

**Table 5-5  
Analytical Results from Quality Assurance Samples - Cr+6 and Metals  
Groundwater Remedial Investigation Report  
Garfield Avenue Group of Sites  
PPG, Jersey City, New Jersey**

Sample ID	Sample Type	Fraction	Lab SDG	Date Collected	Analyte	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM METAL	CHROMIUM	CHROMIUM (HEXAVALENT)	COBALT	COPPER	IRON
					CAS RN	7429-90-5	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-70-2	7440-47-3	18540-29-9	7440-48-4	7440-50-8	7439-89-6
					Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
					Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
114-FB20171102-F	EB	D	JC54569	11/2/2017	-	-	-	-	-	-	-	-	-	< 8.1 U	-	-	-
114-FB20171102-F	EB	D	JC54569A	11/2/2017	-	< 4.3 U	-	-	-	-	-	-	< 0.85 U	-	-	-	-
10W-FB20170710	EB	T	JC46649	7/10/2017	-	< 4.3 U	-	-	-	-	-	-	< 0.85 U	< 8.1 U	-	-	-
10W-FB20170711	EB	T	JC46746	7/11/2017	-	< 4.3 U	-	-	-	-	-	-	< 0.85 U	< 8.1 U	-	-	-
10W-FB20170713	EB	T	JC46901	7/13/2017	-	< 4.3 U	-	-	-	-	-	-	< 0.85 U	< 8.1 U	-	-	-
114-FB20170926	EB	T	JC51802	9/26/2017	-	-	-	-	-	-	-	-	< 0.85 U	< 8.1 U	-	-	-
114-FB20170926	EB	T	JC51824	9/26/2017	< 33 U	< 4.3 U	< 2.7 U	< 1.3 U	< 0.40 U	< 0.70 U	48.8 J	-	-	-	< 0.72 U	< 3.2 U	< 32 U
114-FB20170927	EB	T	JC51874	9/27/2017	-	-	-	-	-	-	-	-	< 0.85 U	< 8.1 U	-	-	-
114-FB20170927	EB	T	JC51890	9/27/2017	< 33 U	< 4.3 U	< 2.7 U	< 1.3 U	< 0.40 U	< 0.70 U	< 29 U	-	-	-	< 0.72 U	< 3.2 U	< 32 U
114-FB20170928	EB	T	JC52029	9/28/2017	< 33 U	< 4.3 U	< 2.7 U	< 1.3 U	< 0.40 U	< 0.70 U	119 J	-	-	-	< 0.72 U	< 3.2 U	< 32 U
114-FB20170928.	EB	T	JC52007	9/28/2017	-	-	-	-	-	-	-	-	-	< 8.1 U	-	-	-
114-FB20170928.	EB	T	JC52007A	9/28/2017	-	-	-	-	-	-	-	-	< 0.85 U	-	-	-	-
114-FB20171016	EB	D	JC53234	10/16/2017	-	< 4.3 U	-	-	-	-	-	-	< 0.85 U	-	-	-	-
114-FB20171016	EB	D	JC53234A	10/16/2017	-	-	-	-	-	-	-	-	-	< 8.1 U	-	-	-
114-FB20171016	EB	T	JC53234	10/16/2017	-	< 4.3 U	-	-	-	-	-	-	< 0.85 U	-	-	-	-
114-FB20171016	EB	T	JC53234A	10/16/2017	-	-	-	-	-	-	-	-	-	< 8.1 U	-	-	-
114-FB20171031	EB	T	JC54328	10/31/2017	-	-	-	-	-	-	-	-	-	< 8.1 U	-	-	-
114-FB20171031	EB	T	JC54328A	10/31/2017	-	< 4.3 U	-	-	-	-	-	-	< 0.85 U	-	-	-	-
114-FB20171031-LF	EB	D	JC54328	10/31/2017	-	-	-	-	-	-	-	-	-	< 8.1 U	-	-	-
114-FB20171031-LF	EB	D	JC54328A	10/31/2017	-	< 4.3 U	-	-	-	-	-	-	< 0.85 U	-	-	-	-
114-FB20171102	EB	T	JC54569	11/2/2017	-	-	-	-	-	-	-	-	-	< 8.1 U	-	-	-
114-FB20171102	EB	T	JC54569A	11/2/2017	-	< 4.3 U	-	-	-	-	-	-	< 0.85 U	-	-	-	-
114-FB20171113A	EB	T	JC55349	11/13/2017	-	-	-	-	-	-	-	-	-	< 8.1 U	-	-	-
114-FB20171113A	EB	T	JC55349A	11/13/2017	-	< 4.3 U	-	-	-	-	-	-	< 0.85 U	-	-	-	-
FB-20171214	EB	T	JC57385	12/14/2017	< 33 U	< 4.3 U	< 2.7 U	< 1.3 U	< 0.40 U	< 0.70 U	< 29 U	< 0.85 U	< 8.1 U	< 0.72 U	< 3.2 U	< 32 U	< 32 U
