ug/L	04-May-10	
1,1-Dichloropropene	563-58-6	BD	0.5	ug/L	04-May-10	
Carbon Tetrachloride	56-23-5	BD	0.5	ug/L	04-May-10	
1,2-Dichloroethane	107-06-2	BD	0.5	ug/L	04-May-10	
Benzene	71-43-2	BD	0.5	ug/L	04-May-10	
Tert-Amyl Methyl Ether	994-05-8	BD	1.0	ug/L	04-May-10	
Trichloroethylene	79-01-6	BD	0.5	ug/L	04-May-10	
1,2-Dichloropropane	78-87-5	BD	0.5	ug/L	04-May-10	
Dibromomethane	74-95-3	BD	0.5	ug/L	04-May-10	
Bromodichloromethane	75-27-4	BD	0.5	ug/L	04-May-10	
cis-1,3-Dichloropropene	10061-01-5	BD	0.5	ug/L	04-May-10	
Methyl Isobutyl Ketone	108-10-1	BD	13	ug/L	04-May-10	
Toluene	108-88-3	BD	0.5	ug/L	04-May-10	
trans-1,3-Dichloropropene	10061-02-6	BD	0.5	ug/L	04-May-10	
1,1,2-Trichloroethane	79-00-5	BD	0.5	ug/L	04-May-10	





# AQUARIAN ANALYTICAL INC.

## Laboratory Services

P.O. Box 186

Canterbury, N.H. 03224

Ph. 603-783-9097 • Fax 603-783-0360

Terracon  
77 Sundial Ave., Suite 401W  
Manchester NH, 03103

Project: Dover D.P.W. - Dover, N.H.  
Project Number: J1097144  
Project Manager: Mr. Sean Kennedy

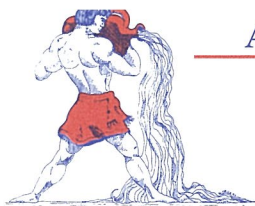
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12-May-10 13:40

### DPW-2 1004156-02 (Drinking Water)

Sampled: 27-Apr-10

#### Volatile Organic Compounds by EPA 524.2

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
1,3-Dichloropropane	142-28-9	BD	0.5	ug/L	04-May-10	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	13	ug/L	04-May-10	
Dibromochloromethane	124-48-1	BD	0.5	ug/L	04-May-10	
Tetrachloroethylene	127-18-4	BD	0.5	ug/L	04-May-10	
1,2-Dibromoethane	106-93-4	BD	0.5	ug/L	04-May-10	
Chlorobenzene	108-90-7	BD	0.5	ug/L	04-May-10	
1,1,1,2-Tetrachloroethane	630-20-6	BD	0.5	ug/L	04-May-10	
Ethylbenzene	100-41-4	BD	0.5	ug/L	04-May-10	
m,p-Xylenes	108-38-3,106-42-3	BD	1.0	ug/L	04-May-10	
Styrene	100-42-5	BD	0.5	ug/L	04-May-10	
o-Xylene	95-47-6	BD	0.5	ug/L	04-May-10	
Bromoform	75-25-2	BD	0.5	ug/L	04-May-10	
1,1,2,2-Tetrachloroethane	79-34-5	BD	0.5	ug/L	04-May-10	
Isopropylbenzene	98-82-8	BD	0.5	ug/L	04-May-10	
1,2,3-Trichloropropane	96-18-4	BD	0.5	ug/L	04-May-10	
Bromobenzene	108-86-1	BD	0.5	ug/L	04-May-10	
n-Propylbenzene	103-65-1	BD	0.5	ug/L	04-May-10	
2-Chlorotoluene	95-49-8	BD	0.5	ug/L	04-May-10	
4-Chlorotoluene	106-43-4	BD	0.5	ug/L	04-May-10	
1,3,5-Trimethylbenzene	108-67-8	BD	0.5	ug/L	04-May-10	
tert-Butylbenzene	98-06-6	BD	0.5	ug/L	04-May-10	
1,2,4-Trimethylbenzene	95-63-6	BD	0.5	ug/L	04-May-10	
sec-Butylbenzene	135-98-8	BD	0.5	ug/L	04-May-10	
4-Isopropyltoluene	99-87-6	BD	0.5	ug/L	04-May-10	
1,3-Dichlorobenzene	541-73-1	BD	0.5	ug/L	04-May-10	
1,4-Dichlorobenzene	106-46-7	BD	0.5	ug/L	04-May-10	
n-Butylbenzene	104-51-8	BD	0.5	ug/L	04-May-10	
1,2-Dichlorobenzene	95-50-1	BD	0.5	ug/L	04-May-10	
1,2-Dibromo-3-chloropropane	96-12-8	BD	1.0	ug/L	04-May-10	
1,2,4-Trichlorobenzene	120-82-1	BD	1.0	ug/L	04-May-10	
1,3,5-Trichlorobenzene	108-70-3	BD	1.0	ug/L	04-May-10	
Naphthalene	91-20-3	BD	1.0	ug/L	04-May-10	
Hexachlorobutadiene	87-68-3	BD	1.0	ug/L	04-May-10	
1,2,3-Trichlorobenzene	87-61-6	BD	1.0	ug/L	04-May-10	
Fluorobenzene	surrogate	462-06-6	101 % recovered		04-May-10	
Chlorobenzene-d5	surrogate	3114-55-4	101 % recovered		04-May-10	
Benzene D6	surrogate	71-43-2	100 % recovered		04-May-10	
Parafluorobromobenzene	surrogate	460-00-4	102 % recovered		04-May-10	



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Terracon  
77 Sundial Ave., Suite 401W  
Manchester NH, 03103

Project: Dover D.P.W. - Dover, N.H.  
Project Number: J1097144  
Project Manager: Mr. Sean Kennedy

Reported:  
12-May-10 13:40

### DPW-2 1004156-02 (Drinking Water)

Sampled: 27-Apr-10

#### Polycyclic Aromatic Hydrocarbons

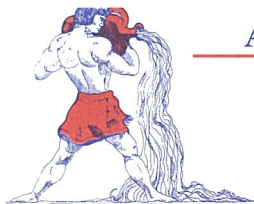
Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Naphthalene	91-20-3	BD	0.50	ug/L	09-May-10	8270C	
2-Methylnaphthalene	91-57-6	BD	0.50	ug/L	09-May-10	8270C	
1-Methylnaphthalene	90-12-0	BD	0.50	ug/L	09-May-10	8270C	
Acenaphthylene	208-96-8	BD	0.50	ug/L	09-May-10	8270C	
Acenaphthene	83-32-9	BD	0.50	ug/L	09-May-10	8270C	
Fluorene	86-73-7	BD	0.50	ug/L	09-May-10	8270C	
Phenanthrene	85-01-8	BD	0.50	ug/L	09-May-10	8270C	
Anthracene	120-12-7	BD	0.50	ug/L	09-May-10	8270C	
Fluoranthene	206-44-0	BD	0.50	ug/L	09-May-10	8270C	
Pyrene	129-00-0	BD	0.50	ug/L	09-May-10	8270C	
Benzo (a) anthracene	56-55-3	BD	0.10	ug/L	09-May-10	8270C	
Chrysene	218-01-9	BD	0.50	ug/L	09-May-10	8270C	
Benzo (b) fluoranthene	205-99-2	BD	0.10	ug/L	09-May-10	8270C	
Benzo (k) fluoranthene	207-08-9	BD	0.50	ug/L	09-May-10	8270C	
Benzo (a) pyrene	50-32-8	BD	0.20	ug/L	09-May-10	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	ug/L	09-May-10	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	ug/L	09-May-10	8270C	
Benzo (g,h,i) perylene	191-24-2	BD	0.50	ug/L	09-May-10	8270C	

