Blades Groundwater Site
Table 1
Public Supply Well Samples
PFAS and Inorganic Analytical Summary Tables

Sample ID:		PW-1		PW-2		PW3		PW4	
CLP Sample Number:		C0AA0		C0AA1		C0AA2		C0AA3	
Units:		ng/L		ng/L		ng/L		ng/L	
Sample Date:		2/12/2018		2/12/2018		2/12/2018		2/12/2018	
Sample Type:		Field Sample		Field		Field		Field	
PFCs	Benchmark	Result	Q	Result	Q	Result	Q	Result	Q
PFOS (Perfluorooctanesulfonic acid)	70[1]	**140**	J+	**53**		**210**		**220**	
PFOA (Perfluorooctanoic acid)	70[1]	**20**	J+	**26**		**19**	J	**18**	J
PFNA (Perfluorononanoic acid)	NL	46	J+	26		43		43	
PFHxS (Perfluorohexanesulfonic acid)	NL	29	J	20	J	29	J	31	
PFHpA (Perfluoroheptanoic acid)	NL	7.3	J	9.0	J	7.1	J	6.6	J
PFBS (Perfluorobutanesulfonic acid)	40,000[2]	89	U	89	U	90	U	91	U

Sample ID:		PW-1		PW-2		PW3		TBW-01	
CLP Sample Number:		C0AN6		C0AN4		C0AN3		C0AJ2	
Units:		ng/L		ng/L		ng/L		ng/L	
Sample Date:		11/5/2018		11/5/2018		11/5/2018		11/6/2018	
Sample Type:		Field Sample		Field		Field		Field	
PFCs	Benchmark	Result	Q	Result	Q	Result	Q	Result	Q
PFOS (Perfluorooctanesulfonic acid)	70[1]	**43**		27		**160**		2.7	
PFOA (Perfluorooctanoic acid)	70[1]	**27**		24		**14**		2.4	J
PFNA (Perfluorononanoic acid)	NL	14		20		36		1.9	U
PFHxS (Perfluorohexanesulfonic acid)	NL	12		3.8		25		1.4	J
PFHpA (Perfluoroheptanoic acid)	NL	11		7.7		4.7		2.9	U
PFBS (Perfluorobutanesulfonic acid)	40,000[2]	13		3		6.3		1.6	J

Notes:
ng/l = nanogram per liter
[1] PFOS and PFOA results compared to EPA's combined HAL (EPA, 2016)
[2] PFBS results compared to EPA RSLs TR= 1E-06 HQ 0.1 for tap water (EPA, 2018)
Red values indicate 3x background values (TBW-01)
Bold values indicate exceedance of benchmark
J = Reported value is estimated; actual value may be higher or lower
NL = No listed value
Q = Qualifier
RSL = Regional Screening Level
U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is

Blades Groundwater Site
Table 1
Public Supply Well Samples
PFAS and Inorganic Analytical Summary Tables

Sample ID:			TBW-01		PW-1		PW-2		PW3	
CLP Number:			MC0AJ2		MC0AN6		MC0AN4		MC0AN3	
Units:			µg/L		µg/L		µg/L		µg/L	
Sample Date:			11/6/2018		11/5/2018		#######		11/5/2018	
			Field							
Metals:	MCL (µg/L)	RSL Tapwater (µg/L)	Result	Q						
Aluminum	NL	2000	60.8	J	20	UJ	24.9	J	3.8	J
Antimony	6	0.78	2	U	2	U	2	U	2	U
Arsenic	10	0.052	1	U	1	U	1	U	1	U
Barium	2000	380	249	J	103	J	164	J	107	J
Berryllium	4	2.5	0.49	J	1	U	0.6	J	0.21	J
Cadmium	NL	NL	0.27	J	0.082	J	0.21	J	1	U
Calcium	NL	NL	7,380	J	12,500	J	7,990	J	10,700	J
Chromium	100[1]	2200[2]	0.74	J	0.64	J	0.56	J	0.7	J
Cobalt	NL	0.6	**20.1**		**4.1**		**4.7**		**2.3**	
Copper	1300	80	0.39	J	6.4		61.7		7.7	
Iron	NL	1400	171	J	1,090		537		32.9	J
Lead*	15	15	0.21	J	0.92	J	12.6		0.19	J
Magnesium	NL	NL	3,030	J	3,000	J	2,450	J	2,140	J
Manganese	NL	43	**176**	J	**109**		**93**		31.9	
Mercury	2	0.063	0.2	U	0.2	U	0.2	U	0.2	U
Nickel	NL	39	8.1		1.5		5.4		2	
Potassium	NL	NL	4,010		3,700		3,870		3,400	
Selenium	50	10	5	U	5	U	1.3	J	1.4	J
Sodium	NL	NL	5,310	J	31,400	J	7,220	J	7,530	J
Thallium	2	0.02	0.074	J	0.032	J	0.026	J	0	J
Vanadium	NL	8.6	5	U	5	U	5	U	5	U
Zinc	NL	600	41.1		44.9		254		8.3	
Cyanide	200	0.15	10	U	10	U	10	U	10	U
Hexavalent Chromium	100[1]	0.035[3]	0.03	U	0.03	U	0.011	J	0.03	U

Notes:
Data compared to EPA MCLs (EPA, 2009) and EPA RSLs for tapwater TR= 1E-06 HQ 0.1 (EPA, 2018)
Bold values indicate exceedance of tapwater RSL; highlighted values indicate exceedance of MCL
Red values indicate 3x background values TBW-01 (or above background RDL if background is non-detect)
[1] There is no RSL for total chromium; values shown are for chromium III
[2] There is no RSL for lead in soil; however, EPA recommends soil with lead concentrations less than 400 mg/kg is safe for reside
µg/L = micrograms per liter
J = Reported value is estimated; actual value may be higher or lower
MCLs = Maximum Contaminant Level
NL = No listed value
Q = Qualifier
RSL = Regional Screening Level
U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit

Blades Groundwater Site
Table 2
Residential Well Samples
PFAS Analytical Summary Table

Sample ID:		RW-100		RW-103		RW-106		RW-115		RW-118		RW-121		RW-124	
CLP Sample Number:		C0AB0		C0AC9		C0AC3		C0AL4		C0AG2		C0AC8		C0AC6	
Units:		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L	
Sample Date:		2/15/2018		2/15/2018		2/15/2018		2/27/2018		2/19/2018		2/15/2018		2/15/2018	
Sample Type:		Field Sample		Field		Field Sample		Dup of GW-		Field Sample		Field Sample		Field Sample	
PFCs	Benchmark	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
PFOS (Perfluorooctanesulfonic acid)	70[1]	38	U	35	U	37	U	44		36	UJ	37	U	27	J
PFOA (Perfluorooctanoic acid)	70[1]	19	U	18	U	9.4	J	3.7	J	3.7	J	19	U	20	U
PFNA (Perfluorononanoic acid)	NL	19	U	18	U	18	U	17	U	18	UJ	19	U	20	U
PFHxS (Perfluorohexanesulfonic acid)	NL	28	U	26	U	28	U	25	U	27	UJ	28	U	30	U
PFHpA (Perfluoroheptanoic acid)	NL	9.4	U	8.8	U	9.2	U	1.6	J	9.1	UJ	9.4	U	10	U
PFBS (Perfluorobutanesulfonic acid)	40,000[2]	84	U	79	U	83	U	76	U	82	UJ	84	U	19	J