FB-20171215	EB	T	JC57501	12/15/2017	-	-	-	-	-	-	-	-	-	< 8.1 U	-	-	-
FB-20171215	EB	T	JC57501A	12/15/2017	-	< 4.3 U	-	-	-	-	-	-	< 0.85 U	-	-	-	-
FB-20171220	EB	T	JC57752	12/20/2017	< 33 U	< 4.3 U	< 2.7 U	< 1.3 U	< 0.40 U	< 0.70 U	< 29 U	< 0.85 U	< 8.1 U	< 0.72 U	3.7 J	< 32 U	< 32 U
FB-20171221	EB	T	JC57820	12/21/2017	< 33 U	< 4.3 U	< 2.7 U	< 1.3 U	< 0.40 U	< 0.70 U	< 29 U	< 0.85 U	< 8.1 U	< 0.72 U	< 3.2 U	< 32 U	< 32 U
FB-20171222	EB	T	JC57943	12/22/2017	-	-	-	-	-	-	-	-	-	8.2 J	-	-	-
FB-20171222	EB	T	JC57943A	12/22/2017	< 33 U	< 4.3 U	< 2.7 U	< 1.3 U	< 0.40 U	< 0.70 U	< 29 U	4.8 J	-	-	< 0.72 U	< 3.2 U	< 32 U
FB-20171226	EB	T	JC58028	12/26/2017	-	-	-	-	-	-	-	-	-	< 8.1 U	-	-	-
FB-20171226	EB	T	JC58028A	12/26/2017	< 33 U	< 4.3 U	< 2.7 U	< 1.3 U	< 0.40 U	< 0.70 U	< 29 U	< 0.85 U	-	< 0.72 U	< 3.2 U	< 32 U	< 32 U
FB-20171227	EB	T	JC58073	12/27/2017	-	-	-	-	-	-	-	-	-	< 8.1 U	-	-	-
FB-20171227	EB	T	JC58073A	12/27/2017	< 33 U	< 4.3 U	< 2.7 U	< 1.3 U	< 0.40 U	< 0.70 U	< 29 U	< 0.85 U	-	< 0.72 U	< 3.2 U	< 32 U	< 32 U
FB-20180116	EB	T	JC58942	1/16/2018	< 33 U	< 4.3 U	< 2.7 U	3.0 J	< 0.40 U	< 0.70 U	74.8 J	< 0.85 U	< 8.1 U	< 0.72 U	< 3.2 U	< 32 U	< 32 U
FB-20180208	EB	T	JC60477	2/8/2018	-	< 4.3 U	-	-	-	-	-	-	1.4 J	< 8.1 U	-	-	-
FB-20180209	EB	T	JC60564	2/9/2018	-	< 4.3 U	-	-	-	-	-	-	< 0.85 U	< 8.1 U	-	-	-
FB-20180209-A	EB	T	JC60563	2/9/2018	-	< 4.3 U	-	-	-	-	-	-	< 0.85 U	< 8.1 U	-	-	-
FB-20180212	EB	T	JC60652	2/12/2018	-	< 4.3 U	-	-	-	-	-	-	< 0.85 U	< 8.1 U	-	-	-
FB-20180312	EB	T	JC62130	3/12/2018	< 33 U	< 4.3 U	< 2.7 U	1.7 J	< 0.40 U	< 0.70 U	54.4 J	< 0.85 U	< 8.1 U	< 0.72 U	< 3.2 U	< 32 U	< 32 U
FB-20180313	EB	D	JC62228	3/13/2018	< 33 U	< 4.3 U	< 2.7 U	2.2 J	< 0.40 U	< 0.70 U	< 29 U	< 0.85 U	< 8.1 U	< 0.72 U	< 3.2 U	< 32 U	< 32 U
FB-20180313	EB	T	JC62228	3/13/2018	< 33 U	< 4.3 U	< 2.7 U	2.6 J	< 0.40 U	< 0.70 U	< 29 U	< 0.85 U	< 8.1 U	< 0.72 U	< 3.2 U	< 32 U	< 32 U
FB-20180417	EB	D	JC64376	4/17/2018	38.7 J	< 4.3 U	< 2.7 U	2.4 J	< 0.40 U	< 0.70 U	66.6 J	< 0.85 U	< 8.1 U	< 0.72 U	< 3.2 U	< 32 U	< 32 U
FB-20180417	EB	T	JC64376	4/17/2018	37.2 J	< 4.3 U	< 2.7 U	2.5 J	< 0.40 U	< 0.70 U	62.0 J	1.0 J	< 8.1 U	< 0.72 U	< 3.2 U	< 32 U	< 32 U
FB-20180418	EB	T	JC64444	4/18/2018	-	< 4.3 U	-	-	-	-	-	-	< 0.85 U	< 8.1 U	-	-	-
FB-20180419	EB	D	JC64571	4/19/2018	37.3 J	< 4.3 U	< 2.7 U	< 1.3 U	< 0.40 U	< 0.70 U	32.6 J	< 0.85 U	< 8.1 U	< 0.72 U	< 3.2 U	< 32 U	< 32 U
FB-20180419	EB	T	JC64571	4/19/2018	38.4 J	< 4.3 U	< 2.7 U	< 1.3 U	< 0.40 U	< 0.70 U	< 29 U	< 0.85 U	< 8.1 U	< 0.72 U	< 3.2 U	< 32 U	< 32 U
FB-20180420	EB	T	JC64643	4/20/2018	33.5 J	< 4.3 U	< 2.7 U	1.7 J	< 0.40 U	< 0.70 U	< 29 U	< 0.85 U	< 8.1 U	< 0.72 U	< 3.2 U	< 32 U	< 32 U

