

## Exposure Unit No. 2 Arsenic and Perchlorate Results

Spring Valley FUDS  
Washington, DC

### Legend

- MW-24 Well ID**
- USACE Monitoring Wells**
- USACE Piezometer**
- Multiport Well**
- MW: Monitoring Well
- MP: Multiport Well
- PZ: Piezometer
- Spring Valley Boundary**
- Pit**
- Trench**
- Building**
- Stream or Creek**
- Topography (USACE)**
- 50-Foot Contour**
- 10-Foot Contour**
- 2-Foot Contour**
- Topography (USGS)**
- 50-Foot Contour**
- 10-Foot Contour**
- Fault (Fleming, et al. 1994)**

**Sampling Location, Most Recent Sampling Event**

All concentrations in ug/L  
 FD = Field Duplicate  
 ND = Non Detection  
 NT = Not Tested  
 J = Estimated Concentration  
 (a) = Samples collected as grab samples (not low flow) during the Kreeger Hall area soil boring program.

MCL for Arsenic = 10 ug/L (ppb)  
 Interim Drinking Water Health Advisory (DWHA) for Perchlorate = 15 ug/L (ppb)

**Detections above MCL or DWHA**

Original Scale: 1:14,400  
 Date: 3/26/2015  
 Revised: 10/1/2018  
 GIS: AER  
 PM: BE  
 G:\Projects\SpringValley\mxd\2018\ EU2\_Arsenic\_perchlorate\_AmerU\_20181001\_11x17  
 Map Source: Project base map, c.2004.

MW-24		
Date	Arsenic	Perchlorate
04/23-29/15	3.7	2.13
06/30/14	4.2	1.69
12/12/13	1.8	ND
12/12/13 FD	1.7	ND
04/30/13	16.8	ND
02/06/12	7.9	1.6 J
11/07/11	3.9	2.4
08/02/11	4.6	3
05/17/11	3.7	2.3
11/02/09	5 J	3.1
06/13/07	9.3 J	18.5
07/11/06	10.5	62.6
12/22/05	10.4	70

MW-25		
Date	Arsenic	Perchlorate
04/23-29/15	4.2	2.87
04/23-29/15 FD	4.3	NT
06/30/14	4.2	4.05
12/11/13	6.7	4.04
04/30/13	4.5	3.12
02/06/12	2.2 J	ND
11/07/11	3	2.5
08/02/11	3	2.8
05/10/11	3.1	2.9
11/03/09	8.4 J	25
11/03/09 FD	8.2 J	23
06/13/07	8.1 J	74.1
07/11/06	9.5 J	124
12/22/05	5 J	60

MW-45S		
Date	Arsenic	Perchlorate
04/23-29/15	NT	2.42
09/16/14	1.2	2.55
07/01/14	1.8	5.74
03/20/14	1.2	5.86
12/13/13	1.5	1.28
05/03/13	0.53 J	31.1
05/03/13 FD	0.32 J	30.9
09/06/12	ND	6

  

MW-45D		
Date	Arsenic	Perchlorate
04/23-29/15	NT	ND
09/16/14	3	0.22 J
07/01/14	1.5	ND
03/20/14	1.3	ND
12/12/13	1.3	5.3
12/12/13 FD	1.4	5.26
05/03/13	ND	54.3
05/03/13 FD	0.16 J	52.9
09/06/12	ND	3.6

MW-44		
Date	Arsenic	Perchlorate
04/23-29/15	NT	39.2
09/16/14	0.55 J	40.1
07/01/14	1.2	49.8
03/20/14	0.69 J	42.3
03/20/14 FD	0.78 J	40.5
12/12/13	0.75 J	40.2
12/12/13 FD	0.85 J	39.8
04/29/13	0.15 J	40.5
09/06/12	ND	35
9/6/12 FD	ND	36
03/29/12	ND	34
03/29/12 FD	ND	33

MP2-1			MP2-5		
Date	Arsenic	Perchlorate	Date	Arsenic	Perchlorate
04/23-29/15	5.6	3.08	04/23-29/15	11.3	7.21
06/30/14	6.9	1.39	07/01/14	9.8	ND
06/30/14 FD	6.65	NT	12/11/13	10.3	5.07
12/11/13	6.6	3.08	05/13/13	9.1	2.67
04/30/13	7.6	5.82	07/20/12	14	26
07/20/12	8.4	6.3	7/20/12 FD	15	24
05/03/12	7.4	4.5	05/03/12	15	26
03/30/12	7.5	5.8	03/30/12	13	24
3/30/2012 FD	7.6	7			

  

MP2-2			MP2-6		
Date	Arsenic	Perchlorate	Date	Arsenic	Perchlorate
04/23-29/15	10	4.05	04/23-29/15	11.6	8.11
06/30/14	12.4	3.84	07/01/14	10.8	ND
12/11/13	11	0.403	12/11/13	10.2	2.43
12/11/13 FD	7.1	NT	05/13/13	11	9.05
05/13/13	12.6	9.74	07/20/12	16	25
07/20/12	16	12	05/03/12	17	25
05/03/12	15	12	05/03/12 FD	17	26
03/30/12	15	12	03/30/12	15	27

  

MP2-3			MP2-7		
Date	Arsenic	Perchlorate	Date	Arsenic	Perchlorate
04/23-29/15	9.5	2.06	04/23-29/15	10	2.98
07/01/14	13.7	0.783	07/01/14	11.8	0.245 J
12/11/13	15.2	6.89	12/11/13	12	8.18
05/13/13	11	2.57	05/03/13	12	16.6
07/20/12	18	18	07/20/12	16	24
05/03/12	18	17	05/03/12	17	25
03/30/12	15	17	03/30/12	14	20

  

MP2-4			MP2-8		
Date	Arsenic	Perchlorate	Date	Arsenic	Perchlorate
04/23-29/15	6.4	1.5 J	04/23-29/15	9.7	8.44
07/01/14	7.6	ND	07/01/14	11.9	0.917
12/11/13	9.9	8.09	12/11/13	10.3	3.67
05/13/13	9.2	1.57 J	05/13/13	12.6	17.9
07/20/12	12	25	07/20/12	15	25
05/03/12	15	25	05/03/12	16	24
03/30/12	12	21	03/30/12	14	24

PZ-4S		
Date	Arsenic	Perchlorate
04/23-29/15	NT	4.49
09/16/14	5.7	4.16
09/16/14 FD	5.5	4.44
07/02/14	6.2	8.58
03/20/14	2.8	10.9
12/13/13	3.6	6.75
07/24/13	1.4	ND
07/24/13 FD	1.5	ND
05/03/13	0.22 J	5.57
02/08/12	2.4 J	28
11/09/11	ND	25
08/04/11	ND	19
7/28/2011 (a)	NT	18
05/16/11	2.6 J	30
11/10/09	NT	50
06/13/07	ND	146
07/07/06	ND	71.8

  

PZ-4D		
Date	Arsenic	Perchlorate
04/23-29/15	NT	16.1
09/16/14	6.1	13.8
07/02/14	7.8	16.7
03/20/14	3.9	44.5
12/13/13	1.8	39.8
07/24/13	1.5	5.59
05/03/13	NT	NT
04/09/12	NT	36
02/07/12	2.7 J	39
11/08/11	ND	45
08/05/11	ND	39
7/28/2011 (a)	NT	9.8
05/16/11	2 J	39
11/11/09	NT	41
06/13/07	ND	41
07/07/06	0.6 J	34.7

