

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
10/31/18	3,975	2.8	1,694	1.2	898	0.6	6,567	4.6	0.00	System Startup
11/1/18	5,702	4.0	3,178	2.2	1,411	1.0	10,291	7.1	0.00	
11/2/18	5,348	3.7	2,934	2.0	1,262	0.9	9,544	6.6	1.82	
11/3/18	5,376	3.7	2,857	2.0	1,254	0.9	9,487	6.6	0.00	
11/4/18	5,462	3.8	2,808	2.0	1,311	0.9	9,581	6.7	0.00	
11/5/18	4,424	3.1	2,541	1.8	1,349	0.9	8,314	5.8	0.49	No System Flow For 5hrs
11/6/18	4,759	3.3	2,296	1.6	1,218	0.8	8,273	5.7	0.79	No System Flow For 12.5hrs
11/7/18	6,121	4.3	2,814	2.0	1,748	1.2	10,683	7.4	0.00	
11/8/18	6,161	4.3	2,879	2.0	1,770	1.2	10,810	7.5	0.00	
11/9/18	6,199	4.3	2,898	2.0	1,781	1.2	10,878	7.6	0.50	
11/10/18	6,206	4.3	2,877	2.0	1,773	1.2	10,856	7.5	0.00	
11/11/18	6,243	4.3	2,823	2.0	1,773	1.2	10,839	7.5	0.00	
11/12/18	6,174	4.3	2,871	2.0	1,752	1.2	10,797	7.5	0.28	
11/13/18	6,251	4.3	2,904	2.0	1,771	1.2	10,926	7.6	0.43	
11/14/18	6,285	4.4	2,888	2.0	1,874	1.3	11,047	7.7	0.00	
11/15/18	6,319	4.4	2,917	2.0	1,880	1.3	11,116	7.7	0.77	
11/16/18	6,392	4.4	2,955	2.1	1,879	1.3	11,226	7.8	0.19	
11/17/18	0	0.0	0	0.0	0	0.0	0	0.0	0.00	No System Flow For 24hrs
11/18/18	7,188	5.0	2,692	1.9	1,913	1.3	11,793	8.2	0.00	
11/19/18	7,399	5.1	3,036	2.1	2,208	1.5	12,643	8.8	0.00	
11/20/18	7,191	5.0	2,902	2.0	2,168	1.5	12,261	8.5	0.00	
11/21/18	7,087	4.9	2,837	2.0	2,095	1.5	12,019	8.3	0.00	
11/22/18	6,753	4.7	2,724	1.9	1,957	1.4	11,434	7.9	0.00	No System Flow For 2hrs
11/23/18	7,152	5.0	2,728	1.9	1,995	1.4	11,875	8.2	0.00	
11/24/18	7,192	5.0	2,747	1.9	2,028	1.4	11,967	8.3	1.58	
11/25/18	7,334	5.1	2,808	2.0	2,300	1.6	12,442	8.6	0.00	
11/26/18	7,464	5.2	2,798	1.9	2,402	1.7	12,664	8.8	0.16	
11/27/18	7,475	5.2	2,706	1.9	2,362	1.6	12,543	8.7	0.00	
11/28/18	7,415	5.1	2,660	1.8	2,324	1.6	12,399	8.6	0.00	
11/29/18	7,378	5.1	2,595	1.8	2,282	1.6	12,255	8.5	0.00	
11/30/18	7,323	5.1	2,557	1.8	2,235	1.6	12,115	8.4	0.02	
12/1/18	7,285	5.1	2,537	1.8	2,185	1.5	12,007	8.3	0.15	
12/2/18	7,320	5.1	2,539	1.8	2,139	1.5	11,998	8.3	0.15	
12/3/18	7,258	5.0	2,525	1.8	2,126	1.5	11,909	8.3	0.00	
12/4/18	7,179	5.0	2,491	1.7	2,096	1.5	11,766	8.2	0.00	
12/5/18	7,130	5.0	2,473	1.7	2,040	1.4	11,643	8.1	0.00	
12/6/18	7,070	4.9	2,465	1.7	1,994	1.4	11,529	8.0	0.00	
12/7/18	6,982	4.8	2,455	1.7	1,936	1.3	11,373	7.9	0.00	
12/8/18	6,937	4.8	2,433	1.7	1,877	1.3	11,247	7.8	0.00	
12/9/18	6,909	4.8	2,410	1.7	1,827	1.3	11,146	7.7	0.00	
12/10/18	6,852	4.8	2,400	1.7	1,795	1.2	11,047	7.7	0.00	
12/11/18	6,803	4.7	2,388	1.7	1,733	1.2	10,924	7.6	0.00	
12/12/18	6,720	4.7	2,400	1.7	1,701	1.2	10,821	7.5	0.00	
12/13/18	6,660	4.6	2,369	1.6	1,669	1.2	10,698	7.4	0.00	
12/14/18	6,614	4.6	2,349	1.6	1,639	1.1	10,602	7.4	0.07	
12/15/18	6,619	4.6	2,351	1.6	1,633	1.1	10,603	7.4	0.58	
12/16/18	6,737	4.7	2,386	1.7	1,663	1.2	10,786	7.5	0.29	
12/17/18	6,845	4.8	2,426	1.7	1,853	1.3	11,124	7.7	0.00	
12/18/18	6,772	4.7	2,425	1.7	1,944	1.4	11,141	7.7	0.00	
12/19/18	6,768	4.7	2,413	1.7	1,932	1.3	11,113	7.7	0.00	
12/20/18	6,777	4.7	2,399	1.7	1,921	1.3	11,097	7.7	0.40	
12/21/18	6,913	4.8	2,446	1.7	1,977	1.4	11,336	7.9	0.40	
12/22/18	6,882	4.8	2,456	1.7	2,081	1.4	11,419	7.9	0.03	
12/23/18	6,873	4.8	2,451	1.7	2,137	1.5	11,461	8.0	0.02	
12/24/18	6,856	4.8	2,438	1.7	2,127	1.5	11,421	7.9	0.02	
12/25/18	6,833	4.7	2,418	1.7	2,107	1.5	11,358	7.9	0.00	
12/26/18	6,812	4.7	2,401	1.7	2,074	1.4	11,287	7.8	0.00	
12/27/18	6,799	4.7	2,389	1.7	2,050	1.4	11,238	7.8	0.00	
12/28/18	6,878	4.8	2,427	1.7	2,072	1.4	11,377	7.9	0.91	
12/29/18	6,951	4.8	2,486	1.7	2,218	1.5	11,655	8.1	0.00	

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	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
12/30/18	6,964	4.8	2,473	1.7	2,270	1.6	11,707	8.1	0.00	
12/31/18	6,955	4.8	2,499	1.7	2,268	1.6	11,722	8.1	0.67	
1/1/19	7,025	4.9	2,544	1.8	2,334	1.6	11,903	8.3	0.00	
1/2/19	7,045	4.9	2,490	1.7	2,382	1.7	11,917	8.3	0.00	
1/3/19	7,042	4.9	2,497	1.7	2,388	1.7	11,927	8.3	0.00	
1/4/19	7,009	4.9	2,469	1.7	2,373	1.6	11,851	8.2	0.09	
1/5/19	6,997	4.9	2,472	1.7	2,348	1.6	11,817	8.2	0.02	
1/6/19	6,907	4.8	2,454	1.7	2,298	1.6	11,659	8.1	0.00	
1/7/19	6,888	4.8	2,430	1.7	2,235	1.6	11,553	8.0	0.04	
1/8/19	6,910	4.8	2,426	1.7	2,208	1.5	11,544	8.0	0.16	
1/9/19	6,866	4.8	2,410	1.7	2,150	1.5	11,426	7.9	0.00	
1/10/19	6,786	4.7	2,423	1.7	2,063	1.4	11,272	7.8	0.00	
1/11/19	6,699	4.7	2,425	1.7	1,991	1.4	11,115	7.7	0.00	
1/12/19	6,657	4.6	2,436	1.7	1,927	1.3	11,020	7.7	0.03	
1/13/19	6,640	4.6	2,421	1.7	1,879	1.3	10,940	7.6	0.04	
1/14/19	6,610	4.6	2,393	1.7	1,833	1.3	10,836	7.5	0.00	
1/15/19	6,596	4.6	2,379	1.7	1,779	1.2	10,754	7.5	0.00	
1/16/19	6,518	4.5	2,360	1.6	1,671	1.2	10,549	7.3	0.00	SPBA Power Failure (1hr)
1/17/19	6,581	4.57	2,349	1.63	1,648	1.14	10,578	7.3	0.05	
1/18/19	6,640	4.61	2,317	1.61	1,646	1.14	10,603	7.4	0.01	
1/19/19	6,548	4.55	2,282	1.58	1,633	1.13	10,463	7.3	0.97	
1/20/19	6,576	4.57	2,363	1.64	1,757	1.22	10,696	7.4	0.50	SPBA Power Failure (1hr)
1/21/19	6,803	4.7	2,532	1.8	2,166	1.5	11,501	8.0	0.00	
1/22/19	6,795	4.7	2,509	1.7	2,208	1.5	11,512	8.0	0.00	
1/23/19	6,852	4.8	2,493	1.7	2,175	1.5	11,520	8.0	0.00	
1/24/19	6,895	4.8	2,498	1.7	2,160	1.5	11,553	8.0	0.77	
1/25/19	6,951	4.8	2,492	1.7	2,206	1.5	11,649	8.1	0.00	
1/26/19	6,957	4.8	2,475	1.7	2,228	1.5	11,660	8.1	0.00	
1/27/19	6,966	4.8	2,477	1.7	2,242	1.6	11,685	8.1	0.00	
1/28/19	6,909	4.8	2,475	1.7	2,222	1.5	11,606	8.1	0.00	
1/29/19	6,897	4.8	2,462	1.7	2,198	1.5	11,557	8.0	0.12	
1/30/19	6,825	4.7	2,448	1.7	2,168	1.5	11,441	7.9	0.00	
1/31/19	6,765	4.7	2,419	1.7	2,118	1.5	11,302	7.8	0.00	
2/1/19	6,744	4.7	2,416	1.7	2,065	1.4	11,225	7.8	0.06	
2/2/19	6,732	4.7	2,409	1.7	2,021	1.4	11,162	7.8	0.00	
2/3/19	6,679	4.6	2,402	1.7	1,972	1.4	11,053	7.7	0.00	
2/4/19	6,651	4.6	2,402	1.7	1,922	1.3	10,975	7.6	0.00	
2/5/19	6,617	4.6	2,388	1.7	1,869	1.3	10,874	7.6	0.00	
2/6/19	6,580	4.6	2,374	1.6	1,808	1.3	10,762	7.5	0.11	
2/7/19	6,551	4.5	2,377	1.7	1,769	1.2	10,697	7.4	0.00	
2/8/19	6,520	4.5	2,359	1.6	1,717	1.2	10,596	7.4	0.11	
2/9/19	6,463	4.5	2,333	1.6	1,659	1.2	10,455	7.3	0.00	
2/10/19	6,474	4.5	2,311	1.6	1,643	1.1	10,428	7.2	0.09	
2/11/19	6,455	4.5	2,308	1.6	1,630	1.1	10,393	7.2	0.17	
2/12/19	6,459	4.5	2,311	1.6	1,622	1.1	10,392	7.2	0.56	
2/13/19	6,555	4.6	2,358	1.6	1,673	1.2	10,586	7.4	0.00	
2/14/19	6,551	4.5	2,356	1.6	1,732	1.2	10,639	7.4	0.00	
2/15/19	6,585	4.6	2,371	1.6	1,779	1.2	10,735	7.5	0.00	
2/16/19	6,529	4.5	2,378	1.7	1,789	1.2	10,696	7.4	0.00	
2/17/19	6,510	4.5	2,368	1.6	1,794	1.2	10,672	7.4	0.06	
2/18/19	6,491	4.5	2,359	1.6	1,813	1.3	10,663	7.4	0.00	
2/19/19	6,437	4.5	2,336	1.6	1,784	1.2	10,557	7.3	0.00	
2/20/19	6,466	4.5	2,339	1.6	1,774	1.2	10,579	7.3	0.62	
2/21/19	6,457	4.5	2,338	1.6	1,769	1.2	10,564	7.3	0.00	
2/22/19	6,468	4.5	2,350	1.6	1,789	1.2	10,607	7.4	0.00	
2/23/19	6,519	4.5	2,345	1.6	1,817	1.3	10,681	7.4	0.01	
2/24/19	6,181	4.3	2,449	1.7	1,623	1.1	10,253	7.1	0.41	SPBA Radio Comm Fault (4hrs)
2/25/19	6,750	4.7	2,700	1.9	1,925	1.3	11,375	7.9	0.00	
2/26/19	6,702	4.7	2,667	1.9	1,980	1.4	11,349	7.9	0.00	

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2/27/19	6,729	4.7	2,621	1.8	2,003	1.4	11,353	7.9	0.00	
2/28/19	6,695	4.6	2,617	1.8	2,005	1.4	11,317	7.9	0.00	
3/1/19	6,653	4.6	2,597	1.8	1,976	1.4	11,226	7.8	0.34	
3/2/19	6,679	4.6	2,590	1.8	1,960	1.4	11,229	7.8	0.13	
3/3/19	6,716	4.7	2,580	1.8	1,945	1.4	11,241	7.8	0.43	
3/4/19	6,741	4.7	2,583	1.8	1,930	1.3	11,254	7.8	0.00	
3/5/19	6,727	4.7	2,583	1.8	1,918	1.3	11,228	7.8	0.00	
3/6/19	6,681	4.6	2,560	1.8	1,910	1.3	11,151	7.7	0.00	
3/7/19	6,647	4.6	2,545	1.8	1,888	1.3	11,080	7.7	0.00	
3/8/19	6,623	4.6	2,536	1.8	1,869	1.3	11,028	7.7	0.00	
3/9/19	6,595	4.6	2,527	1.8	1,846	1.3	10,968	7.6	0.14	
3/10/19	6,973	4.8	2,434	1.7	2,454	1.7	11,861	8.2	0.59	
3/11/19	6,482	4.5	2,434	1.7	1,993	1.4	10,909	7.6	0.00	
3/12/19	6,529	4.5	2,480	1.7	2,114	1.5	11,123	7.7	0.00	
3/13/19	6,552	4.6	2,480	1.7	2,163	1.5	11,195	7.8	0.00	
3/14/19	6,482	4.5	2,457	1.7	2,114	1.5	11,053	7.7	0.00	System Maintenance - GAC Changeout (7.5hrs)
3/15/19	7,114	4.9	2,668	1.9	2,309	1.6	12,091	8.4	0.11	
3/16/19	6,622	4.6	2,504	1.7	2,211	1.5	11,337	7.9	0.00	
3/17/19	6,482	4.5	2,480	1.7	2,114	1.5	11,076	7.7	0.00	
3/18/19	6,482	4.5	2,434	1.7	2,090	1.5	11,006	7.6	0.00	
3/19/19	6,365	4.4	2,387	1.7	2,017	1.4	10,769	7.5	0.00	
3/20/19	6,341	4.4	2,410	1.7	1,944	1.4	10,695	7.4	0.00	
3/21/19	6,341	4.4	2,363	1.6	1,895	1.3	10,599	7.4	1.94	
3/22/19	6,739	4.7	2,387	1.7	1,944	1.4	11,070	7.7	0.63	
3/23/19	7,114	4.9	2,551	1.8	2,673	1.9	12,338	8.6	0.00	
3/24/19	7,090	4.9	2,480	1.7	2,795	1.9	12,365	8.6	0.00	
3/25/19	6,973	4.8	2,527	1.8	2,746	1.9	12,246	8.5	0.25	
3/26/19	6,950	4.8	2,504	1.7	2,624	1.8	12,078	8.4	0.00	
3/27/19	6,926	4.8	2,480	1.7	2,552	1.8	11,958	8.3	0.00	
3/28/19	6,880	4.8	2,410	1.7	2,503	1.7	11,793	8.2	0.00	
3/29/19	7,299	5.1	2,564	1.8	2,450	1.7	12,313	8.6	0.01	
3/30/19	7,273	5.1	2,536	1.8	2,390	1.7	12,199	8.5	0.00	
3/31/19	7,195	5.0	2,527	1.8	2,330	1.6	12,052	8.4	0.03	
4/1/19	7,059	4.9	2,506	1.7	2,225	1.5	11,790	8.2	0.00	
4/2/19	6,958	4.8	2,653	1.8	2,025	1.4	11,636	8.1	0.00	GWTS Effluent Pump 1 Maintenance (1hr) CW-22 Fault (2hrs)
4/3/19	6,935	4.8	2,700	1.9	1,981	1.4	11,616	8.1	0.00	
4/4/19	6,863	4.8	2,638	1.8	1,910	1.3	11,411	7.9	0.00	
4/5/19	6,821	4.7	2,616	1.8	1,852	1.3	11,289	7.8	0.16	
4/6/19	6,775	4.7	2,573	1.8	1,804	1.3	11,152	7.7	0.00	
4/7/19	6,752	4.7	2,545	1.8	1,751	1.2	11,048	7.7	0.02	
4/8/19	6,742	4.7	2,544	1.8	1,723	1.2	11,009	7.6	0.01	
4/9/19	6,691	4.6	2,532	1.8	1,694	1.2	10,917	7.6	0.00	
4/10/19	6,614	4.6	2,452	1.7	1,644	1.1	10,710	7.4	0.00	
4/11/19	6,549	4.5	2,437	1.7	1,581	1.1	10,567	7.3	0.00	
4/12/19	6,544	4.5	2,419	1.7	1,551	1.1	10,514	7.3	0.36	
4/13/19	6,553	4.6	2,414	1.7	1,532	1.1	10,499	7.3	0.02	
4/14/19	6,555	4.6	2,435	1.7	1,513	1.1	10,503	7.3	0.51	
4/15/19	6,572	4.6	2,470	1.7	1,503	1.0	10,545	7.3	0.24	
4/16/19	6,533	4.5	2,457	1.7	1,494	1.0	10,484	7.3	0.00	
4/17/19	6,511	4.5	2,439	1.7	1,470	1.0	10,420	7.2	0.00	
4/18/19	6,501	4.5	2,397	1.7	1,455	1.0	10,353	7.2	0.00	
4/19/19	6,488	4.5	2,367	1.6	1,445	1.0	10,300	7.2	0.00	
4/20/19	6,474	4.5	2,371	1.6	1,433	1.0	10,278	7.1	0.49	
4/21/19	6,404	4.4	2,351	1.6	1,393	1.0	10,148	7.0	0.04	
4/22/19	6,370	4.4	2,351	1.6	1,356	0.9	10,077	7.0	0.00	
4/23/19	6,365	4.4	2,352	1.6	1,341	0.9	10,058	7.0	0.00	
4/24/19	6,288	4.4	2,336	1.6	1,297	0.9	9,921	6.9	0.09	
4/25/19	6,232	4.3	2,329	1.6	1,247	0.9	9,808	6.8	0.00	
4/26/19	6,252	4.3	2,342	1.6	1,254	0.9	9,848	6.8	0.09	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
4/27/19	6,230	4.3	2,342	1.6	1,192	0.8	9,764	6.8	0.33	
4/28/19	6,194	4.3	2,324	1.6	1,140	0.8	9,658	6.7	0.00	
4/29/19	6,168	4.3	2,314	1.6	1,108	0.8	9,590	6.7	0.11	
4/30/19	6,153	4.3	2,313	1.6	1,086	0.8	9,552	6.6	0.00	
5/1/19	6,127	4.3	2,314	1.6	1,057	0.7	9,498	6.6	0.00	
5/2/19	6,100	4.2	2,327	1.6	1,048	0.7	9,475	6.6	0.00	
5/3/19	5,396	3.7	2,338	1.6	913	0.6	8,647	6.0	0.01	CW-21 Level Transmitter Fault (2.8hrs) CW-23 Level Transmitter Fault (2.2hrs)
5/4/19	4,972	3.5	2,614	1.8	1,094	0.8	8,680	6.0	1.37	CW-21 Level Transmitter Fault (8.6hrs) CW-23 Level Transmitter Fault (8.6hrs)
5/5/19	6,704	4.7	2,396	1.7	1,496	1.0	10,596	7.4	0.51	
5/6/19	6,746	4.7	2,406	1.7	1,660	1.2	10,812	7.5	0.63	
5/7/19	6,806	4.7	2,409	1.7	1,774	1.2	10,989	7.6	0.00	
5/8/19	6,790	4.7	2,394	1.7	1,779	1.2	10,963	7.6	0.00	
5/9/19	6,778	4.7	2,348	1.6	1,753	1.2	10,879	7.6	0.00	
5/10/19	6,757	4.7	2,342	1.6	1,728	1.2	10,827	7.5	0.00	
5/11/19	6,735	4.7	2,329	1.6	1,699	1.2	10,763	7.5	0.39	
5/12/19	6,807	4.7	2,354	1.6	1,682	1.2	10,843	7.5	0.73	
5/13/19	6,977	4.8	2,407	1.7	1,799	1.2	11,183	7.8	0.88	
5/14/19	7,189	5.0	2,453	1.7	2,133	1.5	11,775	8.2	1.15	
5/15/19	6,869	4.8	2,504	1.7	2,026	1.4	11,399	7.9	0.03	GWTS Annual Maintenance (8.6hrs)
5/16/19	7,320	5.1	2,677	1.9	2,175	1.5	12,172	8.5	0.03	
5/17/19	7,261	5.0	2,636	1.8	2,135	1.5	12,032	8.4	0.01	
5/18/19	7,196	5.0	2,598	1.8	2,084	1.4	11,878	8.2	0.00	
5/19/19	7,176	5.0	2,520	1.8	2,018	1.4	11,714	8.1	0.00	
5/20/19	7,148	5.0	2,498	1.7	1,949	1.4	11,595	8.1	0.56	
5/21/19	7,049	4.9	2,461	1.7	1,875	1.3	11,385	7.9	0.00	
5/22/19	7,007	4.9	2,463	1.7	1,809	1.3	11,279	7.8	0.00	
5/23/19	7,011	4.9	2,461	1.7	1,767	1.2	11,239	7.8	0.00	
5/24/19	6,956	4.8	2,438	1.7	1,710	1.2	11,104	7.7	0.02	
5/25/19	6,899	4.8	2,417	1.7	1,665	1.2	10,981	7.6	0.00	
5/26/19	6,882	4.8	2,407	1.7	1,622	1.1	10,911	7.6	0.00	
5/27/19	6,836	4.7	2,393	1.7	1,587	1.1	10,816	7.5	0.03	
5/28/19	6,818	4.7	2,384	1.7	1,531	1.1	10,733	7.5	0.22	
5/29/19	6,778	4.7	2,372	1.6	1,457	1.0	10,607	7.4	0.11	
5/30/19	6,762	4.7	2,359	1.6	1,408	1.0	10,529	7.3	0.37	
5/31/19	6,713	4.7	2,336	1.6	1,316	0.9	10,365	7.2	0.00	
6/1/19	6,665	4.6	2,313	1.6	1,187	0.8	10,165	7.1	0.00	
6/2/19	3,479	2.4	2,034	1.4	1,089	0.8	6,602	4.6	0.67	GWTS Effluent Pump VFD Fault (7.3hrs)
6/3/19	4,865	3.4	2,907	2.0	1,232	0.9	9,004	6.3	0.16	CW-21 Level Transmitter Fault (10.4hrs)
6/4/19	7,142	5.0	2,368	1.6	1,107	0.8	10,617	7.4	0.00	
6/5/19	6,925	4.8	2,319	1.6	1,068	0.7	10,312	7.2	0.00	
6/6/19	6,812	4.7	2,283	1.6	923	0.6	10,018	7.0	0.00	
6/7/19	6,725	4.7	2,275	1.6	828	0.6	9,828	6.8	0.00	
6/8/19	6,671	4.6	2,244	1.6	749	0.5	9,664	6.7	0.00	
6/9/19	6,635	4.6	2,220	1.5	616	0.4	9,471	6.6	0.00	
6/10/19	6,632	4.6	2,222	1.5	574	0.4	9,428	6.5	0.07	
6/11/19	6,595	4.6	2,192	1.5	484	0.3	9,271	6.4	0.33	
6/12/19	6,576	4.6	2,180	1.5	471	0.3	9,227	6.4	0.00	
6/13/19	6,615	4.6	2,210	1.5	480	0.3	9,305	6.5	0.90	
6/14/19	6,651	4.6	2,219	1.5	367	0.3	9,237	6.4	0.30	
6/15/19	6,638	4.6	2,219	1.5	389	0.3	9,246	6.4	0.00	
6/16/19	6,621	4.6	2,217	1.5	341	0.2	9,179	6.4	0.00	
6/17/19	6,560	4.6	2,245	1.6	321	0.2	9,126	6.3	0.01	
6/18/19	6,540	4.5	2,230	1.5	286	0.2	9,056	6.3	0.03	
6/19/19	6,523	4.5	2,200	1.5	304	0.2	9,027	6.3	0.07	
6/20/19	6,530	4.5	2,191	1.5	274	0.2	8,995	6.2	0.13	
6/21/19	6,484	4.5	2,165	1.5	190	0.1	8,839	6.1	0.06	
6/22/19	6,453	4.5	2,133	1.5	209	0.1	8,795	6.1	0.01	
6/23/19	6,438	4.5	2,109	1.5	159	0.1	8,706	6.0	0.00	
6/24/19	6,446	4.5	2,121	1.5	184	0.1	8,751	6.1	0.00	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
6/25/19	6,446	4.5	2,121	1.5	184	0.1	8,751	6.1	0.75	
6/26/19	6,333	4.4	2,164	1.5	70	0.0	8,567	5.9	0.00	
6/27/19	6,284	4.4	2,194	1.5	1,138	0.8	9,616	6.7	0.00	
6/28/19	1,547	1.1	509	0.4	44	0.0	2,100	1.5	0.00	HD Planned Power Outage (19.2hrs)
6/29/19	5,350	3.7	1,760	1.2	3,153	2.2	10,263	7.1	0.00	HD Planned Power Outage (4hrs)
6/30/19	6,446	4.5	2,121	1.5	181	0.1	8,748	6.1	0.19	
7/1/19	6,294	4.4	2,464	1.7	1,220	0.8	9,978	6.9	0.00	
7/2/19	6,212	4.3	2,460	1.7	1,212	0.8	9,884	6.9	0.00	
7/3/19	6,145	4.3	2,435	1.7	1,190	0.8	9,770	6.8	0.12	