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Sample ID	Sample Type	Fraction	Lab SDG	Date Collected	Analyte	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM METAL	CHROMIUM	CHROMIUM (HEXAVALENT)	COBALT	COPPER	IRON
					CAS RN	7429-90-5 ug/L	7440-36-0 ug/L	7440-38-2 ug/L	7440-39-3 ug/L	7440-41-7 ug/L	7440-43-9 ug/L	7440-70-2 ug/L	7440-47-3 ug/L	18540-29-9 ug/L	7440-48-4 ug/L	7440-50-8 ug/L	7439-89-6 ug/L
					Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
FB-20180423	EB	T	JC64763	4/23/2018		38.0 J	< 4.3	< 2.7 U	< 1.3 U	< 0.40 U	< 0.70 U	< 29 U	< 0.85	< 8.1 U	< 0.72 U	< 3.2 U	< 32 U
FB-20180424	EB	T	JC64822	4/24/2018		-	< 4.3 U	-	-	-	-	-	< 0.85 U	< 8.1 U	-	-	-
FB-20180425	EB	D	JC64901	4/25/2018		-	< 4.3 U	-	-	-	-	-	< 0.85 U	< 8.1 U	-	-	-
FB-20180425	EB	T	JC64901	4/25/2018		-	< 4.3 U	-	-	-	-	-	< 0.85 U	< 8.1 U	-	-	-
FB-20180426	EB	D	JC64986	4/26/2018		-	< 4.3 U	-	-	-	-	-	< 0.85 U	< 8.1 U	-	-	-
FB-20180426	EB	T	JC64986	4/26/2018		-	< 4.3 U	-	-	-	-	-	< 0.85 U	< 8.1 U	-	-	-
FB-20180427	EB	D	JC65066	4/27/2018		-	< 4.3 U	-	-	-	-	-	< 0.85 U	< 8.1 U	-	-	-
FB-20180427	EB	T	JC65066	4/27/2018		-	< 4.3 U	-	-	-	-	-	< 0.85 U	< 8.1 U	-	-	-
FB-20180430	EB	T	JC65178	4/30/2018		-	< 4.3 U	-	-	-	-	-	< 0.85 U	< 8.1 U	-	-	-
FB-20180501	EB	T	JC65255	5/1/2018		-	< 4.3 U	-	-	-	-	-	< 0.85 U	< 8.1 U	-	-	-
FB-20180502	EB	D	JC65325	5/2/2018		-	-	-	-	-	-	-	< 0.85 U	< 8.1 U	-	-	-
FB-20180502	EB	T	JC65325	5/2/2018		46.2 J	< 4.3 U	< 2.7 U	1.3 J	< 0.40 U	< 0.70 U	< 29 U	< 0.85 U	< 8.1 U	< 0.72 U	< 3.2 U	< 32 U
FB-20180531	EB	T	JC67069	5/31/2018		-	< 4.3 U	-	-	-	-	-	< 0.85 U	< 8.1 U	-	-	-
FIELD BLANK-20171219	EB	T	JC57638	12/19/2017		-	< 4.3 U	-	-	-	-	-	< 0.85 U	< 8.1 U	-	-	-
FORREST-FB20171204	EB	T	JC56504	12/4/2017		-	-	-	-	-	-	-	-	< 8.1 U	-	-	-
FORREST-FB20171204	EB	T	JC56504A	12/4/2017		< 33 U	< 4.3 U	< 2.7 U	< 1.3 U	< 0.40 U	< 0.70 U	158 J	< 0.85 U	-	< 0.72 U	< 3.2 U	< 32 U
FORREST-FB20171206	EB	T	JC56729	12/6/2017		-	-	-	-	-	-	-	-	< 8.1 U	-	-	-
FORREST-FB20171206	EB	T	JC56729A	12/6/2017		< 33 U	< 4.3 U	< 2.7 U	< 1.3 U	< 0.40 U	< 0.70 U	84.6 J	< 0.85 U	-	< 0.72 U	< 3.2 U	< 32 U
FORREST-FB20171207	EB	T	JC56859	12/7/2017		-	-	-	-	-	-	-	-	< 8.1 U	-	-	-
FORREST-FB20171207	EB	T	JC56859A	12/7/2017		< 33 U	< 4.3 U	< 2.7 U	< 1.3 U	< 0.40 U	< 0.70 U	335 J	< 0.85 U	-	< 0.72 U	< 3.2 U	< 32 U