Sample ID:		RW-127		RW-130		RW-133		RW-139		RW-142		RW-148		RW-151	
CLP Sample Number:		C0AC5		C0AC7		C0AC4		C0AD7		C0AM2		C0AL1		C0AF0	
Units:		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L	
Sample Date:		2/15/2018		2/15/2018		2/15/2018		2/16/2018		2/28/2018		2/22/2018		2/16/2018	
Sample Type:		Field Sample		Field		Field Sample		Field		Field Sample		Field Sample		Field Sample	
PFCs	Benchmark	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
PFOS (Perfluorooctanesulfonic acid)	70[1]	40	U	40	U	37	U	36	U	35		36	U	36	U
PFOA (Perfluorooctanoic acid)	70[1]	20	U	20	U	18	U	18	U	23		18	U	18	U
PFNA (Perfluorononanoic acid)	NL	20	U	20	U	18	U	18	U	14	J	18	U	18	U
PFHxS (Perfluorohexanesulfonic acid)	NL	30	U	30	U	27	U	27	U	7.6	J	27	U	27	U
PFHpA (Perfluoroheptanoic acid)	NL	10	U	9.9	U	9.2	U	8.9	U	9.9		8.9	U	9	U
PFBS (Perfluorobutanesulfonic acid)	40,000[2]	90	U	89	U	82	U	81	U	78	U	80	U	81	U

Sample ID:		R-155		RW-158		RW-167		RW-170		RW-173		RW-176		RW-179	
CLP Sample Number:		C0AD4		C0AD5		C0AF1		C0AF2		C0AF3		C0AF4		C0AF5	
Units:		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L	
Sample Date:		2/15/2018		2/15/2018		2/16/2018		2/16/2018		2/16/2018		2/16/2018		2/16/2018	
Sample Type:		Field Sample		Field		Field Sample		Dup of GW-		Field Sample		Field Sample		Field Sample	
PFCs	Benchmark	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
PFOS (Perfluorooctanesulfonic acid)	70[1]	39	U	42	U	21	J	**350**		57		39	UJ	39	U
PFOA (Perfluorooctanoic acid)	70[1]	19	U	21	U	7.7	J	**14**	J	2.6	J	20	UJ	20	U
PFNA (Perfluorononanoic acid)	NL	19	U	21	U	17	U	17	U	18	U	20	UJ	20	U
PFHxS (Perfluorohexanesulfonic acid)	NL	29	U	31	U	26	U	6.1	J	27	U	29	UJ	29	U
PFHpA (Perfluoroheptanoic acid)	NL	9.6	U	10	U	3.5	J	6.4	J	9.1	U	9.8	UJ	9.8	U
PFBS (Perfluorobutanesulfonic acid)	40,000[2]	87	U	94	U	78	U	50	J	82	U	88	UJ	88	U

Blades Groundwater Site
Table 2
Residential Well Samples
PFAS Analytical Summary Table

no shading is shallow

blue intermediate
orange is deep

green is unknown depth

Blades Groundwater Site
Table 2
Residential Well Samples
PFAS Analytical Summary Table

Sample ID:		RW-182		RW-185		RW-185		RW-188		RW-191		RW-194		RW-197	
CLP Sample Number:		C0AF6		C0AF7		C0AX1		C0AF8		C0AJ0		C0AJ1		C0AJ2	
Units:		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L	
Sample Date:		2/16/2018		2/16/2018		5/2/2018		2/16/2018		2/19/2018		2/19/2018		2/19/2018	
Sample Type:		Field Sample		Field		Field Sample		Field		Field Sample		Field Sample		Field Sample	
PFCs	Benchmark	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
PFOS (Perfluorooctanesulfonic acid)	70[1]	**280**	J-	40	U	16	J	39	U	34	U	15	J	**180**	
PFOA (Perfluorooctanoic acid)	70[1]	**18**	J	20	U	8.9	J	20	U	4.2	J	7.5	J	**16**	J
PFNA (Perfluorononanoic acid)	NL	20	UJ	20	U	8.6	J	20	U	17	U	17	U	18	U
PFHxS (Perfluorohexanesulfonic acid)	NL	7.9	J	30	U	15	J	30	U	26	U	25	U	7.9	J
PFHpA (Perfluoroheptanoic acid)	NL	7.7	J	9.9	U	4.5	J	9.9	U	1.6	J	3.5	J	6.5	J
PFBS (Perfluorobutanesulfonic acid)	40,000[2]	64	J	89	U	43	J	89	U	78	U	76	U	66	J

Sample ID:		RW-200		RW-203		RW-206		RW-209		RW-209		RW-212		RW-215	
CLP Sample Number:		C0AJ3		C0AK6		C0AH6		C0AH9		C0B52		C0AH7		C0AH8	
Units:		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L	
Sample Date:		2/19/2018		2/22/2018		2/19/2018		2/19/2018		7/11/2018		2/19/2018		2/19/2018	
Sample Type:		Field Sample		Sample		Field Sample		Sample		Field Sample		02		Field Sample	
PFCs	Benchmark	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
PFOS (Perfluorooctanesulfonic acid)	70[1]	34	U	8	J	**44**	J	33	J	**32**	J	**60**	J	**52**	
PFOA (Perfluorooctanoic acid)	70[1]	17	U	8	J	**35**	J	19	J	**40**		**24**	J	**47**	
PFNA (Perfluorononanoic acid)	NL	17	U	16	J	15	J	18	U	19	U	8.8	J	17	
PFHxS (Perfluorohexanesulfonic acid)	NL	26	U	7.5	J	6.6	J	8.3	J	29	U	5.1	J	7	
PFHpA (Perfluoroheptanoic acid)	NL	8.6	U	9		22	J	27	U	12		14	J	33	
PFBS (Perfluorobutanesulfonic acid)	40,000[2]	78	U	81	U	77	UJ	80	U	87	U	75	UJ	77	UJ

Sample ID:		RW-218		RW-245		RW-248		RW-251		RW-254		RW-257		RW-260	
CLP Sample Number:		C0AG0		C0AJ6		C0AK8		C0AK5		C0AK7		C0AK9		C0AL0	
Units:		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L	
Sample Date:		2/16/2018		2/22/2018		2/22/2018		2/22/2018		2/22/2018		2/22/2018		2/22/2018	
Sample Type:		Field Sample		Field		Field Sample		Field		Field Sample		Field Sample		Field Sample	
PFCs	Benchmark	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
PFOS (Perfluorooctanesulfonic acid)	70[1]	35	U	35	U	35	U	34	U	35	U	36	U	36	U
PFOA (Perfluorooctanoic acid)	70[1]	18	U	17	U	2.6	J	17	U	18	U	18	U	18	U
PFNA (Perfluorononanoic acid)	NL	18	U	17	U	18	U	17	U	18	U	18	U	18	U
PFHxS (Perfluorohexanesulfonic acid)	NL	26	U	26	U	26	U	26	U	26	U	27	U	27	U
PFHpA (Perfluoroheptanoic acid)	NL	8.8	U	8.7	U	8.8	U	8.6	U	8.8	U	8.9	U	8.9	U
PFBS (Perfluorobutanesulfonic acid)	40,000[2]	79	U	79	U	79	U	78	U	79	U	80	U	80	U

Blades Groundwater Site
Table 2
Residential Well Samples
PFAS Analytical Summary Table

I		D		
2.6		2.7		8.1
5.9	U	2.4	J	7.2
0.47	J	1.9	U	1.41
2	U	1.4	J	4.2
3	U	2.9	U	3
1	J	1.6	J	4.8

Blades Groundwater Site
Table 2
Residential Well Samples
PFAS Analytical Summary Table