7/4/19	6,104	4.2	2,414	1.7	1,185	0.8	9,703	6.7	0.00	
7/5/19	6,121	4.3	2,403	1.7	1,171	0.8	9,695	6.7	0.00	
7/6/19	4,806	3.3	2,425	1.7	1,163	0.8	8,394	5.8	0.44	CW-21 Level Transmitter Fault (5hrs)
7/7/19	5,582	3.9	2,673	1.9	1,153	0.8	9,408	6.5	0.82	CW-21 Level Transmitter Fault (6hrs)
7/8/19	6,308	4.4	2,509	1.7	1,172	0.8	9,989	6.9	0.36	
7/9/19	6,199	4.3	2,553	1.8	1,156	0.8	9,908	6.9	0.31	
7/10/19	6,166	4.3	2,536	1.8	1,134	0.8	9,836	6.8	0.00	
7/11/19	6,152	4.3	2,504	1.7	1,130	0.8	9,786	6.8	0.00	
7/12/19	6,116	4.2	2,488	1.7	1,125	0.8	9,729	6.8	0.20	
7/13/19	6,067	4.2	2,451	1.7	1,105	0.8	9,623	6.7	0.00	
7/14/19	6,031	4.2	2,452	1.7	1,088	0.8	9,571	6.6	0.00	
7/15/19	5,993	4.2	2,451	1.7	1,086	0.8	9,530	6.6	0.00	
7/16/19	5,957	4.1	2,443	1.7	1,074	0.7	9,474	6.6	0.04	
7/17/19	5,940	4.1	2,438	1.7	1,078	0.7	9,456	6.6	0.21	
7/18/19	5,920	4.1	2,431	1.7	1,070	0.7	9,421	6.5	0.07	
7/19/19	5,886	4.1	2,424	1.7	1,042	0.7	9,352	6.5	0.00	
7/20/19	5,872	4.1	2,398	1.7	1,042	0.7	9,312	6.5	0.00	
7/21/19	5,853	4.1	2,395	1.7	1,041	0.7	9,289	6.5	0.51	
7/22/19	5,819	4.0	2,405	1.7	1,038	0.7	9,262	6.4	0.30	
7/23/19	5,836	4.1	2,426	1.7	1,027	0.7	9,289	6.5	0.22	
7/24/19	5,847	4.1	2,425	1.7	1,018	0.7	9,290	6.5	0.00	
7/25/19	5,842	4.1	2,414	1.7	1,013	0.7	9,269	6.4	0.00	
7/26/19	5,815	4.0	2,411	1.7	1,006	0.7	9,232	6.4	0.00	
7/27/19	5,808	4.0	2,402	1.7	995	0.7	9,205	6.4	0.00	
7/28/19	5,795	4.0	2,401	1.7	989	0.7	9,185	6.4	0.00	
7/29/19	5,779	4.0	2,383	1.7	981	0.7	9,143	6.3	0.00	
7/30/19	3,992	2.8	1,903	1.3	776	0.5	6,671	4.6	0.33	GWTS GAC Changeout (8hrs) CW-21 Level Transmitter Fault (10.1hrs)
7/31/19	5,501	3.8	2,807	1.9	1,004	0.7	9,312	6.5	0.00	Replace CW-21 Fuse
8/1/19	5,942	4.1	2,620	1.8	965	0.7	9,527	6.6	0.11	
8/2/19	5,624	3.9	2,603	1.8	965	0.7	9,192	6.4	0.80	CW-21 Level Transmitter Fault (1.6hrs)
8/3/19	5,869	4.1	2,595	1.8	958	0.7	9,422	6.5	0.02	
8/4/19	5,829	4.0	2,608	1.8	946	0.7	9,383	6.5	0.01	
8/5/19	5,801	4.0	2,591	1.8	938	0.7	9,330	6.5	0.00	
8/6/19	5,782	4.0	2,573	1.8	932	0.6	9,287	6.4	0.00	
8/7/19	5,274	3.7	2,623	1.8	889	0.6	8,786	6.1	0.26	Installed Grounding to Wells (CW-21-3.7hrs, CW-22 and CW-23 (2.1hrs))
8/8/19	5,672	3.9	2,783	1.9	894	0.6	9,349	6.5	0.02	SPBA HMI Troubleshooting (0.3hrs)
8/9/19	5,562	3.9	2,740	1.9	882	0.6	9,184	6.4	0.00	
8/10/19	5,522	3.8	2,715	1.9	873	0.6	9,110	6.3	0.00	
8/11/19	5,496	3.8	2,678	1.9	872	0.6	9,046	6.3	0.00	
8/12/19	5,500	3.8	2,634	1.8	874	0.6	9,008	6.3	0.00	
8/13/19	5,513	3.8	2,616	1.8	876	0.6	9,005	6.3	0.34	
8/14/19	5,498	3.8	2,598	1.8	877	0.6	8,973	6.2	0.07	CW-21 Transducer Inspection (0.3hrs)
8/15/19	5,512	3.8	2,599	1.8	845	0.6	8,956	6.2	0.01	
8/16/19	5,497	3.8	2,582	1.8	841	0.6	8,920	6.2	0.00	
8/17/19	5,498	3.8	2,574	1.8	838	0.6	8,910	6.2	1.34	
8/18/19	5,575	3.9	2,610	1.8	846	0.6	9,031	6.3	0.01	
8/19/19	5,616	3.9	2,592	1.8	829	0.6	9,037	6.3	0.00	
8/20/19	5,590	3.9	2,578	1.8	822	0.6	8,990	6.2	0.39	
8/21/19	5,613	3.9	2,582	1.8	826	0.6	9,021	6.3	0.01	
8/22/19	5,610	3.9	2,565	1.8	818	0.6	8,993	6.2	0.06	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
8/23/19	5,583	3.9	2,542	1.8	831	0.6	8,956	6.2	0.25	
8/24/19	5,579	3.9	2,540	1.8	834	0.6	8,953	6.2	0.00	
8/25/19	5,578	3.9	2,523	1.8	826	0.6	8,927	6.2	0.00	
8/26/19	5,581	3.9	2,530	1.8	808	0.6	8,919	6.2	0.00	
8/27/19	5,566	3.9	2,545	1.8	799	0.6	8,910	6.2	0.00	
8/28/19	5,369	3.7	2,537	1.8	795	0.6	8,701	6.0	0.20	CW-21 Transducer Replacement (1.8hrs)
8/29/19	5,568	3.9	2,520	1.8	801	0.6	8,889	6.2	0.00	
8/30/19	5,491	3.8	2,466	1.7	779	0.5	8,736	6.1	0.00	
8/31/19	5,491	3.8	2,466	1.7	779	0.5	8,736	6.1	0.00	
9/1/19	5,491	3.8	2,466	1.7	779	0.5	8,736	6.1	0.00	
9/2/19	5,491	3.8	2,466	1.7	779	0.5	8,736	6.1	0.24	
9/3/19	5,491	3.8	2,466	1.7	779	0.5	8,736	6.1	0.01	
9/4/19	5,463	3.8	2,440	1.7	750	0.5	8,653	6.0	0.00	
9/5/19	5,431	3.8	2,412	1.7	755	0.5	8,598	6.0	0.00	
9/6/19	5,453	3.8	2,425	1.7	739	0.5	8,617	6.0	0.00	
9/7/19	5,415	3.8	2,426	1.7	731	0.5	8,572	6.0	0.00	
9/8/19	5,383	3.7	2,415	1.7	747	0.5	8,545	5.9	0.00	
9/9/19	5,364	3.7	2,421	1.7	731	0.5	8,516	5.9	0.00	
9/10/19	5,339	3.7	2,414	1.7	729	0.5	8,482	5.9	0.00	
9/11/19	5,362	3.7	2,414	1.7	706	0.5	8,482	5.9	0.00	
9/12/19	5,346	3.7	2,401	1.7	697	0.5	8,444	5.9	0.50	
9/13/19	5,307	3.7	2,392	1.7	698	0.5	8,397	5.8	0.02	
9/14/19	5,353	3.7	2,392	1.7	675	0.5	8,420	5.8	0.02	
9/15/19	5,352	3.7	2,373	1.6	655	0.5	8,380	5.8	0.00	
9/16/19	5,354	3.7	2,357	1.6	664	0.5	8,375	5.8	0.00	
9/17/19	5,317	3.7	2,349	1.6	647	0.4	8,313	5.8	0.00	
9/18/19	5,307	3.7	2,340	1.6	653	0.5	8,300	5.8	0.00	
9/19/19	5,298	3.7	2,335	1.6	651	0.5	8,284	5.8	0.00	
9/20/19	5,305	3.7	2,344	1.6	631	0.4	8,280	5.8	0.00	
9/21/19	5,307	3.7	2,343	1.6	622	0.4	8,272	5.7	0.00	
9/22/19	5,299	3.7	2,327	1.6	627	0.4	8,253	5.7	0.00	
9/23/19	5,302	3.7	2,322	1.6	607	0.4	8,231	5.7	0.00	
9/24/19	5,281	3.7	2,321	1.6	612	0.4	8,214	5.7	0.00	
9/25/19	5,281	3.7	2,321	1.6	612	0.4	8,214	5.7	0.00	
9/26/19	5,266	3.7	2,314	1.6	598	0.4	8,178	5.7	0.02	
9/27/19	5,240	3.6	2,295	1.6	574	0.4	8,109	5.6	0.01	
9/28/19	5,249	3.6	2,297	1.6	575	0.4	8,121	5.6	0.00	
9/29/19	5,227	3.6	2,298	1.6	568	0.4	8,093	5.6	0.00	
9/30/19	5,232	3.6	2,292	1.6	559	0.4	8,083	5.6	0.01	
10/1/19	5,244	3.6	2,297	1.6	532	0.4	8,073	5.6	0.00	
10/2/19	5,229	3.6	2,283	1.6	533	0.4	8,045	5.6	0.00	
10/3/19	4,671	3.2	2,195	1.5	502	0.3	7,368	5.1	0.18	SPBA Power Outage Along Canterbury Lane (3.2hrs)
10/4/19	5,208	3.6	2,933	2.0	560	0.4	8,701	6.0	0.00	
10/5/19	5,025	3.5	2,802	1.9	492	0.3	8,319	5.8	0.00	
10/6/19	5,038	3.5	2,718	1.9	468	0.3	8,224	5.7	0.12	
10/7/19	5,039	3.5	2,690	1.9	476	0.3	8,205	5.7	0.47	
10/8/19	5,046	3.5	2,690	1.9	468	0.3	8,204	5.7	0.03	
10/9/19	5,032	3.5	2,669	1.9	461	0.3	8,162	5.7	0.03	
10/10/19	5,036	3.5	2,660	1.8	431	0.3	8,127	5.6	0.00	
10/11/19	5,040	3.5	2,643	1.8	441	0.3	8,124	5.6	0.00	
10/12/19	5,043	3.5	2,603	1.8	443	0.3	8,089	5.6	0.00	
10/13/19	5,015	3.5	2,569	1.8	423	0.3	8,007	5.6	0.00	
10/14/19	5,013	3.5	2,551	1.8	406	0.3	7,970	5.5	0.00	
10/15/19	4,991	3.5	2,540	1.8	418	0.3	7,949	5.5	0.00	
10/16/19	5,047	3.5	2,509	1.7	410	0.3	7,966	5.5	1.13	
10/17/19	5,062	3.5	2,531	1.8	401	0.3	7,994	5.6	0.00	
10/18/19	5,042	3.5	2,523	1.8	391	0.3	7,956	5.5	0.00	
10/19/19	5,062	3.5	2,514	1.7	369	0.3	7,945	5.5	0.00	
10/20/19	5,082	3.5	2,512	1.7	381	0.3	7,975	5.5	0.30	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
10/21/19	5,011	3.5	2,481	1.7	376	0.3	7,868	5.5	0.00	
10/22/19	4,194	2.9	2,089	1.5	380	0.3	6,663	4.6	0.39	GWTS Maintenance - GAC Changeout (7.9hrs)
10/23/19	5,286	3.7	2,767	1.9	419	0.3	8,472	5.9	0.01	
10/24/19	5,070	3.5	2,703	1.9	401	0.3	8,174	5.7	0.00	
10/25/19	5,064	3.5	2,661	1.8	398	0.3	8,123	5.6	0.00	
10/26/19	5,054	3.5	2,630	1.8	377	0.3	8,061	5.6	0.00	
10/27/19	5,097	3.5	2,639	1.8	366	0.3	8,102	5.6	1.15	
10/28/19	5,088	3.5	2,653	1.8	373	0.3	8,114	5.6	0.00	
10/29/19	5,128	3.6	2,607	1.8	402	0.3	8,137	5.7	0.00	
10/30/19	5,159	3.6	2,621	1.8	397	0.3	8,177	5.7	0.53	
10/31/19	5,843	4.1	2,670	1.9	499	0.3	9,012	6.3	0.97	Annual SPBA Maintenance (2hrs)
11/1/19	6,342	4.4	2,789	1.9	554	0.4	9,685	6.7	0.00	
11/2/19	6,247	4.3	2,767	1.9	560	0.4	9,574	6.6	0.00	
11/3/19	6,183	4.3	2,747	1.9	589	0.4	9,519	6.6	0.00	
11/4/19	6,118	4.2	2,727	1.9	618	0.4	9,463	6.6	0.00	
11/5/19	5,856	4.1	2,689	1.9	619	0.4	9,164	6.4	0.00	
11/6/19	5,963	4.1	2,669	1.9	636	0.4	9,268	6.4	0.00	
11/7/19	5,977	4.2	2,657	1.8	651	0.5	9,285	6.4	0.22	
11/8/19	5,897	4.1	2,627	1.8	674	0.5	9,198	6.4	0.00	
11/9/19	5,898	4.1	2,585	1.8	663	0.5	9,146	6.4	0.01	
11/10/19	5,910	4.1	2,567	1.8	673	0.5	9,150	6.4	0.00	
11/11/19	5,880	4.1	2,562	1.8	667	0.5	9,109	6.3	0.00	
11/12/19	5,825	4.0	2,524	1.8	676	0.5	9,025	6.3	0.17	
11/13/19	5,762	4.0	2,513	1.7	674	0.5	8,949	6.2	0.00	
11/14/19	5,772	4.0	2,486	1.7	663	0.5	8,921	6.2	0.00	
11/15/19	5,769	4.0	2,472	1.7	658	0.5	8,899	6.2	0.00	
11/16/19	5,730	4.0	2,441	1.7	664	0.5	8,835	6.1	0.00	
11/17/19	5,763	4.0	2,444	1.7	659	0.5	8,866	6.2	0.00	
11/18/19	5,788	4.0	2,432	1.7	642	0.4	8,862	6.2	0.00	
11/19/19	5,725	4.0	2,401	1.7	640	0.4	8,766	6.1	0.00	
11/20/19	5,659	3.9	2,387	1.7	620	0.4	8,666	6.0	0.00	
11/21/19	5,627	3.9	2,377	1.7	607	0.4	8,611	6.0	0.00	
11/22/19	5,647	3.9	2,358	1.6	586	0.4	8,591	6.0	0.00	SPBA Power Outage (0.6hrs)
11/23/19	5,482	3.8	2,296	1.6	558	0.4	8,336	5.8	0.20	SPBA Power Outage (7.5hrs)
11/24/19	4,593	3.2	2,172	1.5	520	0.4	7,285	5.1	0.73	
11/25/19	5,806	4.0	2,657	1.8	611	0.4	9,074	6.3	0.00	
11/26/19	5,662	3.9	2,595	1.8	601	0.4	8,858	6.2	0.00	
11/27/19	5,669	3.9	2,569	1.8	598	0.4	8,836	6.1	0.00	
11/28/19	5,568	3.9	2,496	1.7	592	0.4	8,656	6.0	0.00	
11/29/19	5,571	3.9	2,460	1.7	592	0.4	8,623	6.0	0.00	
11/30/19	5,602	3.9	2,467	1.7	599	0.4	8,668	6.0	0.00	
12/1/19	5,634	3.9	2,466	1.7	597	0.4	8,697	6.0	0.48	
12/2/19	5,629	3.9	2,490	1.7	596	0.4	8,715	6.1	0.11	
12/3/19	5,622	3.9	2,499	1.7	594	0.4	8,715	6.1	0.01	
12/4/19	5,639	3.9	2,516	1.7	611	0.4	8,766	6.1	0.21	
12/5/19	5,580	3.9	2,507	1.7	620	0.4	8,707	6.0	0.00	
12/6/19	5,592	3.9	2,507	1.7	626	0.4	8,725	6.1	0.00	
12/7/19	5,555	3.9	2,494	1.7	633	0.4	8,682	6.0	0.00	
12/8/19	5,581	3.9	2,505	1.7	628	0.4	8,714	6.1	0.00	
12/9/19	5,653	3.9	2,499	1.7	626	0.4	8,778	6.1	0.39	
12/10/19	5,628	3.9	2,488	1.7	649	0.5	8,765	6.1	0.28	
12/11/19	5,607	3.9	2,493	1.7	648	0.5	8,748	6.1	0.05	
12/12/19	5,640	3.9	2,504	1.7	663	0.5	8,807	6.1	0.00	
12/13/19	5,750	4.0	2,521	1.8	679	0.5	8,950	6.2	0.16	
12/14/19	5,530	3.8	2,526	1.8	682	0.5	8,738	6.1	0.25	HD Facility Power Failure (1.7hrs)
12/15/19	5,675	3.9	2,740	1.9	726	0.5	9,141	6.3	0.00	
12/16/19	5,613	3.9	2,711	1.9	750	0.5	9,074	6.3	0.53	
12/17/19	5,749	4.0	2,739	1.9	775	0.5	9,263	6.4	0.26	
12/18/19	5,772	4.0	2,731	1.9	822	0.6	9,325	6.5	0.01	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
12/19/19	5,771	4.0	2,703	1.9	871	0.6	9,345	6.5	0.00	
12/20/19	5,798	4.0	2,705	1.9	905	0.6	9,408	6.5	0.00	
12/21/19	5,840	4.1	2,706	1.9	937	0.7	9,483	6.6	0.00	
12/22/19	5,868	4.1	2,679	1.9	954	0.7	9,501	6.6	0.00	
12/23/19	5,893	4.1	2,645	1.8	970	0.7	9,508	6.6	0.01	
12/24/19	5,832	4.1	2,627	1.8	972	0.7	9,431	6.5	0.00	
12/25/19	5,807	4.0	2,598	1.8	984	0.7	9,389	6.5	0.01	
12/26/19	5,771	4.0	2,594	1.8	980	0.7	9,345	6.5	0.01	
12/27/19	5,794	4.0	2,573	1.8	978	0.7	9,345	6.5	0.00	
12/28/19	5,772	4.0	2,558	1.8	980	0.7	9,310	6.5	0.00	
12/29/19	5,789	4.0	2,552	1.8	969	0.7	9,310	6.5	0.41	
12/30/19	5,844	4.1	2,582	1.8	960	0.7	9,386	6.5	0.19	
12/31/19	5,864	4.1	2,584	1.8	957	0.7	9,405	6.5	0.00	
1/1/20	5,850	4.1	2,581	1.8	955	0.7	9,386	6.5	0.00	
1/2/20	5,856	4.1	2,557	1.8	954	0.7	9,367	6.5	0.00	
1/3/20	5,868	4.1	2,556	1.8	956	0.7	9,380	6.5	0.16	
1/4/20	5,896	4.1	2,564	1.8	963	0.7	9,423	6.5	0.09	
1/5/20	5,837	4.1	2,535	1.8	954	0.7	9,326	6.5	0.00	
1/6/20	5,850	4.1	2,522	1.8	952	0.7	9,324	6.5	0.00	
1/7/20	5,860	4.1	2,499	1.7	955	0.7	9,314	6.5	0.05	
1/8/20	5,819	4.0	2,485	1.7	949	0.7	9,253	6.4	0.17	
1/9/20	5,767	4.0	2,487	1.7	940	0.7	9,194	6.4	0.01	
1/10/20	5,852	4.1	2,491	1.7	934	0.6	9,277	6.4	0.04	
1/11/20	5,900	4.1	2,493	1.7	938	0.7	9,331	6.5	0.00	
1/12/20	5,867	4.1	2,494	1.7	947	0.7	9,308	6.5	0.54	
1/13/20	5,901	4.1	2,525	1.8	959	0.7	9,385	6.5	0.00	
1/14/20	4,544	3.2	1,865	1.3	801	0.6	7,210	5.0	0.02	GAC Change Out (8.3 hr)
1/15/20	6,162	4.3	2,829	2.0	1,034	0.7	10,025	7.0	0.00	GAC Duct Heater Troubleshooting, CW-21 power/VFD failure due to storm restarted remotely (0.2 hr)
1/16/20	5,266	3.7	2,798	1.9	1,027	0.7	9,091	6.3	0.00	VFD could not stabilize - CW-21 disabled (4.8 hr)
1/17/20	4,978	3.5	2,794	1.9	1,029	0.7	8,801	6.1	0.00	CW-21 disabled (6.5 hr)
1/18/20	6,087	4.2	2,736	1.9	1,046	0.7	9,869	6.9	0.05	
1/19/20	5,925	4.1	2,711	1.9	1,037	0.7	9,673	6.7	0.12	
1/20/20	5,403	3.8	2,595	1.8	1,002	0.7	9,000	6.3	0.00	GAC Duct Heater Repairs (2.7 hr)
1/21/20	5,810	4.0	2,808	2.0	1,039	0.7	9,657	6.7	0.00	
1/22/20	5,755	4.0	2,757	1.9	1,038	0.7	9,550	6.6	0.01	
1/23/20	5,737	4.0	2,747	1.9	1,028	0.7	9,512	6.6	0.00	
1/24/20	5,737	4.0	2,730	1.9	1,019	0.7	9,486	6.6	0.00	
1/25/20	5,791	4.0	2,760	1.9	1,033	0.7	9,584	6.7	1.26	
1/26/20	5,869	4.1	2,818	2.0	1,177	0.8	9,864	6.9	0.00	
1/27/20	5,926	4.1	2,822	2.0	1,279	0.9	10,027	7.0	0.00	
1/28/20	5,916	4.1	2,795	1.9	1,280	0.9	9,991	6.9	0.00	
1/29/20	5,912	4.1	2,799	1.9	1,268	0.9	9,979	6.9	0.00	
1/30/20	5,913	4.1	2,752	1.9	1,242	0.9	9,907	6.9	0.00	
1/31/20	5,950	4.1	2,744	1.9	1,224	0.9	9,918	6.9	0.01	
2/1/20	6,003	4.2	2,737	1.9	1,213	0.8	9,953	6.9	0.05	
2/2/20	6,011	4.2	2,731	1.9	1,207	0.8	9,949	6.9	0.00	
2/3/20	5,930	4.1	2,717	1.9	1,187	0.8	9,834	6.8	0.00	
2/4/20	5,933	4.1	2,714	1.9	1,170	0.8	9,817	6.8	0.05	
2/5/20	5,885	4.1	2,697	1.9	1,150	0.8	9,732	6.8	0.04	
2/6/20	5,959	4.1	2,726	1.9	1,147	0.8	9,832	6.8	0.26	
2/7/20	5,949	4.1	2,734	1.9	1,130	0.8	9,813	6.8	0.50	
2/8/20	5,864	4.1	2,716	1.9	1,120	0.8	9,700	6.7	0.00	
2/9/20	5,900	4.1	2,692	1.9	1,142	0.8	9,734	6.8	0.00	
2/10/20	5,991	4.2	2,702	1.9	1,162	0.8	9,855	6.8	0.25	
2/11/20	6,032	4.2	2,732	1.9	1,169	0.8	9,933	6.9	0.18	
2/12/20	6,028	4.2	2,733	1.9	1,182	0.8	9,943	6.9	0.08	
2/13/20	6,109	4.2	2,748	1.9	1,215	0.8	10,072	7.0	0.19	
2/14/20	6,021	4.2	2,726	1.9	1,205	0.8	9,952	6.9	0.00	
2/15/20	6,064	4.2	2,733	1.9	1,205	0.8	10,002	6.9	0.00	
2/16/20	6,124	4.3	2,752	1.9	1,237	0.9	10,113	7.0	0.00	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
2/17/20	6,078	4.2	2,733	1.9	1,241	0.9	10,052	7.0	0.00	
2/18/20	6,104	4.2	2,711	1.9	1,242	0.9	10,057	7.0	0.05	
2/19/20	6,056	4.2	2,714	1.9	1,225	0.9	9,995	6.9	0.00	
2/20/20	6,043	4.2	2,717	1.9	1,208	0.8	9,968	6.9	0.00	
2/21/20	6,042	4.2	2,706	1.9	1,203	0.8	9,951	6.9	0.00	
2/22/20	6,063	4.2	2,696	1.9	1,205	0.8	9,964	6.9	0.00	
2/23/20	6,052	4.2	2,686	1.9	1,203	0.8	9,941	6.9	0.00	
2/24/20	6,044	4.2	2,689	1.9	1,200	0.8	9,933	6.9	0.00	
2/25/20	6,034	4.2	2,685	1.9	1,200	0.8	9,919	6.9	0.03	
2/26/20	6,013	4.2	2,668	1.9	1,179	0.8	9,860	6.8	0.18	
2/27/20	5,927	4.1	2,658	1.8	1,160	0.8	9,745	6.8	0.23	
2/28/20	5,916	4.1	2,653	1.8	1,147	0.8	9,716	6.7	0.00	
2/29/20	5,904	4.1	2,631	1.8	1,130	0.8	9,665	6.7	0.00	
3/1/20	5,883	4.1	2,602	1.8	1,110	0.8	9,595	6.7	0.00	
3/2/20	5,936	4.1	2,628	1.8	1,122	0.8	9,686	6.7	0.04	
3/3/20	5,937	4.1	2,626	1.8	1,118	0.8	9,681	6.7	0.33	
3/4/20	5,882	4.1	2,631	1.8	1,102	0.8	9,615	6.7	0.01	
3/5/20	5,853	4.1	2,623	1.8	1,093	0.8	9,569	6.6	0.00	
3/6/20	5,906	4.1	2,623	1.8	1,091	0.8	9,620	6.7	0.24	
3/7/20	5,829	4.0	2,613	1.8	1,072	0.7	9,514	6.6	0.01	
3/8/20	5,608	3.9	2,499	1.7	1,026	0.7	9,133	6.3	0.00	
3/9/20	5,882	4.1	2,609	1.8	1,063	0.7	9,554	6.6	0.00	
3/10/20	5,897	4.1	2,608	1.8	1,068	0.7	9,573	6.6	0.04	
3/11/20	5,855	4.1	2,578	1.8	1,056	0.7	9,489	6.6	0.00	