FORREST-FB-20171218	EB	T	JC57565	12/18/2017		< 33 U	< 4.3 U	< 2.7 U	< 1.3 U	< 0.40 U	< 0.70 U	82.6 J	< 0.85 U	< 8.1 U	< 0.72 U	< 3.2 U	< 32 U
FSP-FB20170925	EB	T	JC51716	9/25/2017		-	-	-	-	-	-	-	< 0.85 U	< 8.1 U	-	-	-
GAR-RI-FB20161211A	EB	T	JC33474	12/11/2016		-	< 3.3 U	-	-	-	-	-	< 0.81 U	< 3.9 UJ	-	-	-
GAR-RI-FB20161211A-FF	EB	D	JC33474	12/11/2016		-	< 3.3 U	-	-	-	-	-	< 0.81 U	< 3.9 UJ	-	-	-
GAR-RI-FB20161218A	EB	T	JC33969	12/18/2016		-	< 3.3 U	-	-	-	-	-	1.0 J	< 3.9 U	-	-	-
GAR-RI-FB20161218A-FF	EB	D	JC33969	12/18/2016		-	< 3.3 U	-	-	-	-	-	< 0.81 U	< 3.9 U	-	-	-
FB-201905300	EB	T	JC88938	5/30/2019		-	< 4.7 U	-	-	-	-	-	< 2.0 U	< 5.8 U	-	-	-
FB20190531	EB	T	JC89029	5/31/2019		-	< 4.7 U	-	-	-	-	-	< 2.0 U	< 5.8 U	-	-	-
FB-20191021	EB	T	JC97157	10/21/2019		-	< 6.0 U	-	-	-	-	-	< 10 U	< 10 U	-	-	-
FB-20191022	EB	T	JC97214	10/22/2019		-	< 4.7 U	-	-	-	-	-	< 2.0 U	< 10 U	-	-	-
FB20200819	EB	T	JD11956	8/19/2020		-	< 4.7 U	-	-	-	-	-	< 2.0 U	< 5.8 U	-	-	-
FB20200820	EB	T	JD12022	8/20/2020		-	< 4.7 U	-	-	-	-	-	< 2.0 U	< 5.8 U	-	-	-
FB20200821	EB	T	JD12104	8/21/2020		-	< 4.7 U	-	-	-	-	-	< 2.0 U	< 5.8 U	-	-	-
FB20200824	EB	T	JD12146	8/24/2020		-	< 4.7 U	-	-	-	-	-	< 2.0 U	< 5.8 U	-	-	-
FB-GWRI-20200825	EB	T	JD12215	8/25/2020		-	< 4.7 U	-	-	-	-	-	< 2.0 U	< 5.8 UJ	-	-	-
FB-GWRI-20200826	EB	T	JD12249	8/26/2020		-	< 4.7 U	-	-	-	-	-	< 2.0 U	< 5.8 UJ	-	-	-
FB-GWRI-20200827	EB	T	JD12322	8/27/2020		-	< 4.7 U	-	-	-	-	-	< 2.0 U	< 5.8 U	-	-	-
FB20200828	EB	T	JD12393	8/28/2020		-	< 4.7 U	-	-	-	-	-	< 2.0 U	< 5.8 U	-	-	-
FB-GWRI-20200831	EB	T	JD12474	8/31/2020		-	< 4.7 U	-	-	-	-	-	< 2.0 U	< 5.8 U	-	-	-
FB-GWRI-20200901	EB	T	JD12508	9/1/2020		-	< 4.7 U	-	-	-	-	-	< 2.0 U	< 5.8 U	-	-	-
FB-GWRI-20200902	EB	T	JD12593	9/2/2020		-	< 4.7 U	-	-	-	-	-	< 2.0 U	< 5.8 U	-	-	-
FB-GWRI-20210209	FB	T	JD20125	2/9/2021		-	< 4.7 U	-	-	-	-	-	< 2.0 U	< 5.8 UJ	-	-	-
FB-GWRI-20210210	FB	T	JD20166	2/10/2021		-	< 4.7 U	-	-	-	-	-	< 2.0 U	< 5.8 U	-	-	-
FB-GWRI-20210211	FB	T	JD20260	2/11/2021		-	< 4.7 U	-	-	-	-	-	< 2.0 U	< 5.8 U	-	-	-
FB-GWRI-20210212	FB	T	JD20313	2/12/2021		-	< 4.7 U	-	-	-	-	-	< 2.0 U	< 5.8 U	-	-	-
FB-GWRI-20210215B	FB	T	JD20380	2/15/2021		-	< 4.7 U	-	-	-	-	-	< 2.0 U	< 5.8 U	-	-	-