#### Semivolatile Organic Compounds

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Ethylene glycol	107-21-1	BD	1.50	mg/L	11-May-10	ASTM D3695-95	

#### Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Arsenic	7440-38-2	73	1	ug/L	05-May-10	200.8	
Barium	7440-39-3	29	1	ug/L	05-May-10	200.8	
Cadmium	7440-43-9	BD	1	ug/L	05-May-10	200.8	
Chromium	7440-47-3	34	1	ug/L	05-May-10	200.8	
Lead	7439-92-1	BD	1	ug/L	05-May-10	200.8	
Mercury	7439-97-6	BD	0.2	ug/L	05-May-10	200.8	
Selenium	7782-49-2	2	1	ug/L	05-May-10	200.8	
Silver	7440-22-4	BD	1	ug/L	05-May-10	200.8	



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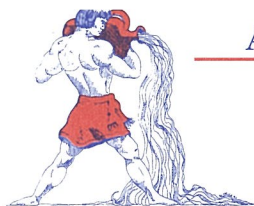
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12-May-10 13:40

### DPW-2 1004156-02 (Drinking Water)

Sampled: 27-Apr-10

#### Ion Chromatography

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Chloride	16887-00-6	15.7	0.60	mg/L	28-Apr-10	300.0	
Sulfate as SO4	148-08-798	28.6	0.60	mg/L	28-Apr-10	300.0	



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Reported:  
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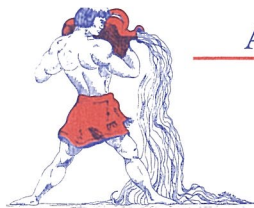
### DPW-3 1004156-03 (Drinking Water)

Sampled: 27-Apr-10

#### Volatile Organic Compounds by EPA 524.2

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Dichlorodifluoromethane	75-71-8	BD	1.0	ug/L	04-May-10	
Chloromethane	74-87-3	BD	1.0	ug/L	04-May-10	
Vinyl chloride	75-01-4	BD	0.5	ug/L	04-May-10	
Bromomethane	74-83-9	BD	0.5	ug/L	04-May-10	
Chloroethane	75-00-3	BD	0.5	ug/L	04-May-10	
Trichlorofluoromethane	75-69-4	BD	1.0	ug/L	04-May-10	
Acetone	67-64-1	BD	13	ug/L	04-May-10	
Diethyl Ether	60-29-7	BD	13	ug/L	04-May-10	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BD	1.0	ug/L	04-May-10	
1,1-Dichloroethylene	75-35-4	BD	0.5	ug/L	04-May-10	
tert-Butyl alcohol	75-65-0	BD	5.0	ug/L	04-May-10	
Carbon disulfide	75-15-0	BD	1.0	ug/L	04-May-10	
Methylene Chloride	75-09-2	BD	1.3	ug/L	04-May-10	
trans-1,2-Dichloroethylene	156-60-5	BD	0.5	ug/L	04-May-10	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.5	ug/L	04-May-10	
1,1-Dichloroethane	75-34-3	BD	0.5	ug/L	04-May-10	
Diisopropyl Ether	108-20-3	BD	0.5	ug/L	04-May-10	
2,2-Dichloropropane	594-20-7	BD	1.5	ug/L	04-May-10	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	13	ug/L	04-May-10	
cis-1,2-Dichloroethene	156-59-2	BD	0.5	ug/L	04-May-10	
Ethyl tert-Butyl Ether	637-92-3	BD	0.5	ug/L	04-May-10	
Chloroform	67-66-3	BD	0.5	ug/L	04-May-10	
Bromochloromethane	74-97-5	BD	0.5	ug/L	04-May-10	
Tetrahydrofuran	109-99-9	BD	13	ug/L	04-May-10	
1,1,1-Trichloroethane	71-55-6	BD	0.5	ug/L	04-May-10	
1,1-Dichloropropene	563-58-6	BD	0.5	ug/L	04-May-10	
Carbon Tetrachloride	56-23-5	BD	0.5	ug/L	04-May-10	
1,2-Dichloroethane	107-06-2	BD	0.5	ug/L	04-May-10	
Benzene	71-43-2	BD	0.5	ug/L	04-May-10	
Tert-Amyl Methyl Ether	994-05-8	BD	1.0	ug/L	04-May-10	
Trichloroethylene	79-01-6	BD	0.5	ug/L	04-May-10	
1,2-Dichloropropane	78-87-5	BD	0.5	ug/L	04-May-10	
Dibromomethane	74-95-3	BD	0.5	ug/L	04-May-10	
Bromodichloromethane	75-27-4	BD	0.5	ug/L	04-May-10	
cis-1,3-Dichloropropene	10061-01-5	BD	0.5	ug/L	04-May-10	
Methyl Isobutyl Ketone	108-10-1	BD	13	ug/L	04-May-10	
Toluene	108-88-3	BD	0.5	ug/L	04-May-10	
trans-1,3-Dichloropropene	10061-02-6	BD	0.5	ug/L	04-May-10	
1,1,2-Trichloroethane	79-00-5	BD	0.5	ug/L	04-May-10	





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Project: Dover D.P.W. - Dover, N.H.  
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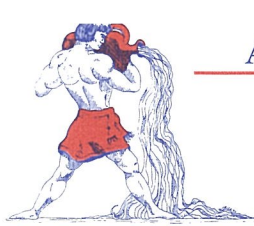
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12-May-10 13:40