Sample ID:		RW-263		RW-269		RW-272		RW-275		RW-293		RW-314		RW-323	
CLP Sample Number:		C0AL2		C0AL6		C0AM0		C0AM1		C0AM6		C0AN9		C0AP4	
Units:		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L	
Sample Date:		2/27/2018		2/27/2018		2/28/2018		2/28/2018		3/9/2018		4/3/2018		4/3/2018	
Sample Type:		Field Sample		Field		Field Sample		Field		Field Sample		Field Sample		Dup of GW-	
PFCs	Benchmark	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
PFOS (Perfluorooctanesulfonic acid)	70[1]	36	U	34	U	35	U	51		37	U	37	U	36	U
PFOA (Perfluorooctanoic acid)	70[1]	18	U	2.4	J	2.2	J	5	J	19	U	18	U	3.3	J
PFNA (Perfluorononanoic acid)	NL	18	U	17	U	18	U	18	U	19	U	18	U	18	U
PFHxS (Perfluorohexanesulfonic acid)	NL	27	U	25	U	27	U	26	U	28	U	28	U	27	U
PFHpA (Perfluoroheptanoic acid)	NL	9	U	8.4	U	8.8	U	1.7	J	9.3	U	9.2	U	9.1	U
PFBS (Perfluorobutanesulfonic acid)	40,000[2]	81	U	76	U	80	U	79	U	83	U	83	U	82	U

Sample ID:		RW-332		RW-341		RW-365		RW-368		RW-374		RW-392		RW-398	
CLP Sample Number:		C0AP2		C0AN6		C0AQ8		C0AR0		C0AP0		C0AN7		C0AP1	
Units:		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L	
Sample Date:		4/3/2018		4/3/2018		4/4/2018		4/4/2018		4/3/2018		4/3/2018		4/3/2018	
Sample Type:		Field Sample		Field		Field Sample		Field		Field Sample		Field Sample		Field Sample	
PFCs	Benchmark	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
PFOS (Perfluorooctanesulfonic acid)	70[1]	36	U	37	U	37	U	36	U	37	U	37	U	23	J
PFOA (Perfluorooctanoic acid)	70[1]	18	U	19	U	18	U	18	U	19	U	18	U	27	
PFNA (Perfluorononanoic acid)	NL	18	U	19	U	18	U	18	U	19	U	18	U	18	U
PFHxS (Perfluorohexanesulfonic acid)	NL	27	U	28	U	27	U	27	U	28	U	27	U	27	U
PFHpA (Perfluoroheptanoic acid)	NL	9.1	U	9.3	U	9.1	U	8.9	U	9.3	U	9.1	U	10	
PFBS (Perfluorobutanesulfonic acid)	40,000[2]	82	U	84	U	82	U	80	U	84	U	82	U	15	J

Notes:
ng/l = nanogram per liter
[1] PFOS and PFOA results compared to EPA's combined HAL (EPA, 2016)
[2] PFBS results compared to EPA RSLs TR= 1E-06 HQ 0.1 for tap water (EPA, 2018)
Red values indicate 3x background values (SIGW-19)
Bold values indicate exceedance of benchmark
J = Reported value is estimated; actual value may be higher or lower
NL = No listed value
Q = Qualifier
RSL = Regional Screening Level
U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is

Sample ID Notes:
No highlight indicates shallow well (less than 20 feet bgs)
Blue highlight indicates intermiediate well (between 20 and 60 feet bgs)
Orange highlight indicates deep well (greater than 60 feet bgs)
Green highlight indicates well depth not known

Blades Groundwater Site
Table 2
Residential Well Samples
PFAS Analytical Summary Table

Blades Groundwater Site
Table 3
Existing Procino Plating Monitoring Well Samples
PFAS Analytical Summary Table

Sample ID:		GW-01		DMW-01		GW-02		GW-02D		DMW-02		GW-03	
CLP Sample Number:		C0AD2		C0AG0		C0AD8		C0AF5		C0AF3		C0AD9	
Units:		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L	
Sample Date:		10/9/2018		10/10/2018		10/9/2018		10/9/2018		10/9/2018		10/8/2018	
Sample Type:		Field Sample		Field Sample		Field Sample		Dup of GW-		Field Sample		Field Sample	
PFCs	Benchmark	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
PFOS (Perfluorooctanesulfonic acid)	70[1]	**183**		**122**		**2,820**		**2,620**		**74.2**		**156**	
PFOA (Perfluorooctanoic acid)	70[1]	10.1		16.3		8.62	U	8.62	U	16.6		29.1	
PFNA (Perfluorononanoic acid)	NL	8.62	U	8.77	U	8.62	U	8.62	U	8.93	U	8.93	U
PFHxS (Perfluorohexanesulfonic acid)	NL	8.62	U	9.09		15.5		16.7		8.93	U	33.8	
PFHpA (Perfluoroheptanoic acid)	NL	8.62	U	8.77	U	19.8		19.1		8.93	U	10.9	
PFBS (Perfluorobutanesulfonic acid)	40,000[2]	14.5		52.2		62.4		60.6		93.6		10.7	

Sample ID:		DMW-03		GW-04		GW-05		GW-07		GW-08		GW-09	
CLP Sample Number:		C0AF4		C0AE0		C0AE1		C0AE3		C0AE4		C0AE5	
Units:		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L	
Sample Date:		10/10/2018		10/8/2018		10/8/2018		10/10/2018		10/11/2018		10/9/2018	
Sample Type:		Field Sample		Field Sample		Field Sample		Field Sample		Field Sample		Field Sample	
PFCs	Benchmark	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
PFOS (Perfluorooctanesulfonic acid)	70[1]	**151**		**73.2**		**215**		**347**		**155**		**241**	
PFOA (Perfluorooctanoic acid)	70[1]	20.9		33.5		27.9		35.1		10.3	J	18.8	J
PFNA (Perfluorononanoic acid)	NL	8.77	U	8.93	U	8.62		11.6		8.77	UJ	8.62	UJ
PFHxS (Perfluorohexanesulfonic acid)	NL	17.3		42		8.62		8.93	U	8.77	U	8.62	U
PFHpA (Perfluoroheptanoic acid)	NL	8.77	U	17.9		17.5		12		8.77	UJ	8.62	UJ
PFBS (Perfluorobutanesulfonic acid)	40,000[2]	200		68.7		31.1		32.2		25.2		31.5	

Sample ID:		GW-10		GW-11		GW-12		GW-13		GW-14		GW-15	
CLP Sample Number:		C0AE6		C0AE7		C0AE8		C0AE9		C0AF0		C0AF1	
Units:		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L	
Sample Date:		10/11/2018		10/11/2018		10/11/2018		11/8/2018		10/11/2018		10/10/2018	
Sample Type:		Field Sample		Field Sample		Field Sample		Field Sample		Field Sample		Field Sample	
PFCs	Benchmark	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
PFOS (Perfluorooctanesulfonic acid)	70[1]	**1,300**		**228**		**156**		**265**		**465**		**190**	
PFOA (Perfluorooctanoic acid)	70[1]	33	J	25	J	14.8	J	8.62	UJ	33.2	J	22.4	J
PFNA (Perfluorononanoic acid)	NL	8.62	UJ	8.77	UJ	8.93	UJ	8.62	UJ	8.93	UJ	8.77	UJ
PFHxS (Perfluorohexanesulfonic acid)	NL	8.62	U	11.8		8.93	U	8.62	U	37		8.77	U
PFHpA (Perfluoroheptanoic acid)	NL	12.4	J	12.6	J	8.93	UJ	8.62	UJ	12.3	J	9.12	J
PFBS (Perfluorobutanesulfonic acid)	40,000[2]	40.4		61.9		34.5		32.7		271		49.1	