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Sample ID	Sample Type	Fraction	Lab SDG	Analyte CAS RN Units Date Collected	LEAD	MAGNESIUM	MANGANESE	MERCURY	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	STRONTIUM	THALLIUM	VANADIUM	ZINC
					7439-92-1 ug/L	7439-95-4 ug/L	7439-96-5 ug/L	7439-97-6 ug/L	7440-02-0 ug/L	7440-09-7 ug/L	7782-49-2 ug/L	7440-22-4 ug/L	7440-23-5 ug/L	7440-24-6 ug/L	7440-28-0 ug/L	7440-62-2 ug/L	7440-66-6 ug/L
114-FB20171102-F	EB	D	JC54569	11/2/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
114-FB20171102-F	EB	D	JC54569A	11/2/2017	-	-	-	-	< 1.3 U	-	-	-	-	-	< 1.6 U	< 1.3 U	-
10W-FB20170710	EB	T	JC46649	7/10/2017	-	-	-	-	1.8 J	-	-	-	-	-	< 1.6 U	< 1.3 U	-
10W-FB20170711	EB	T	JC46746	7/11/2017	-	-	-	-	1.5 J	-	-	-	-	-	< 1.6 UJ	< 1.3 U	-
10W-FB20170713	EB	T	JC46901	7/13/2017	-	-	-	-	2.1 J	-	-	-	-	-	< 1.6 U	< 1.3 U	-
114-FB20170926	EB	T	JC51802	9/26/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
114-FB20170926	EB	T	JC51824	9/26/2017	< 2.6 U	< 64 U	< 0.42 U	< 0.083 U	< 1.3 U	442 J	< 6.6 U	< 3.1 U	2740 J	-	< 1.6 U	< 1.3 U	< 4.0 U
114-FB20170927	EB	T	JC51874	9/27/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
114-FB20170927	EB	T	JC51890	9/27/2017	< 2.6 U	< 64 U	< 0.42 U	< 0.083 U	< 1.3 U	< 230 U	< 6.6 U	< 3.1 U	< 130 U	-	< 1.6 U	< 1.3 U	< 4.0 U
114-FB20170928	EB	T	JC52029	9/28/2017	< 2.6 U	< 64 U	< 0.42 U	< 0.083 U	< 1.3 U	< 230 U	< 6.6 U	< 3.1 U	426 J	-	< 1.6 U	< 1.3 U	< 4.0 U
114-FB20170928.	EB	T	JC52007	9/28/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
114-FB20170928.	EB	T	JC52007A	9/28/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
114-FB20171016	EB	D	JC53234	10/16/2017	-	-	-	-	< 1.3 U	-	-	-	-	-	< 1.6 U	< 1.3 U	-
114-FB20171016	EB	D	JC53234A	10/16/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
114-FB20171016	EB	T	JC53234	10/16/2017	-	-	-	-	< 1.3 U	-	-	-	-	-	< 1.6 U	< 1.3 U	-
114-FB20171016	EB	T	JC53234A	10/16/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
114-FB20171031	EB	T	JC54328	10/31/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
114-FB20171031	EB	T	JC54328A	10/31/2017	-	-	-	-	< 1.3 U	-	-	-	-	-	< 1.6 U	< 1.3 U	-
114-FB20171031-LF	EB	D	JC54328	10/31/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
114-FB20171031-LF	EB	D	JC54328A	10/31/2017	-	-	-	-	< 1.3 U	-	-	-	-	-	< 1.6 U	< 1.3 U	-
114-FB20171102	EB	T	JC54569	11/2/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
114-FB20171102	EB	T	JC54569A	11/2/2017	-	-	-	-	< 1.3 U	-	-	-	-	-	< 1.6 U	< 1.3 U	-
114-FB20171113A	EB	T	JC55349	11/13/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
114-FB20171113A	EB	T	JC55349A	11/13/2017	-	-	-	-	< 1.3 U	-	-	-	-	-	< 1.6 U	< 1.3 U	-
FB-20171214	EB	T	JC57385	12/14/2017	< 2.6 U	< 64 U	< 0.42 U	< 0.083 U	< 1.3 U	231 J	< 6.6 U	< 3.1 U	< 130 U	< 0.30 U	< 0.047 U	< 1.3 U	< 4.0 U