### DPW-3 1004156-03 (Drinking Water)

Sampled: 27-Apr-10

#### Volatile Organic Compounds by EPA 524.2

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
1,3-Dichloropropane	142-28-9	BD	0.5	ug/L	04-May-10	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	13	ug/L	04-May-10	
Dibromochloromethane	124-48-1	BD	0.5	ug/L	04-May-10	
Tetrachloroethylene	127-18-4	BD	0.5	ug/L	04-May-10	
1,2-Dibromoethane	106-93-4	BD	0.5	ug/L	04-May-10	
Chlorobenzene	108-90-7	BD	0.5	ug/L	04-May-10	
1,1,1,2-Tetrachloroethane	630-20-6	BD	0.5	ug/L	04-May-10	
Ethylbenzene	100-41-4	BD	0.5	ug/L	04-May-10	
m,p-Xylenes	108-38-3,106-42-3	BD	1.0	ug/L	04-May-10	
Styrene	100-42-5	BD	0.5	ug/L	04-May-10	
o-Xylene	95-47-6	BD	0.5	ug/L	04-May-10	
Bromoform	75-25-2	BD	0.5	ug/L	04-May-10	
1,1,2,2-Tetrachloroethane	79-34-5	BD	0.5	ug/L	04-May-10	
Isopropylbenzene	98-82-8	BD	0.5	ug/L	04-May-10	
1,2,3-Trichloropropane	96-18-4	BD	0.5	ug/L	04-May-10	
Bromobenzene	108-86-1	BD	0.5	ug/L	04-May-10	
n-Propylbenzene	103-65-1	BD	0.5	ug/L	04-May-10	
2-Chlorotoluene	95-49-8	BD	0.5	ug/L	04-May-10	
4-Chlorotoluene	106-43-4	BD	0.5	ug/L	04-May-10	
1,3,5-Trimethylbenzene	108-67-8	BD	0.5	ug/L	04-May-10	
tert-Butylbenzene	98-06-6	BD	0.5	ug/L	04-May-10	
1,2,4-Trimethylbenzene	95-63-6	BD	0.5	ug/L	04-May-10	
sec-Butylbenzene	135-98-8	BD	0.5	ug/L	04-May-10	
4-Isopropyltoluene	99-87-6	BD	0.5	ug/L	04-May-10	
1,3-Dichlorobenzene	541-73-1	BD	0.5	ug/L	04-May-10	
1,4-Dichlorobenzene	106-46-7	BD	0.5	ug/L	04-May-10	
n-Butylbenzene	104-51-8	BD	0.5	ug/L	04-May-10	
1,2-Dichlorobenzene	95-50-1	BD	0.5	ug/L	04-May-10	
1,2-Dibromo-3-chloropropane	96-12-8	BD	1.0	ug/L	04-May-10	
1,2,4-Trichlorobenzene	120-82-1	BD	1.0	ug/L	04-May-10	
1,3,5-Trichlorobenzene	108-70-3	BD	1.0	ug/L	04-May-10	
Naphthalene	91-20-3	BD	1.0	ug/L	04-May-10	
Hexachlorobutadiene	87-68-3	BD	1.0	ug/L	04-May-10	
1,2,3-Trichlorobenzene	87-61-6	BD	1.0	ug/L	04-May-10	
Fluorobenzene	surrogate 462-06-6	99 % recovered			04-May-10	
Chlorobenzene-d5	surrogate 3114-55-4	100 % recovered			04-May-10	
Benzene D6	surrogate 71-43-2	98 % recovered			04-May-10	
Parafluorobromobenzene	surrogate 460-00-4	102 % recovered			04-May-10	



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77 Sundial Ave., Suite 401W  
Manchester NH, 03103

Project: Dover D.P.W. - Dover, N.H.  
Project Number: J1097144  
Project Manager: Mr. Sean Kennedy

Reported:  
12-May-10 13:40

### DPW-3 1004156-03 (Drinking Water)

Sampled: 27-Apr-10

#### Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Naphthalene	91-20-3	BD	0.50	ug/L	09-May-10	8270C	
2-Methylnaphthalene	91-57-6	BD	0.50	ug/L	09-May-10	8270C	
1-Methylnaphthalene	90-12-0	BD	0.50	ug/L	09-May-10	8270C	
Acenaphthylene	208-96-8	BD	0.50	ug/L	09-May-10	8270C	
Acenaphthene	83-32-9	BD	0.50	ug/L	09-May-10	8270C	
Fluorene	86-73-7	BD	0.50	ug/L	09-May-10	8270C	
Phenanthrene	85-01-8	BD	0.50	ug/L	09-May-10	8270C	
Anthracene	120-12-7	BD	0.50	ug/L	09-May-10	8270C	
Fluoranthene	206-44-0	BD	0.50	ug/L	09-May-10	8270C	
Pyrene	129-00-0	BD	0.50	ug/L	09-May-10	8270C	
Benzo (a) anthracene	56-55-3	BD	0.10	ug/L	09-May-10	8270C	
Chrysene	218-01-9	BD	0.50	ug/L	09-May-10	8270C	
Benzo (b) fluoranthene	205-99-2	BD	0.10	ug/L	09-May-10	8270C	
Benzo (k) fluoranthene	207-08-9	BD	0.50	ug/L	09-May-10	8270C	
Benzo (a) pyrene	50-32-8	BD	0.20	ug/L	09-May-10	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	ug/L	09-May-10	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	ug/L	09-May-10	8270C	
Benzo (g,h,i) perylene	191-24-2	BD	0.50	ug/L	09-May-10	8270C	

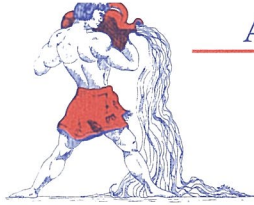
#### Semivolatile Organic Compounds

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Ethylene glycol	107-21-1	BD	1.50	mg/L	11-May-10	ASTM D3695-95	

#### Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Arsenic	7440-38-2	170	1	ug/L	05-May-10	200.8	
Barium	7440-39-3	31	1	ug/L	05-May-10	200.8	
Cadmium	7440-43-9	2	1	ug/L	05-May-10	200.8	
Chromium	7440-47-3	24	1	ug/L	05-May-10	200.8	
Lead	7439-92-1	BD	1	ug/L	05-May-10	200.8	
Mercury	7439-97-6	BD	0.2	ug/L	05-May-10	200.8	
Selenium	7782-49-2	1	1	ug/L	05-May-10	200.8	
Silver	7440-22-4	BD	1	ug/L	05-May-10	200.8	





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Terracon  
77 Sundial Ave., Suite 401W  
Manchester NH, 03103

Project: Dover D.P.W. - Dover, N.H.  
Project Number: J1097144  
Project Manager: Mr. Sean Kennedy

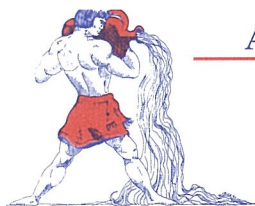
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12-May-10 13:40

### DPW-3 1004156-03 (Drinking Water)

Sampled: 27-Apr-10

#### Ion Chromatography

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Chloride	16887-00-6	28.0	1.80	mg/L	28-Apr-10	300.0	
Sulfate as SO <sub>4</sub>	148-08-798	36.4	1.80	mg/L	28-Apr-10	300.0	



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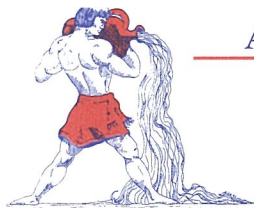
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### DPW-4 1004156-04 (Drinking Water)