3/12/20	5,853	4.1	2,586	1.8	1,054	0.7	9,493	6.6	0.00	
3/13/20	5,860	4.1	2,577	1.8	1,050	0.7	9,487	6.6	0.18	
3/14/20	5,756	4.0	2,566	1.8	1,035	0.7	9,357	6.5	0.00	
3/15/20	5,771	4.0	2,568	1.8	1,038	0.7	9,377	6.5	0.09	
3/16/20	5,778	4.0	2,563	1.8	1,031	0.7	9,372	6.5	0.00	
3/17/20	5,766	4.0	2,566	1.8	1,027	0.7	9,359	6.5	0.03	
3/18/20	5,709	4.0	2,554	1.8	1,022	0.7	9,285	6.4	0.06	
3/19/20	5,770	4.0	2,561	1.8	1,018	0.7	9,349	6.5	0.66	
3/20/20	5,843	4.1	2,590	1.8	1,026	0.7	9,459	6.6	0.03	
3/21/20	5,784	4.0	2,582	1.8	1,029	0.7	9,395	6.5	0.00	
3/22/20	5,781	4.0	2,579	1.8	1,038	0.7	9,398	6.5	0.00	
3/23/20	5,845	4.1	2,591	1.8	1,051	0.7	9,487	6.6	0.32	
3/24/20	5,845	4.1	2,575	1.8	1,057	0.7	9,477	6.6	0.00	
3/25/20	5,873	4.1	2,598	1.8	1,065	0.7	9,536	6.6	0.18	
3/26/20	5,884	4.1	2,607	1.8	1,072	0.7	9,563	6.6	0.00	
3/27/20	5,868	4.1	2,613	1.8	1,080	0.8	9,561	6.6	0.01	
3/28/20	5,857	4.1	2,619	1.8	1,074	0.7	9,550	6.6	1.11	
3/29/20	5,973	4.1	2,665	1.9	1,129	0.8	9,767	6.8	0.01	
3/30/20	6,018	4.2	2,692	1.9	1,235	0.9	9,945	6.9	0.00	
3/31/20	6,046	4.2	2,722	1.9	1,281	0.9	10,049	7.0	0.01	
4/1/20	6,031	4.2	2,676	1.9	1,287	0.9	9,994	6.9	0.00	
4/2/20	4,285	3.0	502	0.3	938	0.7	5,725	4.0	0.00	Pull effluent pump for annual maintenance and complete a GAC change out. Additional troubleshooting CW-22 (19.4 hr)
4/3/20	6,727	4.7	2,331	1.6	1,376	1.0	10,434	7.2	0.00	
4/4/20	6,148	4.3	2,978	2.1	1,294	0.9	10,420	7.2	0.00	
4/5/20	6,009	4.2	2,931	2.0	1,273	0.9	10,213	7.1	0.00	
4/6/20	5,953	4.1	2,928	2.0	1,260	0.9	10,141	7.0	0.00	
4/7/20	5,954	4.1	2,900	2.0	1,258	0.9	10,112	7.0	0.00	
4/8/20	5,952	4.1	2,885	2.0	1,252	0.9	10,089	7.0	0.20	
4/9/20	5,944	4.1	2,901	2.0	1,233	0.9	10,078	7.0	0.12	
4/10/20	5,870	4.1	2,858	2.0	1,219	0.8	9,947	6.9	0.01	
4/11/20	5,834	4.1	2,795	1.9	1,201	0.8	9,830	6.8	0.00	
4/12/20	5,834	4.1	2,787	1.9	1,193	0.8	9,814	6.8	0.05	
4/13/20	5,918	4.1	2,832	2.0	1,189	0.8	9,939	6.9	1.24	
4/14/20	5,914	4.1	2,853	2.0	1,193	0.8	9,960	6.9	0.06	
4/15/20	5,984	4.2	2,845	2.0	1,198	0.8	10,027	7.0	0.03	
4/16/20	5,973	4.1	2,821	2.0	1,199	0.8	9,993	6.9	0.00	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
4/17/20	6,002	4.2	2,850	2.0	1,206	0.8	10,058	7.0	0.05	
4/18/20	6,038	4.2	2,845	2.0	1,212	0.8	10,095	7.0	0.11	
4/19/20	6,027	4.2	2,848	2.0	1,208	0.8	10,083	7.0	0.00	
4/20/20	6,031	4.2	2,831	2.0	1,212	0.8	10,074	7.0	0.00	
4/21/20	5,959	4.1	2,798	1.9	1,201	0.8	9,958	6.9	0.07	
4/22/20	5,894	4.1	2,777	1.9	1,193	0.8	9,864	6.9	0.00	
4/23/20	5,919	4.1	2,755	1.9	1,188	0.8	9,862	6.8	0.20	
4/24/20	5,967	4.1	2,777	1.9	1,182	0.8	9,926	6.9	0.28	
4/25/20	5,937	4.1	2,780	1.9	1,174	0.8	9,891	6.9	0.00	
4/26/20	5,997	4.2	2,805	1.9	1,176	0.8	9,978	6.9	0.47	
4/27/20	5,991	4.2	2,827	2.0	1,165	0.8	9,983	6.9	0.01	
4/28/20	5,835	4.1	2,816	2.0	1,172	0.8	9,823	6.8	0.00	
4/29/20	5,872	4.1	2,777	1.9	1,177	0.8	9,826	6.8	0.01	
4/30/20	5,841	4.1	2,734	1.9	1,185	0.8	9,760	6.8	1.53	
5/1/20	6,016	4.2	2,736	1.9	1,377	1.0	10,129	7.0	0.18	
5/2/20	6,138	4.3	2,786	1.9	1,566	1.1	10,490	7.3	0.00	
5/3/20	6,272	4.4	2,805	1.9	1,598	1.1	10,675	7.4	0.05	
5/4/20	6,273	4.4	2,805	1.9	1,579	1.1	10,657	7.4	0.00	
5/5/20	6,253	4.3	2,795	1.9	1,548	1.1	10,596	7.4	0.00	
5/6/20	6,281	4.4	2,827	2.0	1,510	1.0	10,618	7.4	0.31	
5/7/20	6,292	4.4	2,796	1.9	1,479	1.0	10,567	7.3	0.00	
5/8/20	6,312	4.4	2,815	2.0	1,465	1.0	10,592	7.4	0.65	
5/9/20	6,303	4.4	2,814	2.0	1,442	1.0	10,559	7.3	0.00	
5/10/20	6,332	4.4	2,806	1.9	1,447	1.0	10,585	7.4	0.00	
5/11/20	6,360	4.4	2,810	2.0	1,434	1.0	10,604	7.4	0.01	
5/12/20	6,274	4.4	2,767	1.9	1,425	1.0	10,466	7.3	0.00	
5/13/20	6,277	4.4	2,745	1.9	1,403	1.0	10,425	7.2	0.00	
5/14/20	6,305	4.4	2,726	1.9	1,391	1.0	10,422	7.2	0.00	
5/15/20	6,334	4.4	2,742	1.9	1,381	1.0	10,457	7.3	0.01	
5/16/20	6,269	4.4	2,733	1.9	1,357	0.9	10,359	7.2	0.00	
5/17/20	6,232	4.3	2,718	1.9	1,340	0.9	10,290	7.1	0.13	
5/18/20	6,256	4.3	2,699	1.9	1,329	0.9	10,284	7.1	0.00	
5/19/20	6,220	4.3	2,669	1.9	1,309	0.9	10,198	7.1	0.00	
5/20/20	6,188	4.3	2,612	1.8	1,288	0.9	10,088	7.0	0.00	
5/21/20	6,168	4.3	2,617	1.8	1,281	0.9	10,066	7.0	0.00	
5/22/20	6,198	4.3	2,632	1.8	1,267	0.9	10,097	7.0	0.17	
5/23/20	6,172	4.3	2,630	1.8	1,262	0.9	10,064	7.0	0.11	
5/24/20	6,128	4.3	2,615	1.8	1,254	0.9	9,997	6.9	0.00	
5/25/20	6,141	4.3	2,598	1.8	1,245	0.9	9,984	6.9	0.00	
5/26/20	6,120	4.3	2,601	1.8	1,232	0.9	9,953	6.9	0.00	
5/27/20	6,102	4.2	2,576	1.8	1,229	0.9	9,907	6.9	0.00	
5/28/20	6,102	4.2	2,548	1.8	1,215	0.8	9,865	6.9	0.01	
5/29/20	6,089	4.2	2,561	1.8	1,217	0.8	9,867	6.9	0.73	
5/30/20	6,087	4.2	2,581	1.8	1,200	0.8	9,868	6.9	0.00	
5/31/20	6,062	4.2	2,595	1.8	1,197	0.8	9,854	6.8	0.00	
6/1/20	6,046	4.2	2,615	1.8	1,192	0.8	9,853	6.8	0.00	
6/2/20	6,066	4.2	2,647	1.8	1,191	0.8	9,904	6.9	0.00	
6/3/20	6,058	4.2	2,623	1.8	1,185	0.8	9,866	6.9	0.37	
6/4/20	5,996	4.2	2,604	1.8	974	0.7	9,574	6.6	1.04	CW-23 level transducer fault due to storms site, visit required to replace fuse and restart well (4 hr)
6/5/20	6,047	4.2	2,652	1.8	1,018	0.7	9,717	6.7	0.05	CW-23 level transducer fuse replaced and restarted well (8.9 hr)
6/6/20	6,087	4.2	2,701	1.9	1,250	0.9	10,038	7.0	0.00	
6/7/20	6,057	4.2	2,740	1.9	1,205	0.8	10,002	6.9	0.00	
6/8/20	6,049	4.2	2,715	1.9	1,193	0.8	9,957	6.9	0.00	
6/9/20	6,055	4.2	2,722	1.9	1,182	0.8	9,959	6.9	0.00	
6/10/20	6,050	4.2	2,680	1.9	1,182	0.8	9,912	6.9	0.51	
6/11/20	6,019	4.2	2,682	1.9	1,169	0.8	9,870	6.9	0.97	
6/12/20	6,048	4.2	2,725	1.9	1,163	0.8	9,936	6.9	0.00	
6/13/20	6,046	4.2	2,702	1.9	1,159	0.8	9,907	6.9	0.00	
6/14/20	6,028	4.2	2,749	1.9	1,157	0.8	9,934	6.9	0.00	
6/15/20	6,011	4.2	2,735	1.9	1,160	0.8	9,906	6.9	0.00	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
6/16/20	6,002	4.2	2,690	1.9	1,160	0.8	9,852	6.8	0.00	
6/17/20	6,007	4.2	2,660	1.8	1,154	0.8	9,821	6.8	0.00	
6/18/20	5,972	4.1	2,649	1.8	1,147	0.8	9,768	6.8	0.00	
6/19/20	5,944	4.1	2,658	1.8	1,143	0.8	9,745	6.8	1.06	
6/20/20	5,764	4.0	2,751	1.9	1,138	0.8	9,653	6.7	0.02	SPBA power outage (0.6 hr)
6/21/20	5,835	4.1	2,793	1.9	1,123	0.8	9,751	6.8	0.00	
6/22/20	5,823	4.0	2,737	1.9	1,120	0.8	9,680	6.7	0.23	
6/23/20	5,764	4.0	2,775	1.9	1,117	0.8	9,656	6.7	0.17	SPBA power outage (0.6 hr)
6/24/20	5,874	4.1	2,721	1.9	1,130	0.8	9,725	6.8	0.01	
6/25/20	5,862	4.1	2,574	1.8	1,115	0.8	9,551	6.6	0.60	
6/26/20	5,891	4.1	2,578	1.8	1,105	0.8	9,574	6.6	0.01	
6/27/20	5,922	4.1	2,588	1.8	1,104	0.8	9,614	6.7	0.07	
6/28/20	5,908	4.1	2,547	1.8	1,111	0.8	9,566	6.6	0.67	
6/29/20	5,900	4.1	2,554	1.8	1,104	0.8	9,558	6.6	0.00	
6/30/20	5,903	4.1	2,561	1.8	1,091	0.8	9,555	6.6	0.00	
7/1/20	5,899	4.1	2,549	1.8	1,087	0.8	9,535	6.6	0.00	
7/2/20	5,871	4.1	2,523	1.8	1,087	0.8	9,481	6.6	0.00	
7/3/20	5,847	4.1	2,531	1.8	1,093	0.8	9,471	6.6	0.00	
7/4/20	5,816	4.0	2,531	1.8	1,087	0.8	9,434	6.6	0.00	
7/5/20	5,799	4.0	2,492	1.7	1,079	0.7	9,370	6.5	0.00	
7/6/20	5,769	4.0	2,501	1.7	1,071	0.7	9,341	6.5	0.08	
7/7/20	1,763	1.2	769	0.5	327	0.2	2,859	2.0	0.00	GAC Change Out/Repairs (16.6 hr)
7/8/20	2,927	2.0	1,139	0.8	612	0.4	4,678	3.2	1.20	GAC Repairs, Power Outage (15.8 hr)
7/9/20	6,274	4.4	2,496	1.7	1,108	0.8	9,878	6.9	0.00	Power Outage (5.2 hr)
7/10/20	6,509	4.5	2,814	2.0	1,079	0.7	10,402	7.2	0.05	
7/11/20	5,842	4.1	2,796	1.9	1,033	0.7	9,671	6.7	0.00	Power Outage (1.4 hr)
7/12/20	5,888	4.1	2,766	1.9	1,063	0.7	9,717	6.7	0.09	
7/13/20	5,733	4.0	2,741	1.9	1,041	0.7	9,515	6.6	0.00	
7/14/20	5,670	3.9	2,651	1.8	1,038	0.7	9,359	6.5	0.00	
7/15/20	5,633	3.9	2,653	1.8	1,026	0.7	9,312	6.5	0.00	
7/16/20	5,617	3.9	2,689	1.9	1,026	0.7	9,332	6.5	0.00	
7/17/20	5,611	3.9	2,698	1.9	1,018	0.7	9,327	6.5	0.09	
7/18/20	5,589	3.9	2,692	1.9	1,003	0.7	9,284	6.4	0.00	
7/19/20	5,586	3.9	2,703	1.9	1,003	0.7	9,292	6.5	0.00	
7/20/20	5,544	3.9	2,713	1.9	987	0.7	9,244	6.4	0.00	
7/21/20	5,491	3.8	2,690	1.9	808	0.6	8,989	6.2	0.52	CW-23 Level Transmitter Fault (4.1 hr)
7/22/20	5,512	3.8	2,708	1.9	799	0.6	9,019	6.3	0.31	CW-23 level transducer fuse replaced and restarted well (8.9 hr)
7/23/20	5,495	3.8	2,737	1.9	986	0.7	9,218	6.4	0.10	
7/24/20	5,535	3.8	2,777	1.9	951	0.7	9,263	6.4	1.00	
7/25/20	5,609	3.9	2,769	1.9	947	0.7	9,325	6.5	0.00	
7/26/20	5,539	3.8	2,743	1.9	939	0.7	9,221	6.4	0.00	Power Outage (0.1 hr)
7/27/20	5,578	3.9	2,704	1.9	936	0.7	9,218	6.4	0.00	
7/28/20	5,586	3.9	2,694	1.9	937	0.7	9,217	6.4	0.00	
7/29/20	5,564	3.9	2,685	1.9	933	0.6	9,182	6.4	0.00	
7/30/20	5,566	3.9	2,605	1.8	932	0.6	9,103	6.3	0.02	
7/31/20	5,561	3.9	2,577	1.8	928	0.6	9,066	6.3	0.03	
8/1/20	5,524	3.8	2,575	1.8	916	0.6	9,015	6.3	0.09	
8/2/20	5,546	3.9	2,596	1.8	923	0.6	9,065	6.3	0.74	
8/3/20	5,530	3.8	2,604	1.8	910	0.6	9,044	6.3	0.30	
8/4/20	5,502	3.8	2,675	1.9	891	0.6	9,068	6.3	1.50	Power Outage (0.5 hr)
8/5/20	5,626	3.9	2,803	1.9	902	0.6	9,331	6.5	0.01	
8/6/20	1,886	1.3	915	0.6	303	0.2	3,104	2.2	0.01	GWTS Shutdown for PTA Gel Coat (16 hr)
8/7/20	5,680	3.9	2,419	1.7	601	0.4	8,700	6.0	2.62	Restarted GWTS after Gel Cured, CW-23 Transmitter Failure (14.8 hr)
8/8/20	6,647	4.6	3,077	2.1	1,172	0.8	10,896	7.6	0.00	CW-23 level transducer fuse replaced and restarted well (6.5 hr)
8/9/20	6,443	4.5	3,049	2.1	1,409	1.0	10,901	7.6	0.00	
8/10/20	6,437	4.5	2,922	2.0	1,365	0.9	10,724	7.4	0.00	
8/11/20	6,416	4.5	2,936	2.0	1,314	0.9	10,666	7.4	0.04	
8/12/20	6,354	4.4	2,910	2.0	1,264	0.9	10,528	7.3	0.00	
8/13/20	6,304	4.4	2,923	2.0	1,245	0.9	10,472	7.3	0.00	
8/14/20	6,278	4.4	2,907	2.0	1,222	0.8	10,407	7.2	0.00	

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Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
8/15/20	6,242	4.3	2,894	2.0	1,198	0.8	10,334	7.2	0.06	
8/16/20	6,218	4.3	2,806	1.9	1,189	0.8	10,213	7.1	0.15	
8/17/20	6,227	4.3	2,696	1.9	1,165	0.8	10,088	7.0	0.05	
8/18/20	6,189	4.3	2,753	1.9	1,157	0.8	10,099	7.0	0.00	
8/19/20	6,128	4.3	2,772	1.9	1,144	0.8	10,044	7.0	0.01	
8/20/20	6,039	4.2	2,756	1.9	1,135	0.8	9,930	6.9	0.00	
8/21/20	6,014	4.2	2,752	1.9	1,116	0.8	9,882	6.9	0.00	
8/22/20	5,984	4.2	2,684	1.9	1,103	0.8	9,771	6.8	0.00	
8/23/20	5,982	4.2	2,541	1.8	1,094	0.8	9,617	6.7	0.33	
8/24/20	5,976	4.2	2,570	1.8	1,077	0.7	9,623	6.7	0.02	
8/25/20	5,971	4.1	2,597	1.8	1,073	0.7	9,641	6.7	0.00	
8/26/20	5,909	4.1	2,614	1.8	1,045	0.7	9,568	6.6	0.00	
8/27/20	5,906	4.1	2,646	1.8	1,035	0.7	9,587	6.7	0.00	
8/28/20	5,858	4.1	2,640	1.8	667	0.5	9,165	6.4	0.41	CW-23 Level Transmitter Fault (8.4 hr)
8/29/20	5,883	4.1	2,682	1.9	958	0.7	9,523	6.6	0.06	CW-23 level transducer fuse replaced and restarted well (7.1 hr)
8/30/20	5,807	4.0	2,677	1.9	1,022	0.7	9,506	6.6	0.00	
8/31/20	5,766	4.0	2,643	1.8	980	0.7	9,389	6.5	0.12	
9/1/20	5,765	4.0	2,647	1.8	959	0.7	9,371	6.5	0.25	
9/2/20	5,803	4.0	2,642	1.8	951	0.7	9,396	6.5	0.30	
9/3/20	5,814	4.0	2,625	1.8	953	0.7	9,392	6.5	0.52	
9/4/20	5,823	4.0	2,651	1.8	949	0.7	9,423	6.5	0.01	
9/5/20	5,809	4.0	2,638	1.8	937	0.7	9,384	6.5	0.00	
9/6/20	5,830	4.0	2,626	1.8	929	0.6	9,385	6.5	0.00	
9/7/20	5,813	4.0	2,623	1.8	929	0.6	9,365	6.5	0.00	
9/8/20	1,243	0.9	553	0.4	212	0.1	2,008	1.4	0.00	GWTS Shutdown for Plant Power Outage (19.9 hr)
9/9/20	5,298	3.7	2,360	1.6	904	0.6	8,562	5.9	0.00	GWTS Shutdown for Plant Power Outage (6.9 hr)
9/10/20	6,412	4.5	3,134	2.2	980	0.7	10,526	7.3	0.47	
9/11/20	6,034	4.2	2,939	2.0	930	0.6	9,903	6.9	0.00	
9/12/20	5,951	4.1	2,939	2.0	879	0.6	9,769	6.8	0.00	
9/13/20	5,951	4.1	2,939	2.0	879	0.6	9,769	6.8	0.00	
9/14/20	5,951	4.1	1,102	0.8	879	0.6	7,932	5.5	0.00	CW-22 shutdown for MW-162R drilling (14.9 hr)
9/15/20	5,951	4.1	0	0.0	879	0.6	6,830	4.7	0.00	CW-22 shutdown for MW-162R drilling (24 hr)
9/16/20	6,340	4.4	2,121	1.5	850	0.6	9,311	6.5	0.00	CW-22 shutdown for MW-162R drilling (9.7 hr)
9/17/20	5,839	4.1	3,027	2.1	846	0.6	9,712	6.7	0.01	
9/18/20	5,650	3.9	2,885	2.0	842	0.6	9,377	6.5	0.00	
9/19/20	5,537	3.8	2,831	2.0	828	0.6	9,196	6.4	0.00	
9/20/20	5,501	3.8	2,787	1.9	822	0.6	9,110	6.3	0.00	
9/21/20	5,503	3.8	2,756	1.9	811	0.6	9,070	6.3	0.00	
9/22/20	5,540	3.8	2,782	1.9	808	0.6	9,130	6.3	0.01	
9/23/20	5,505	3.8	2,744	1.9	814	0.6	9,063	6.3	0.00	
9/24/20	5,435	3.8	2,702	1.9	809	0.6	8,946	6.2	0.00	
9/25/20	5,409	3.8	2,677	1.9	806	0.6	8,892	6.2	0.00	
9/26/20	5,403	3.8	2,601	1.8	813	0.6	8,817	6.1	0.03	
9/27/20	5,397	3.7	2,602	1.8	801	0.6	8,800	6.1	0.04	
9/28/20	5,389	3.7	2,588	1.8	804	0.6	8,781	6.1	0.00	
9/29/20	5,377	3.7	2,592	1.8	793	0.6	8,762	6.1	0.26	
9/30/20	5,381	3.7	2,609	1.8	778	0.5	8,768	6.1	0.17	
10/1/20	5,372	3.7	2,604	1.8	772	0.5	8,748	6.1	0.00	
10/2/20	5,360	3.7	2,628	1.8	766	0.5	8,754	6.1	0.00	
10/3/20	5,346	3.7	2,600	1.8	745	0.5	8,691	6.0	0.00	
10/4/20	5,368	3.7	2,578	1.8	739	0.5	8,685	6.0	0.00	
10/5/20	5,359	3.7	2,556	1.8	736	0.5	8,651	6.0	0.00	
10/6/20	4,168	2.9	2,115	1.5	608	0.4	6,891	4.8	0.00	GAC Change Out (7.5 hr)
10/7/20	5,554	3.9	2,643	1.8	750	0.5	8,947	6.2	0.00	
10/8/20	5,297	3.7	2,563	1.8	721	0.5	8,581	6.0	0.00	
10/9/20	5,248	3.6	2,552	1.8	717	0.5	8,517	5.9	0.00	
10/10/20	5,248	3.6	2,535	1.8	704	0.5	8,487	5.9	0.00	
10/11/20	5,248	3.6	2,535	1.8	704	0.5	8,487	5.9	0.00	
10/12/20	5,248	3.6	2,535	1.8	704	0.5	8,487	5.9	0.77	
10/13/20	5,303	3.7	2,634	1.8	680	0.5	8,617	6.0	0.05	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
10/14/20	5,313	3.7	2,656	1.8	666	0.5	8,635	6.0	0.00	
10/15/20	5,335	3.7	2,631	1.8	671	0.5	8,637	6.0	0.00	
10/16/20	5,306	3.7	2,630	1.8	674	0.5	8,610	6.0	0.00	
10/17/20	5,277	3.7	2,606	1.8	680	0.5	8,563	5.9	0.00	
10/18/20	5,284	3.7	2,554	1.8	684	0.5	8,522	5.9	0.00	
10/19/20	5,301	3.7	2,557	1.8	680	0.5	8,538	5.9	0.00	
10/20/20	5,299	3.7	2,527	1.8	664	0.5	8,490	5.9	0.00	
10/21/20	5,309	3.7	2,282	1.6	659	0.5	8,250	5.7	0.00	
10/22/20	5,243	3.6	2,346	1.6	647	0.4	8,236	5.7	0.00	
10/23/20	5,234	3.6	2,384	1.7	657	0.5	8,275	5.7	0.00	
10/24/20	5,240	3.6	2,390	1.7	640	0.4	8,270	5.7	0.00	
10/25/20	5,194	3.6	2,442	1.7	638	0.4	8,274	5.7	0.05	
10/26/20	5,202	3.6	2,431	1.7	613	0.4	8,246	5.7	0.00	
10/27/20	5,199	3.6	2,427	1.7	632	0.4	8,258	5.7	0.00	
10/28/20	5,226	3.6	2,414	1.7	631	0.4	8,271	5.7	0.00	
10/29/20	5,266	3.7	2,394	1.7	596	0.4	8,256	5.7	0.70	
10/30/20	5,244	3.6	2,423	1.7	595	0.4	8,262	5.7	0.11	
10/31/20	5,248	3.6	2,450	1.7	612	0.4	8,310	5.8	0.00	
11/1/20	5,288	3.7	2,475	1.7	596	0.4	8,359	5.8	0.37	
11/2/20	5,328	3.7	2,500	1.7	579	0.4	8,407	5.8	0.00	
11/3/20	5,294	3.7	2,484	1.7	601	0.4	8,379	5.8	0.00	
11/4/20	5,273	3.7	2,455	1.7	596	0.4	8,324	5.8	0.00	GWTS Shutdown for PTA Blower Maintenance and SPBA Annual Maintenance (2.9 hr)
11/5/20	5,928	4.1	2,617	1.8	651	0.5	9,196	6.4	0.00	
11/6/20	5,801	4.0	2,546	1.8	641	0.4	8,988	6.2	0.00	
11/7/20	5,719	4.0	2,516	1.7	627	0.4	8,862	6.2	0.00	
11/8/20	5,657	3.9	2,485	1.7	637	0.4	8,779	6.1	0.00	