Notes:
ng/l = nanogram per liter
[1] PFOS and PFOA results compared to EPA's combined HAL (EPA, 2016)
[2] PFBS results compared to EPA RSLs TR= 1E-06 HQ 0.1 for tap water (EPA, 2018)
Red values indicate 3x background values (SIGW-19 for shallow wells and SIGW-08 for intermediate wells)
Bold values indicate exceedance of benchmark
J = Reported value is estimated; actual value may be higher or lower
NL = No listed value
Q = Qualifier
RSL = Regional Screening Level
U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is

Sample ID Notes:
No highlight indicates shallow well (less than 20 feet bgs)
Blue highlight indicates intermiediate well (between 20 and 60 feet bgs)

Blades Groundwater Site
Table 3
Existing Procino Plating Monitoring Well Samples
PFAS Analytical Summary Table

6.9		20.7
5.8	U	
1.9	U	
2.6		7.8
2.9	U	
3.2		9.6

Blades Groundwater Site
Table 4
Newly Installed Monitoring Well Samples
PFAS Analytical Summary Table

Sample ID:		SIGW-01		SIGW-02		SIGW-02D		SIGW-03		SIGW-04		SIGW-05		SIGW-06	
CLP Sample Number:		C0AG1		C0AL0		C0AG4		C0AG5		C0AG6		C0AG7		C0AG8	
Units:		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L	
Sample Date:		11/6/2018		11/6/2018		11/6/2018		11/7/2018		11/7/2018		11/7/2018		11/7/2018	
Sample Type:		Field		Field		Dup of		Field		Field		Field		Field	
PFCs	Benchmark	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
PFOS (Perfluorooctanesulfonic acid)	70[1]	21		45		46		**22**		24		**120**		**54**	
PFOA (Perfluorooctanoic acid)	70[1]	43		13		13		**117**		21		**1100**		**38**	
PFNA (Perfluorononanoic acid)	NL	39		13		14		5.7		6.4		600		13	
PFHxS (Perfluorohexanesulfonic acid)	NL	2		18		17		2.4		7.2		4.2		16	
PFHpA (Perfluoroheptanoic acid)	NL	28		5.5		5.5		11		10		780		15	
PFBS (Perfluorobutanesulfonic acid)	40,000[2]	1.3	J	5.8		6		1.9		8.3		3.2		19	

6.9		20.7
5.8	U	
1.9	U	
2.6		7.8
2.9	U	
3.2		9.6

Sample ID:		SIGW-07		SIGW-08		SIGW-08D		SIGW-09		SIGW-10		SIGW-11		SIGW-12	
CLP Sample Number:		C0AG9		C0AH0		C0AL2		C0AH1		C0AH2		C0AH3		C0AH4	
Units:		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L	
Sample Date:		11/7/2018		11/17/2018		11/7/2018		11/6/2018		11/6/2018		11/6/2018		11/6/2018	
Sample Type:		Field		Background		Dup of		Field		Field		Field		Field	
PFCs	Benchmark	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
PFOS (Perfluorooctanesulfonic acid)	70[1]	15		6.9		6.6		24		3.5		23		**120**	
PFOA (Perfluorooctanoic acid)	70[1]	7.9		5.8	U	5.7	U	5.9	U	3.6	J	15		8.2	
PFNA (Perfluorononanoic acid)	NL	2.3		1.9	U	1.9	U	2	U	0.57	J	1.5	J	0.54	J
PFHxS (Perfluorohexanesulfonic acid)	NL	0.85	J	2.6		2.5		0.79	J	2	U	2		5.3	
PFHpA (Perfluoroheptanoic acid)	NL	4.1		2.9	U	2.9	U	3	U	1.3	J	5.3		3.4	
PFBS (Perfluorobutanesulfonic acid)	40,000[2]	2.9		3.2		3.1		2.4		2	U	5.5		42	

Sample ID:		SIGW-13		SIGW-14		SIGW-15		SIGW-16		SIGW-17		SIGW-18		SIGW-19		SIGW-20	
CLP Sample Number:		C0AH5		C0AH6		C0AH7		C0AH8		C0AH9		C0AJ0		C0AK7		C0AN9	
Units:		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L	
Sample Date:		11/6/2018		11/7/2018		11/6/2018		11/7/2018		11/7/2018		11/7/2018		11/7/2018		11/7/2018	
Sample Type:		Field		Field		Field		Field		Field		Field		Background		Field	
PFCs	Benchmark	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
PFOS (Perfluorooctanesulfonic acid)	70[1]	2.6		7		**61**		**390**		58		10		3.9		25	
PFOA (Perfluorooctanoic acid)	70[1]	5.9	U	8.4		**54**		5.2	J	8.1		5.8	J	13		5.9	U
PFNA (Perfluorononanoic acid)	NL	0.47	J	1.4	J	8.7		1.3	J	1.6	J	1.9	J	3.9		2	U
PFHxS (Perfluorohexanesulfonic acid)	NL	2	U	2	U	2.4		1.5	J	7.1		1.9	J	4.1		1.2	J
PFHpA (Perfluoroheptanoic acid)	NL	3	U	3.7		18		13		3.3		2.9	J	7.5		3	U
PFBS (Perfluorobutanesulfonic acid)	40,000[2]	1	J	1	J	33		21		8.7		1.9	J	6.5		5	

Notes:
ng/l = nanogram per liter
[1] PFOS and PFOA results compared to EPA's combined HAL (EPA, 2016)
[2] PFBS results compared to EPA RSLs TR= 1E-06 HQ 0.1 for tap water (EPA, 2018)
Red values indicate 3x background values (SIGW-19)
Bold values indicate exceedance of benchmark
NL = No listed value
Q = Qualifier
RSL = Regional Screening Level
U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit

Sample ID Notes:
No highlight indicates shallow well (less than 20 feet bgs)
Blue highlight indicates intermiediate well (between 20 and 60 feet bgs)
Orange highlight indicates deep well (greater than 60 feet bgs)

Blades Groundwater Site
Table 5
Existing Procino Plating Monitoring Well Samples
Inorganic Analytical Summary Table

Sample ID:			GW-01		DMW-01		GW-02		GW-02D		DMW-02		GW-03		DMW-03	
CLP Number:			MC0AD2		MC0AG0		MC0AD8		MC0AF5		MC0AF3		MC0AD9		MC0AF4	
Units:			µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Sample Date:			10/9/2018		10/10/2018		10/9/2018		10/9/2018		10/9/2018		10/8/2018		########	
	MCL		Field		Field		Field		Field		Field		Field		Field	
Metals:	(µg/L)	RSL Tapwater (µg/L)	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Aluminum	NL	2000	830		22		26		24.5		53.6		133		37	
Arsenic	10	0.052	1	U	**1.3**		1	U	1	U	1	U	1	U	1	U
Barium	2000	380	10	U	89.2		20.8		18.3		115		36.4		93.7	
Calcium	NL	NL	11,800		20,900		18,100		17,600		12,700		8,970		8,430	
Chromium	100[1]	2200[2]	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Cobalt	NL	0.6	**3.2**		**1**		1	U	1	U	**7.5**		**1.9**		**3.1**	
Copper	1300	80	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Iron	NL	1400	448		100	U	100	U	100	U	100	U	100	U	100	U
Lead*	15	15	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Magnesium	NL	NL	1,630		1,980		2,290		2,180		2,780		1,250		1,790	
Manganese	NL	43	2.3		38.5		1	U	1	U	**153**		18		**46**	
Mercury	2	0.063	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	**0.6**	
Nickel	NL	39	1	U	1.3		1.1		1		2.7		4.1		22.1	
Potassium	NL	NL	658		13,500		2,380		2,370		3,620		2,240		7,030	
Sodium	NL	NL	1,020		17,400		5,870		5,370		13,600		8,230		13,400	
Vanadium	NL	8.6	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Zinc	NL	600	3.6		2		2.9		4.7		16.9		12.2		7.5	
Cyanide	200	0.15	10	U	10	U	10	U	10	U	10	U	10	R	10	U
Hexavalent Chromium	100[1]	0.035[3]	**0.04**		0.02	U	**0.46**		**0.47**		**0.09**		**0.08**		**0.09**	