Sampled: 27-Apr-10

#### Volatile Organic Compounds by EPA 524.2

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Dichlorodifluoromethane	75-71-8	BD	1.0	ug/L	04-May-10	
Chloromethane	74-87-3	BD	1.0	ug/L	04-May-10	
Vinyl chloride	75-01-4	BD	0.5	ug/L	04-May-10	
Bromomethane	74-83-9	BD	0.5	ug/L	04-May-10	
Chloroethane	75-00-3	BD	0.5	ug/L	04-May-10	
Trichlorofluoromethane	75-69-4	BD	1.0	ug/L	04-May-10	
Acetone	67-64-1	BD	13	ug/L	04-May-10	
Diethyl Ether	60-29-7	BD	13	ug/L	04-May-10	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BD	1.0	ug/L	04-May-10	
1,1-Dichloroethylene	75-35-4	BD	0.5	ug/L	04-May-10	
tert-Butyl alcohol	75-65-0	BD	5.0	ug/L	04-May-10	
Carbon disulfide	75-15-0	BD	1.0	ug/L	04-May-10	
Methylene Chloride	75-09-2	BD	1.3	ug/L	04-May-10	
trans-1,2-Dichloroethylene	156-60-5	BD	0.5	ug/L	04-May-10	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.5	ug/L	04-May-10	
1,1-Dichloroethane	75-34-3	BD	0.5	ug/L	04-May-10	
Diisopropyl Ether	108-20-3	BD	0.5	ug/L	04-May-10	
2,2-Dichloropropane	594-20-7	BD	1.5	ug/L	04-May-10	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	13	ug/L	04-May-10	
cis-1,2-Dichloroethene	156-59-2	BD	0.5	ug/L	04-May-10	
Ethyl tert-Butyl Ether	637-92-3	BD	0.5	ug/L	04-May-10	
Chloroform	67-66-3	BD	0.5	ug/L	04-May-10	
Bromochloromethane	74-97-5	BD	0.5	ug/L	04-May-10	
Tetrahydrofuran	109-99-9	BD	13	ug/L	04-May-10	
1,1,1-Trichloroethane	71-55-6	BD	0.5	ug/L	04-May-10	
1,1-Dichloropropene	563-58-6	BD	0.5	ug/L	04-May-10	
Carbon Tetrachloride	56-23-5	BD	0.5	ug/L	04-May-10	
1,2-Dichloroethane	107-06-2	BD	0.5	ug/L	04-May-10	
Benzene	71-43-2	BD	0.5	ug/L	04-May-10	
Tert-Amyl Methyl Ether	994-05-8	BD	1.0	ug/L	04-May-10	
Trichloroethylene	79-01-6	BD	0.5	ug/L	04-May-10	
1,2-Dichloropropane	78-87-5	BD	0.5	ug/L	04-May-10	
Dibromomethane	74-95-3	BD	0.5	ug/L	04-May-10	
Bromodichloromethane	75-27-4	BD	0.5	ug/L	04-May-10	
cis-1,3-Dichloropropene	10061-01-5	BD	0.5	ug/L	04-May-10	
Methyl Isobutyl Ketone	108-10-1	BD	13	ug/L	04-May-10	
Toluene	108-88-3	BD	0.5	ug/L	04-May-10	
trans-1,3-Dichloropropene	10061-02-6	BD	0.5	ug/L	04-May-10	
1,1,2-Trichloroethane	79-00-5	BD	0.5	ug/L	04-May-10	



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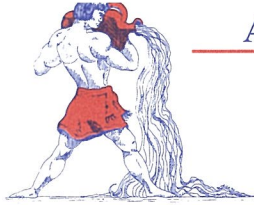
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12-May-10 13:40

### DPW-4 1004156-04 (Drinking Water)

Sampled: 27-Apr-10

#### Volatile Organic Compounds by EPA 524.2

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
1,3-Dichloropropane	142-28-9	BD	0.5	ug/L	04-May-10	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	13	ug/L	04-May-10	
Dibromochloromethane	124-48-1	BD	0.5	ug/L	04-May-10	
Tetrachloroethylene	127-18-4	BD	0.5	ug/L	04-May-10	
1,2-Dibromoethane	106-93-4	BD	0.5	ug/L	04-May-10	
Chlorobenzene	108-90-7	BD	0.5	ug/L	04-May-10	
1,1,1,2-Tetrachloroethane	630-20-6	BD	0.5	ug/L	04-May-10	
Ethylbenzene	100-41-4	BD	0.5	ug/L	04-May-10	
m,p-Xylenes	108-38-3,106-42-3	BD	1.0	ug/L	04-May-10	
Styrene	100-42-5	BD	0.5	ug/L	04-May-10	
o-Xylene	95-47-6	BD	0.5	ug/L	04-May-10	
Bromoform	75-25-2	BD	0.5	ug/L	04-May-10	
1,1,2,2-Tetrachloroethane	79-34-5	BD	0.5	ug/L	04-May-10	
Isopropylbenzene	98-82-8	BD	0.5	ug/L	04-May-10	
1,2,3-Trichloropropane	96-18-4	BD	0.5	ug/L	04-May-10	
Bromobenzene	108-86-1	BD	0.5	ug/L	04-May-10	
n-Propylbenzene	103-65-1	BD	0.5	ug/L	04-May-10	
2-Chlorotoluene	95-49-8	BD	0.5	ug/L	04-May-10	
4-Chlorotoluene	106-43-4	BD	0.5	ug/L	04-May-10	
1,3,5-Trimethylbenzene	108-67-8	BD	0.5	ug/L	04-May-10	
tert-Butylbenzene	98-06-6	BD	0.5	ug/L	04-May-10	
1,2,4-Trimethylbenzene	95-63-6	BD	0.5	ug/L	04-May-10	
sec-Butylbenzene	135-98-8	BD	0.5	ug/L	04-May-10	
4-Isopropyltoluene	99-87-6	BD	0.5	ug/L	04-May-10	
1,3-Dichlorobenzene	541-73-1	BD	0.5	ug/L	04-May-10	
1,4-Dichlorobenzene	106-46-7	BD	0.5	ug/L	04-May-10	
n-Butylbenzene	104-51-8	BD	0.5	ug/L	04-May-10	
1,2-Dichlorobenzene	95-50-1	BD	0.5	ug/L	04-May-10	
1,2-Dibromo-3-chloropropane	96-12-8	BD	1.0	ug/L	04-May-10	
1,2,4-Trichlorobenzene	120-82-1	BD	1.0	ug/L	04-May-10	
1,3,5-Trichlorobenzene	108-70-3	BD	1.0	ug/L	04-May-10	
Naphthalene	91-20-3	BD	1.0	ug/L	04-May-10	
Hexachlorobutadiene	87-68-3	BD	1.0	ug/L	04-May-10	
1,2,3-Trichlorobenzene	87-61-6	BD	1.0	ug/L	04-May-10	
Fluorobenzene	surrogate 462-06-6	99 % recovered			04-May-10	
Chlorobenzene-d5	surrogate 3114-55-4	100 % recovered			04-May-10	
Benzene D6	surrogate 71-43-2	96 % recovered			04-May-10	
Parafluorobromobenzene	surrogate 460-00-4	101 % recovered			04-May-10	



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Project Number: J1097144  
Project Manager: Mr. Sean Kennedy

Reported:  
12-May-10 13:40

### DPW-4 1004156-04 (Drinking Water)

Sampled: 27-Apr-10

#### Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Naphthalene	91-20-3	BD	0.50	ug/L	09-May-10	8270C	
2-Methylnaphthalene	91-57-6	BD	0.50	ug/L	09-May-10	8270C	
1-Methylnaphthalene	90-12-0	BD	0.50	ug/L	09-May-10	8270C	
Acenaphthylene	208-96-8	BD	0.50	ug/L	09-May-10	8270C	
Acenaphthene	83-32-9	BD	0.50	ug/L	09-May-10	8270C	
Fluorene	86-73-7	BD	0.50	ug/L	09-May-10	8270C	
Phenanthrene	85-01-8	BD	0.50	ug/L	09-May-10	8270C	
Anthracene	120-12-7	BD	0.50	ug/L	09-May-10	8270C	
Fluoranthene	206-44-0	BD	0.50	ug/L	09-May-10	8270C	
Pyrene	129-00-0	BD	0.50	ug/L	09-May-10	8270C	
Benzo (a) anthracene	56-55-3	BD	0.10	ug/L	09-May-10	8270C	
Chrysene	218-01-9	BD	0.50	ug/L	09-May-10	8270C	
Benzo (b) fluoranthene	205-99-2	BD	0.10	ug/L	09-May-10	8270C	
Benzo (k) fluoranthene	207-08-9	BD	0.50	ug/L	09-May-10	8270C	
Benzo (a) pyrene	50-32-8	BD	0.20	ug/L	09-May-10	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	ug/L	09-May-10	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	ug/L	09-May-10	8270C	
Benzo (g,h,i) perylene	191-24-2	BD	0.50	ug/L	09-May-10	8270C	