11/9/20	5,636	3.9	2,462	1.7	626	0.4	8,724	6.1	0.00	
11/10/20	5,633	3.9	2,452	1.7	621	0.4	8,706	6.0	0.00	
11/11/20	5,611	3.9	2,434	1.7	620	0.4	8,665	6.0	0.84	
11/12/20	5,610	3.9	2,492	1.7	605	0.4	8,707	6.0	0.36	
11/13/20	5,612	3.9	2,557	1.8	594	0.4	8,763	6.1	0.00	
11/14/20	5,599	3.9	2,557	1.8	599	0.4	8,755	6.1	0.00	
11/15/20	5,659	3.9	2,555	1.8	598	0.4	8,812	6.1	0.35	
11/16/20	5,627	3.9	2,561	1.8	598	0.4	8,786	6.1	0.00	
11/17/20	5,618	3.9	2,566	1.8	591	0.4	8,775	6.1	0.00	
11/18/20	5,568	3.9	2,539	1.8	620	0.4	8,727	6.1	0.00	
11/19/20	5,489	3.8	2,535	1.8	588	0.4	8,612	6.0	0.00	
11/20/20	5,507	3.8	2,523	1.8	602	0.4	8,632	6.0	0.00	
11/21/20	5,498	3.8	2,497	1.7	629	0.4	8,624	6.0	0.00	
11/22/20	5,509	3.8	2,479	1.7	621	0.4	8,609	6.0	0.00	
11/23/20	5,508	3.8	2,452	1.7	636	0.4	8,596	6.0	0.09	
11/24/20	5,463	3.8	2,442	1.7	639	0.4	8,544	5.9	0.00	
11/25/20	5,489	3.8	2,430	1.7	631	0.4	8,550	5.9	0.03	
11/26/20	5,497	3.8	2,413	1.7	647	0.4	8,557	5.9	0.03	
11/27/20	5,470	3.8	2,392	1.7	635	0.4	8,497	5.9	0.00	
11/28/20	5,448	3.8	2,380	1.7	614	0.4	8,442	5.9	0.00	
11/29/20	5,417	3.8	2,374	1.6	583	0.4	8,374	5.8	0.00	
11/30/20	5,508	3.8	2,385	1.7	579	0.4	8,472	5.9	0.95	
12/1/20	5,467	3.8	2,438	1.7	581	0.4	8,486	5.9	0.00	
12/2/20	5,436	3.8	2,455	1.7	608	0.4	8,499	5.9	0.00	
12/3/20	5,458	3.8	2,459	1.7	601	0.4	8,518	5.9	0.00	
12/4/20	5,487	3.8	2,442	1.7	620	0.4	8,549	5.9	0.29	
12/5/20	5,506	3.8	2,464	1.7	626	0.4	8,596	6.0	0.04	
12/6/20	5,501	3.8	2,478	1.7	633	0.4	8,612	6.0	0.00	
12/7/20	5,514	3.8	2,477	1.7	606	0.4	8,597	6.0	0.00	
12/8/20	5,470	3.8	2,457	1.7	622	0.4	8,549	5.9	0.00	
12/9/20	5,468	3.8	2,451	1.7	636	0.4	8,555	5.9	0.00	
12/10/20	5,426	3.8	2,422	1.7	641	0.4	8,489	5.9	0.00	
12/11/20	5,448	3.8	2,404	1.7	642	0.4	8,494	5.9	0.00	
12/12/20	5,462	3.8	2,396	1.7	660	0.5	8,518	5.9	0.00	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
12/13/20	5,433	3.8	2,372	1.6	674	0.5	8,479	5.9	0.00	
12/14/20	5,427	3.8	2,367	1.6	662	0.5	8,456	5.9	0.47	
12/15/20	5,406	3.8	2,404	1.7	661	0.5	8,471	5.9	0.00	
12/16/20	5,438	3.8	2,417	1.7	662	0.5	8,517	5.9	0.44	
12/17/20	5,419	3.8	2,401	1.7	647	0.4	8,467	5.9	0.20	
12/18/20	5,376	3.7	2,382	1.7	623	0.4	8,381	5.8	0.00	
12/19/20	5,401	3.8	2,389	1.7	637	0.4	8,427	5.9	0.00	
12/20/20	5,438	3.8	2,387	1.7	644	0.4	8,469	5.9	0.00	
12/21/20	5,441	3.8	2,385	1.7	643	0.4	8,469	5.9	0.06	
12/22/20	5,368	3.7	2,410	1.7	662	0.5	8,440	5.9	0.00	
12/23/20	5,387	3.7	2,470	1.7	677	0.5	8,534	5.9	0.00	
12/24/20	5,534	3.8	2,531	1.8	727	0.5	8,792	6.1	1.38	
12/25/20	5,721	4.0	2,664	1.9	838	0.6	9,223	6.4	0.25	
12/26/20	5,867	4.1	2,736	1.9	1,160	0.8	9,763	6.8	0.00	
12/27/20	5,937	4.1	2,725	1.9	1,312	0.9	9,974	6.9	0.00	
12/28/20	6,026	4.2	2,715	1.9	1,317	0.9	10,058	7.0	0.00	
12/29/20	6,005	4.2	2,674	1.9	1,294	0.9	9,973	6.9	0.00	
12/30/20	6,100	4.2	2,671	1.9	1,267	0.9	10,038	7.0	0.00	
12/31/20	6,059	4.2	2,658	1.8	1,248	0.9	9,965	6.9	0.00	
1/1/21	6,057	4.2	2,636	1.8	1,218	0.8	9,911	6.9	0.12	
1/2/21	6,113	4.2	2,692	1.9	1,234	0.9	10,039	7.0	0.01	
1/3/21	6,138	4.3	2,674	1.9	1,252	0.9	10,064	7.0	0.28	
1/4/21	6,163	4.3	2,709	1.9	1,258	0.9	10,130	7.0	0.00	
1/5/21	6,168	4.3	2,717	1.9	1,267	0.9	10,152	7.1	0.00	
1/6/21	6,141	4.3	2,684	1.9	1,259	0.9	10,084	7.0	0.00	
1/7/21	6,149	4.3	2,660	1.8	1,245	0.9	10,054	7.0	0.00	
1/8/21	6,166	4.3	2,650	1.8	1,244	0.9	10,060	7.0	0.00	
1/9/21	6,128	4.3	2,629	1.8	1,224	0.9	9,981	6.9	0.00	
1/10/21	6,086	4.2	2,598	1.8	1,202	0.8	9,886	6.9	0.00	
1/11/21	6,089	4.2	2,594	1.8	1,196	0.8	9,879	6.9	0.00	
1/12/21	6,080	4.2	2,588	1.8	1,189	0.8	9,857	6.8	0.00	
1/13/21	6,071	4.2	2,584	1.8	1,181	0.8	9,836	6.8	0.00	
1/14/21	6,039	4.2	2,588	1.8	1,174	0.8	9,801	6.8	0.00	
1/15/21	6,007	4.2	2,572	1.8	1,158	0.8	9,737	6.8	0.17	
1/16/21	6,012	4.2	2,585	1.8	1,147	0.8	9,744	6.8	0.02	
1/17/21	5,950	4.1	2,549	1.8	1,124	0.8	9,623	6.7	0.00	
1/18/21	5,915	4.1	2,531	1.8	1,107	0.8	9,553	6.6	0.00	
1/19/21	5,830	4.0	2,509	1.7	1,090	0.8	9,429	6.5	0.00	
1/20/21	5,852	4.1	2,503	1.7	1,069	0.7	9,424	6.5	0.00	
1/21/21	5,880	4.1	2,507	1.7	1,068	0.7	9,455	6.6	0.00	
1/22/21	5,819	4.0	2,494	1.7	1,051	0.7	9,364	6.5	0.00	
1/23/21	5,752	4.0	2,463	1.7	1,024	0.7	9,239	6.4	0.00	
1/24/21	5,764	4.0	2,457	1.7	1,007	0.7	9,228	6.4	0.00	
1/25/21	5,769	4.0	2,456	1.7	994	0.7	9,219	6.4	0.00	
1/26/21	5,774	4.0	2,450	1.7	988	0.7	9,212	6.4	0.13	
1/27/21	5,728	4.0	2,434	1.7	979	0.7	9,141	6.3	0.00	
1/28/21	5,715	4.0	2,427	1.7	961	0.7	9,103	6.3	0.00	
1/29/21	5,716	4.0	2,424	1.7	949	0.7	9,089	6.3	0.00	
1/30/21	5,687	3.9	2,416	1.7	938	0.7	9,041	6.3	0.00	
1/31/21	5,702	4.0	2,417	1.7	934	0.6	9,053	6.3	0.16	
2/1/21	5,714	4.0	2,422	1.7	935	0.6	9,071	6.3	0.47	
2/2/21	5,681	3.9	2,417	1.7	935	0.6	9,033	6.3	0.01	
2/3/21	5,624	3.9	2,411	1.7	916	0.6	8,951	6.2	0.00	
2/4/21	4,533	3.1	1,969	1.4	795	0.6	7,297	5.1	0.00	GWTS Shutdown for GAC change out (7 hr)
2/5/21	5,670	3.9	2,673	1.9	933	0.6	9,276	6.4	0.02	
2/6/21	5,461	3.8	2,602	1.8	918	0.6	8,981	6.2	0.00	
2/7/21	5,478	3.8	2,621	1.8	918	0.6	9,017	6.3	0.16	
2/8/21	5,437	3.8	2,616	1.8	922	0.6	8,975	6.2	0.00	
2/9/21	5,491	3.8	2,631	1.8	926	0.6	9,048	6.3	0.00	
2/10/21	5,477	3.8	2,611	1.8	921	0.6	9,009	6.3	0.08	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
2/11/21	5,483	3.8	2,608	1.8	928	0.6	9,019	6.3	0.03	
2/12/21	5,465	3.8	2,600	1.8	931	0.6	8,996	6.2	0.00	
2/13/21	5,474	3.8	2,584	1.8	931	0.6	8,989	6.2	0.00	
2/14/21	5,463	3.8	2,573	1.8	923	0.6	8,959	6.2	0.00	
2/15/21	4,995	3.5	2,346	1.6	886	0.6	8,227	5.7	0.41	GWTS Shutdown for Effluent Pump Troubleshooting (3.9 hr)
2/16/21	5,551	3.9	2,794	1.9	944	0.7	9,289	6.5	0.29	
2/17/21	5,174	3.6	2,669	1.9	970	0.7	8,813	6.1	0.00	GWTS Shutdown to replace effluent pump plug (2.5 hr)
2/18/21	5,572	3.9	2,857	2.0	1,073	0.7	9,502	6.6	0.33	
2/19/21	5,557	3.9	2,831	2.0	1,111	0.8	9,499	6.6	0.05	
2/20/21	5,532	3.8	2,809	2.0	1,132	0.8	9,473	6.6	0.00	
2/21/21	5,531	3.8	2,778	1.9	1,144	0.8	9,453	6.6	0.00	
2/22/21	5,645	3.9	2,796	1.9	1,170	0.8	9,611	6.7	0.26	
2/23/21	4,940	3.4	2,407	1.7	1,069	0.7	8,416	5.8	0.00	SPBA Wells shutdown for cleanout installation on spare SPBA Line (4.8 hr)
2/24/21	5,764	4.0	2,938	2.0	1,183	0.8	9,885	6.9	0.00	
2/25/21	5,588	3.9	2,898	2.0	1,217	0.8	9,703	6.7	0.00	
2/26/21	5,606	3.9	2,877	2.0	1,256	0.9	9,739	6.8	0.04	
2/27/21	5,701	4.0	2,880	2.0	1,281	0.9	9,862	6.8	0.13	
2/28/21	5,746	4.0	2,900	2.0	1,313	0.9	9,959	6.9	0.86	
3/1/21	5,913	4.1	2,988	2.1	1,528	1.1	10,429	7.2	0.08	
3/2/21	5,950	4.1	2,959	2.1	1,660	1.2	10,569	7.3	0.00	
3/3/21	6,101	4.2	2,989	2.1	1,685	1.2	10,775	7.5	0.00	
3/4/21	6,110	4.2	2,958	2.1	1,656	1.2	10,724	7.4	0.00	
3/5/21	6,116	4.2	2,914	2.0	1,613	1.1	10,643	7.4	0.00	
3/6/21	6,122	4.3	2,836	2.0	1,552	1.1	10,510	7.3	0.00	
3/7/21	6,121	4.3	2,808	2.0	1,499	1.0	10,428	7.2	0.00	
3/8/21	6,139	4.3	2,787	1.9	1,455	1.0	10,381	7.2	0.00	
3/9/21	6,155	4.3	2,780	1.9	1,436	1.0	10,371	7.2	0.00	
3/10/21	6,134	4.3	2,754	1.9	1,404	1.0	10,292	7.1	0.00	
3/11/21	6,152	4.3	2,760	1.9	1,381	1.0	10,293	7.1	0.00	
3/12/21	6,129	4.3	2,742	1.9	1,365	0.9	10,236	7.1	0.00	
3/13/21	6,085	4.2	2,716	1.9	1,338	0.9	10,139	7.0	0.00	
3/14/21	5,845	4.1	2,588	1.8	1,264	0.9	9,697	6.7	0.00	
3/15/21	6,017	4.2	2,669	1.9	1,292	0.9	9,978	6.9	0.00	
3/16/21	6,049	4.2	2,664	1.9	1,283	0.9	9,996	6.9	0.00	
3/17/21	6,019	4.2	2,645	1.8	1,265	0.9	9,929	6.9	0.00	
3/18/21	6,045	4.2	2,638	1.8	1,270	0.9	9,953	6.9	0.68	
3/19/21	5,972	4.1	2,610	1.8	1,252	0.9	9,834	6.8	0.00	
3/20/21	5,983	4.2	2,585	1.8	1,236	0.9	9,804	6.8	0.00	
3/21/21	6,019	4.2	2,584	1.8	1,228	0.9	9,831	6.8	0.00	
3/22/21	6,019	4.2	2,585	1.8	1,231	0.9	9,835	6.8	0.00	
3/23/21	5,994	4.2	2,583	1.8	1,231	0.9	9,808	6.8	0.00	
3/24/21	5,985	4.2	2,585	1.8	1,229	0.9	9,799	6.8	0.81	
3/25/21	5,977	4.2	2,617	1.8	1,241	0.9	9,835	6.8	0.00	
3/26/21	6,017	4.2	2,627	1.8	1,266	0.9	9,910	6.9	0.00	
3/27/21	5,956	4.1	2,604	1.8	1,267	0.9	9,827	6.8	0.00	
3/28/21	6,039	4.2	2,628	1.8	1,286	0.9	9,953	6.9	0.59	
3/29/21	5,959	4.1	2,617	1.8	1,270	0.9	9,846	6.8	0.00	
3/30/21	5,994	4.2	2,614	1.8	1,283	0.9	9,891	6.9	0.00	
3/31/21	6,058	4.2	2,637	1.8	1,312	0.9	10,007	6.9	0.03	
4/1/21	6,022	4.2	2,633	1.8	1,302	0.9	9,957	6.9	0.22	
4/2/21	5,997	4.2	2,623	1.8	1,298	0.9	9,918	6.9	0.00	
4/3/21	6,006	4.2	2,608	1.8	1,285	0.9	9,899	6.9	0.00	
4/4/21	6,043	4.2	2,609	1.8	1,301	0.9	9,953	6.9	0.00	
4/5/21	6,007	4.2	2,599	1.8	1,299	0.9	9,905	6.9	0.00	
4/6/21	5,979	4.2	2,590	1.8	1,300	0.9	9,869	6.9	0.00	
4/7/21	5,952	4.1	2,571	1.8	1,296	0.9	9,819	6.8	0.00	
4/8/21	5,910	4.1	2,563	1.8	1,285	0.9	9,758	6.8	0.00	
4/9/21	5,892	4.1	2,554	1.8	1,279	0.9	9,725	6.8	0.02	
4/10/21	5,906	4.1	2,560	1.8	1,270	0.9	9,736	6.8	0.00	
4/11/21	5,940	4.1	2,573	1.8	1,271	0.9	9,784	6.8	1.00	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
4/12/21	5,888	4.1	2,582	1.8	1,262	0.9	9,732	6.8	0.00	
4/13/21	5,881	4.1	2,566	1.8	1,251	0.9	9,698	6.7	0.00	
4/14/21	5,923	4.1	2,565	1.8	1,254	0.9	9,742	6.8	0.00	
4/15/21	5,951	4.1	2,576	1.8	1,258	0.9	9,785	6.8	0.00	
4/16/21	5,906	4.1	2,564	1.8	1,249	0.9	9,719	6.7	0.00	
4/17/21	5,855	4.1	2,542	1.8	1,239	0.9	9,636	6.7	0.00	
4/18/21	5,842	4.1	2,530	1.8	1,236	0.9	9,608	6.7	0.00	
4/19/21	5,827	4.0	2,519	1.7	1,233	0.9	9,579	6.7	0.00	
4/20/21	5,815	4.0	2,507	1.7	1,228	0.9	9,550	6.6	0.00	
4/21/21	5,809	4.0	2,511	1.7	1,221	0.8	9,541	6.6	0.00	
4/22/21	5,693	4.0	2,490	1.7	1,204	0.8	9,387	6.5	0.00	
4/23/21	5,693	4.0	2,476	1.7	1,202	0.8	9,371	6.5	0.00	
4/24/21	5,706	4.0	2,479	1.7	1,199	0.8	9,384	6.5	0.09	
4/25/21	5,721	4.0	2,490	1.7	1,202	0.8	9,413	6.5	0.27	
4/26/21	5,660	3.9	2,466	1.7	1,179	0.8	9,305	6.5	0.00	
4/27/21	5,697	4.0	2,465	1.7	1,179	0.8	9,341	6.5	0.00	
4/28/21	5,677	3.9	2,471	1.7	1,192	0.8	9,340	6.5	0.00	
4/29/21	5,468	3.8	2,476	1.7	1,202	0.8	9,146	6.4	0.07	SPBA Power Failure (0.1 hr)
4/30/21	5,487	3.8	2,473	1.7	1,195	0.8	9,155	6.4	0.00	
5/1/21	5,457	3.8	2,449	1.7	1,180	0.8	9,086	6.3	0.00	
5/2/21	5,488	3.8	2,455	1.7	1,175	0.8	9,118	6.3	0.00	
5/3/21	5,474	3.8	2,432	1.7	1,174	0.8	9,080	6.3	0.21	
5/4/21	5,465	3.8	2,439	1.7	1,168	0.8	9,072	6.3	0.02	
5/5/21	5,528	3.8	2,449	1.7	1,156	0.8	9,133	6.3	0.38	CW-21 Borehole Video/Maint. (3.4 hr)
5/6/21	5,017	3.5	2,055	1.4	988	0.7	8,060	5.6	0.00	GWTS GAC Change Out (6.7 hr)
5/7/21	6,224	4.3	2,719	1.9	1,158	0.8	10,101	7.0	0.13	
5/8/21	5,966	4.1	2,659	1.8	1,138	0.8	9,763	6.8	0.00	
5/9/21	5,870	4.1	2,632	1.8	1,134	0.8	9,636	6.7	0.01	
5/10/21	5,826	4.0	2,615	1.8	1,134	0.8	9,575	6.6	0.00	
5/11/21	5,770	4.0	2,591	1.8	1,128	0.8	9,489	6.6	0.00	
5/12/21	5,747	4.0	2,788	1.9	1,107	0.8	9,642	6.7	0.00	Annual Maintenance (1.4 hr)
5/13/21	5,670	3.9	2,919	2.0	1,103	0.8	9,692	6.7	0.00	
5/14/21	5,621	3.9	2,885	2.0	1,088	0.8	9,594	6.7	0.00	
5/15/21	5,590	3.9	2,852	2.0	1,086	0.8	9,528	6.6	0.00	
5/16/21	5,555	3.9	2,831	2.0	1,080	0.8	9,466	6.6	0.02	
5/17/21	5,530	3.8	2,818	2.0	1,069	0.7	9,417	6.5	0.00	
5/18/21	5,502	3.8	2,791	1.9	1,062	0.7	9,355	6.5	0.00	
5/19/21	5,485	3.8	2,770	1.9	1,058	0.7	9,313	6.5	0.00	
5/20/21	5,472	3.8	2,745	1.9	1,050	0.7	9,267	6.4	0.00	
5/21/21	5,458	3.8	2,726	1.9	1,039	0.7	9,223	6.4	0.00	
5/22/21	5,481	3.8	2,715	1.9	1,040	0.7	9,236	6.4	0.00	
5/23/21	5,477	3.8	2,683	1.9	1,035	0.7	9,195	6.4	0.00	
5/24/21	5,418	3.8	2,684	1.9	1,030	0.7	9,132	6.3	0.13	
5/25/21	5,436	3.8	2,676	1.9	1,034	0.7	9,146	6.4	0.00	
5/26/21	5,452	3.8	2,662	1.8	1,020	0.7	9,134	6.3	0.61	
5/27/21	5,432	3.8	2,676	1.9	1,006	0.7	9,114	6.3	0.00	
5/28/21	5,443	3.8	2,678	1.9	1,013	0.7	9,134	6.3	0.41	
5/29/21	5,440	3.8	2,741	1.9	1,016	0.7	9,197	6.4	0.37	
5/30/21	5,468	3.8	2,797	1.9	1,009	0.7	9,274	6.4	0.00	
5/31/21	5,473	3.8	2,784	1.9	1,006	0.7	9,263	6.4	0.00	
6/1/21	5,478	3.8	2,767	1.9	999	0.7	9,244	6.4	0.00	
6/2/21	5,480	3.8	2,745	1.9	1,005	0.7	9,230	6.4	0.00	
6/3/21	5,475	3.8	2,734	1.9	1,005	0.7	9,214	6.4	0.58	
6/4/21	5,488	3.8	2,791	1.9	998	0.7	9,277	6.4	0.00	
6/5/21	5,477	3.8	2,794	1.9	983	0.7	9,254	6.4	0.00	
6/6/21	5,461	3.8	2,778	1.9	979	0.7	9,218	6.4	0.00	
6/7/21	5,451	3.8	2,762	1.9	978	0.7	9,191	6.4	0.00	
6/8/21	5,448	3.8	2,740	1.9	972	0.7	9,160	6.4	0.00	
6/9/21	5,438	3.8	2,724	1.9	976	0.7	9,138	6.3	0.13	
6/10/21	5,237	3.6	2,744	1.9	967	0.7	8,948	6.2	0.00	GWTS Annual Maintenance (0.8 hr)

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
6/11/21	5,327	3.7	2,755	1.9	969	0.7	9,051	6.3	0.14	
6/12/21	5,335	3.7	2,764	1.9	964	0.7	9,063	6.3	0.00	
6/13/21	5,326	3.7	2,748	1.9	958	0.7	9,032	6.3	0.00	
6/14/21	5,322	3.7	2,729	1.9	951	0.7	9,002	6.3	0.08	
6/15/21	5,301	3.7	2,721	1.9	933	0.6	8,955	6.2	0.00	
6/16/21	5,290	3.7	2,701	1.9	930	0.6	8,921	6.2	0.00	
6/17/21	5,269	3.7	2,687	1.9	927	0.6	8,883	6.2	0.00	
6/18/21	5,275	3.7	2,667	1.9	928	0.6	8,870	6.2	0.00	
6/19/21	5,277	3.7	2,649	1.8	916	0.6	8,842	6.1	0.00	
6/20/21	5,255	3.6	2,628	1.8	914	0.6	8,797	6.1	0.00	
6/21/21	5,251	3.6	2,615	1.8	911	0.6	8,777	6.1	0.03	
6/22/21	5,187	3.6	2,618	1.8	904	0.6	8,709	6.0	0.33	
6/23/21	5,157	3.6	2,622	1.8	893	0.6	8,672	6.0	0.00	
6/24/21	5,179	3.6	2,617	1.8	896	0.6	8,692	6.0	0.00	
6/25/21	5,196	3.6	2,610	1.8	886	0.6	8,692	6.0	0.00	
6/26/21	5,186	3.6	2,596	1.8	869	0.6	8,651	6.0	0.00	
6/27/21	5,174	3.6	2,579	1.8	860	0.6	8,613	6.0	0.00	
6/28/21	5,149	3.6	2,564	1.8	848	0.6	8,561	5.9	0.00	
6/29/21	5,145	3.6	2,551	1.8	843	0.6	8,539	5.9	0.00	
6/30/21	2,136	1.5	2,631	1.8	834	0.6	5,601	3.9	0.00	CW-21 Rehab , SPBA Power Failure (14 hr)
7/1/21	0	0.0	2,832	2.0	826	0.6	3,658	2.5	0.42	CW-21 Well Rehab (23.9 hr)
7/2/21	0	0.0	3,026	2.1	815	0.6	3,841	2.7	0.08	CW-21 Well Rehab (23.9 hr)
7/3/21	0	0.0	3,178	2.2	823	0.6	4,001	2.8	0.30	CW-21 Well Rehab (23.9 hr)
7/4/21	0	0.0	3,360	2.3	799	0.6	4,159	2.9	0.00	CW-21 Well Rehab (23.9 hr)
7/5/21	0	0.0	3,396	2.4	798	0.6	4,194	2.9	0.00	CW-21 Well Rehab (23.9 hr)
7/6/21	0	0.0	3,438	2.4	799	0.6	4,237	2.9	0.00	CW-21 Well Rehab (23.9 hr)
7/7/21	0	0.0	3,430	2.4	804	0.6	4,234	2.9	0.00	CW-21 Well Rehab (23.9 hr)
7/8/21	4,725	3.3	3,312	2.3	804	0.6	8,841	6.1	1.19	CW-21 Well Rehab (12.5 hr)
7/9/21	7,585	5.3	2,840	2.0	799	0.6	11,224	7.8	0.64	
7/10/21	5,908	4.1	2,780	1.9	762	0.5	9,450	6.6	0.00	
7/11/21	5,595	3.9	2,769	1.9	779	0.5	9,143	6.3	0.13	
7/12/21	5,333	3.7	2,759	1.9	780	0.5	8,872	6.2	0.44	
7/13/21	5,801	4.0	2,766	1.9	773	0.5	9,340	6.5	0.08	Replaced Coil Pipe CW-21 (21.9 hr)
7/14/21	6,246	4.3	2,722	1.9	787	0.5	9,755	6.8	0.01	
7/15/21	6,026	4.2	2,713	1.9	777	0.5	9,516	6.6	0.00	
7/16/21	5,898	4.1	2,683	1.9	770	0.5	9,351	6.5	0.00	
7/17/21	5,813	4.0	2,655	1.8	768	0.5	9,236	6.4	1.10	
7/18/21	5,780	4.0	2,724	1.9	767	0.5	9,271	6.4	0.00	
7/19/21	5,776	4.0	2,738	1.9	781	0.5	9,295	6.5	0.00	
7/20/21	5,764	4.0	2,727	1.9	773	0.5	9,264	6.4	0.00	