Blades Groundwater Site

Table 5

Existing Procino Plating Monitoring Well Samples

Inorganic Analytical Summary Table

Sample ID:			GW-04		GW-05		GW-07		GW-08		GW-09		GW-10		Sample ID:	
CLP Number:			MC0AE0		MC0AE1		MC0AE3		MC0AE4		MC0AE5		MC0AE6		CLP Number:	
Units:			µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		Units:	
Sample Date:			10/8/2018		10/8/2018		########		########		10/9/2018		########		Sample Date:	
			Field		Field		Field		Field		Field		Field			
Metals:	MCL (µg/L)	RSL Tapwater (µg/L)	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Metals:	MCL (µg/L)
Aluminum	NL	2000	252		55.9		101		22		176		77		Aluminum	NL
Arsenic	10	0.052	1	U	**1.7**		1	U	**1.6**		1	U	1	U	Arsenic	10
Barium	2000	380	33.5		34.1		26		54.6		46.8		26		Barium	2000
Calcium	NL	NL	13,800		23,600		11,900		17,900		36,700		9,090		Calcium	NL
Chromium	100[1]	2200[2]	2	U	2	U	28.2		2	U	2	U	22.8		Chromium	100[1]
Cobalt	NL	0.6	1	U	1	U	1	U	1	U	1	U	1.1		Cobalt	NL
Copper	1300	80	2	U	2	U	3.6		2	U	2	U	8.3		Copper	1300
Iron	NL	1400	166		115		114		100	U	100	U	100	U	Iron	NL
Lead*	15	15	1	U	1	U	1	U	1	U	1	U	1	U	Lead*	15
Magnesium	NL	NL	2,230		2,250		2,090		2,320		2,830		1,130		Magnesium	NL
Manganese	NL	43	1.9		1	U	4.5		5.2		1.4		10.5		Manganese	NL
Mercury	2	0.063	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	Mercury	2
Nickel	NL	39	1	U	1	U	25.1		1.1		4.2		324		Nickel	NL
Potassium	NL	NL	3,180		3,560		2,970		2,140		4,270		3,610		Potassium	NL
Sodium	NL	NL	9,500		8,490		6,820		9,270		10,400		5,310		Sodium	NL
Vanadium	NL	8.6	5	U	5	U	5	U	5	U	5	U	6.2		Vanadium	NL
Zinc	NL	600	2		4.7		30.2		6.4		7.1		304		Zinc	NL
Cyanide	200	0.15	10	R	10	R	10	U	10	U	10	U	10	U	Cyanide	200
Hexavalent Chromium	100[1]	0.035[3]	**0.12**		**0.14**		**18**		**0.07**		**1.1**		**20**		Hexavalent Chromium	100[1]

Notes:

Data compared to EPA MCLs (EP/

Bold values indicate exceedance of

Red values indicate 3x background

[1] There is no RSL for total chromiu

[2] There is no RSL for lead in soil; h

µg/L = micrograms per liter

J = Reported value is estimated; a

MCLs = Maximum Contaminant Le

NL = No listed value

Q = Qualifier

RSL = Regional Screening Level

U = The analyte was analyzed for, l

Blades Groundwater Site
Table 5
Existing Procino Plating Monitoring Well Samples
Inorganic Analytical Summary Table

	GW-11		GW-12		GW-13		GW-14		GW-15	
	MC0AE7		MC0AE8		MC0AE9		MC0AF0		MC0AF1	
	µg/L		µg/L		µg/L		µg/L		µg/L	
	########		########		10/8/2018		########		########	
	Field		Field		Field		Field		Field	
RSL Tapwater (µg/L)	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
2000	53.7		114		261		476		373	
0.052	**2.3**		1	U	1	U	**2.2**		1	U
380	45.8		74		56.7		15		26	
NL	14,000		29,400		6,840		15,100		7,400	
2200[2]	2	U	2	U	2	U	2	U	16.9	
0.6	1	U	1	U	**1.3**		1	U	1	U
80	2	U	2	U	2	U	2		2	U
1400	114		100	U	100	U	254		184	
15	1	U	1	U	1	U	1	U	1	U
NL	1,660		2,530		1,580		1,620		1,240	
43	11.2		3.5		31.5		1	U	20.1	
0.063	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
39	33.2		2		2.3		1	U	4	
NL	3,690		6,630		4,470		2,010		2,140	
NL	23,200		17,300		2,500		8,790		3,090	
8.6	6.2		5		5	U	8.7		5	U
600	24.8		3.1		78.9		38.2		114	
0.15	10	U	10	10	10	R	10	U	10	U
0.035[3]	**2.1**		**0.5**		**0.25**		**0.17**		**19**	

A, 2009) and EPA RSLs for tapwater TR= 1E-06 HQ 0.1 (EPA, 2018)
tapwater RSL; highlighted values indicate exceedance of MCL
values SIGW-19 (or above background RDL if background is non-detect)
m; values shown are for chromium III
owever, EPA recommends soil with lead concentrations less than 400 mg/kg is safe for re

ctual value may be higher or lower
vel

out was not detected above the level of the reported sample quantitation limit

Blades Groundwater Site
Table 6
Newly Installed Monitoring Well Samples
Inorganic Analytical Summary Table

Sample ID:			SIGW-01		SIGW-02		SIGW-02D		SIGW-03		SIGW-04		SIGW-05		SIGW-06		SIGW-07	
CLP Number:			MC0AG1		MC0AL0		MC0AG4		MC0AG5		MC0AG6		MC0AG7		MC0AG8		MC0AG9	
Units:			µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Sample Date:			11/6/2018		11/6/2018		11/6/2018		11/7/2018		11/7/2018		11/7/2018		11/7/2018		11/7/2018	
	MCL		Field		Field		Dup of SIGW-		Field		Field		Field		Field		Field	
Metals:	(µg/L)	RSL Tapwater (µg/L)	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Aluminum	NL	2000	538	J	942	J	1,440	J	296	J	14.5	J	121	J	203	J	461	J
Antimony	6	0.78	0.53	J	0.32	J	0.32	J	0.66	J	2	U	0.17	J	0.16	J	**1.5**	J
Arsenic	10	0.052	**0.99**	J	**0.53**	J	**0.88**	J	**0.62**	J	1	U	**0.89**	J	**0.66**	J	**6**	
Barium	2000	380	27.3	J	128	J	127	J	24.3	J	47.1	J	95.3	J	63.3	J	51.1	J
Berryllium	4	2.5	1	U	0.5	J	0.58	J	1	U	1	U	1	U	1	U	1	U
Cadmium	NL	NL	1	U	0.18	J	0.18	J	1	U	1	U	0.55	J	1	U	1	U
Calcium	NL	NL	22,400	J	11,000	J	11,100	J	50,400	J	28,200	J	14,800	J	14,400	J	60,500	J
Chromium	100[1]	2200[2]	1.1	J	1.1	J	1.4	J	0.9	J	0.63	J	0.96	J	0.87	J	1.3	J
Cobalt	NL	0.6	0.2	J	**14**		**13.8**		0.37	J	0.18	J	**4.6**		**2.1**		0.25	J
Copper	1300	80	1.7	J	0.58	J	0.54	J	1.4	J	0.78	J	0.84	J	0.56	J	1.6	J
Iron	NL	1400	791	J	1,200	J	1,360	J	441	J	200	UJ	200	UJ	1,350	J	503	J
Lead*	15	15	0.29	J	0.62	J	0.73	J	0.19	J	1	U	0.15	J	0.086	J	0.26	J
Magnesium	NL	NL	2,490	J	3,420	J	3,480	J	4,040	J	3,750	J	1,830	J	2,520	J	6,460	J
Manganese	NL	43	13.6	J	188	J	187	J	13.5	J	28	J	56	J	114	J	6.8	J
Mercury	2	0.063	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Nickel	NL	39	0.59	J	4		3.7		0.93	J	0.54	J	2.9		1.9		1.3	
Potassium	NL	NL	3,410	J	3,790		3,780		3,180		3,960	J	7,690		4,530		3,580	
Selenium	50	10	5	U	5	U	5	U	5	U	5	U	5	U	1.5	J	3.5	J
Sodium	NL	NL	3,710	J	49,200	J	47,900	J	4,340	J	45,100	J	4,590	J	46,000	J	50,000	J
Thallium	2	0.02	1	U	0.048	J	1	U	1	U	1	U	0.043	J	1	U	1	U
Vanadium	NL	8.6	1	U	5	U	0.05	J	1.7	J	5	U	5	U	5	U	1	J
Zinc	NL	600	3.4		15		15.6		1.4	J	0.73	J	9.8		4.8		27.8	
Cyanide	200	0.15	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Hexavalent Chromium	100[1]	0.035[3]	0.03	U	0.055		0.03	U	0.021	J	0.011	J	0.051	J	0.03	U	**0.25**	