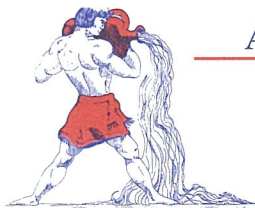
#### Semivolatile Organic Compounds

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Ethylene glycol	107-21-1	BD	1.50	mg/L	11-May-10	ASTM D3695-95	

#### Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Arsenic	7440-38-2	1	1	ug/L	05-May-10	200.8	
Barium	7440-39-3	9	1	ug/L	05-May-10	200.8	
Cadmium	7440-43-9	BD	1	ug/L	05-May-10	200.8	
Chromium	7440-47-3	6	1	ug/L	05-May-10	200.8	
Lead	7439-92-1	BD	1	ug/L	05-May-10	200.8	
Mercury	7439-97-6	BD	0.2	ug/L	05-May-10	200.8	
Selenium	7782-49-2	BD	1	ug/L	05-May-10	200.8	
Silver	7440-22-4	BD	1	ug/L	05-May-10	200.8	





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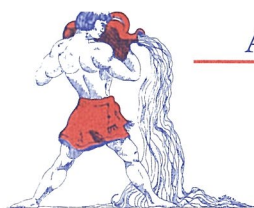
### DPW-4 1004156-04 (Drinking Water)

Sampled: 27-Apr-10

#### Ion Chromatography

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Chloride	16887-00-6	21.6	1.20	mg/L	28-Apr-10	300.0	
Sulfate as SO <sub>4</sub>	148-08-798	11.7	0.60	mg/L	28-Apr-10	300.0	





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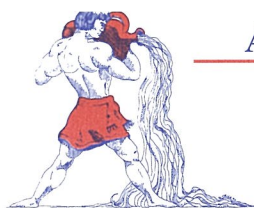
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### DPW-5 1004156-05 (Drinking Water)

Sampled: 27-Apr-10

#### Volatile Organic Compounds by EPA 524.2

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Dichlorodifluoromethane	75-71-8	BD	1.0	ug/L	04-May-10	
Chloromethane	74-87-3	BD	1.0	ug/L	04-May-10	
Vinyl chloride	75-01-4	BD	0.5	ug/L	04-May-10	
Bromomethane	74-83-9	BD	0.5	ug/L	04-May-10	
Chloroethane	75-00-3	BD	0.5	ug/L	04-May-10	
Trichlorofluoromethane	75-69-4	BD	1.0	ug/L	04-May-10	
Acetone	67-64-1	BD	13	ug/L	04-May-10	
Diethyl Ether	60-29-7	BD	13	ug/L	04-May-10	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BD	1.0	ug/L	04-May-10	
1,1-Dichloroethylene	75-35-4	BD	0.5	ug/L	04-May-10	
tert-Butyl alcohol	75-65-0	BD	5.0	ug/L	04-May-10	
Carbon disulfide	75-15-0	BD	1.0	ug/L	04-May-10	
Methylene Chloride	75-09-2	BD	1.3	ug/L	04-May-10	
trans-1,2-Dichloroethylene	156-60-5	BD	0.5	ug/L	04-May-10	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.5	ug/L	04-May-10	
1,1-Dichloroethane	75-34-3	BD	0.5	ug/L	04-May-10	
Diisopropyl Ether	108-20-3	BD	0.5	ug/L	04-May-10	
2,2-Dichloropropane	594-20-7	BD	1.5	ug/L	04-May-10	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	13	ug/L	04-May-10	
cis-1,2-Dichloroethene	156-59-2	BD	0.5	ug/L	04-May-10	
Ethyl tert-Butyl Ether	637-92-3	BD	0.5	ug/L	04-May-10	
Chloroform	67-66-3	BD	0.5	ug/L	04-May-10	
Bromochloromethane	74-97-5	BD	0.5	ug/L	04-May-10	
Tetrahydrofuran	109-99-9	BD	13	ug/L	04-May-10	
1,1,1-Trichloroethane	71-55-6	BD	0.5	ug/L	04-May-10	
1,1-Dichloropropene	563-58-6	BD	0.5	ug/L	04-May-10	
Carbon Tetrachloride	56-23-5	BD	0.5	ug/L	04-May-10	
1,2-Dichloroethane	107-06-2	BD	0.5	ug/L	04-May-10	
Benzene	71-43-2	BD	0.5	ug/L	04-May-10	
Tert-Amyl Methyl Ether	994-05-8	BD	1.0	ug/L	04-May-10	
Trichloroethylene	79-01-6	BD	0.5	ug/L	04-May-10	
1,2-Dichloropropane	78-87-5	BD	0.5	ug/L	04-May-10	
Dibromomethane	74-95-3	BD	0.5	ug/L	04-May-10	
Bromodichloromethane	75-27-4	BD	0.5	ug/L	04-May-10	
cis-1,3-Dichloropropene	10061-01-5	BD	0.5	ug/L	04-May-10	
Methyl Isobutyl Ketone	108-10-1	BD	13	ug/L	04-May-10	
Toluene	108-88-3	BD	0.5	ug/L	04-May-10	
trans-1,3-Dichloropropene	10061-02-6	BD	0.5	ug/L	04-May-10	
1,1,2-Trichloroethane	79-00-5	BD	0.5	ug/L	04-May-10	



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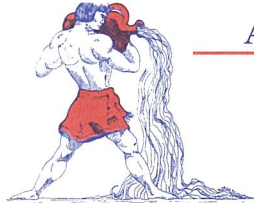
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### DPW-5 1004156-05 (Drinking Water)