7/21/21	5,728	4.0	2,699	1.9	770	0.5	9,197	6.4	0.03	
7/22/21	5,630	3.9	2,677	1.9	761	0.5	9,068	6.3	0.00	
7/23/21	5,623	3.9	2,658	1.8	785	0.5	9,066	6.3	0.00	
7/24/21	5,616	3.9	2,627	1.8	773	0.5	9,016	6.3	0.00	
7/25/21	5,620	3.9	2,600	1.8	775	0.5	8,995	6.2	0.41	
7/26/21	4,290	3.0	2,015	1.4	617	0.4	6,922	4.8	0.00	SPBA Power Fail (6.1 hr)
7/27/21	3,469	2.4	2,577	1.8	713	0.5	6,759	4.7	0.00	SPBA Power Fail - CW-21 could not be restarted remotely (10.5 hr)
7/28/21	4,036	2.8	2,875	2.0	753	0.5	7,664	5.3	0.04	CW-21 VFD Fault, Reset VFD (11.3 hr)
7/29/21	6,103	4.2	2,666	1.9	765	0.5	9,534	6.6	0.16	
7/30/21	5,679	3.9	2,633	1.8	721	0.5	9,033	6.3	0.00	
7/31/21	5,493	3.8	2,606	1.8	697	0.5	8,796	6.1	0.00	
8/1/21	5,427	3.8	2,582	1.8	721	0.5	8,730	6.1	0.70	
8/2/21	5,373	3.7	2,636	1.8	721	0.5	8,730	6.1	0.00	
8/3/21	5,362	3.7	2,637	1.8	711	0.5	8,710	6.0	0.00	
8/4/21	5,351	3.7	2,614	1.8	691	0.5	8,656	6.0	0.00	
8/5/21	5,338	3.7	2,583	1.8	643	0.4	8,564	5.9	0.00	
8/6/21	5,318	3.7	2,562	1.8	661	0.5	8,541	5.9	0.00	
8/7/21	5,311	3.7	2,536	1.8	662	0.5	8,509	5.9	0.00	
8/8/21	5,287	3.7	2,521	1.8	659	0.5	8,467	5.9	0.00	
8/9/21	5,262	3.7	2,493	1.7	651	0.5	8,406	5.8	0.00	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
8/10/21	5,262	3.7	2,482	1.7	635	0.4	8,379	5.8	0.38	
8/11/21	5,270	3.7	2,499	1.7	619	0.4	8,388	5.8	0.69	
8/12/21	5,115	3.6	2,478	1.7	614	0.4	8,207	5.7	0.03	SPBA Power Fail (0.8 hr)
8/13/21	4,340	3.0	2,194	1.5	571	0.4	7,105	4.9	1.10	SPBA Power Fail (7 hr)
8/14/21	5,401	3.8	2,804	1.9	685	0.5	8,890	6.2	0.00	
8/15/21	5,323	3.7	2,820	2.0	675	0.5	8,818	6.1	0.00	
8/16/21	5,277	3.7	2,817	2.0	645	0.4	8,739	6.1	0.31	SPBA Power Fail (0.2 hr)
8/17/21	5,279	3.7	2,829	2.0	656	0.5	8,764	6.1	0.63	
8/18/21	5,291	3.7	2,900	2.0	663	0.5	8,854	6.1	3.69	Shutdown for GWTS Low Flow Programming (0.4 hr)
8/19/21	5,569	3.9	3,140	2.2	710	0.5	9,419	6.5	0.05	
8/20/21	5,833	4.1	3,233	2.2	850	0.6	9,916	6.9	0.09	
8/21/21	5,962	4.1	3,253	2.3	948	0.7	10,163	7.1	0.00	
8/22/21	6,026	4.2	3,248	2.3	1,006	0.7	10,280	7.1	2.06	
8/23/21	6,190	4.3	3,353	2.3	1,199	0.8	10,742	7.5	0.06	
8/24/21	6,241	4.3	3,314	2.3	1,333	0.9	10,888	7.6	0.00	
8/25/21	6,263	4.3	3,246	2.3	1,296	0.9	10,805	7.5	0.00	
8/26/21	6,248	4.3	3,214	2.2	1,257	0.9	10,719	7.4	0.00	
8/27/21	6,249	4.3	3,168	2.2	1,217	0.8	10,634	7.4	0.36	
8/28/21	6,236	4.3	3,142	2.2	1,183	0.8	10,561	7.3	0.00	
8/29/21	6,237	4.3	3,103	2.2	1,173	0.8	10,513	7.3	0.00	
8/30/21	6,255	4.3	3,095	2.1	1,147	0.8	10,497	7.3	0.24	
8/31/21	6,220	4.3	3,079	2.1	1,129	0.8	10,428	7.2	0.00	
9/1/21	6,318	4.4	3,181	2.2	1,179	0.8	10,678	7.4	6.40	
9/2/21	6,143	4.3	3,069	2.1	1,846	1.3	11,058	7.7	0.00	Shutdown for GAC Change Out (4.5 hr)
9/3/21	7,501	5.2	3,656	2.5	2,248	1.6	13,405	9.3	0.00	Shutdown for Communication Troubleshooting (0.4 hr)
9/4/21	7,683	5.3	3,631	2.5	2,123	1.5	13,437	9.3	0.00	
9/5/21	7,690	5.3	3,496	2.4	1,983	1.4	13,169	9.1	0.13	
9/6/21	7,670	5.3	3,414	2.4	1,841	1.3	12,925	9.0	0.00	
9/7/21	7,609	5.3	3,366	2.3	1,722	1.2	12,697	8.8	0.00	
9/8/21	7,573	5.3	3,316	2.3	1,628	1.1	12,517	8.7	0.66	
9/9/21	7,567	5.3	3,319	2.3	1,564	1.1	12,450	8.6	0.63	
9/10/21	6,617	4.6	3,059	2.1	1,374	1.0	11,050	7.7	0.00	Shutdown for troubleshooting and to relocate communication antenna out of CP-1 (4.4 hr)
9/11/21	7,574	5.3	3,696	2.6	1,516	1.1	12,786	8.9	0.00	
9/12/21	7,413	5.1	3,520	2.4	1,454	1.0	12,387	8.6	0.00	
9/13/21	7,339	5.1	3,455	2.4	1,418	1.0	12,212	8.5	0.00	
9/14/21	7,279	5.1	3,405	2.4	1,385	1.0	12,069	8.4	0.00	
9/15/21	7,226	5.0	3,387	2.4	1,359	0.9	11,972	8.3	1.00	
9/16/21	7,069	4.9	3,341	2.3	1,338	0.9	11,748	8.2	0.00	EQ tank high level (0.1 hr)
9/17/21	7,120	4.9	3,313	2.3	1,339	0.9	11,772	8.2	0.00	
9/18/21	7,101	4.9	3,286	2.3	1,326	0.9	11,713	8.1	0.00	
9/19/21	6,853	4.8	3,404	2.4	1,300	0.9	11,557	8.0	0.00	SPB Power Fail (1.4 hr)
9/20/21	6,941	4.8	3,559	2.5	1,292	0.9	11,792	8.2	0.00	
9/21/21	6,858	4.8	3,533	2.5	1,278	0.9	11,669	8.1	0.00	
9/22/21	6,851	4.8	3,486	2.4	1,270	0.9	11,607	8.1	0.41	
9/23/21	6,869	4.8	3,494	2.4	1,282	0.9	11,645	8.1	1.33	
9/24/21	6,934	4.8	3,488	2.4	1,435	1.0	11,857	8.2	0.00	
9/25/21	6,991	4.9	3,442	2.4	1,485	1.0	11,918	8.3	0.00	
9/26/21	6,979	4.8	3,445	2.4	1,459	1.0	11,883	8.3	0.00	
9/27/21	6,943	4.8	3,409	2.4	1,428	1.0	11,780	8.2	0.00	
9/28/21	6,912	4.8	3,383	2.3	1,404	1.0	11,699	8.1	0.01	
9/29/21	6,848	4.8	3,316	2.3	1,373	1.0	11,537	8.0	0.00	
9/30/21	6,822	4.7	3,254	2.3	1,345	0.9	11,421	7.9	0.00	
10/1/21	6,783	4.7	3,223	2.2	1,324	0.9	11,330	7.9	0.00	
10/2/21	6,779	4.7	3,231	2.2	1,311	0.9	11,321	7.9	0.00	
10/3/21	6,755	4.7	3,241	2.3	1,292	0.9	11,288	7.8	0.05	
10/4/21	6,694	4.6	3,216	2.2	1,274	0.9	11,184	7.8	0.03	
10/5/21	6,600	4.6	3,179	2.2	1,242	0.9	11,021	7.7	0.03	
10/6/21	6,568	4.6	3,138	2.2	1,220	0.8	10,926	7.6	0.00	
10/7/21	6,583	4.6	3,117	2.2	1,215	0.8	10,915	7.6	0.00	
10/8/21	6,560	4.6	3,120	2.2	1,197	0.8	10,877	7.6	0.00	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
10/9/21	6,506	4.5	3,100	2.2	1,189	0.8	10,795	7.5	0.00	
10/10/21	6,479	4.5	3,039	2.1	1,174	0.8	10,692	7.4	0.00	
10/11/21	6,471	4.5	2,907	2.0	1,150	0.8	10,528	7.3	0.00	
10/12/21	6,440	4.5	2,937	2.0	1,133	0.8	10,510	7.3	0.00	
10/13/21	6,407	4.4	2,939	2.0	1,111	0.8	10,457	7.3	0.00	
10/14/21	6,377	4.4	2,929	2.0	1,104	0.8	10,410	7.2	0.00	
10/15/21	6,352	4.4	2,931	2.0	1,092	0.8	10,375	7.2	0.00	
10/16/21	6,330	4.4	2,947	2.0	1,081	0.8	10,358	7.2	0.01	
10/17/21	6,247	4.3	2,936	2.0	1,078	0.7	10,261	7.1	0.00	
10/18/21	6,224	4.3	2,919	2.0	1,057	0.7	10,200	7.1	0.00	
10/19/21	6,187	4.3	2,913	2.0	1,045	0.7	10,145	7.0	0.00	
10/20/21	6,175	4.3	2,852	2.0	1,035	0.7	10,062	7.0	0.00	
10/21/21	6,193	4.3	2,877	2.0	1,021	0.7	10,091	7.0	0.00	
10/22/21	6,145	4.3	2,901	2.0	1,017	0.7	10,063	7.0	0.00	
10/23/21	6,099	4.2	2,882	2.0	1,014	0.7	9,995	6.9	0.02	
10/24/21	6,060	4.2	2,876	2.0	1,002	0.7	9,938	6.9	0.00	
10/25/21	6,097	4.2	2,897	2.0	991	0.7	9,985	6.9	0.02	
10/26/21	6,113	4.2	2,941	2.0	992	0.7	10,046	7.0	0.00	
10/27/21	6,036	4.2	2,940	2.0	978	0.7	9,954	6.9	0.00	
10/28/21	5,985	4.2	2,926	2.0	973	0.7	9,884	6.9	0.00	
10/29/21	6,051	4.2	2,958	2.1	964	0.7	9,973	6.9	1.14	
10/30/21	6,110	4.2	2,993	2.1	971	0.7	10,074	7.0	0.02	
10/31/21	6,115	4.2	2,981	2.1	979	0.7	10,075	7.0	0.04	
11/1/21	6,068	4.2	2,934	2.0	983	0.7	9,985	6.9	0.00	
11/2/21	6,104	4.2	2,932	2.0	992	0.7	10,028	7.0	0.00	
11/3/21	6,102	4.2	2,926	2.0	994	0.7	10,022	7.0	0.00	
11/4/21	6,104	4.2	2,918	2.0	994	0.7	10,016	7.0	0.00	
11/5/21	6,075	4.2	2,902	2.0	992	0.7	9,969	6.9	0.00	
11/6/21	6,068	4.2	2,908	2.0	991	0.7	9,967	6.9	0.00	
11/7/21	2,314	1.6	1,180	0.8	403	0.3	3,897	2.7	0.00	GWTS off Line - PTA Blower Repairs (14.25 hr)
11/8/21	0	0.0	0	0.0	0	0.0	0	0.0	0.00	GWTS off Line - PTA Blower Repairs (24 hr)
11/9/21	0	0.0	0	0.0	0	0.0	0	0.0	0.00	GWTS off Line - PTA Blower Repairs (24 hr)
11/10/21	0	0.0	0	0.0	0	0.0	0	0.0	0.00	GWTS off Line - PTA Blower Repairs (24 hr)
11/11/21	5,820	4.0	2,339	1.6	1,064	0.7	9,223	6.4	0.00	GWTS off Line - PTA Blower Repairs (9.1 hr)
11/12/21	1,615	1.1	655	0.5	253	0.2	2,523	1.8	0.77	H-D Sitewide Power Outage (20 hr)
11/13/21	9,651	6.7	3,911	2.7	1,521	1.1	15,083	10.5	0.07	H-D Sitewide Power Outage (1.75 hr)
11/14/21	7,298	5.1	3,206	2.2	1,024	0.7	11,528	8.0	0.00	
11/15/21	6,617	4.6	3,090	2.1	995	0.7	10,702	7.4	0.00	
11/16/21	6,308	4.4	3,074	2.1	969	0.7	10,351	7.2	0.00	
11/17/21	6,185	4.3	3,073	2.1	965	0.7	10,223	7.1	0.00	
11/18/21	6,134	4.3	3,067	2.1	963	0.7	10,164	7.1	0.00	
11/19/21	5,993	4.2	3,034	2.1	954	0.7	9,981	6.9	0.00	
11/20/21	5,970	4.1	2,992	2.1	942	0.7	9,904	6.9	0.00	
11/21/21	6,019	4.2	2,982	2.1	941	0.7	9,942	6.9	0.00	
11/22/21	6,004	4.2	2,968	2.1	943	0.7	9,915	6.9	0.04	
11/23/21	5,900	4.1	2,924	2.0	928	0.6	9,752	6.8	0.00	
11/24/21	5,847	4.1	2,894	2.0	913	0.6	9,654	6.7	0.00	
11/25/21	5,918	4.1	2,895	2.0	916	0.6	9,729	6.8	0.00	
11/26/21	5,907	4.1	2,860	2.0	907	0.6	9,674	6.7	0.00	
11/27/21	5,830	4.0	2,840	2.0	899	0.6	9,569	6.6	0.00	
11/28/21	5,837	4.1	2,841	2.0	893	0.6	9,571	6.6	0.01	
11/29/21	5,782	4.0	2,803	1.9	882	0.6	9,467	6.6	0.00	
11/30/21	5,790	4.0	2,753	1.9	875	0.6	9,418	6.5	0.00	
12/1/21	5,767	4.0	2,655	1.8	864	0.6	9,286	6.4	0.00	
12/2/21	5,838	4.1	2,694	1.9	856	0.6	9,388	6.5	0.01	
12/3/21	5,734	4.0	2,669	1.9	849	0.6	9,252	6.4	0.00	
12/4/21	5,720	4.0	2,654	1.8	836	0.6	9,210	6.4	0.00	
12/5/21	5,697	4.0	2,645	1.8	825	0.6	9,167	6.4	0.00	
12/6/21	5,787	4.0	2,655	1.8	825	0.6	9,267	6.4	0.01	
12/7/21	5,665	3.9	2,613	1.8	816	0.6	9,094	6.3	0.00	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
12/8/21	5,701	4.0	2,614	1.8	813	0.6	9,128	6.3	0.00	
12/9/21	5,656	3.9	2,586	1.8	807	0.6	9,049	6.3	0.00	
12/10/21	5,676	3.9	2,586	1.8	799	0.6	9,061	6.3	0.00	
12/11/21	5,733	4.0	2,586	1.8	799	0.6	9,118	6.3	0.07	
12/12/21	5,591	3.9	2,554	1.8	787	0.5	8,932	6.2	0.00	
12/13/21	5,612	3.9	2,557	1.8	781	0.5	8,950	6.2	0.00	
12/14/21	5,585	3.9	2,532	1.8	765	0.5	8,882	6.2	0.00	
12/15/21	5,622	3.9	2,536	1.8	763	0.5	8,921	6.2	0.00	
12/16/21	5,690	4.0	2,541	1.8	769	0.5	9,000	6.3	0.00	
12/17/21	5,616	3.9	2,539	1.8	773	0.5	8,928	6.2	0.00	
12/18/21	5,627	3.9	2,555	1.8	756	0.5	8,938	6.2	0.03	
12/19/21	5,554	3.9	2,557	1.8	749	0.5	8,860	6.2	0.01	
12/20/21	5,530	3.8	2,536	1.8	744	0.5	8,810	6.1	0.00	
12/21/21	5,575	3.9	2,550	1.8	732	0.5	8,857	6.2	0.00	
12/22/21	5,566	3.9	2,530	1.8	730	0.5	8,826	6.1	0.00	
12/23/21	5,474	3.8	2,496	1.7	710	0.5	8,680	6.0	0.00	
12/24/21	5,517	3.8	2,529	1.8	701	0.5	8,747	6.1	0.00	
12/25/21	5,561	3.9	2,512	1.7	700	0.5	8,773	6.1	0.05	
12/26/21	5,424	3.8	2,488	1.7	703	0.5	8,615	6.0	0.00	
12/27/21	5,459	3.8	2,486	1.7	685	0.5	8,630	6.0	0.24	
12/28/21	5,483	3.8	2,485	1.7	678	0.5	8,646	6.0	0.03	
12/29/21	5,469	3.8	2,489	1.7	683	0.5	8,641	6.0	0.00	
12/30/21	5,466	3.8	2,483	1.7	674	0.5	8,623	6.0	0.11	
12/31/21	5,468	3.8	2,497	1.7	670	0.5	8,635	6.0	0.00	
1/1/2022	5,507	3.9	2,500	1.8	674	0.6	8,681	6.0	0.68	
1/2/2022	5,509	3.9	2,534	1.8	657	0.5	8,700	6.0	0.05	
1/3/2022	5,484	3.8	2,544	1.7	641	0.3	8,669	6.0	0.00	
1/4/2022	5,504	4.0	2,549	1.9	642	0.5	8,695	6.0	0.00	
1/5/2022	5,619	4.1	2,569	1.8	673	0.6	8,861	6.2	0.00	
1/6/2022	5,554	3.9	2,542	1.8	655	0.5	8,751	6.1	0.03	
1/7/2022	5,505	3.7	2,512	1.5	661	0.2	8,678	6.0	0.18	
1/8/2022	5,440	3.8	2,490	1.8	663	0.4	8,593	6.0	0.00	
1/9/2022	5,560	3.8	2,513	1.7	644	0.5	8,717	6.1	0.23	
1/10/2022	5,530	3.9	2,513	1.7	674	0.5	8,717	6.1	0.00	
1/11/2022	5,488	3.8	2,508	1.8	685	0.4	8,681	6.0	0.00	
1/12/2022	5,575	3.9	2,512	1.5	671	0.6	8,758	6.1	0.00	
1/13/2022	5,585	3.9	2,479	1.6	677	0.5	8,741	6.1	0.00	
1/14/2022	5,544	3.7	2,448	1.7	690	0.3	8,682	6.0	0.00	
1/15/2022	5,453	3.8	2,440	1.7	678	0.4	8,571	6.0	0.00	
1/16/2022	5,537	4.0	2,461	2.0	689	0.5	8,687	6.0	0.59	
1/17/2022	5,651	3.9	2,502	1.8	706	0.4	8,859	6.2	0.33	
1/18/2022	5,495	3.7	2,524	1.7	718	0.5	8,737	6.1	0.00	
1/19/2022	5,580	3.9	2,531	1.7	741	0.7	8,852	6.1	0.00	
1/20/2022	5,575	3.8	2,531	1.7	779	0.4	8,885	6.2	0.23	
1/21/2022	5,591	4.0	2,532	1.9	807	0.4	8,930	6.2	0.00	
1/22/2022	5,692	4.0	2,544	1.9	845	0.5	9,081	6.3	0.00	
1/23/2022	5,760	4.1	2,568	1.8	867	0.5	9,195	6.4	0.00	
1/24/2022	5,703	4.0	2,550	1.6	901	0.6	9,154	6.4	0.00	
1/25/2022	5,645	4.1	2,535	1.6	926	0.7	9,106	6.3	0.00	
1/26/2022	5,599	4.0	2,510	1.6	945	0.6	9,054	6.3	0.00	
1/27/2022	5,647	4.1	2,507	1.7	955	0.6	9,109	6.3	0.00	
1/28/2022	5,690	4.1	2,510	1.8	962	0.6	9,162	6.4	0.03	
1/29/2022	5,682	3.9	2,510	1.7	963	0.6	9,155	6.4	0.00	
1/30/2022	5,604	3.9	2,491	1.8	964	0.7	9,059	6.3	0.00	
1/31/2022	5,565	3.9	2,470	1.6	949	0.7	8,984	6.2	0.00	
2/1/2022	5,566	3.9	2,456	1.9	953	0.7	8,975	6.2	0.00	
2/2/2022	5,599	3.8	2,462	1.5	940	0.6	9,001	6.3	0.00	
2/3/2022	5,634	4.0	2,467	1.6	946	0.6	9,047	6.3	0.77	
2/4/2022	5,697	3.8	2,533	1.8	952	0.6	9,182	6.4	0.40	
2/5/2022	5,700	4.0	2,580	1.9	993	0.7	9,273	6.4	0.00	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
2/6/2022	5,766	3.8	2,598	1.8	1,043	0.6	9,407	6.5	0.00	
2/7/2022	5,865	4.0	2,620	2.0	1,081	0.8	9,566	6.6	0.00	
2/8/2022	5,853	4.0	2,633	1.7	1,087	0.6	9,573	6.6	0.00	
2/9/2022	5,846	4.1	2,622	2.0	1,098	0.6	9,566	6.6	0.00	
2/10/2022	5,842	4.2	2,605	1.7	1,107	0.9	9,554	6.6	0.00	
2/11/2022	5,820	4.0	2,602	1.9	1,103	0.8	9,525	6.6	0.00	
2/12/2022	5,778	4.0	2,583	1.8	1,111	0.7	9,472	6.6	0.00	
2/13/2022	5,773	4.1	2,570	1.8	1,108	0.7	9,451	6.6	0.04	
2/14/2022	5,749	4.0	2,557	1.7	1,095	0.8	9,401	6.5	0.00	
2/15/2022	5,099	0.0	2,266	0.0	978	0.0	8,343	5.8	0.00	SPBA Power Failure Alarm (2.5hrs)
2/16/2022	5,568	4.2	2,653	2.0	1,109	0.7	9,330	6.5	0.00	SPBA Power Failure Alarm (2.6hrs)
2/17/2022	5,838	4.2	2,754	1.9	1,105	0.8	9,697	6.7	0.35	
2/18/2022	5,712	3.9	2,745	1.9	1,099	0.7	9,556	6.6	0.09	
2/19/2022	5,633	3.7	2,750	1.8	1,088	0.7	9,471	6.6	0.00	
2/20/2022	5,594	3.9	2,717	1.7	1,081	0.8	9,392	6.5	0.00	
2/21/2022	5,632	4.1	2,725	1.9	1,091	0.6	9,448	6.6	0.00	
2/22/2022	5,649	3.9	2,699	1.8	1,098	0.7	9,446	6.6	0.11	
2/23/2022	5,624	3.9	2,698	1.7	1,091	0.8	9,413	6.5	0.00	
2/24/2022	5,564	3.9	2,666	1.9	1,078	0.7	9,308	6.5	0.06	
2/25/2022	5,647	3.9	2,703	1.8	1,084	0.6	9,434	6.6	0.58	
2/26/2022	5,632	3.8	2,735	2.0	1,079	0.8	9,446	6.6	0.00	
2/27/2022	5,736	3.9	2,749	1.9	1,103	0.7	9,588	6.7	0.00	
2/28/2022	5,668	4.0	2,715	1.8	1,107	0.7	9,490	6.6	0.00	
3/1/2022	5,719	4.0	2,714	2.0	1,118	0.8	9,551	6.6	0.00	
3/2/2022	5,700	4.1	2,717	1.8	1,117	0.7	9,534	6.6	0.00	
3/3/2022	5,651	3.9	2,683	1.8	1,121	0.7	9,455	6.6	0.00	
3/4/2022	5,603	3.9	2,660	1.9	1,121	0.6	9,384	6.5	0.00	
3/5/2022	5,662	4.0	2,660	1.9	1,126	0.9	9,448	6.6	0.00	
3/6/2022	5,711	4.0	2,666	1.9	1,130	0.8	9,507	6.6	0.00	
3/7/2022	5,722	4.0	2,652	1.9	1,131	0.7	9,505	6.6	0.08	
3/8/2022	5,594	3.8	2,612	1.7	1,119	0.6	9,325	6.5	0.00	
3/9/2022	5,655	3.9	2,633	1.7	1,119	0.8	9,407	6.5	0.38	
3/10/2022	5,639	4.0	2,630	1.8	1,108	0.8	9,377	6.5	0.00	
3/11/2022	5,703	4.0	2,643	1.8	1,121	0.7	9,467	6.6	0.00	
3/12/2022	5,738	3.9	2,659	1.9	1,107	0.7	9,504	6.6	0.43	
3/13/2022	5,377	4.0	2,576	1.9	1,058	0.7	9,011	6.3	0.01	SPBA Power Failure Alarm (1hr)
3/14/2022	5,653	3.9	2,699	1.8	1,106	0.8	9,458	6.6	0.00	
3/15/2022	5,722	4.0	2,759	1.8	1,115	0.7	9,596	6.7	0.00	
3/16/2022	5,720	4.2	2,762	1.7	1,123	0.8	9,605	6.7	0.00	
3/17/2022	5,752	4.0	2,744	1.9	1,135	0.9	9,631	6.7	0.06	
3/18/2022	5,734	4.0	2,747	2.0	1,138	0.8	9,619	6.7	0.00	
3/19/2022	5,762	4.1	2,794	2.0	1,143	0.7	9,699	6.7	0.03	
3/20/2022	5,681	3.9	2,781	1.7	1,141	0.8	9,603	6.7	0.00	
3/21/2022	5,658	3.9	2,709	1.7	1,142	0.9	9,509	6.6	0.00	
3/22/2022	5,665	4.1	2,702	1.8	1,136	0.7	9,503	6.6	0.00	
3/23/2022	5,691	3.8	2,696	1.9	1,133	1.0	9,520	6.6	0.21	
3/24/2022	5,733	4.2	2,698	1.9	1,140	0.8	9,571	6.6	0.04	