Blades Groundwater Site
Table 6
Newly Installed Monitoring Well Samples
Inorganic Analytical Summary Table

Sample ID:			SIGW-08		08D		SIGW-09		SIGW-10		SIGW-11		SIGW-12		SIGW-13		SIGW-14	
CLP Number:			MC0AH0		MC0AL2		MC0AH1		MC0AH2		MC0AH3		MC0AH4		MC0AH5		MC0AH6	
Units:			µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Sample Date:			########		11/7/2018		11/6/2018		11/6/2018		11/6/2018		11/6/2018		11/6/2018		11/7/2018	
			Backgroun		Dup of		Field		Field		Field		Field		Field		Field	
Metals:	MCL (µg/L)	RSL Tapwater (µg/L)	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Aluminum	NL	2000	54.7	J	50.2	J	216	J	1,380	J	347	J	21.9	J	123	J	81.8	J
Antimony	6	0.78	2	U	2	U	0.14	J	0.17	J	0.29	J	2	U	0.2	J	0.35	J
Arsenic	10	0.052	1	U	1	U	**1.4**		**1.6**		**0.64**	J	**0.62**	J	**0.59**	J	1	U
Barium	2000	380	212	J	225	J	15.1	J	**380**	J	42.9	J	112	J	366	J	32.2	J
Berryllium	4	2.5	0.45	J	0.39	J	1	U	0.19	J	1	U	0.22	J	1.5		1	U
Cadmium	NL	NL	0.21	J	0.24	J	1	U	0.12	J	1	U	1	U	0.38	J	1	U
Calcium	NL	NL	9,620	J	9,360	J	17,200	J	9,160	J	16,800	J	4,180	J	16,500	J	23,800	J
Chromium	100[1]	2200[2]	0.74	J	1	J	3.1		3.7		0.91	J	0.76	J	2.6		0.8	J
Cobalt	NL	0.6	**3.9**		**4**		0.14	J	**15.3**		0.21	J	**9.8**		**24.7**		0.17	J
Copper	1300	80	0.36	J	0.54	J	1.7	J	3.6		1.3	J	0.41	J	0.87	J	1.3	J
Iron	NL	1400	255	J	285	J	55.3	J	2,750	J	239		200	U	159	J	124	J
Lead*	15	15	0.11	J	0.097	J	1	U	1.6		0.18	J	0.081	J	0.26	J	0.094	J
Magnesium	NL	NL	2,290	J	2,360	J	979	J	4,140	J	2,400	J	1,530	J	4,090	J	4,010	J
Manganese	NL	43	68	J	77.1	J	6.9	J	158	J	8.6		190		176	J	2.1	J
Mercury	2	0.063	0.2	U			0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Nickel	NL	39	2.7		3.6		0.65	J	8.3		0.56	J	3		9.8		0.53	J
Potassium	NL	NL	3,630		3,850		1,120		6,470		2,240		2,700		4,610		688	
Selenium	50	10	5	U	1.3	J	5	U	5	U	5	U	5	U	5	U	1.3	J
Sodium	NL	NL	19,600	J	18,600	J	2,860	J	12,200	J	5,280	J	8,920	J	7,670	J	24,300	J
Thallium	2	0.02	0.029	J	0.030	J	1	U	0.065	J	1	U	0.28	J	0.076	J	1	U
Vanadium	NL	8.6	5	U	5	U	2.6	J	1.7	J	5	U	5	U	5	U	5	U
Zinc	NL	600	6.1		6.4		1.1	J	25.2		1.3	J	9.4		38.5		0.97	J
Cyanide	200	0.15	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Hexavalent Chromium	100[1]	0.035[3]	0.03	U	0.03	U	2.1		0.14		0.045		0.03	U	0.11		0.019	J

Blades Groundwater Site
Table 6
Newly Installed Monitoring Well Samples
Inorganic Analytical Summary Table

Sample ID:			SIGW-15		SIGW-16		SIGW-17		SIGW-18		SIGW-19		SIGW-20	
CLP Number:			MC0AH7		MC0AH8		MC0AH9		MC0AJ0		MC0AK7		MC0AN9	
Units:			µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Sample Date:			11/6/2018		11/7/2018		11/7/2018		11/7/2018		11/7/2018		11/7/2018	
			Field		Field		Field		Field		Backgroun		Field	
Metals:	MCL (µg/L)	RSL Tapwater (µg/L)	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Aluminum	NL	2000	569	J	652	J	42.7	J	1,590	J	712	J	**5,540**	J
Antimony	6	0.78	**1.3**	J	0.5	J	2	U	0.21	J	2	U	2	U
Arsenic	10	0.052	**1.2**		**0.61**	J	1	U	**1.8**		1	U	**2.5**	
Barium	2000	380	17.1	J	30.4	J	109	J	233	J	56.5	J	72.2	J
Berryllium	4	2.5	1	U	1	J	1	U	1	U	1	U	0.27	J
Cadmium	NL	NL	1	U	1	U	1	U	0.29	J	1	U	3.2	
Calcium	NL	NL	11,000		12,500	U	20,800	J	14,100	J	19,200	J	8,730	J
Chromium	100[1]	2200[2]	1.2	J	3.5	J	0.79	J	4.7		1.2	J	13.6	
Cobalt	NL	0.6	0.54	J	0.23		**2.7**		**13.1**		0.48	J	**4.8**	
Copper	1300	80	2.3		1.6	J	0.56	J	2.6		1.2	J	18.3	
Iron	NL	1400	434	J	368	J	203	J	2,640	J	298	J	3,600	
Lead*	15	15	0.58	J	0.29	J	0.028	J	2.1		0.59	J	14.1	
Magnesium	NL	NL	1,980	J	1,580	J	2,760	J	4,370	J	6,340	J	1,160	J
Manganese	NL	43	14.1	J	4	J	**49.5**	J	**383**	J	4.1	J	**51**	
Mercury	2	0.063	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Nickel	NL	39	1.1		0.86	J	3.4		8.7		0.69	J	5.4	
Potassium	NL	NL	2,010		2,590		3,920		5,170		2,450		3,340	
Selenium	50	10	5	U	5	U	5	U	5	U	1.4	J	1.5	J
Sodium	NL	NL	5,150	J	4,550	J	40,200	J	20,400	J	8,240	J	15,600	J
Thallium	2	0.02	1	U	1	U	0.019	J	0.047	J	1	U	0.098	J
Vanadium	NL	8.6	5	U	5	U	5	U	5	U	5	U	10.6	
Zinc	NL	600	2.7		4.1		2.2		24.7		18.8		15.8	
Cyanide	200	0.15	10	U	10	U	10	U	4.1	J	10	U	10	U
Hexavalent Chromium	100[1]	0.035[3]	0.03	U	2.3		0.03		0.068		0.063		0.073	