Sampled: 27-Apr-10

#### Volatile Organic Compounds by EPA 524.2

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
1,3-Dichloropropane	142-28-9	BD	0.5	ug/L	04-May-10	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	13	ug/L	04-May-10	
Dibromochloromethane	124-48-1	BD	0.5	ug/L	04-May-10	
<b>Tetrachloroethylene</b>	127-18-4	<b>1.2</b>	0.5	ug/L	04-May-10	
1,2-Dibromoethane	106-93-4	BD	0.5	ug/L	04-May-10	
Chlorobenzene	108-90-7	BD	0.5	ug/L	04-May-10	
1,1,1,2-Tetrachloroethane	630-20-6	BD	0.5	ug/L	04-May-10	
Ethylbenzene	100-41-4	BD	0.5	ug/L	04-May-10	
m,p-Xylenes	108-38-3,106-42-3	BD	1.0	ug/L	04-May-10	
Styrene	100-42-5	BD	0.5	ug/L	04-May-10	
o-Xylene	95-47-6	BD	0.5	ug/L	04-May-10	
Bromoform	75-25-2	BD	0.5	ug/L	04-May-10	
1,1,1,2-Tetrachloroethane	79-34-5	BD	0.5	ug/L	04-May-10	
Isopropylbenzene	98-82-8	BD	0.5	ug/L	04-May-10	
1,2,3-Trichloropropane	96-18-4	BD	0.5	ug/L	04-May-10	
Bromobenzene	108-86-1	BD	0.5	ug/L	04-May-10	
n-Propylbenzene	103-65-1	BD	0.5	ug/L	04-May-10	
2-Chlorotoluene	95-49-8	BD	0.5	ug/L	04-May-10	
4-Chlorotoluene	106-43-4	BD	0.5	ug/L	04-May-10	
1,3,5-Trimethylbenzene	108-67-8	BD	0.5	ug/L	04-May-10	
tert-Butylbenzene	98-06-6	BD	0.5	ug/L	04-May-10	
1,2,4-Trimethylbenzene	95-63-6	BD	0.5	ug/L	04-May-10	
sec-Butylbenzene	135-98-8	BD	0.5	ug/L	04-May-10	
4-Isopropyltoluene	99-87-6	BD	0.5	ug/L	04-May-10	
1,3-Dichlorobenzene	541-73-1	BD	0.5	ug/L	04-May-10	
1,4-Dichlorobenzene	106-46-7	BD	0.5	ug/L	04-May-10	
n-Butylbenzene	104-51-8	BD	0.5	ug/L	04-May-10	
1,2-Dichlorobenzene	95-50-1	BD	0.5	ug/L	04-May-10	
1,2-Dibromo-3-chloropropane	96-12-8	BD	1.0	ug/L	04-May-10	
1,2,4-Trichlorobenzene	120-82-1	BD	1.0	ug/L	04-May-10	
1,3,5-Trichlorobenzene	108-70-3	BD	1.0	ug/L	04-May-10	
Naphthalene	91-20-3	BD	1.0	ug/L	04-May-10	
Hexachlorobutadiene	87-68-3	BD	1.0	ug/L	04-May-10	
1,2,3-Trichlorobenzene	87-61-6	BD	1.0	ug/L	04-May-10	
Fluorobenzene	surrogate 462-06-6	101 % recovered			04-May-10	
Chlorobenzene-d5	surrogate 3114-55-4	100 % recovered			04-May-10	
Benzene D6	surrogate 71-43-2	100 % recovered			04-May-10	
Parafluorobromobenzene	surrogate 460-00-4	102 % recovered			04-May-10	



# AQUARIAN ANALYTICAL INC.

## Laboratory Services

P.O. Box 186

Canterbury, N.H. 03224

Ph. 603-783-9097 • Fax 603-783-0360

Terracon  
77 Sundial Ave., Suite 401W  
Manchester NH, 03103

Project: Dover D.P.W. - Dover, N.H.  
Project Number: J1097144  
Project Manager: Mr. Sean Kennedy

Reported:  
12-May-10 13:40

### DPW-5 1004156-05 (Drinking Water)

Sampled: 27-Apr-10

#### Polycyclic Aromatic Hydrocarbons

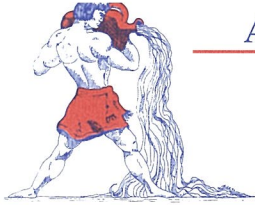
Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Naphthalene	91-20-3	BD	0.50	ug/L	09-May-10	8270C	
2-Methylnaphthalene	91-57-6	BD	0.50	ug/L	09-May-10	8270C	
1-Methylnaphthalene	90-12-0	BD	0.50	ug/L	09-May-10	8270C	
Acenaphthylene	208-96-8	BD	0.50	ug/L	09-May-10	8270C	
Acenaphthene	83-32-9	BD	0.50	ug/L	09-May-10	8270C	
Fluorene	86-73-7	BD	0.50	ug/L	09-May-10	8270C	
Phenanthrene	85-01-8	BD	0.50	ug/L	09-May-10	8270C	
Anthracene	120-12-7	BD	0.50	ug/L	09-May-10	8270C	
Fluoranthene	206-44-0	BD	0.50	ug/L	09-May-10	8270C	
Pyrene	129-00-0	BD	0.50	ug/L	09-May-10	8270C	
Benzo (a) anthracene	56-55-3	BD	0.10	ug/L	09-May-10	8270C	
Chrysene	218-01-9	BD	0.50	ug/L	09-May-10	8270C	
Benzo (b) fluoranthene	205-99-2	BD	0.10	ug/L	09-May-10	8270C	
Benzo (k) fluoranthene	207-08-9	BD	0.50	ug/L	09-May-10	8270C	
Benzo (a) pyrene	50-32-8	BD	0.20	ug/L	09-May-10	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	ug/L	09-May-10	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	ug/L	09-May-10	8270C	
Benzo (g,h,i) perylene	191-24-2	BD	0.50	ug/L	09-May-10	8270C	

#### Semivolatile Organic Compounds

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Ethylene glycol	107-21-1	BD	1.50	mg/L	11-May-10	ASTM D3695-95	

#### Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Arsenic	7440-38-2	BD	1	ug/L	05-May-10	200.8	
Barium	7440-39-3	3	1	ug/L	05-May-10	200.8	
Cadmium	7440-43-9	BD	1	ug/L	05-May-10	200.8	
Chromium	7440-47-3	1	1	ug/L	05-May-10	200.8	
Lead	7439-92-1	BD	1	ug/L	05-May-10	200.8	
Mercury	7439-97-6	BD	0.2	ug/L	05-May-10	200.8	
Selenium	7782-49-2	BD	1	ug/L	05-May-10	200.8	
Silver	7440-22-4	BD	1	ug/L	05-May-10	200.8	



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Project: Dover D.P.W. - Dover, N.H.  
Project Number: J1097144  
Project Manager: Mr. Sean Kennedy

Reported:  
12-May-10 13:40

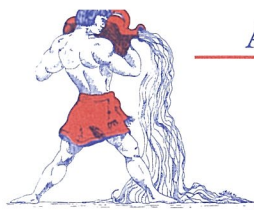
### DPW-5 1004156-05 (Drinking Water)

Sampled: 27-Apr-10

#### Ion Chromatography

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Chloride	16887-00-6	21.6	1.20	mg/L	28-Apr-10	300.0	
Sulfate as SO <sub>4</sub>	148-08-798	2.76	0.60	mg/L	28-Apr-10	300.0	





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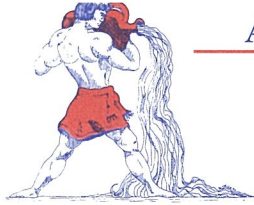
Reported:  
12-May-10 13:40