3/25/2022	5,747	3.9	2,709	1.9	1,135	0.7	9,591	6.7	0.00	
3/26/2022	5,739	4.0	2,693	1.7	1,132	1.0	9,564	6.6	0.00	
3/27/2022	5,663	4.0	2,633	2.0	1,127	0.7	9,423	6.5	0.00	
3/28/2022	5,631	4.0	2,612	1.8	1,121	0.8	9,364	6.5	0.00	
3/29/2022	5,617	3.9	2,588	1.9	1,111	0.8	9,316	6.5	0.00	
3/30/2022	5,666	4.0	2,585	1.8	1,115	0.8	9,366	6.5	0.00	
3/31/2022	5,754	4.0	2,617	1.8	1,118	0.5	9,489	6.6	0.98	
4/1/2022	5,683	3.9	2,634	1.9	1,117	0.7	9,434	6.6	0.01	
4/2/2022	5,688	3.9	2,651	1.9	1,127	0.9	9,466	6.6	0.00	
4/3/2022	5,772	4.2	2,683	1.5	1,143	0.9	9,598	6.7	0.00	
4/4/2022	5,733	4.0	2,657	1.8	1,146	0.8	9,536	6.6	0.00	
4/5/2022	5,765	4.0	2,657	1.9	1,154	0.8	9,576	6.7	0.26	
4/6/2022	5,803	4.0	2,676	1.9	1,151	0.8	9,630	6.7	0.17	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
4/7/2022	5,839	4.1	2,711	2.0	1,161	0.8	9,711	6.7	1.00	
4/8/2022	5,992	4.2	2,792	2.0	1,224	0.9	10,008	7.0	0.04	
4/9/2022	6,092	4.3	2,802	1.9	1,339	1.0	10,233	7.1	0.05	
4/10/2022	6,087	4.2	2,778	1.9	1,391	1.0	10,256	7.1	0.00	
4/11/2022	6,096	4.4	2,757	2.1	1,397	1.0	10,250	7.1	0.00	
4/12/2022	6,131	4.1	2,773	1.9	1,389	1.0	10,293	7.1	0.00	
4/13/2022	6,165	4.4	2,787	1.9	1,391	0.9	10,343	7.2	0.00	
4/14/2022	6,166	4.1	2,792	2.0	1,381	1.0	10,339	7.2	0.00	
4/15/2022	6,091	4.2	2,747	1.9	1,369	1.1	10,207	7.1	0.00	
4/16/2022	6,133	4.2	2,754	2.0	1,364	0.8	10,251	7.1	0.03	
4/17/2022	6,051	4.3	2,709	1.8	1,348	0.9	10,108	7.0	0.00	
4/18/2022	6,085	4.2	2,701	1.9	1,335	1.0	10,121	7.0	0.89	
4/19/2022	6,138	4.2	2,779	1.9	1,340	1.0	10,257	7.1	0.06	
4/20/2022	6,069	4.2	2,741	1.9	1,324	0.9	10,134	7.0	0.00	
4/21/2022	6,131	4.2	2,720	2.0	1,310	1.0	10,161	7.1	0.01	
4/22/2022	6,135	4.3	2,715	1.9	1,303	0.8	10,153	7.1	0.00	
4/23/2022	6,042	4.1	2,868	2.1	1,289	1.0	10,199	7.1	0.00	
4/24/2022	6,029	4.2	2,933	1.9	1,297	0.8	10,259	7.1	0.00	
4/25/2022	5,981	4.0	2,906	2.0	1,289	0.9	10,176	7.1	0.00	
4/26/2022	5,973	4.2	2,914	2.0	1,283	0.9	10,170	7.1	0.03	
4/27/2022	5,930	4.2	2,867	2.0	1,269	1.0	10,066	7.0	0.00	
4/28/2022	5,906	4.1	2,837	1.8	1,262	0.9	10,005	6.9	0.00	
4/29/2022	5,885	4.2	2,815	1.9	1,255	0.9	9,955	6.9	0.00	
4/30/2022	5,871	4.2	2,824	2.0	1,248	0.7	9,943	6.9	0.00	
5/1/2022	5,852	4.0	2,844	2.0	1,239	0.8	9,935	6.9	0.17	
5/2/2022	5,841	4.1	2,837	2.0	1,234	1.0	9,912	6.9	0.05	
5/3/2022	5,807	4.1	2,826	1.9	1,222	0.7	9,855	6.8	0.00	
5/4/2022	5,810	4.2	2,810	2.0	1,212	0.9	9,832	6.8	0.21	
5/5/2022	5,785	4.1	2,795	1.9	1,212	1.0	9,792	6.8	0.00	
5/6/2022	5,871	4.3	2,812	1.9	1,215	0.8	9,898	6.9	2.06	
5/7/2022	6,205	4.5	2,911	2.1	1,344	1.1	10,460	7.3	1.07	
5/8/2022	6,539	4.8	2,972	2.1	1,687	1.1	11,198	7.8	0.00	
5/9/2022	6,702	4.6	2,966	2.0	1,884	1.4	11,552	8.0	0.00	
5/10/2022	6,755	4.6	2,967	2.0	1,893	1.5	11,615	8.1	0.00	
5/11/2022	6,774	4.6	2,983	2.1	1,847	1.3	11,604	8.1	0.00	
5/12/2022	6,737	4.8	2,974	2.0	1,786	1.2	11,497	8.0	0.00	
5/13/2022	6,705	4.7	2,969	2.2	1,722	1.2	11,396	7.9	0.00	
5/14/2022	6,689	4.7	2,980	2.2	1,676	1.2	11,345	7.9	0.05	
5/15/2022	6,644	4.7	2,974	2.1	1,630	1.3	11,248	7.8	0.01	
5/16/2022	6,602	4.6	2,974	2.2	1,599	1.1	11,175	7.8	0.04	
5/17/2022	6,544	4.6	2,947	2.0	1,558	1.0	11,049	7.7	0.00	
5/18/2022	6,512	4.7	2,921	2.0	1,536	1.0	10,969	7.6	0.05	
5/19/2022	6,545	4.6	2,936	2.0	1,508	1.1	10,989	7.6	0.51	
5/20/2022	6,508	4.5	2,918	2.1	1,479	1.0	10,905	7.6	0.54	
5/21/2022	6,499	4.7	2,883	2.1	1,449	1.0	10,831	7.5	0.00	
5/22/2022	6,501	4.7	2,901	2.0	1,422	1.2	10,824	7.5	0.75	
5/23/2022	6,489	4.6	2,864	1.9	1,418	1.0	10,771	7.5	0.00	
5/24/2022	6,509	4.6	2,862	2.0	1,418	0.9	10,789	7.5	0.00	
5/25/2022	6,484	4.5	2,839	2.1	1,398	1.0	10,721	7.4	0.00	
5/26/2022	6,484	4.6	2,845	2.0	1,388	1.1	10,717	7.4	0.00	
5/27/2022	6,483	4.4	2,854	1.8	1,380	0.8	10,717	7.4	0.26	
5/28/2022	6,414	4.5	2,852	2.1	1,374	0.9	10,640	7.4	0.00	
5/29/2022	6,324	4.3	2,799	2.0	1,338	1.1	10,461	7.3	0.00	
5/30/2022	6,298	4.5	2,783	2.0	1,325	0.9	10,406	7.2	0.00	
5/31/2022	6,285	4.4	2,771	1.9	1,311	0.9	10,367	7.2	0.00	
6/1/2022	6,258	4.4	2,772	1.9	1,302	0.8	10,332	7.2	0.00	
6/2/2022	6,221	4.4	2,758	1.9	1,290	0.9	10,269	7.1	0.12	
6/3/2022	6,159	4.3	2,767	2.0	1,279	0.9	10,205	7.1	0.00	
6/4/2022	6,102	4.2	2,757	1.9	1,271	1.0	10,130	7.0	0.00	
6/5/2022	6,056	4.2	2,748	1.9	1,266	0.8	10,070	7.0	0.00	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
6/6/2022	6,023	4.2	2,732	2.1	1,246	0.8	10,001	6.9	0.00	
6/7/2022	6,009	4.2	2,719	1.8	1,236	1.0	9,964	6.9	0.05	
6/8/2022	5,983	4.0	2,727	2.0	1,233	0.7	9,943	6.9	0.12	
6/9/2022	5,963	4.1	2,720	1.9	1,222	0.8	9,905	6.9	0.06	
6/10/2022	5,886	4.0	2,694	1.9	1,214	0.8	9,794	6.8	0.00	
6/11/2022	5,855	4.0	2,693	2.0	1,209	0.8	9,757	6.8	0.00	
6/12/2022	5,844	4.0	2,698	1.8	1,201	0.9	9,743	6.8	0.47	
6/13/2022	5,763	4.0	2,766	2.3	1,187	0.8	9,716	6.7	0.00	CW-22 SPBA Power Failure Alarm (4.9 hrs)
6/14/2022	5,743	3.8	2,808	1.9	1,176	0.7	9,727	6.8	0.37	CW-22 Cycling (2.8 hrs)
6/15/2022	5,713	4.0	2,773	2.0	1,177	0.8	9,663	6.7	0.00	
6/16/2022	5,734	3.9	2,732	2.0	1,164	0.9	9,630	6.7	0.01	
6/17/2022	5,761	4.1	2,769	3.3	1,162	0.8	9,692	6.7	0.00	SPBA Power Failure Alarm CW-22 (1.9 hrs), CW-23 (0.1 hrs)
6/18/2022	5,722	4.1	2,621	2.2	1,160	0.9	9,503	6.6	0.00	CW-22 Cycling (5.9 hrs)
6/19/2022	5,597	3.9	3,060	2.0	1,151	0.8	9,808	6.8	0.00	
6/20/2022	5,529	3.8	3,053	2.1	1,149	0.7	9,731	6.8	0.00	
6/21/2022	5,511	3.9	3,009	2.0	1,140	0.8	9,660	6.7	0.00	
6/22/2022	5,531	3.9	2,948	1.8	1,136	0.9	9,615	6.7	0.64	
6/23/2022	5,520	3.9	2,924	1.9	1,133	0.9	9,577	6.7	0.31	
6/24/2022	5,523	3.8	2,923	2.2	1,131	1.0	9,577	6.7	0.00	
6/25/2022	5,521	3.8	2,894	2.0	1,125	0.7	9,540	6.6	0.00	
6/26/2022	5,537	3.9	2,864	2.1	1,113	0.7	9,514	6.6	0.19	
6/27/2022	5,538	3.9	2,861	2.1	1,114	0.7	9,513	6.6	0.02	
6/28/2022	5,494	3.8	2,846	2.0	1,114	0.7	9,454	6.6	0.00	
6/29/2022	5,488	3.7	2,838	2.1	1,104	0.7	9,430	6.5	0.00	
6/30/2022	5,484	3.7	2,791	1.8	1,105	0.8	9,380	6.5	0.00	
7/1/2022	5,502	3.7	2,777	2.1	1,088	0.7	9,367	6.5	0.04	
7/2/2022	5,488	3.6	2,771	1.8	1,080	0.8	9,339	6.5	0.68	
7/3/2022	5,383	3.7	2,923	2.0	1,086	0.8	9,392	6.5	0.03	SPBA Power Failure Alarm (0.8 hrs)
7/4/2022	5,457	3.8	2,953	1.9	1,082	0.7	9,492	6.6	0.00	
7/5/2022	5,486	4.0	2,913	1.8	1,074	0.7	9,473	6.6	0.20	
7/6/2022	5,481	3.9	2,873	1.9	1,071	0.8	9,425	6.5	0.00	
7/7/2022	5,464	3.8	2,852	2.1	1,060	0.8	9,376	6.5	0.26	
7/8/2022	5,483	3.9	2,829	1.9	1,054	0.7	9,366	6.5	0.00	
7/9/2022	5,486	3.8	2,790	2.1	1,045	0.8	9,321	6.5	0.02	
7/10/2022	5,486	3.8	2,782	2.0	1,049	0.7	9,317	6.5	0.00	
7/11/2022	5,491	4.0	2,775	2.1	1,032	0.8	9,298	6.5	0.00	
7/12/2022	5,482	3.8	2,752	1.8	1,028	0.7	9,262	6.4	0.00	
7/13/2022	5,429	3.8	2,733	1.9	1,022	0.6	9,184	6.4	0.00	
7/14/2022	5,415	3.8	2,605	1.9	1,016	0.7	9,036	6.3	0.00	
7/15/2022	5,414	3.7	2,576	1.8	1,005	0.6	8,995	6.2	0.00	
7/16/2022	5,436	3.8	2,573	1.9	1,000	0.8	9,009	6.3	0.41	
7/17/2022	5,446	3.7	2,581	1.9	990	0.6	9,017	6.3	0.02	
7/18/2022	5,470	3.9	2,590	1.7	976	0.7	9,036	6.3	0.03	
7/19/2022	5,446	3.8	2,557	1.6	968	0.6	8,971	6.2	0.00	
7/20/2022	5,431	3.8	2,572	1.8	953	0.6	8,956	6.2	0.00	
7/21/2022	5,412	3.7	2,578	1.7	948	0.6	8,938	6.2	0.00	
7/22/2022	5,207	3.9	2,662	2.0	910	0.6	8,779	6.1	0.00	Shutdown for flow meter calibration (1.9 hrs)
7/23/2022	5,420	3.8	2,835	2.1	928	0.8	9,183	6.4	0.00	
7/24/2022	5,354	3.6	2,818	2.1	926	0.5	9,098	6.3	0.00	
7/25/2022	5,341	3.7	2,809	1.9	911	0.5	9,061	6.3	0.01	
7/26/2022	5,295	3.7	2,728	1.8	906	0.7	8,929	6.2	0.00	
7/27/2022	5,310	3.7	2,722	1.9	902	0.7	8,934	6.2	0.52	
7/28/2022	5,318	3.7	2,719	1.9	894	0.4	8,931	6.2	0.05	
7/29/2022	5,293	3.7	2,713	2.0	883	0.5	8,889	6.2	0.12	
7/30/2022	5,274	3.7	2,709	2.1	877	0.5	8,860	6.2	0.00	
7/31/2022	5,283	3.8	2,695	1.9	865	0.5	8,843	6.1	0.66	
8/1/2022	5,352	3.7	2,739	2.0	868	0.5	8,959	6.2	0.09	
8/2/2022	5,396	3.7	2,768	1.8	864	0.6	9,028	6.3	0.44	
8/3/2022	5,378	3.7	2,747	1.7	857	0.6	8,982	6.2	0.00	
8/4/2022	5,370	3.9	2,732	1.9	862	0.4	8,964	6.2	0.03	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
8/5/2022	5,347	3.8	2,722	2.0	853	0.4	8,922	6.2	0.32	
8/6/2022	5,348	3.7	2,712	1.9	855	0.5	8,915	6.2	0.00	
8/7/2022	5,360	3.8	2,720	1.8	860	0.5	8,940	6.2	0.00	
8/8/2022	5,373	3.9	2,711	1.9	853	0.7	8,937	6.2	0.00	
8/9/2022	5,351	3.8	2,693	2.0	847	0.5	8,891	6.2	0.16	
8/10/2022	5,325	3.8	2,685	2.0	839	0.5	8,849	6.1	0.00	
8/11/2022	5,333	3.6	2,686	2.1	832	0.5	8,851	6.1	0.01	
8/12/2022	5,300	3.5	2,680	1.9	825	0.6	8,805	6.1	0.00	
8/13/2022	5,284	3.8	2,665	1.8	824	0.6	8,773	6.1	0.00	
8/14/2022	5,294	3.7	2,661	1.7	812	0.4	8,767	6.1	0.00	
8/15/2022	5,279	3.7	2,655	1.6	804	0.4	8,738	6.1	0.12	
8/16/2022	5,267	3.7	2,645	1.8	795	0.3	8,707	6.0	0.00	
8/17/2022	5,255	3.6	2,628	1.9	782	0.3	8,665	6.0	0.12	
8/18/2022	5,255	3.5	2,604	1.7	780	0.6	8,639	6.0	0.00	
8/19/2022	5,103	3.5	2,716	2.0	767	0.5	8,586	6.0	0.00	PTA Blower Tripped (0.8 hrs)
8/20/2022	5,163	3.5	2,721	2.0	782	0.5	8,666	6.0	0.00	
8/21/2022	5,169	3.6	2,709	1.9	786	0.4	8,664	6.0	0.00	
8/22/2022	5,182	3.6	2,708	1.8	770	0.4	8,660	6.0	0.02	
8/23/2022	5,151	3.5	2,703	1.7	737	0.5	8,591	6.0	0.00	
8/24/2022	5,116	3.5	2,682	2.0	716	0.5	8,514	5.9	0.00	
8/25/2022	5,109	3.5	2,675	1.8	759	0.7	8,543	5.9	0.00	
8/26/2022	5,119	3.6	2,665	1.8	765	0.4	8,549	5.9	0.00	
8/27/2022	5,094	3.4	2,645	1.8	755	0.7	8,494	5.9	0.00	
8/28/2022	5,074	3.5	2,636	1.8	725	0.4	8,435	5.9	0.00	
8/29/2022	5,080	3.6	2,623	1.8	705	0.4	8,408	5.8	0.00	
8/30/2022	5,111	3.5	2,622	1.8	683	0.5	8,416	5.8	0.16	
8/31/2022	5,078	3.5	2,607	1.8	668	0.5	8,353	5.8	0.00	
9/1/2022	5,049	3.5	2,592	1.7	664	0.3	8,305	5.8	0.00	
9/2/2022	5,022	3.6	2,571	1.8	662	0.5	8,255	5.7	0.00	
9/3/2022	5,036	3.3	2,573	1.8	659	0.5	8,268	5.7	0.00	
9/4/2022	5,050	3.5	2,560	1.7	639	0.4	8,249	5.7	0.00	
9/5/2022	5,044	3.6	2,552	1.8	623	0.3	8,219	5.7	0.28	
9/6/2022	5,063	3.6	2,574	1.8	680	0.7	8,317	5.8	0.92	
9/7/2022	5,090	3.7	2,595	2.0	660	0.4	8,345	5.8	0.24	
9/8/2022	5,136	3.6	2,565	1.9	609	0.4	8,310	5.8	0.00	
9/9/2022	5,119	3.6	2,559	1.9	597	0.5	8,275	5.7	0.00	
9/10/2022	5,111	3.5	2,555	1.8	594	0.3	8,260	5.7	0.00	
9/11/2022	5,174	3.6	2,565	1.8	584	0.2	8,323	5.8	0.57	
9/12/2022	5,229	3.7	2,598	2.0	598	0.5	8,425	5.9	0.60	
9/13/2022	5,246	3.7	2,624	1.8	590	0.3	8,460	5.9	0.00	
9/14/2022	5,168	3.7	2,646	2.0	553	0.6	8,367	5.8	0.00	SPBA Power Failure Alarm CW-21 and 22 (0.1 hrs) CW-22 Cycling (4.5 hrs)
9/15/2022	5,153	3.7	2,739	2.0	597	0.4	8,489	5.9	0.00	
9/16/2022	5,149	3.5	2,722	1.8	598	0.4	8,469	5.9	0.00	
9/17/2022	5,148	3.6	2,696	1.9	597	0.3	8,441	5.9	0.00	
9/18/2022	5,166	3.6	2,675	1.9	577	0.5	8,418	5.8	0.00	
9/19/2022	5,160	3.6	2,620	1.7	579	0.4	8,359	5.8	0.00	
9/20/2022	5,117	3.4	2,601	1.8	585	0.3	8,303	5.8	0.00	
9/21/2022	5,104	3.5	2,597	1.8	586	0.5	8,287	5.8	0.00	
9/22/2022	5,106	3.3	2,593	1.7	576	0.4	8,275	5.7	0.03	
9/23/2022	5,020	3.6	2,564	1.9	534	0.5	8,118	5.6	0.00	
9/24/2022	5,037	3.4	2,545	1.8	529	0.2	8,111	5.6	0.00	
9/25/2022	5,084	3.4	2,558	1.9	531	0.4	8,173	5.7	0.23	
9/26/2022	5,041	3.5	2,567	1.9	514	0.4	8,122	5.6	0.20	
9/27/2022	5,003	3.5	2,552	1.9	515	0.3	8,070	5.6	0.00	
9/28/2022	4,966	3.4	2,534	1.7	489	0.5	7,989	5.5	0.00	
9/29/2022	4,962	3.3	2,518	1.9	490	0.4	7,970	5.5	0.00	
9/30/2022	5,012	3.4	2,519	1.9	479	0.5	8,010	5.6	0.00	
10/1/2022	5,052	3.6	2,521	1.7	487	0.5	8,060	5.6	0.35	
10/2/2022	5,037	3.6	2,550	1.9	481	0.5	8,068	5.6	0.87	
10/3/2022	5,088	3.6	2,597	1.7	463	0.5	8,148	5.7	0.02	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
10/4/2022	5,195	3.6	2,645	1.7	451	0.4	8,291	5.8	1.18	
10/5/2022	5,278	3.7	2,720	1.8	478	0.3	8,476	5.9	0.08	
10/6/2022	5,322	3.7	2,732	2.0	520	0.4	8,574	6.0	0.00	
10/7/2022	5,341	3.7	2,710	1.8	557	0.5	8,608	6.0	0.00	
10/8/2022	5,311	3.6	2,689	1.8	547	0.4	8,547	5.9	0.00	
10/9/2022	5,319	3.7	2,680	1.8	548	0.4	8,547	5.9	0.00	
10/10/2022	5,291	3.6	2,648	1.9	584	0.4	8,523	5.9	0.00	
10/11/2022	5,267	3.7	2,627	1.8	582	0.3	8,476	5.9	0.00	
10/12/2022	5,289	3.8	2,610	1.9	599	0.6	8,498	5.9	0.00	
10/13/2022	5,323	3.7	2,595	1.7	627	0.4	8,545	5.9	0.28	
10/14/2022	5,269	3.6	2,603	1.8	591	0.4	8,463	5.9	0.25	
10/15/2022	5,273	3.7	2,606	1.8	607	0.5	8,486	5.9	0.00	
10/16/2022	5,262	3.6	2,592	1.9	619	0.4	8,473	5.9	0.00	
10/17/2022	5,300	3.7	2,582	1.7	611	0.5	8,493	5.9	0.00	
10/18/2022	5,218	3.7	2,547	1.7	596	0.4	8,361	5.8	0.00	
10/19/2022	5,167	3.6	2,520	1.6	581	0.4	8,268	5.7	0.00	
10/20/2022	5,145	3.6	2,501	1.8	583	0.2	8,229	5.7	0.00	
10/21/2022	5,108	3.5	2,485	1.6	579	0.4	8,172	5.7	0.00	
10/22/2022	5,102	3.7	2,468	1.8	597	0.4	8,167	5.7	0.00	
10/23/2022	5,109	3.5	2,453	1.8	592	0.6	8,154	5.7	0.03	
10/24/2022	5,143	3.7	2,474	1.6	583	0.4	8,200	5.7	0.92	
10/25/2022	5,184	3.6	2,504	1.9	587	0.6	8,275	5.7	0.00	
10/26/2022	5,211	3.6	2,507	1.6	568	0.3	8,286	5.8	0.00	
10/27/2022	5,113	3.5	2,474	1.6	574	0.5	8,161	5.7	0.00	
10/28/2022	5,087	3.5	2,703	1.8	571	0.5	8,361	5.8	0.00	Annual Maintenance CW-22 (1.1 hrs) CW-23 (1.4 hrs)
10/29/2022	2,389	5.1	1,210	2.4	316	0.4	3,915	2.7	0.00	Shutdown for sitewide power outage (15.2 hrs)
10/30/2022	6,189	4.1	2,954	2.0	636	0.5	9,779	6.8	0.00	
10/31/2022	5,478	3.7	2,761	1.7	587	0.3	8,826	6.1	0.00	
11/1/2022	5,247	3.6	2,723	1.8	602	0.4	8,572	6.0	0.29	
11/2/2022	5,123	3.6	2,691	2.0	596	0.4	8,410	5.8	0.00	
11/3/2022	4,433	0.0	2,342	0.0	527	0.0	7,302	5.1	0.00	PTA Blower Fault (3.1 hrs)
11/4/2022	4,984	3.8	2,459	1.9	572	0.4	8,015	5.6	0.00	PTA Blower Fault (3.6 hrs)
11/5/2022	5,260	3.6	2,662	2.1	554	0.3	8,476	5.9	0.00	
11/6/2022	5,153	3.5	2,629	2.0	559	0.4	8,341	5.8	0.07	
11/7/2022	5,046	3.4	2,596	2.0	563	0.4	8,205	5.7	0.00	
11/8/2022	4,891	5.7	2,608	3.6	524	0.2	8,023	5.6	0.00	ed GWTS effluent pump, shutdown and restarted due to high cycles. CW-21 (2.9 hrs) CW-22 (4.4 hrs) CW-23 (0.1 hrs)
11/9/2022	4,693	3.8	2,498	1.8	521	0.3	7,712	5.4	0.00	Shutdown due to high cycles. CW-21 (3.3 hrs) CW-22 (3.6 hrs)
11/10/2022	5,064	3.6	2,600	1.7	530	0.3	8,194	5.7	0.00	
11/11/2022	5,074	3.5	2,605	1.8	564	0.3	8,243	5.7	0.54	
11/12/2022	5,023	3.5	2,634	1.9	554	0.3	8,211	5.7	0.13	
11/13/2022	4,951	3.3	2,635	1.8	520	0.3	8,106	5.6	0.00	
11/14/2022	4,935	3.2	2,525	1.7	523	0.4	7,983	5.5	0.00	
11/15/2022	4,997	3.5	2,481	1.8	483	0.4	7,961	5.5	0.34	
11/16/2022	5,084	3.7	2,517	1.7	412	0.3	8,013	5.6	0.49	
11/17/2022	5,080	3.4	2,520	1.8	499	0.5	8,099	5.6	0.00	
11/18/2022	5,081	3.6	2,500	1.6	513	0.3	8,094	5.6	0.00	
11/19/2022	5,091	3.7	2,503	1.7	540	0.5	8,134	5.6	0.00	
11/20/2022	5,059	3.4	2,494	1.7	497	0.4	8,050	5.6	0.00	
11/21/2022	5,050	3.5	2,483	1.9	477	0.4	8,010	5.6	0.00	
11/22/2022	5,053	3.5	2,478	1.6	500	0.2	8,031	5.6	0.00	
11/23/2022	5,050	3.5	2,479	1.9	539	0.5	8,068	5.6	0.00	