Notes:
Data compared to EPA MCLs (EPA, 2009) and EPA RSLs for tapwater TR= 1E-06 HQ 0.1 (EPA, 2018)
Bold values indicate exceedance of tapwater RSL; highlighted values indicate exceedance of MCL
Red values indicate 3x background values SIGW-19 (or above background RDL if background is non-detect)
[1] There is no RSL for total chromium; values shown are for chromium III
[2] There is no RSL for lead in soil; however, EPA recommends soil with lead concentrations less than 400 mg/kg is safe for residential use
µg/L = micrograms per liter
J = Reported value is estimated; actual value may be higher or lower
MCLs = Maximum Contaminant Level
NL = No listed value
Q = Qualifier
RSL = Regional Screening Level
U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit

Blades Groundwater Site
Table 7
Surface Water and Sediment Samples
PFAS Analytical Summary Table

Sample ID:	SW-01		SW-02		SW-03		SW-04		SW-05		SW-06		SW-07		SW-08		SW-09		SW-09-D	
CLP Sample Number:	C0AD1		C0AB1		C0AB2		C0AB3		C0AB4		C0AB8		C0AB9		C0AC0		C0AC1		C0AC2	
Units:	ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L	
Sample Date:	9/19/2018		9/19/2018		9/20/2018		9/19/2018		9/20/2018		9/20/2018		9/19/2020		9/20/2018		9/19/2018		9/19/2018	
Sample Type:	Field Sample		Field Sample		Field Sample		Field Sample		Field Sample		Field Sample		Background		Background		Background		Dup of SW-09	
PFC	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
PFNA (Perfluorononanoic acid)	8.33	U	8.77	U	15.1		14.2		8.62	U	9.62	U	8.62	U	8.93	U	14.8	L	16.6	L
PFOS (Perfluorooctanesulfonic acid)	8.33	U	8.77	U	16		8.62	U	8.62	U	9.62	U	8.62	U	8.93	U	8.62	U	8.62	U
PFOA (Perfluorooctanoic acid)	8.22	U	8.77	U	9.16	B	8.62	U	8.62	U	14.2	B	8.62	U	8.93	U	8.62	U	9.41	B

Notes:
Red values indicate 3x background values SW-09(or above background RDL if background is non-detect)
ng/L = nanograms per liter
J = Reported value is estimated; actual value may be higher or lower
Q = Data qualifier
U = The analyte was analyzed for, but was not detected above the level of the reported sample

Sample ID:	SD-01		SD-02		SD-03		SD-04		SD-05		SD-06		SD-07		SD-08		SD-09		SD-09-D	
CLP Sample Number:	C0AA0		C0AA1		C0AA2		C0AA3		C0AA4		C0AA5		C0AA6		C0AA7		C0AA8		C0AA9	
Units:	µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Date:	9/19/2018		9/19/2018		9/20/2018		9/19/2018		9/20/2018		9/20/2018		9/19/2020		9/20/2018		9/19/2018		9/19/2018	
Sample Type:	Field Sample		Field Sample		Field Sample		Field Sample		Field Sample		Field Sample		Background		Background		Background		Dup of SW-09	
PFCS	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
PFHpA (Perfluoroheptanoic acid)	0.078	J	1.7	U	0.24	U	0.24	U	1.9	U	0.31	J	0.26	U	0.32	U	0.13	J	0.14	J
PFHxS (Perfluorohexanesulfonic acid)	0.073	J	1.7	U	0.24	U	0.24	U	1.9	U	1.9	U	0.26	U	0.32	U	0.32	U	0.32	U
PFNA (Perfluorononanoic acid)	0.11	J	0.37	J	0.24	U	0.24	U	1.9	U	0.47	J	0.26	U	0.11	J	0.27	J	0.27	J
PFOS (Perfluorooctanesulfonic acid)	0.82	U	4.4	U	0.6	U	0.59	U	4.7	U	1.9	U	0.66	U	0.79	U	0.43	J	0.46	J
PFOA (Perfluorooctanoic acid)	0.15	J	1.7	U	0.24	U	0.24	U	1.9	U	2.1	J	0.26	U	0.32	U	0.22	J	0.21	J

Notes:
Red values indicate 3x background values (or above background RDL if background is non-detect)
µg/kg = micrograms per kilogram
BTAG = Biological Technical Assistance Group
J = Reported value is estimated; actual value may be higher or lower
NL = No listed value
PAH = Polycyclic aromatic hydrocarbon
PCB = Polychlorinated bi[henyl
Q = Qualifier
SVOC = Semivolatile organic Compound
sample quantitation limit

Blades Groundwater Site
Table 8
Surface Water Samples
Inorganic Analytical Summary Table

Sample ID:	EPA WQC Consumption of Water and Organism	EPA WQC Consumption of Organism Only	EPA BTAG Freshwater	SW-01		SW-02		SW-03		SW-04		SW-05		SW-06		SW-07		SW-08		SW-09		SW-09-D	
CLP Number:				MC0AD1		MC0AB1		MC0AB2		MC0AB3		MC0AB4		MC0AB8		MC0AB9		MC0AC0		MC0AC1		MC0AC2	
Units:				µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Sample Date:				9/19/2018		9/19/2018		9/20/2018		9/19/2018		9/20/2018		9/20/2018		9/19/2020		9/20/2018		9/19/2018		9/19/2018	
Sample Type:				Field Sample		Field Sample		Field Sample		Field Sample		Field Sample		Field Sample		Background		Background		Background		up of SW-0	
Metals				Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Aluminum	NL	NL	87	**141**		**838**		**137**		**239**		**2,240**		**17,800**		**184**		**226**		**234**		**239**	
Arsenic	0.018	0.14	5	1	U	**1.4**		1	U	1	U	**2.7**		**7.5**		**2.6**		**2.9**		1	U	1	U
Barium	1,000	NL	4	**163**		**227**		**200**		**136**		**291**		**428**		**194**		**185**		**106**		**108**	
Berryllium	NL	NL	0.66	1	U	1	U	1	U	1	U	1	U	6.1		1	U	1	U	1	U	1	U
Cadmium	NL	NL	0.25	1	U	1	U	1	U	1	U	1	U	3.7		1	U	1	U	1	U	1	U
Calcium	NL	NL	116,000	7,470		9,290		12,500		12,400		12,400		68,300		19,300		7,960		11,100		11,400	
Chromium	NL	NL	85	2	U	3		2	U	2	U	4.2		16.2		2	U	2	U	2	U	2	U
Cobalt	NL	NL	23	3.2		6.7		3.3		2		17.2		**107**		1.5		7.3					
Copper	NL	NL	9	2	U	2.7		2	U	2	U	6.5		**44.4**		2.2		2.2		2	U	2	U
Iron	NL	NL	300	**1,190**		**2,310**		**701**		**1,370**		**7,200**		**51,500**		**681**		**1,640**		**1,510**		**1,620**	
Lead	NL	NL	2.5	1	U	**3.1**		1	U	1	U	**6.1**		**125**		1	U	1	U	1	U	1	U
Magnesium	NL	NL	82,000	3,020		3,740		4,440		4,610		3,820		6,590		6,890		3,060		4,190		4,270	
Manganese	50	100	120	117		**151**		59.7		**464.9**		**535**		**395**		**168**		**255**		22.8		24.3	
Mercury	NL	NL	0.026	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.3		0.2	U	0.2	U	0.2	U	0.2	U
Nickel	610	4,600	52	3.1		3.3		2.5		2.3		6.7		33.8		2.8		4.3		1.9		1.8	
Potassium	NL	NL	53,000	4,320		5,660		7,670		10,100		4,110		8,490		13,400		4,140		9,780		10,000	
Sodium	NL	NL	680,000	7,950		11,300		12,300		12,600		29,700		6,850		10,300		8,060		14,300		14,800	
Vanadium	NL	NL	20	5	U	5	U	5	U	5	U	5		**40.8**		5	U	5	U	5	U	5	U
Zinc	7,400	26,000	120	6.5		21.4		16.8		10.2		**58.3**		**401**		7.6		14.9		9.2		9	
Cyanide	4	400	5	10	U	3.7	J	10	U	10	U	4.4	J	**6.1**	J	10	U	10	U	2.3	J	10	U
Hexavalent Chromium	NL	NL	11	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.048		0.03	U	0.03	U	0.03	U