FB-20171215	EB	T	JC57501	12/15/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
FB-20171215	EB	T	JC57501A	12/15/2017	-	-	-	-	2.0 J	-	-	-	-	-	< 1.6 U	< 1.3 U	-
FB-20171220	EB	T	JC57752	12/20/2017	< 2.6 U	< 64 U	< 0.42 U	< 0.083 U	< 1.3 U	< 230 U	< 6.6 U	< 3.1 U	< 130 U	< 0.30 U	< 0.047 U	< 1.3 U	< 4.0 U
FB-20171221	EB	T	JC57820	12/21/2017	< 2.6 U	< 64 U	< 0.42 U	< 0.083 U	< 1.3 U	< 230 U	< 6.6 U	< 3.1 U	143 J	< 0.30 U	< 0.047 U	< 1.3 U	< 4.0 U
FB-20171222	EB	T	JC57943	12/22/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
FB-20171222	EB	T	JC57943A	12/22/2017	< 2.6 U	< 64 U	< 0.42 U	< 0.083 U	< 1.3 U	< 230 U	< 6.6 U	< 3.1 U	< 130 U	< 0.30 U	< 0.047 U	< 1.3 U	< 4.0 U
FB-20171226	EB	T	JC58028	12/26/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
FB-20171226	EB	T	JC58028A	12/26/2017	< 2.6 U	< 64 U	< 0.42 U	0.17 J	< 1.3 U	< 230 U	< 6.6 U	< 3.1 U	142 J	< 0.30 U	< 0.047 U	< 1.3 U	< 4.0 U
FB-20171227	EB	T	JC58073	12/27/2017	-	-	-	-	-	-	-	-	-	-	-	-	-
FB-20171227	EB	T	JC58073A	12/27/2017	< 2.6 U	< 64 U	< 0.42 U	< 0.083 U	< 1.3 U	< 230 U	< 6.6 U	< 3.1 U	131 J	< 0.30 U	< 0.047 U	< 1.3 U	< 4.0 U
FB-20180116	EB	T	JC58942	1/16/2018	< 2.6 U	< 64 U	1.2 J	< 0.083 U	< 1.3 U	< 230 U	< 6.6 U	< 3.1 U	180 J	4.4 J	< 0.047 U	< 1.3 U	< 4.0 U
FB-20180208	EB	T	JC60477	2/8/2018	-	-	-	-	1.5 J	-	-	-	-	-	< 1.6 U	< 1.3 U	-
FB-20180209	EB	T	JC60564	2/9/2018	-	-	-	-	< 1.3 U	-	-	-	-	-	< 1.6 U	< 1.3 U	-
FB-20180209-A	EB	T	JC60563	2/9/2018	-	-	-	-	1.3 J	-	-	-	-	-	< 1.6 U	< 1.3 U	-
FB-20180212	EB	T	JC60652	2/12/2018	-	-	-	-	< 1.3 U	-	-	-	-	-	< 1.6 U	< 1.3 U	-
FB-20180312	EB	T	JC62130	3/12/2018	< 2.6 U	< 64 U	< 0.42 U	< 0.083 U	< 1.3 U	< 230 U	< 6.6 U	< 3.1 U	219 J	-	< 0.047 U	< 1.3 U	< 4.0 U
FB-20180313	EB	D	JC62228	3/13/2018	< 2.6 U	< 64 U	0.90 J	< 0.083 U	< 1.3 U	< 230 U	< 6.6 U	< 3.1 U	< 130 U	-	0.050 J	< 1.3 U	15.0 J
FB-20180313	EB	T	JC62228	3/13/2018	< 2.6 U	< 64 U	< 0.42 U	< 0.083 U	< 1.3 U	< 230 U	< 6.6 U	< 3.1 U	< 130 U	-	< 0.047 U	< 1.3 U	< 4.0 U
FB-20180417	EB	D	JC64376	4/17/2018	< 2.6 U	< 64 U	0.50 J	< 0.13 U	< 1.3 U	< 230 U	< 6.6 U	< 3.1 U	211 J	-	< 0.047 U	< 1.3 U	< 4.0 U
FB-20180417	EB	T	JC64376	4/17/2018	< 2.6 U	< 64 U	< 0.42 U	< 0.13 U	< 1.3 U	< 230 U	< 6.6 U	< 3.1 U	211 J	-	0.17 J	< 1.3 U	< 4.0 U
FB-20180418	EB	T	JC64444	4/18/2018	-	-	-	-	< 1.3 U	-	-	-	-	-	< 0.047 U	< 1.3 U	-
FB-20180419	EB	D	JC64571	4/19/2018	< 2.6 U	< 64 U	< 0.42 U	< 0.13 U	< 1.3 U	< 230 U	< 6.6 U	< 3.1 U	< 130 U	1.2 J	< 0.047 U	< 1.3 U	< 4.0 U
FB-20180419	EB	T	JC64571	4/19/2018	< 2.6 U	< 64 U	< 0.42 U	< 0.13 U	< 1.3 U	< 230 U	< 6.6 U	< 3.1 U	< 130 U	1.1 J	< 0.047 U	< 1.3 U	< 4.0 U
FB-20180420	EB	T	JC64643	4/20/2018	< 2.6 U	< 64 U	< 0.42 U	< 0.13 U	< 1.3 U	< 230 U	< 6.6 U	< 3.1 U	< 130 U	1.3 J	< 0.047 U	< 1.3 U	< 4.0 U