11/24/2022	5,035	3.5	2,473	1.7	547	0.3	8,055	5.6	0.00	
11/25/2022	5,075	3.5	2,479	1.8	531	0.3	8,085	5.6	0.01	
11/26/2022	5,012	3.6	2,459	1.7	525	0.3	7,996	5.6	0.00	
11/27/2022	5,085	3.6	2,460	1.7	526	0.2	8,071	5.6	0.22	
11/28/2022	4,989	3.4	2,453	1.6	494	0.3	7,936	5.5	0.00	
11/29/2022	4,932	3.5	2,445	1.7	469	0.4	7,846	5.4	0.00	
11/30/2022	5,016	3.4	2,473	1.8	464	0.4	7,953	5.5	0.26	
12/1/2022	4,920	3.5	2,450	1.6	451	0.4	7,821	5.4	0.00	
12/2/2022	4,963	3.5	2,453	1.6	454	0.5	7,870	5.5	0.00	

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	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
12/3/2022	5,041	3.5	2,462	1.6	492	0.3	7,995	5.6	0.32	
12/4/2022	5,009	3.4	2,468	1.6	495	0.4	7,972	5.5	0.00	
12/5/2022	5,009	3.7	2,455	1.8	412	0.3	7,876	5.5	0.00	
12/6/2022	4,888	3.5	2,496	1.8	421	0.4	7,805	5.4	0.21	SPBA power failure alarm. CW-21 (0.9 hrs) CW-22 (4.9 hrs) CW-23 (1 hr)
12/7/2022	5,000	3.4	2,652	1.8	456	0.5	8,108	5.6	0.00	
12/8/2022	4,945	3.4	2,610	1.9	476	0.4	8,031	5.6	0.00	
12/9/2022	2,575	0.0	1,349	0.0	236	0.0	4,160	2.9	0.00	SPBA wells shutdown due to broken conveyance lines. (11.4 hrs)
12/10/2022	0	0.0	0	0.0	0	0.0	0	0.0	0.00	SPBA wells shutdown due to broken conveyance lines. (24 hrs)
12/11/2022	0	0.0	0	0.0	0	0.0	0	0.0	0.06	SPBA wells shutdown due to broken conveyance lines. (24 hrs)
12/12/2022	0	0.0	0	0.0	0	0.0	0	0.0	0.00	SPBA wells shutdown due to broken conveyance lines. (24 hrs)
12/13/2022	0	0.0	0	0.0	0	0.0	0	0.0	0.00	SPBA wells shutdown due to broken conveyance lines. (24 hrs)
12/14/2022	0	0.0	0	0.0	0	0.0	0	0.0	0.00	SPBA wells shutdown due to broken conveyance lines. (24 hrs)
12/15/2022	0	0.0	0	0.0	0	0.0	0	0.0	1.34	SPBA wells shutdown due to broken conveyance lines. (24 hrs)
12/16/2022	4,243	5.7	1,832	2.1	659	0.5	6,734	4.7	0.39	SPBA wells restarted. (12.1 hrs)
12/17/2022	7,517	4.6	2,853	1.9	701	0.4	11,071	7.7	0.00	
12/18/2022	6,352	4.3	2,713	2.0	673	0.4	9,738	6.8	0.00	
12/19/2022	5,959	4.1	2,645	1.9	680	0.4	9,284	6.4	0.00	
12/20/2022	5,809	3.9	2,610	1.8	710	0.5	9,129	6.3	0.00	
12/21/2022	5,731	3.9	2,584	1.6	722	0.5	9,037	6.3	0.00	
12/22/2022	5,742	4.1	2,622	1.9	735	0.6	9,099	6.3	0.33	
12/23/2022	5,786	4.1	2,567	1.9	827	0.6	9,180	6.4	0.70	
12/24/2022	5,785	4.1	2,566	1.9	826	0.6	9,177	6.4	0.00	
12/25/2022	5,786	4.1	2,567	1.9	827	0.6	9,180	6.4	0.00	
12/26/2022	5,787	4.1	2,566	1.9	826	0.6	9,179	6.4	0.00	
12/27/2022	5,738	4.0	2,493	1.6	893	0.8	9,124	6.3	0.00	
12/28/2022	5,723	4.0	2,514	1.7	885	0.6	9,122	6.3	0.00	
12/29/2022	5,692	4.0	2,530	1.6	893	0.6	9,115	6.3	0.00	
12/30/2022	5,678	4.0	2,546	1.7	892	0.6	9,116	6.3	0.00	
12/31/2022	5,688	3.9	2,594	1.7	898	0.6	9,180	6.4	0.08	
1/1/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.00	
1/2/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.02	
1/3/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.22	
1/4/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.00	
1/5/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.01	
1/6/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.01	
1/7/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.00	
1/8/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.00	
1/9/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.01	
1/10/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.00	
1/11/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.00	
1/12/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.09	
1/13/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.16	
1/14/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.00	
1/15/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.00	
1/16/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.00	
1/17/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.04	
1/18/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.00	
1/19/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.55	
1/20/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.00	
1/21/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.00	
1/22/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.42	
1/23/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.31	
1/24/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.00	
1/25/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.44	
1/26/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.00	
1/27/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.00	
1/28/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.00	
1/29/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.00	
1/30/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.00	
1/31/2023	5,563	3.9	2,552	1.8	676	0.5	8,791	6.1	0.02	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
2/1/2023	5,536	3.8	2,584	1.8	965	0.7	9,085	6.3	0.00	
2/2/2023	5,574	3.9	2,610	1.8	966	0.7	9,150	6.4	0.00	
2/3/2023	5,445	3.8	2,611	1.8	960	0.7	9,016	6.3	0.00	
2/4/2023	5,459	3.8	2,596	1.8	955	0.7	9,010	6.3	0.00	
2/5/2023	5,521	3.8	2,616	1.8	963	0.7	9,100	6.3	0.00	
2/6/2023	5,431	3.8	2,570	1.8	943	0.7	8,944	6.2	0.00	
2/7/2023	5,436	3.8	2,582	1.8	926	0.6	8,944	6.2	0.00	
2/8/2023	5,401	3.8	2,578	1.8	913	0.6	8,892	6.2	0.00	
2/9/2023	5,465	3.8	2,609	1.8	909	0.6	8,983	6.2	0.00	
2/10/2023	5,368	3.7	2,592	1.8	910	0.6	8,870	6.2	0.00	
2/11/2023	5,324	3.7	2,641	1.8	890	0.6	8,855	6.1	0.00	
2/12/2023	5,422	3.8	2,698	1.9	909	0.6	9,029	6.3	0.13	
2/13/2023	5,375	3.7	2,683	1.9	894	0.6	8,952	6.2	0.00	
2/14/2023	5,299	3.7	2,647	1.8	878	0.6	8,824	6.1	0.00	
2/15/2023	5,369	3.7	2,648	1.8	875	0.6	8,892	6.2	0.00	
2/16/2023	5,388	3.7	2,633	1.8	873	0.6	8,894	6.2	0.27	
2/17/2023	5,373	3.7	2,636	1.8	873	0.6	8,882	6.2	0.18	
2/18/2023	5,408	3.8	2,688	1.9	868	0.6	8,964	6.2	0.00	Building 41A Electrical Meter Replacement (1.1 hrs)
2/19/2023	5,238	3.6	2,581	1.8	830	0.6	8,649	6.0	0.00	
2/20/2023	5,432	3.8	2,691	1.9	872	0.6	8,995	6.2	0.00	
2/21/2023	5,395	3.7	2,743	1.9	864	0.6	9,002	6.3	0.18	
2/22/2023	3,888	2.7	1,994	1.4	604	0.4	6,486	4.5	0.04	
2/23/2023	3,963	2.8	1,740	1.2	671	0.5	6,374	4.4	0.00	PTA Blower Fault (12 hrs)
2/24/2023	6,380	4.4	3,148	2.2	995	0.7	10,523	7.3	0.00	SPBA power failure alarm. CW-21 (0.2 hrs) CW-22 (8.6 hrs) CW-23 (0.2 hrs)
2/25/2023	5,343	3.7	2,792	1.9	836	0.6	8,971	6.2	0.00	
2/26/2023	4,647	3.2	2,428	1.7	731	0.5	7,806	5.4	0.00	
2/27/2023	5,276	3.7	2,769	1.9	824	0.6	8,869	6.2	0.43	
2/28/2023	5,191	3.6	2,689	1.9	820	0.6	8,700	6.0	0.06	
3/1/2023	5,259	3.7	2,709	1.9	833	0.6	8,801	6.1	0.00	
3/2/2023	5,259	3.7	2,710	1.9	833	0.6	8,802	6.1	0.01	
3/3/2023	5,327	3.7	2,730	1.9	846	0.6	8,903	6.2	1.21	
3/4/2023	5,327	3.7	2,731	1.9	847	0.6	8,905	6.2	0.00	
3/5/2023	5,328	3.7	2,730	1.9	846	0.6	8,904	6.2	0.00	
3/6/2023	5,328	3.7	2,731	1.9	847	0.6	8,906	6.2	0.00	
3/7/2023	5,438	3.8	2,733	1.9	934	0.6	9,105	6.3	0.00	
3/8/2023	5,384	3.7	2,700	1.9	954	0.7	9,038	6.3	0.00	
3/9/2023	5,421	3.8	2,694	1.9	974	0.7	9,089	6.3	0.00	
3/10/2023	5,480	3.8	2,707	1.9	979	0.7	9,166	6.4	0.21	
3/11/2023	5,427	3.8	2,690	1.9	978	0.7	9,095	6.3	0.00	
3/12/2023	5,174	3.6	2,571	1.8	932	0.6	8,677	6.0	0.00	
3/13/2023	5,423	3.8	2,704	1.9	973	0.7	9,100	6.3	0.01	
3/14/2023	5,398	3.7	2,715	1.9	968	0.7	9,081	6.3	0.00	
3/15/2023	5,332	3.7	2,671	1.9	950	0.7	8,953	6.2	0.00	
3/16/2023	5,341	3.7	2,671	1.9	948	0.7	8,960	6.2	0.00	
3/17/2023	5,402	3.8	2,664	1.9	936	0.7	9,002	6.3	0.05	
3/18/2023	5,121	3.6	2,707	1.9	917	0.6	8,745	6.1	0.00	
3/19/2023	5,202	3.6	2,786	1.9	915	0.6	8,903	6.2	0.00	
3/20/2023	5,180	3.6	2,766	1.9	904	0.6	8,850	6.1	0.00	
3/21/2023	5,173	3.6	2,740	1.9	894	0.6	8,807	6.1	0.00	
3/22/2023	5,209	3.6	2,699	1.9	891	0.6	8,799	6.1	0.00	
3/23/2023	5,262	3.7	2,696	1.9	890	0.6	8,848	6.1	0.37	
3/24/2023	5,283	3.7	2,057	1.4	872	0.6	8,212	5.7	0.35	
3/25/2023	5,398	3.7	3,057	2.1	878	0.6	9,333	6.5	0.26	
3/26/2023	5,268	3.7	2,941	2.0	864	0.6	9,073	6.3	0.00	
3/27/2023	5,259	3.7	2,911	2.0	860	0.6	9,030	6.3	0.12	
3/28/2023	5,209	3.6	2,927	2.0	862	0.6	8,998	6.2	0.00	
3/29/2023	5,218	3.6	2,892	2.0	882	0.6	8,992	6.2	0.00	
3/30/2023	5,180	3.6	2,851	2.0	872	0.6	8,903	6.2	0.00	
3/31/2023	5,243	3.6	2,851	2.0	881	0.6	8,975	6.2	0.00	
4/1/2023	5,331	3.7	2,855	2.0	884	0.6	9,070	6.3	0.11	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
4/2/2023	5,166	3.6	2,820	2.0	880	0.6	8,866	6.2	0.00	
4/3/2023	5,173	3.6	2,821	2.0	887	0.6	8,881	6.2	0.00	
4/4/2023	5,177	3.6	2,813	2.0	887	0.6	8,877	6.2	0.00	
4/5/2023	5,164	3.6	2,800	1.9	878	0.6	8,842	6.1	0.00	
4/6/2023	4,858	3.4	2,721	1.9	833	0.6	8,412	5.8	0.05	
4/7/2023	5,176	3.6	2,873	2.0	857	0.6	8,906	6.2	0.00	
4/8/2023	5,112	3.6	2,830	2.0	838	0.6	8,780	6.1	0.00	
4/9/2023	5,104	3.5	2,816	2.0	821	0.6	8,741	6.1	0.00	
4/10/2023	5,106	3.5	2,789	1.9	829	0.6	8,724	6.1	0.00	
4/11/2023	5,140	3.6	2,800	1.9	827	0.6	8,767	6.1	0.00	
4/12/2023	5,137	3.6	2,789	1.9	823	0.6	8,749	6.1	0.00	
4/13/2023	5,100	3.5	2,758	1.9	821	0.6	8,679	6.0	0.00	
4/14/2023	4,990	3.5	2,689	1.9	807	0.6	8,486	5.9	0.00	SPBA Communications Failure (0.8 hrs)
4/15/2023	5,096	3.5	2,666	1.9	809	0.6	8,571	6.0	0.21	
4/16/2023	5,112	3.6	2,649	1.8	798	0.6	8,559	5.9	0.05	
4/17/2023	5,121	3.6	2,595	1.8	794	0.6	8,510	5.9	0.02	
4/18/2023	5,084	3.5	2,604	1.8	784	0.5	8,472	5.9	0.00	
4/19/2023	5,038	3.5	2,606	1.8	780	0.5	8,424	5.9	0.00	
4/20/2023	5,057	3.5	2,589	1.8	778	0.5	8,424	5.9	0.00	
4/21/2023	5,094	3.5	2,582	1.8	797	0.6	8,473	5.9	0.00	
4/22/2023	4,948	3.4	2,533	1.8	762	0.5	8,243	5.7	2.23	SPBA Power Failure Alarm. CW-21 (1.9 hrs) CW-22 (2 hrs) CW-23 (2 hrs)
4/23/2023	5,228	3.6	2,616	1.8	763	0.5	8,607	6.0	0.00	
4/24/2023	5,154	3.6	2,579	1.8	750	0.5	8,483	5.9	0.00	
4/25/2023	5,145	3.6	2,566	1.8	751	0.5	8,462	5.9	0.00	
4/26/2023	5,152	3.6	2,560	1.8	749	0.5	8,461	5.9	0.27	
4/27/2023	5,164	3.6	2,570	1.8	742	0.5	8,476	5.9	0.69	
4/28/2023	5,219	3.6	2,510	1.7	727	0.5	8,456	5.9	0.00	
4/29/2023	5,276	3.7	2,721	1.9	739	0.5	8,736	6.1	0.00	SPBA Power Failure Alarm. CW-21 (0.1 hrs) CW-22 (1 hr) CW-23 (0.1 hrs)
4/30/2023	5,396	3.7	2,853	2.0	764	0.5	9,013	6.3	0.00	
5/1/2023	5,432	3.8	2,902	2.0	778	0.5	9,112	6.3	0.00	
5/2/2023	5,447	3.8	2,883	2.0	823	0.6	9,153	6.4	0.00	
5/3/2023	5,459	3.8	2,829	2.0	875	0.6	9,163	6.4	0.00	
5/4/2023	5,420	3.8	2,767	1.9	905	0.6	9,092	6.3	0.00	
5/5/2023	5,430	3.8	2,732	1.9	938	0.7	9,100	6.3	0.00	
5/6/2023	5,470	3.8	2,722	1.9	958	0.7	9,150	6.4	0.00	
5/7/2023	5,530	3.8	2,733	1.9	971	0.7	9,234	6.4	0.00	
5/8/2023	5,514	3.8	2,726	1.9	981	0.7	9,221	6.4	0.00	
5/9/2023	5,446	3.8	2,671	1.9	972	0.7	9,089	6.3	0.00	
5/10/2023	5,446	3.8	2,672	1.9	973	0.7	9,091	6.3	0.00	
5/11/2023	5,441	3.8	2,657	1.8	965	0.7	9,063	6.3	0.00	
5/12/2023	5,444	3.8	2,652	1.8	955	0.7	9,051	6.3	0.00	
5/13/2023	5,418	3.8	2,645	1.8	950	0.7	9,013	6.3	0.00	
5/14/2023	5,391	3.7	2,622	1.8	937	0.7	8,950	6.2	0.00	
5/15/2023	5,321	3.7	2,694	1.9	919	0.6	8,934	6.2	0.00	
5/16/2023	5,438	3.8	2,716	1.9	919	0.6	9,073	6.3	0.00	
5/17/2023	5,313	3.7	2,686	1.9	906	0.6	8,905	6.2	0.00	SPBA Power Failure Alarm. CW-21 (0.3 hrs) CW-22 (4.5 hrs) CW-23 (0.3 hrs)
5/18/2023	5,295	3.7	2,606	1.8	904	0.6	8,805	6.1	0.00	SPBA Shutdown Due to Cycling. CW-22 (7.6 hrs)
5/19/2023	5,263	3.7	3,071	2.1	902	0.6	9,236	6.4	0.00	
5/20/2023	5,232	3.6	2,974	2.1	896	0.6	9,102	6.3	0.00	
5/21/2023	5,172	3.6	2,985	2.1	880	0.6	9,037	6.3	0.00	
5/22/2023	5,121	3.6	2,964	2.1	867	0.6	8,952	6.2	0.00	
5/23/2023	5,105	3.5	2,945	2.0	857	0.6	8,907	6.2	0.00	
5/24/2023	5,151	3.6	2,930	2.0	843	0.6	8,924	6.2	0.00	
5/25/2023	5,086	3.5	2,859	2.0	833	0.6	8,778	6.1	0.00	SPBA Power Failure Alarm. CW-22 (1.3 hrs)
5/26/2023	5,075	3.5	2,888	2.0	833	0.6	8,796	6.1	0.00	
5/27/2023	5,075	3.5	2,873	2.0	819	0.6	8,767	6.1	0.00	
5/28/2023	5,106	3.5	2,879	2.0	816	0.6	8,801	6.1	0.00	
5/29/2023	5,093	3.5	2,833	2.0	814	0.6	8,740	6.1	0.00	
5/30/2023	5,050	3.5	2,833	2.0	808	0.6	8,691	6.0	0.00	
5/31/2023	5,062	3.5	2,826	2.0	805	0.6	8,693	6.0	0.00	

Appendix D
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Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
6/1/2023	5,072	3.5	2,802	1.9	794	0.6	8,668	6.0	0.00	
6/2/2023	5,084	3.5	2,793	1.9	774	0.5	8,651	6.0	0.00	
6/3/2023	4,926	3.4	2,770	1.9	772	0.5	8,468	5.9	0.02	
6/4/2023	5,079	3.5	2,831	2.0	779	0.5	8,689	6.0	0.00	
6/5/2023	5,040	3.5	2,792	1.9	766	0.5	8,598	6.0	0.00	
6/6/2023	5,054	3.5	2,767	1.9	768	0.5	8,589	6.0	0.01	
6/7/2023	5,033	3.5	2,772	1.9	760	0.5	8,565	5.9	0.00	
6/8/2023	4,921	3.4	2,761	1.9	742	0.5	8,424	5.9	0.00	Groundwater Treatment System E-Stop Alarm (0.9 hrs)
6/9/2023	5,028	3.5	2,761	1.9	751	0.5	8,540	5.9	0.02	
6/10/2023	4,920	3.4	2,700	1.9	739	0.5	8,359	5.8	0.00	SPBA Power Failure Alarm (0.9 hrs)
6/11/2023	5,037	3.5	2,687	1.9	754	0.5	8,478	5.9	0.00	
6/12/2023	5,046	3.5	2,675	1.9	753	0.5	8,474	5.9	0.13	
6/13/2023	5,015	3.5	2,662	1.8	712	0.5	8,389	5.8	0.00	
6/14/2023	5,040	3.5	2,649	1.8	682	0.5	8,371	5.8	0.12	
6/15/2023	4,996	3.5	2,647	1.8	656	0.5	8,299	5.8	0.00	
6/16/2023	5,008	3.5	2,649	1.8	645	0.4	8,302	5.8	0.39	
6/17/2023	4,996	3.5	2,657	1.8	659	0.5	8,312	5.8	0.00	
6/18/2023	4,990	3.5	2,640	1.8	676	0.5	8,306	5.8	0.00	
6/19/2023	4,947	3.4	2,702	1.9	680	0.5	8,329	5.8	0.00	SPBA Power Failure Alarm. CW-21 (0.1 hrs) CW-22 (1.7 hrs) CW-23 (0.1 hrs)
6/20/2023	4,921	3.4	2,711	1.9	666	0.5	8,298	5.8	0.00	
6/21/2023	3,166	2.2	1,537	1.1	440	0.3	5,143	3.6	0.27	H-D Statewide Power Outage (12.1 hrs)
6/22/2023	5,671	3.9	2,860	2.0	684	0.5	9,215	6.4	0.19	
6/23/2023	5,291	3.7	2,817	2.0	662	0.5	8,770	6.1	0.74	
6/24/2023	5,178	3.6	2,833	2.0	643	0.4	8,654	6.0	0.08	
6/25/2023	5,122	3.6	2,848	2.0	628	0.4	8,598	6.0	0.00	
6/26/2023	5,116	3.6	2,773	1.9	593	0.4	8,482	5.9	0.03	
6/27/2023	5,075	3.5	2,778	1.9	576	0.4	8,429	5.9	0.16	
6/28/2023	5,029	3.5	2,762	1.9	583	0.4	8,374	5.8	0.00	
6/29/2023	5,021	3.5	2,754	1.9	584	0.4	8,359	5.8	0.00	
6/30/2023	5,025	3.5	2,734	1.9	622	0.4	8,381	5.8	0.01	
7/1/2023	5,036	3.5	2,716	1.9	614	0.4	8,366	5.8	0.11	
7/2/2023	5,052	3.5	2,709	1.9	597	0.4	8,358	5.8	0.00	
7/3/2023	5,033	3.5	2,700	1.9	596	0.4	8,329	5.8	0.92	
7/4/2023	5,048	3.5	2,705	1.9	563	0.4	8,316	5.8	0.00	
7/5/2023	5,071	3.5	2,721	1.9	532	0.4	8,324	5.8	0.00	
7/6/2023	5,104	3.5	2,713	1.9	519	0.4	8,336	5.8	0.00	
7/7/2023	4,877	3.4	2,681	1.9	568	0.4	8,126	5.6	0.03	Radio Communications Fault (1.5 hrs)
7/8/2023	5,048	3.5	2,697	1.9	594	0.4	8,339	5.8	0.00	
7/9/2023	5,029	3.5	2,698	1.9	581	0.4	8,308	5.8	0.60	
7/10/2023	5,073	3.5	2,802	1.9	542	0.4	8,417	5.8	0.00	
7/11/2023	5,111	3.5	2,813	2.0	527	0.4	8,451	5.9	0.00	
7/12/2023	5,141	3.6	2,772	1.9	574	0.4	8,487	5.9	0.00	
7/13/2023	5,168	3.6	2,736	1.9	607	0.4	8,511	5.9	0.00	
7/14/2023	5,149	3.6	2,700	1.9	592	0.4	8,441	5.9	0.00	
7/15/2023	5,155	3.6	2,704	1.9	564	0.4	8,423	5.8	0.00	