Notes:
Data compared to EPA BTAG freshwater screening criteria and EPA WQC (EPA, 2006 and XX)
Bold values indicate exceedance of BTAG criteria
Highlighted value indicates exceedence of a WQC
Red values indicate 3x background values (or above background RDL if background is non-detect)
µg/L = micrograms per liter
BTAG = Biological Technical Assistance Group
J = Reported value is estimated; actual value may be higher or lower
MCL = Maximum Contaminant Level
Q = Data qualifier
U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
WQC = Water Quality Criteria

Blades Groundwater Site
Table 9
Sediment Samples
Inorganic Analytical Summary Table

Sample ID:	EPA BTAG Freshwater (mg/kg)	SD-01		SD-02		SD-03		SD-04		SD-05		SD-06		SD-07		SD-08		SD-09		SD-09-D	
CLP Number:		MC0AA0		MC0AA1		MC0AA2		MC0AA3		MC0AA4		MC0AA5		MC0AA6		MC0AA7		MC0AA8		MC0AA9	
Units:		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Sample Date:		9/19/2018		9/19/2018		9/20/2018		9/19/2018		9/20/2018		9/20/2018		9/19/2020		9/20/2018		#######		9/19/2018	
Sample Type:		Field Sample		Field Sample		Field Sample		Field Sample		Field Sample		Field Sample		Background		Background		Background		up of SW-0	
Metals		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Aluminum	NL	4860		7910		346		1530		5540		3040		1050		1890		2400		2720	
Antimony	2	0.5	U	0.8		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Arsenic	9.8	3.7		8.3		0.5	U	0.6		**14.4**		6.7		0.5	U	1.1		1.7		1.7	
Barium	NL	121		429		5.2	U	7.5		300		103		11.1		613		43.6		62.1	
Beryllium	NL	0.8		2.9		0.5	U	0.5	U	3.9		1.2		0.5	U	0.5	U	0.5	U	0.5	U
Cadmium	0.99	0.5	U	1.3		0.5	U	0.5	U	2.1		0.7		0.5	U	0.5	U		U	0.5	U
Calcium	NL	1010		5370		49.6	U	101		6670		12700		196		1590		1100		1160	
Chromium	43.4	7.9		8.9		0.5	U	1.3		**103**		3.8		1.3		2.8		1.7		1.6	
Cobalt	50	8.2		44.9		1.5		22		13.4		47.1		0.5	U	5.1		1.2		1.6	
Copper	31.6	5.8		21.4		0.5	U	3.1		28.2		12.4		0.5		4		3.2		3.4	
Iron	20,000	5670		8670		615		1030		13000		16300		520		2600		3960		4640	
Lead	35.8	14.9		**48.2**		0.8		3.6		23.3		27.9		2.4		3.9		7.2		8	
Magnesium	NL	873		1170		49.6	U	828		1200		774		64.6		507		80.4		94.1	
Manganese	460	97.9		299		14.7		129		**501**		126		29.3		167		18		20.8	
Mercury	0.18	0.03		0.08		0.5	U	0.02		0.06		0.01	U	0.5	U	0.01		0.02		0.02	
Nickel	22.7	6.1		**24.4**		0.5	U	1.1		**40.2**		14		0.5		2.6		1.3		1.5	
Potassium	NL	365		581		198	U	197	U	492		348		198	U	198	U	196	U	199	U
Selenium	2	0.5	U	1.5		0.5	U	0.5	U	**2.1**		1.1		0.5	U	0.5	U	0.5	U	0.5	U
Silver	1	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Sodium	NL	986	U	178		99.8	U	98.6	U	771		101		99	U	99.2	U	99.2	U	99.6	U
Thallium	NL	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vanadium	NL	12.8		27.3		1	J	3.8		19.9		14.2		1.8		5.1		6.3		7.1	
Zinc	121	**538**		**207**		3.2		10.9		**340**		94.6		4.1		18.5		22.5		24.7	
Cyanide	0	0.76	U	0.5	U	0.62	U	0.52	U	0.5	U	0.5	U	0.6	U	0.8	U	0.6	U	0.67	U

Notes:
Data compared to EPA BTAG freshwater sediment screening criteria (1997)
Bold values indicate exceedance of BTAG criteria
Red values indicate 3x background values (or above background RDL if background is non-detect)
mg/kg = milligrams per kilogram
BTAG = Biological Technical Assistance Group
J = Reported value is estimated; actual value may be higher or lower
NL = No listed value
Q = Qualifier
U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit

Alan Wood Steel Site
Site Inspection
Table 1
Detected Organics in Soil Sample

Sample Number:	EPA RSL Residential (µg/kg)	SS-01		SS-02		SS-03
CLP Sample Number:		C0AK3		C0AN7		C0AK
Units:		µg/kg		µg/kg		µg/kg
Sample Date:						
Sample Type:		Dup of SS-01		Field Sample		Field Sar
PFCs		Result	Q	Result	Q	Result
PFHpA (Perfluoroheptanoic acid)	NL	0.06	J	0.051	J	0.22
PFHxS (Perfluorohexanesulfonic acid)	NL	0.045	JB	0.22	U	0.22
PFNA (Perfluorononanoic acid)	NL	0.62	J	0.041	JH	0.22
PFOS (Perfluorooctanesulfonic acid)	6,000	11		2.3	H	0.54
PFOA (Perfluorooctanoic acid)	16,000	0.18	J	0.1	JHB	0.14

Notes:
Data compared to EPA RSLs for residential soil TR= 1E-06 HQ 0.1 (EPA, XX))
Bold values indicate exceedance of residential RSL; highlighted values indicate exceedance of industrial RSL
µg/kg = micrograms per kilogram
J = Reported value is estimated; actual value may be higher or lower
NL = No listed value
Q = Qualifier
RSL = Regional Screening Level
U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit

Alan Wood Steel Site
Site Inspection
Table 1
Detected Organics in Soil Sample

3	SS-04		SS-01D	
5	COAK4		C0AN8	
l	µg/kg		µg/kg	
nple	Field Sample		up of SS-0	
Q	Result	Q	Result	Q
U	0.21	U	0.061	J
U	0.21	U	0.21	U
U	0.21	U	0.068	J
H	2.6		11	
JHB	0.21	U	0.19	J