**Table 5-5  
Analytical Results from Quality Assurance Samples - Cr+6 and Metals  
Groundwater Remedial Investigation Report  
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Sample ID	Sample Type	Fraction	Lab SDG	Date Collected	Analyte	LEAD	MAGNESIUM	MANGANESE	MERCURY	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	STRONTIUM	THALLIUM	VANADIUM	ZINC
					CAS RN	7439-92-1 ug/L	7439-95-4 ug/L	7439-96-5 ug/L	7439-97-6 ug/L	7440-02-0 ug/L	7440-09-7 ug/L	7782-49-2 ug/L	7440-22-4 ug/L	7440-23-5 ug/L	7440-24-6 ug/L	7440-28-0 ug/L	7440-62-2 ug/L	7440-66-6 ug/L
FB-20180423	EB	T	JC64763	4/23/2018		< 2.6 U	< 64 U	0.50 J	< 0.13 U	< 1.3	< 230 U	< 6.6 U	< 3.1 U	-	0.60 J	< 0.047	< 1.3	< 4.0 U
FB-20180424	EB	T	JC64822	4/24/2018		-	-	-	< 0.13 U	< 1.3 U	-	-	-	-	-	< 0.047 U	< 1.3 U	-
FB-20180425	EB	D	JC64901	4/25/2018		-	-	-	-	< 1.3 U	-	-	-	-	-	< 0.047 U	< 1.3 U	-
FB-20180425	EB	T	JC64901	4/25/2018		-	-	-	-	< 1.3 U	-	-	-	-	-	< 0.047 U	< 1.3 U	-
FB-20180426	EB	D	JC64986	4/26/2018		-	-	-	-	< 1.3 U	-	-	-	-	-	< 0.047 U	< 1.3 U	-
FB-20180426	EB	T	JC64986	4/26/2018		-	-	-	-	< 1.3 U	-	-	-	-	-	< 0.047 U	< 1.3 U	-
FB-20180427	EB	D	JC65066	4/27/2018		-	-	-	-	2.5 J	-	-	-	-	-	< 0.047 U	< 1.3 U	-
FB-20180427	EB	T	JC65066	4/27/2018		-	-	-	-	< 1.3 U	-	-	-	-	-	< 0.047 U	< 1.3 U	-
FB-20180430	EB	T	JC65178	4/30/2018		-	-	-	-	< 1.3 U	-	-	-	-	-	< 0.047 U	< 1.3 U	-
FB-20180501	EB	T	JC65255	5/1/2018		-	-	-	-	2.4 J	-	-	-	-	-	< 0.047 U	< 1.3 U	-
FB-20180502	EB	D	JC65325	5/2/2018		-	-	-	-	-	-	-	-	-	-	-	-	-
FB-20180502	EB	T	JC65325	5/2/2018		< 2.6 U	< 64 U	< 0.42 U	< 0.13 U	< 1.3 U	< 230 U	< 6.6 U	< 3.1 U	< 130 UB	1.6 J	< 0.047 U	< 1.3 U	< 4.0 U
FB-20180531	EB	T	JC67069	5/31/2018		-	-	-	-	< 1.3 U	-	-	-	-	-	< 0.047 U	< 1.3 U	-
FIELD BLANK-20171219	EB	T	JC57638	12/19/2017		-	-	-	-	1.4 J	-	-	-	-	-	< 1.6 U	< 1.3 U	-
FORREST-FB20171204	EB	T	JC56504	12/4/2017		-	-	-	-	-	-	-	-	-	-	-	-	-
FORREST-FB20171204	EB	T	JC56504A	12/4/2017		< 2.6 U	< 64 U	0.80 J	< 0.083 U	1.6 J	< 230 U	< 6.6 U	< 3.1 U	375 J	4.2 J	< 0.047 U	< 1.3 U	< 4.0 U
FORREST-FB20171206	EB	T	JC56729	12/6/2017		-	-	-	-	-	-	-	-	-	-	-	-	-
FORREST-FB20171206	EB	T	JC56729A	12/6/2017		< 2.6 U	< 64 U	0.80 J	< 0.083 U	1.9 J	< 230 U	< 6.6 U	< 3.1 U	< 130 U	3.6 J	< 0.047 U	< 1.3 U	< 4.0 U
FORREST-FB20171207	EB	T	JC56859	12/7/2017		-	-	-	-	-	-	-	-	-	-	-	-	-
FORREST-FB20171207	EB	T	JC56859A	12/7/2017		< 2.6 U	< 64 U	2.3 J	0.084 J	3.4 J	< 230 U	< 6.6 U	< 3.1 U	256 J	6.0 J	< 0.047 U	< 1.3 U	< 4.0 U
FORREST-FB-20171218	EB	T	JC57565	12/18/2017		< 2.6 U	< 64 U	0.80 J	< 0.083 U	1.7 J	< 230 U	< 6.6 U	< 3.1 U	< 130 U	3.7 J	< 0.047 U	< 1.3 U	< 4.0 U
FSP-FB20170925	EB	T	JC51716	9/25/2017		-	-	-	-	-	-	-	-	-	-	-	-	-
GAR-RI-FB20161211A	EB	T	JC33474	12/11/2016		-	-	-	-	0.90 J	-	-	-	-	-	< 1.9 U	< 0.66 U	-
GAR-RI-FB20161211A-FF	EB	D	JC33474	12/11/2016		-	-	-	-	< 0.76 U	-	-	-	-	-	< 1.9 U	< 0.66 U	-