### DPW-6 1004156-06 (Drinking Water)

Sampled: 27-Apr-10

#### Volatile Organic Compounds by EPA 524.2

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Dichlorodifluoromethane	75-71-8	BD	1.0	ug/L	04-May-10	
Chloromethane	74-87-3	BD	1.0	ug/L	04-May-10	
Vinyl chloride	75-01-4	BD	0.5	ug/L	04-May-10	
Bromomethane	74-83-9	BD	0.5	ug/L	04-May-10	
Chloroethane	75-00-3	BD	0.5	ug/L	04-May-10	
Trichlorofluoromethane	75-69-4	BD	1.0	ug/L	04-May-10	
Acetone	67-64-1	BD	13	ug/L	04-May-10	
Diethyl Ether	60-29-7	BD	13	ug/L	04-May-10	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	BD	1.0	ug/L	04-May-10	
1,1-Dichloroethylene	75-35-4	BD	0.5	ug/L	04-May-10	
tert-Butyl alcohol	75-65-0	BD	5.0	ug/L	04-May-10	
Carbon disulfide	75-15-0	BD	1.0	ug/L	04-May-10	
Methylene Chloride	75-09-2	BD	1.3	ug/L	04-May-10	
trans-1,2-Dichloroethylene	156-60-5	BD	0.5	ug/L	04-May-10	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.5	ug/L	04-May-10	
1,1-Dichloroethane	75-34-3	BD	0.5	ug/L	04-May-10	
Diisopropyl Ether	108-20-3	BD	0.5	ug/L	04-May-10	
2,2-Dichloropropane	594-20-7	BD	1.5	ug/L	04-May-10	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	13	ug/L	04-May-10	
cis-1,2-Dichloroethene	156-59-2	BD	0.5	ug/L	04-May-10	
Ethyl tert-Butyl Ether	637-92-3	BD	0.5	ug/L	04-May-10	
Chloroform	67-66-3	BD	0.5	ug/L	04-May-10	
Bromochloromethane	74-97-5	BD	0.5	ug/L	04-May-10	
Tetrahydrofuran	109-99-9	BD	13	ug/L	04-May-10	
1,1,1-Trichloroethane	71-55-6	BD	0.5	ug/L	04-May-10	
1,1-Dichloropropene	563-58-6	BD	0.5	ug/L	04-May-10	
Carbon Tetrachloride	56-23-5	BD	0.5	ug/L	04-May-10	
1,2-Dichloroethane	107-06-2	BD	0.5	ug/L	04-May-10	
Benzene	71-43-2	BD	0.5	ug/L	04-May-10	
Tert-Amyl Methyl Ether	994-05-8	BD	1.0	ug/L	04-May-10	
Trichloroethylene	79-01-6	BD	0.5	ug/L	04-May-10	
1,2-Dichloropropane	78-87-5	BD	0.5	ug/L	04-May-10	
Dibromomethane	74-95-3	BD	0.5	ug/L	04-May-10	
Bromodichloromethane	75-27-4	BD	0.5	ug/L	04-May-10	
cis-1,3-Dichloropropene	10061-01-5	BD	0.5	ug/L	04-May-10	
Methyl Isobutyl Ketone	108-10-1	BD	13	ug/L	04-May-10	
Toluene	108-88-3	BD	0.5	ug/L	04-May-10	
trans-1,3-Dichloropropene	10061-02-6	BD	0.5	ug/L	04-May-10	
1,1,2-Trichloroethane	79-00-5	BD	0.5	ug/L	04-May-10	



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Project: Dover D.P.W. - Dover, N.H.  
Project Number: J1097144  
Project Manager: Mr. Sean Kennedy

Reported:  
12-May-10 13:40

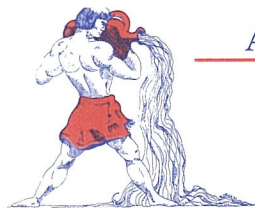
### DPW-6 1004156-06 (Drinking Water)

Sampled: 27-Apr-10

#### Volatile Organic Compounds by EPA 524.2

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
1,3-Dichloropropane	142-28-9	BD	0.5	ug/L	04-May-10	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	13	ug/L	04-May-10	
Dibromochloromethane	124-48-1	BD	0.5	ug/L	04-May-10	
Tetrachloroethylene	127-18-4	BD	0.5	ug/L	04-May-10	
1,2-Dibromoethane	106-93-4	BD	0.5	ug/L	04-May-10	
Chlorobenzene	108-90-7	BD	0.5	ug/L	04-May-10	
1,1,1,2-Tetrachloroethane	630-20-6	BD	0.5	ug/L	04-May-10	
Ethylbenzene	100-41-4	BD	0.5	ug/L	04-May-10	
m,p-Xylenes	108-38-3,106-42-3	BD	1.0	ug/L	04-May-10	
Styrene	100-42-5	BD	0.5	ug/L	04-May-10	
o-Xylene	95-47-6	BD	0.5	ug/L	04-May-10	
Bromoform	75-25-2	BD	0.5	ug/L	04-May-10	
1,1,2,2-Tetrachloroethane	79-34-5	BD	0.5	ug/L	04-May-10	
Isopropylbenzene	98-82-8	BD	0.5	ug/L	04-May-10	
1,2,3-Trichloropropane	96-18-4	BD	0.5	ug/L	04-May-10	
Bromobenzene	108-86-1	BD	0.5	ug/L	04-May-10	
n-Propylbenzene	103-65-1	BD	0.5	ug/L	04-May-10	
2-Chlorotoluene	95-49-8	BD	0.5	ug/L	04-May-10	
4-Chlorotoluene	106-43-4	BD	0.5	ug/L	04-May-10	
1,3,5-Trimethylbenzene	108-67-8	BD	0.5	ug/L	04-May-10	
tert-Butylbenzene	98-06-6	BD	0.5	ug/L	04-May-10	
1,2,4-Trimethylbenzene	95-63-6	BD	0.5	ug/L	04-May-10	
sec-Butylbenzene	135-98-8	BD	0.5	ug/L	04-May-10	
4-Isopropyltoluene	99-87-6	BD	0.5	ug/L	04-May-10	
1,3-Dichlorobenzene	541-73-1	BD	0.5	ug/L	04-May-10	
1,4-Dichlorobenzene	106-46-7	BD	0.5	ug/L	04-May-10	
n-Butylbenzene	104-51-8	BD	0.5	ug/L	04-May-10	
1,2-Dichlorobenzene	95-50-1	BD	0.5	ug/L	04-May-10	
1,2-Dibromo-3-chloropropane	96-12-8	BD	1.0	ug/L	04-May-10	
1,2,4-Trichlorobenzene	120-82-1	BD	1.0	ug/L	04-May-10	
1,3,5-Trichlorobenzene	108-70-3	BD	1.0	ug/L	04-May-10	
Naphthalene	91-20-3	BD	1.0	ug/L	04-May-10	
Hexachlorobutadiene	87-68-3	BD	1.0	ug/L	04-May-10	
1,2,3-Trichlorobenzene	87-61-6	BD	1.0	ug/L	04-May-10	
Fluorobenzene	surrogate 462-06-6	101 % recovered			04-May-10	
Chlorobenzene-d5	surrogate 3114-55-4	100 % recovered			04-May-10	
Benzene D6	surrogate 71-43-2	101 % recovered			04-May-10	
Parafluorobromobenzene	surrogate 460-00-4	101 % recovered			04-May-10	





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77 Sundial Ave., Suite 401W  
Manchester NH, 03103

Project: Dover D.P.W. - Dover, N.H.  
Project Number: J1097144  
Project Manager: Mr. Sean Kennedy