GAR-RI-FB20161218A	EB	T	JC33969	12/18/2016		-	-	-	-	1.7 J	-	-	-	-	-	< 1.9 U	0.70 J	-
GAR-RI-FB20161218A-FF	EB	D	JC33969	12/18/2016		-	-	-	-	< 0.76 UB	-	-	-	-	-	< 1.9 U	< 0.66 U	-
FB-201905300	EB	T	JC88938	5/30/2019		-	-	-	-	< 1.7 U	-	-	-	-	-	< 0.17 U	< 1.8 U	-
FB20190531	EB	T	JC89029	5/31/2019		-	-	-	-	< 1.7 U	-	-	-	-	-	< 0.17 U	< 1.8 U	-
FB-20191021	EB	T	JC97157	10/21/2019		-	-	-	-	< 10 U	-	-	-	-	-	< 10 U	< 50 U	-
FB-20191022	EB	T	JC97214	10/22/2019		-	-	-	-	< 1.7 U	-	-	-	-	-	< 1.8 U	< 1.8 U	-
FB20200819	EB	T	JD11956	8/19/2020		-	-	-	-	< 1.7 U	-	-	-	-	-	< 0.17 U	< 1.8 U	-
FB20200820	EB	T	JD12022	8/20/2020		-	-	-	-	< 1.7 U	-	-	-	-	-	< 0.17 U	< 1.8 U	-
FB20200821	EB	T	JD12104	8/21/2020		-	-	-	-	< 1.7 U	-	-	-	-	-	< 0.17 U	< 1.8 U	-
FB20200824	EB	T	JD12146	8/24/2020		-	-	-	-	< 1.7 U	-	-	-	-	-	< 0.17 U	< 1.8 U	-
FB-GWRI-20200825	EB	T	JD12215	8/25/2020		-	-	-	-	< 1.7 U	-	-	-	-	-	< 0.17 U	< 1.8 U	-
FB-GWRI-20200826	EB	T	JD12249	8/26/2020		-	-	-	-	< 1.7 U	-	-	-	-	-	< 0.17 U	< 1.8 U	-
FB-GWRI-20200827	EB	T	JD12322	8/27/2020		-	-	-	-	< 1.7 U	-	-	-	-	-	< 0.17 U	< 1.8 U	-
FB20200828	EB	T	JD12393	8/28/2020		-	-	-	-	< 1.7 U	-	-	-	-	-	< 0.17 U	< 1.8 U	-
FB-GWRI-20200831	EB	T	JD12474	8/31/2020		-	-	-	-	< 1.7 U	-	-	-	-	-	< 0.17 U	< 1.8 U	-
FB-GWRI-20200901	EB	T	JD12508	9/1/2020		-	-	-	-	< 1.7 U	-	-	-	-	-	< 0.17 U	< 1.8 U	-
FB-GWRI-20200902	EB	T	JD12593	9/2/2020		-	-	-	-	< 1.7 U	-	-	-	-	-	< 0.17 U	< 1.8 U	-
FB-GWRI-20210209	FB	T	JD20125	2/9/2021		-	-	-	-	< 1.7 U	-	-	-	-	-	< 0.17 U	< 1.8 U	-
FB-GWRI-20210210	FB	T	JD20166	2/10/2021		-	-	-	-	< 1.7 U	-	-	-	-	-	< 0.17 U	< 1.8 U	-
FB-GWRI-20210211	FB	T	JD20260	2/11/2021		-	-	-	-	< 1.7 U	-	-	-	-	-	< 0.17 U	< 1.8 U	-
FB-GWRI-20210212	FB	T	JD20313	2/12/2021		-	-	-	-	< 1.7 U	-	-	-	-	-	< 0.17 U	< 1.8 U	-
FB-GWRI-20210215B	FB	T	JD20380	2/15/2021		-	-	-	-	< 1.7 U	-	-	-	-	-	< 0.17 U	< 1.8 U	-

**Table 5-5**  
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**NOTE:**

1. A "-" indicates the sample was not tested for the analyte.

**ABBREVIATIONS:**

CAS RN - Chemical Abstracts Service Registry Number

Cr<sup>+6</sup> - hexavalent chromium

EB - equipment blank/field blank

Fractions:

D - dissolved/filtered

T - total/unfiltered

RL - reporting limit

SDG - sample delivery group

ug/L - micrograms per liter

**QUALIFIERS:**

J - Indicates the result was an estimated value; the associated numerical value was an approximate concentration of the analyte in the sample. J+ or J- is used when the direction of bias can be determined.

U - Indicates the analyte was not detected in the sample above the sample RL.

UB - The analyte concentration is less than or equal to three (3) times the concentration in the associated method/preparation blank. The presence of the analyte in the sample is negated due to laboratory blank contamination.

UJ - Indicates the analyte was not detected above the RL and the RL was approximate.