Reported:  
12-May-10 13:40

### DPW-6 1004156-06 (Drinking Water)

Sampled: 27-Apr-10

#### Polycyclic Aromatic Hydrocarbons

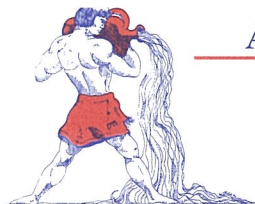
Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Naphthalene	91-20-3	BD	0.50	ug/L	09-May-10	8270C	
2-Methylnaphthalene	91-57-6	BD	0.50	ug/L	09-May-10	8270C	
1-Methylnaphthalene	90-12-0	BD	0.50	ug/L	09-May-10	8270C	
Acenaphthylene	208-96-8	BD	0.50	ug/L	09-May-10	8270C	
Acenaphthene	83-32-9	BD	0.50	ug/L	09-May-10	8270C	
Fluorene	86-73-7	BD	0.50	ug/L	09-May-10	8270C	
Phenanthrene	85-01-8	BD	0.50	ug/L	09-May-10	8270C	
Anthracene	120-12-7	BD	0.50	ug/L	09-May-10	8270C	
Fluoranthene	206-44-0	BD	0.50	ug/L	09-May-10	8270C	
Pyrene	129-00-0	BD	0.50	ug/L	09-May-10	8270C	
Benzo (a) anthracene	56-55-3	BD	0.10	ug/L	09-May-10	8270C	
Chrysene	218-01-9	BD	0.50	ug/L	09-May-10	8270C	
Benzo (b) fluoranthene	205-99-2	BD	0.10	ug/L	09-May-10	8270C	
Benzo (k) fluoranthene	207-08-9	BD	0.50	ug/L	09-May-10	8270C	
Benzo (a) pyrene	50-32-8	BD	0.20	ug/L	09-May-10	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	ug/L	09-May-10	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	ug/L	09-May-10	8270C	
Benzo (g,h,i) perylene	191-24-2	BD	0.50	ug/L	09-May-10	8270C	

#### Semivolatile Organic Compounds

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Ethylene glycol	107-21-1	BD	1.50	mg/L	11-May-10	ASTM D3695-95	

#### Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Arsenic	7440-38-2	1	1	ug/L	05-May-10	200.8	
Barium	7440-39-3	4	1	ug/L	05-May-10	200.8	
Cadmium	7440-43-9	BD	1	ug/L	05-May-10	200.8	
Chromium	7440-47-3	5	1	ug/L	05-May-10	200.8	
Lead	7439-92-1	BD	1	ug/L	05-May-10	200.8	
Mercury	7439-97-6	BD	0.2	ug/L	05-May-10	200.8	
Selenium	7782-49-2	BD	1	ug/L	05-May-10	200.8	
Silver	7440-22-4	BD	1	ug/L	05-May-10	200.8	



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Project Manager: Mr. Sean Kennedy

Reported:  
12-May-10 13:40

### DPW-6 1004156-06 (Drinking Water)

Sampled: 27-Apr-10

#### Ion Chromatography

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Chloride	16887-00-6	22.6	1.80	mg/L	28-Apr-10	300.0	
Sulfate as SO <sub>4</sub>	148-08-798	53.1	1.80	mg/L	28-Apr-10	300.0	

#### Notes and Definitions

BD Analyte result below the laboratory reporting limit

NR Not Reported

Soil sample results reported on a dry weight basis.



# Aquarian Analytical, Inc.

## Laboratory Services

153 West Road  
 Canterbury, NH 03224  
 Phone: (603)783-9097  
 Fax: (603)783-0360  
 E-Mail: aquarianlab@comcast.net

Turnaround Requirements (check one)				Project Information																																	
<b>RUSH SAMPLES NEED PRIOR APPROVAL</b> <input type="checkbox"/> Same day turnaround (150% upcharge) <input type="checkbox"/> 24 hour turnaround (100% upcharge) <input type="checkbox"/> 48 hour turnaround (50% upcharge) <input type="checkbox"/> 72 hour turnaround (25% upcharge) <input type="checkbox"/> Normal turnaround				Project #: <b>J1097144</b> Project Name: <b>Dover DPW</b> Town/Site: <b>Dover, NH</b> Sampler: <b>Meghann Emmert</b> Company: <b>Terracon</b> BID Reference:						Project Manager: <b>Sean Kennedy</b> Report to: <b>Terracon</b> Invoice to: <b>Terracon</b> Phone: <b>603-647-4720</b> E-Mail: <b>SKennedy@terracon.com</b>																											
Sample Information				VOC's-SVOC's						TPH		Metals		TCLP			Other (list)																				
AAI Work Order #	Sample ID	Sample Collection Time	Sample Matrix	Number of Containers	EPA 524.2 Drinking Water	EPA 8260 w/ oxygenates	EDB	1,4 Dioxane	BTEX / MTBE	BTEX+MTBE+Naphthalene	Chlorinated only	EPA 8270 A-B/N	EPA 8270 PAH	EPA 8015M Gasoline	EPA 8100M Fuel Oil	Fingerprint	RCRA 8	Field Filtered:	Lab Filtered:	Total:	Zero Headspace Extraction (ZHE)	TCLP Pesticides	TCLP Herbicides	TCLP Metals	PCB	EPA SW846-7 Reactivity	EPA 1010 Flashpoint / Ignitability	EPA 150.1 / 9045 pH	Alkalinity	Nitrate	Sulfate	Chloride	Ethylene Glycol				
1004156-01	DPW-1	1258	GW	9	X							X					X																				
-02	DPW-2	1320		7	X							X					X																				
-03	DPW-3	1400		7	X							X					X																				
-04	DPW-4	1430		7	X							X					X																				
-05	DPW-5	1509		7	X							X					X																				
-06	DPW-6	1515	GW	7	X							X					X																				
Relinquished by: <i>[Signature]</i>				Date: <i>[Blank]</i>				Received by: <i>[Blank]</i>														Notes: <b>Metal Samples Field Filtered</b>															
Relinquished by: <i>[Signature]</i>				Date: <b>4/27/10</b>				Received by: <i>[Blank]</i>																													
Relinquished by: <i>[Signature]</i>				Date: <b>28-APR-10</b>				Received by: <i>[Signature]</i>																			Temperature <b>3</b> °C										
																						Is this N.H. "ODD Fund" related? Y <input type="checkbox"/> N <input checked="" type="checkbox"/>															

Aquarian Analytical will subcontract those tests we do not perform with your prior approval

Please keep samples on ice from the time of collection

Sample Receipt Conditions & Client Conversations

AAI #s 1004156 Date 4-28-10 Time 1640

Client Terraccon Contact Sean Kennedy

Project Dover DPW - Dover, NH

Sample received at 3 °C

4-28-10 1645 Left voice mail message

Discrepancy History shows that Chloride was required... Left message - for Sean to call if this test may have been inadvertently omitted on COC...

4-28-10 1650

Resolution Sean called back and said to run samples for Chloride... Was accidentally not checked off on COC...

Changes

# Sample Receipt Conditions & Client Conversations

AAI #s 1004156 Date 4/28/10 Time 11:40

Client Ferrucci Contact Sean Kennedy

Project Dover Spw

Sample received at 3 °C

Discrepancy possible the client wants 525 but checked off Pak

Resolution confirmed with Sean Kennedy they do want Pak.

Changes