7/16/2023	5,170	3.6	2,705	1.9	543	0.4	8,418	5.8	0.00	
7/17/2023	5,133	3.6	2,676	1.9	506	0.4	8,315	5.8	0.00	
7/18/2023	5,142	3.6	2,683	1.9	515	0.4	8,340	5.8	0.00	
7/19/2023	5,130	3.6	2,688	1.9	513	0.4	8,331	5.8	0.17	
7/20/2023	5,177	3.6	2,706	1.9	531	0.4	8,414	5.8	0.00	
7/21/2023	5,255	3.6	2,686	1.9	578	0.4	8,519	5.9	0.52	
7/22/2023	5,267	3.7	2,679	1.9	601	0.4	8,547	5.9	0.00	
7/23/2023	5,258	3.7	2,669	1.9	576	0.4	8,503	5.9	0.00	
7/24/2023	5,253	3.6	2,645	1.8	541	0.4	8,439	5.9	0.36	
7/25/2023	5,247	3.6	2,643	1.8	544	0.4	8,434	5.9	0.00	
7/26/2023	5,245	3.6	2,722	1.9	569	0.4	8,536	5.9	0.00	Annual Maintenance. CW-22 (0.7 hrs) CW-23 (0.6 hrs)
7/27/2023	5,239	3.6	2,769	1.9	574	0.4	8,582	6.0	0.23	
7/28/2023	5,202	3.6	2,737	1.9	545	0.4	8,484	5.9	0.82	
7/29/2023	5,275	3.7	2,778	1.9	564	0.4	8,617	6.0	0.00	
7/30/2023	5,275	3.7	2,765	1.9	534	0.4	8,574	6.0	0.00	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
7/31/2023	5,286	3.7	2,759	1.9	535	0.4	8,580	6.0	0.00	
8/1/2023	5,254	3.6	2,733	1.9	528	0.4	8,515	5.9	0.00	
8/2/2023	5,087	3.5	2,799	1.9	544	0.4	8,430	5.9	0.00	Two SPBA Power Failure Alarms (1.6 hrs)
8/3/2023	5,307	3.7	2,836	2.0	592	0.4	8,735	6.1	0.00	
8/4/2023	5,264	3.7	2,798	1.9	534	0.4	8,596	6.0	0.01	
8/5/2023	5,145	3.6	2,761	1.9	528	0.4	8,434	5.9	0.00	SPBA Power Failure Alarm (1.1 hrs)
8/6/2023	5,320	3.7	2,786	1.9	538	0.4	8,644	6.0	0.32	
8/7/2023	5,310	3.7	2,768	1.9	583	0.4	8,661	6.0	0.20	
8/8/2023	5,316	3.7	2,793	1.9	585	0.4	8,694	6.0	0.00	
8/9/2023	5,301	3.7	2,785	1.9	566	0.4	8,652	6.0	0.01	
8/10/2023	5,318	3.7	2,769	1.9	519	0.4	8,606	6.0	0.02	
8/11/2023	5,269	3.7	2,725	1.9	520	0.4	8,514	5.9	0.00	
8/12/2023	5,256	3.7	2,720	1.9	547	0.4	8,523	5.9	0.00	
8/13/2023	5,239	3.6	2,690	1.9	553	0.4	8,482	5.9	0.00	
8/14/2023	5,237	3.6	2,682	1.9	552	0.4	8,471	5.9	0.03	
8/15/2023	5,252	3.6	2,668	1.9	544	0.4	8,464	5.9	0.00	
8/16/2023	5,194	3.6	2,592	1.8	578	0.4	8,364	5.8	0.00	
8/17/2023	5,195	3.6	2,590	1.8	581	0.4	8,366	5.8	0.00	
8/18/2023	5,192	3.6	2,593	1.8	535	0.4	8,320	5.8	0.00	
8/19/2023	5,148	3.6	2,587	1.8	509	0.4	8,244	5.7	0.00	
8/20/2023	5,144	3.6	2,584	1.8	504	0.4	8,232	5.7	0.00	
8/21/2023	5,155	3.6	2,574	1.8	509	0.4	8,238	5.7	0.00	
8/22/2023	5,135	3.6	2,575	1.8	523	0.4	8,233	5.7	0.00	
8/23/2023	5,130	3.6	2,568	1.8	485	0.3	8,183	5.7	0.00	
8/24/2023	5,135	3.6	2,558	1.8	483	0.3	8,176	5.7	0.01	
8/25/2023	5,139	3.6	2,560	1.8	491	0.3	8,190	5.7	0.16	
8/26/2023	5,108	3.5	2,553	1.8	538	0.4	8,199	5.7	0.00	
8/27/2023	5,084	3.5	2,552	1.8	565	0.4	8,201	5.7	0.01	
8/28/2023	5,084	3.5	2,558	1.8	578	0.4	8,220	5.7	0.00	
8/29/2023	5,110	3.5	2,563	1.8	570	0.4	8,243	5.7	0.01	
8/30/2023	5,115	3.6	2,559	1.8	464	0.3	8,138	5.7	0.00	
8/31/2023	5,053	3.5	2,543	1.8	438	0.3	8,034	5.6	0.00	
9/1/2023	5,031	3.5	2,531	1.8	529	0.4	8,091	5.6	0.00	
9/2/2023	5,077	3.5	2,533	1.8	434	0.3	8,044	5.6	0.00	
9/3/2023	5,087	3.5	2,534	1.8	423	0.3	8,044	5.6	0.00	
9/4/2023	5,065	3.5	2,531	1.8	485	0.3	8,081	5.6	0.00	
9/5/2023	5,036	3.5	2,522	1.8	536	0.4	8,094	5.6	0.00	
9/6/2023	5,044	3.5	2,524	1.8	534	0.4	8,102	5.6	0.00	
9/7/2023	5,030	3.5	2,518	1.7	500	0.3	8,048	5.6	0.45	Transmitter Fault. CW-23 (1.3 hrs)
9/8/2023	5,004	3.5	2,518	1.7	455	0.3	7,977	5.5	0.05	
9/9/2023	5,005	3.5	2,503	1.7	519	0.4	8,027	5.6	0.06	
9/10/2023	5,021	3.5	2,523	1.8	504	0.4	8,048	5.6	0.33	
9/11/2023	5,046	3.5	2,512	1.7	412	0.3	7,970	5.5	0.00	
9/12/2023	5,061	3.5	2,493	1.7	360	0.3	7,914	5.5	0.39	
9/13/2023	5,069	3.5	2,504	1.7	372	0.3	7,945	5.5	0.00	
9/14/2023	5,044	3.5	2,492	1.7	358	0.2	7,894	5.5	0.00	
9/15/2023	5,056	3.5	2,482	1.7	342	0.2	7,880	5.5	0.00	
9/16/2023	5,059	3.5	2,480	1.7	321	0.2	7,860	5.5	0.00	
9/17/2023	5,055	3.5	2,483	1.7	383	0.3	7,921	5.5	0.84	
9/18/2023	5,081	3.5	2,508	1.7	415	0.3	8,004	5.6	0.01	
9/19/2023	5,054	3.5	2,498	1.7	364	0.3	7,916	5.5	0.00	
9/20/2023	5,057	3.5	2,500	1.7	282	0.2	7,839	5.4	0.00	
9/21/2023	5,057	3.5	2,493	1.7	237	0.2	7,787	5.4	0.00	
9/22/2023	5,065	3.5	2,484	1.7	227	0.2	7,776	5.4	0.00	
9/23/2023	5,117	3.6	2,487	1.7	314	0.2	7,918	5.5	0.67	
9/24/2023	5,152	3.6	2,520	1.8	358	0.2	8,030	5.6	1.34	
9/25/2023	5,201	3.6	2,574	1.8	357	0.2	8,132	5.6	0.02	
9/26/2023	5,225	3.6	2,574	1.8	244	0.2	8,043	5.6	0.08	
9/27/2023	5,270	3.7	2,566	1.8	234	0.2	8,070	5.6	0.00	
9/28/2023	5,286	3.7	2,558	1.8	265	0.2	8,109	5.6	0.00	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
9/29/2023	5,282	3.7	2,550	1.8	276	0.2	8,108	5.6	0.00	
9/30/2023	5,250	3.6	2,538	1.8	253	0.2	8,041	5.6	0.00	
10/1/2023	5,226	3.6	2,523	1.8	254	0.2	8,003	5.6	0.00	
10/2/2023	5,218	3.6	2,505	1.7	264	0.2	7,987	5.5	0.00	
10/3/2023	5,209	3.6	2,491	1.7	281	0.2	7,981	5.5	0.00	
10/4/2023	5,186	3.6	2,476	1.7	271	0.2	7,933	5.5	0.00	
10/5/2023	5,175	3.6	2,468	1.7	290	0.2	7,933	5.5	0.00	
10/6/2023	5,187	3.6	2,470	1.7	398	0.3	8,055	5.6	0.00	
10/7/2023	5,171	3.6	2,474	1.7	405	0.3	8,050	5.6	0.18	
10/8/2023	5,147	3.6	2,469	1.7	350	0.2	7,966	5.5	0.00	
10/9/2023	5,113	3.6	2,455	1.7	293	0.2	7,861	5.5	0.03	
10/10/2023	5,100	3.5	2,452	1.7	240	0.2	7,792	5.4	0.00	
10/11/2023	5,079	3.5	2,445	1.7	173	0.1	7,697	5.3	0.00	
10/12/2023	5,066	3.5	2,441	1.7	174	0.1	7,681	5.3	0.00	
10/13/2023	5,047	3.5	2,431	1.7	179	0.1	7,657	5.3	0.00	
10/14/2023	5,103	3.5	2,435	1.7	165	0.1	7,703	5.3	1.41	
10/15/2023	5,142	3.6	2,499	1.7	156	0.1	7,797	5.4	0.06	
10/16/2023	5,161	3.6	2,506	1.7	132	0.1	7,799	5.4	0.00	
10/17/2023	5,109	3.5	2,489	1.7	193	0.1	7,791	5.4	0.00	
10/18/2023	5,124	3.6	2,475	1.7	181	0.1	7,780	5.4	0.00	
10/19/2023	5,172	3.6	2,473	1.7	195	0.1	7,840	5.4	0.00	
10/20/2023	5,235	3.6	2,480	1.7	149	0.1	7,864	5.5	0.03	
10/21/2023	5,191	3.6	2,472	1.7	149	0.1	7,812	5.4	0.00	
10/22/2023	5,082	3.5	2,442	1.7	174	0.1	7,698	5.3	0.00	
10/23/2023	5,026	3.5	2,433	1.7	155	0.1	7,614	5.3	0.00	
10/24/2023	5,048	3.5	2,429	1.7	155	0.1	7,632	5.3	0.00	
10/25/2023	5,076	3.5	2,430	1.7	154	0.1	7,660	5.3	0.00	
10/26/2023	5,081	3.5	2,422	1.7	151	0.1	7,654	5.3	0.00	
10/27/2023	5,079	3.5	2,427	1.7	167	0.1	7,673	5.3	0.00	
10/28/2023	5,061	3.5	2,415	1.7	174	0.1	7,650	5.3	0.00	
10/29/2023	5,044	3.5	2,409	1.7	174	0.1	7,627	5.3	0.06	
10/30/2023	5,048	3.5	2,410	1.7	163	0.1	7,621	5.3	0.09	
10/31/2023	4,984	3.5	2,401	1.7	133	0.1	7,518	5.2	0.00	
11/1/2023	4,966	3.4	2,393	1.7	107	0.1	7,466	5.2	0.00	
11/2/2023	4,937	3.4	2,388	1.7	107	0.1	7,432	5.2	0.00	
11/3/2023	4,987	3.5	2,377	1.7	112	0.1	7,476	5.2	0.00	
11/4/2023	5,019	3.5	2,377	1.7	107	0.1	7,503	5.2	0.00	
11/5/2023	5,208	3.6	2,473	1.7	119	0.1	7,800	5.4	0.00	
11/6/2023	4,972	3.5	2,364	1.6	116	0.1	7,452	5.2	0.00	
11/7/2023	4,995	3.5	2,366	1.6	98	0.1	7,459	5.2	0.00	
11/8/2023	4,924	3.4	2,351	1.6	102	0.1	7,377	5.1	0.00	
11/9/2023	4,952	3.4	2,355	1.6	93	0.1	7,400	5.1	0.00	
11/10/2023	4,897	3.4	2,341	1.6	109	0.1	7,347	5.1	0.07	
11/11/2023	4,888	3.4	2,330	1.6	115	0.1	7,333	5.1	0.00	
11/12/2023	4,900	3.4	2,321	1.6	148	0.1	7,369	5.1	0.00	
11/13/2023	4,949	3.4	2,322	1.6	146	0.1	7,417	5.2	0.00	
11/14/2023	4,903	3.4	2,322	1.6	126	0.1	7,351	5.1	0.00	
11/15/2023	4,908	3.4	2,312	1.6	136	0.1	7,356	5.1	0.00	
11/16/2023	4,919	3.4	2,316	1.6	136	0.1	7,371	5.1	0.00	
11/17/2023	4,946	3.4	2,321	1.6	106	0.1	7,373	5.1	0.04	
11/18/2023	4,909	3.4	2,314	1.6	128	0.1	7,351	5.1	0.00	
11/19/2023	4,861	3.4	2,296	1.6	133	0.1	7,290	5.1	0.00	
11/20/2023	4,809	3.3	2,278	1.6	92	0.1	7,179	5.0	0.00	
11/21/2023	4,895	3.4	2,291	1.6	102	0.1	7,288	5.1	1.92	
11/22/2023	4,996	3.5	2,357	1.6	93	0.1	7,446	5.2	0.05	
11/23/2023	4,983	3.5	2,387	1.7	105	0.1	7,475	5.2	0.00	
11/24/2023	4,981	3.5	2,390	1.7	90	0.1	7,461	5.2	0.00	
11/25/2023	4,990	3.5	2,382	1.7	83	0.1	7,455	5.2	0.00	
11/26/2023	5,078	3.5	2,397	1.7	97	0.1	7,572	5.3	0.15	
11/27/2023	5,065	3.5	2,403	1.7	95	0.1	7,563	5.3	0.00	

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	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
11/28/2023	5,001	3.5	2,393	1.7	90	0.1	7,484	5.2	0.00	
11/29/2023	4,991	3.5	2,381	1.7	110	0.1	7,482	5.2	0.00	
11/30/2023	4,993	3.5	2,370	1.6	62	0.0	7,425	5.2	0.00	
12/1/2023	4,997	3.5	2,358	1.6	59	0.0	7,414	5.1	0.11	
12/2/2023	4,996	3.5	2,360	1.6	67	0.0	7,423	5.2	0.03	
12/3/2023	5,036	3.5	2,377	1.7	59	0.0	7,472	5.2	0.35	
12/4/2023	4,997	3.5	2,384	1.7	64	0.0	7,445	5.2	0.00	
12/5/2023	4,977	3.5	2,378	1.7	75	0.1	7,430	5.2	0.00	
12/6/2023	4,990	3.5	2,372	1.6	99	0.1	7,461	5.2	0.01	
12/7/2023	4,996	3.5	2,368	1.6	76	0.1	7,440	5.2	0.01	
12/8/2023	4,968	3.5	2,354	1.6	56	0.0	7,378	5.1	0.00	
12/9/2023	4,967	3.4	2,353	1.6	46	0.0	7,366	5.1	0.00	
12/10/2023	5,014	3.5	2,364	1.6	48	0.0	7,426	5.2	1.07	
12/11/2023	5,022	3.5	2,412	1.7	67	0.0	7,501	5.2	0.37	
12/12/2023	5,081	3.5	2,434	1.7	83	0.1	7,598	5.3	0.00	
12/13/2023	5,145	3.6	2,460	1.7	94	0.1	7,699	5.3	0.00	
12/14/2023	5,184	3.6	2,460	1.7	76	0.1	7,720	5.4	0.00	
12/15/2023	5,223	3.6	2,471	1.7	80	0.1	7,774	5.4	0.00	
12/16/2023	5,194	3.6	2,449	1.7	91	0.1	7,734	5.4	0.00	
12/17/2023	5,258	3.7	2,471	1.7	115	0.1	7,844	5.4	1.52	
12/18/2023	5,579	3.9	2,605	1.8	224	0.2	8,408	5.8	0.81	
12/19/2023	5,391	3.7	2,640	1.8	407	0.3	8,438	5.9	0.00	
12/20/2023	5,444	3.8	2,634	1.8	532	0.4	8,610	6.0	0.00	
12/21/2023	5,512	3.8	2,636	1.8	625	0.4	8,773	6.1	0.00	
12/22/2023	5,528	3.8	2,635	1.8	669	0.5	8,832	6.1	0.00	
12/23/2023	5,527	3.8	2,620	1.8	696	0.5	8,843	6.1	0.00	
12/24/2023	5,512	3.8	2,620	1.8	714	0.5	8,846	6.1	0.00	
12/25/2023	5,489	3.8	2,627	1.8	736	0.5	8,852	6.1	0.00	
12/26/2023	5,481	3.8	2,633	1.8	734	0.5	8,848	6.1	0.00	
12/27/2023	5,502	3.8	2,657	1.8	732	0.5	8,891	6.2	0.00	
12/28/2023	5,506	3.8	2,685	1.9	737	0.5	8,928	6.2	0.00	
12/29/2023	5,476	3.8	2,676	1.9	731	0.5	8,883	6.2	0.00	
12/30/2023	5,442	3.8	2,648	1.8	741	0.5	8,831	6.1	0.00	
12/31/2023	5,377	3.7	2,612	1.8	730	0.5	8,719	6.1	0.00	
1/1/2024	5,374	3.7	2,598	1.8	727	0.5	8,699	6.0	0.03	
1/2/2024	5,362	3.7	2,574	1.8	720	0.5	8,656	6.0	0.00	
1/3/2024	5,373	3.7	2,569	1.8	706	0.5	8,648	6.0	0.00	
1/4/2024	5,336	3.7	2,551	1.8	712	0.5	8,599	6.0	0.00	
1/5/2024	5,293	3.7	2,531	1.8	717	0.5	8,541	5.9	0.00	
1/6/2024	5,372	3.7	2,554	1.8	704	0.5	8,630	6.0	0.96	
1/7/2024	5,389	3.7	2,583	1.8	709	0.5	8,681	6.0	0.00	
1/8/2024	5,352	3.7	2,562	1.8	703	0.5	8,617	6.0	0.00	
1/9/2024	5,628	3.9	2,647	1.8	710	0.5	8,985	6.2	1.30	
1/10/2024	5,934	4.1	2,762	1.9	799	0.6	9,495	6.6	0.02	
1/11/2024	5,868	4.1	2,749	1.9	932	0.6	9,549	6.6	0.00	
1/12/2024	5,925	4.1	2,738	1.9	997	0.7	9,660	6.7	0.33	
1/13/2024	6,095	4.2	2,813	2.0	1,034	0.7	9,942	6.9	0.17	
1/14/2024	6,023	4.2	2,739	1.9	1,086	0.8	9,848	6.8	0.00	
1/15/2024	6,026	4.2	2,710	1.9	1,111	0.8	9,847	6.8	0.11	
1/16/2024	6,112	4.2	2,740	1.9	1,121	0.8	9,973	6.9	0.18	
1/17/2024	6,009	4.2	2,714	1.9	1,114	0.8	9,837	6.8	0.00	
1/18/2024	5,968	4.1	2,701	1.9	1,109	0.8	9,778	6.8	0.00	
1/19/2024	5,985	4.2	2,743	1.9	1,118	0.8	9,846	6.8	0.22	
1/20/2024	5,867	4.1	2,690	1.9	1,092	0.8	9,649	6.7	0.00	
1/21/2024	5,791	4.0	2,657	1.8	1,079	0.7	9,527	6.6	0.00	
1/22/2024	5,794	4.0	2,641	1.8	1,067	0.7	9,502	6.6	0.00	
1/23/2024	5,789	4.0	2,631	1.8	1,042	0.7	9,462	6.6	0.00	
1/24/2024	5,780	4.0	2,622	1.8	1,028	0.7	9,430	6.5	0.01	
1/25/2024	5,453	3.8	2,664	1.9	963	0.7	9,080	6.3	0.30	SPBA Power Failure Alarm (3.1 hrs)
1/26/2024	5,929	4.1	2,917	2.0	1,001	0.7	9,847	6.8	0.12	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
1/27/2024	5,857	4.1	2,827	2.0	1,012	0.7	9,696	6.7	0.03	
1/28/2024	6,094	4.2	2,890	2.0	1,046	0.7	10,030	7.0	0.78	
1/29/2024	6,177	4.3	2,866	2.0	1,130	0.8	10,173	7.1	0.00	
1/30/2024	6,210	4.3	2,796	1.9	1,201	0.8	10,207	7.1	0.00	
1/31/2024	6,241	4.3	2,779	1.9	1,231	0.9	10,251	7.1	0.00	
2/1/2024	6,302	4.4	2,817	2.0	1,232	0.9	10,351	7.2	0.00	
2/2/2024	6,299	4.4	2,798	1.9	1,227	0.9	10,324	7.2	0.12	
2/3/2024	6,205	4.3	2,755	1.9	1,211	0.8	10,171	7.1	0.00	
2/4/2024	6,180	4.3	2,722	1.9	1,199	0.8	10,101	7.0	0.00	
2/5/2024	6,136	4.3	2,701	1.9	1,184	0.8	10,021	7.0	0.00	
2/6/2024	6,043	4.2	2,663	1.8	1,171	0.8	9,877	6.9	0.00	
2/7/2024	6,001	4.2	2,646	1.8	1,158	0.8	9,805	6.8	0.00	
2/8/2024	5,982	4.2	2,640	1.8	1,132	0.8	9,754	6.8	0.00	
2/9/2024	5,984	4.2	2,646	1.8	1,126	0.8	9,756	6.8	0.00	
2/10/2024	5,952	4.1	2,644	1.8	1,108	0.8	9,704	6.7	0.00	
2/11/2024	5,867	4.1	2,625	1.8	1,095	0.8	9,587	6.7	0.00	
2/12/2024	5,838	4.1	2,621	1.8	1,082	0.8	9,541	6.6	0.12	
2/13/2024	5,830	4.0	2,631	1.8	1,074	0.7	9,535	6.6	1.10	
2/14/2024	5,816	4.0	2,631	1.8	1,060	0.7	9,507	6.6	0.00	
2/15/2024	5,955	4.1	2,644	1.8	1,090	0.8	9,689	6.7	0.01	
2/16/2024	6,016	4.2	2,639	1.8	1,109	0.8	9,764	6.8	0.00	
2/17/2024	6,021	4.2	2,657	1.8	1,125	0.8	9,803	6.8	0.19	
2/18/2024	5,995	4.2	2,649	1.8	1,138	0.8	9,782	6.8	0.00	
2/19/2024	5,911	4.1	2,610	1.8	1,140	0.8	9,661	6.7	0.00	
2/20/2024	5,868	4.1	2,584	1.8	1,142	0.8	9,594	6.7	0.00	
2/21/2024	5,885	4.1	2,586	1.8	1,142	0.8	9,613	6.7	0.00	
2/22/2024	5,940	4.1	2,613	1.8	1,151	0.8	9,704	6.7	0.37	
2/23/2024	5,949	4.1	2,644	1.8	1,157	0.8	9,750	6.8	0.00	
2/24/2024	5,831	4.0	2,607	1.8	1,145	0.8	9,583	6.7	0.15	SPBA power failure alarm. CW-21 (0.2 hrs) CW-22 (0.3 hrs) CW-23 (0.2 hrs)
2/25/2024	5,768	4.0	2,589	1.8	1,139	0.8	9,496	6.6	0.00	
2/26/2024	5,793	4.0	2,599	1.8	1,144	0.8	9,536	6.6	0.00	
2/27/2024	5,709	4.0	2,733	1.9	1,138	0.8	9,580	6.7	0.00	PTA Blower Maintenance (0.7 hrs)
2/28/2024	5,772	4.0	2,837	2.0	1,147	0.8	9,756	6.8	0.21	
2/29/2024	5,549	3.9	2,734	1.9	1,123	0.8	9,406	6.5	0.00	
3/1/2024	5,539	3.8	2,717	1.9	1,120	0.8	9,376	6.5	0.00	
3/2/2024	5,661	3.9	2,743	1.9	1,126	0.8	9,530	6.6	0.71	
3/3/2024	5,735	4.0	2,768	1.9	1,123	0.8	9,626	6.7	0.00	
3/4/2024	5,752	4.0	2,781	1.9	1,134	0.8	9,667	6.7	0.00	
3/5/2024	5,809	4.0	2,782	1.9	1,163	0.8	9,754	6.8	0.28	
3/6/2024	5,854	4.1	2,792	1.9	1,175	0.8	9,821	6.8	0.08	
3/7/2024	5,823	4.0	2,790	1.9	1,175	0.8	9,788	6.8	0.06	
3/8/2024	5,778	4.0	2,754	1.9	1,175	0.8	9,707	6.7	0.00	
3/9/2024	5,920	4.1	2,777	1.9	1,193	0.8	9,890	6.9	1.23	
3/10/2024	6,054	4.2	2,740	1.9	1,210	0.8	10,004	6.9	0.01	
3/11/2024	6,331	4.4	2,838	2.0	1,380	1.0	10,549	7.3	0.00	
3/12/2024	6,410	4.5	2,824	2.0	1,438	1.0	10,672	7.4	0.00	
3/13/2024	6,441	4.5	2,804	1.9	1,434	1.0	10,679	7.4	0.00	
3/14/2024	6,447	4.5	2,775	1.9	1,414	1.0	10,636	7.4	0.01	
3/15/2024	6,460	4.5	2,789	1.9	1,403	1.0	10,652	7.4	0.06	
3/16/2024	6,401	4.4	2,763	1.9	1,379	1.0	10,543	7.3	0.00	
3/17/2024	6,405	4.4	2,768	1.9	1,362	0.9	10,535	7.3	0.00	
3/18/2024	6,313	4.4	2,739	1.9	1,326	0.9	10,378	7.2	0.00	
3/19/2024	6,260	4.3	2,729	1.9	1,305	0.9	10,294	7.1	0.00	
3/20/2024	6,226	4.3	2,722	1.9	1,296	0.9	10,244	7.1	0.00	
3/21/2024	6,077	4.2	2,670	1.9	1,269	0.9	10,016	7.0	0.00	
3/22/2024	6,056	4.2	2,664	1.9	1,253	0.9	9,973	6.9	0.05	
3/23/2024	6,174	4.3	2,699	1.9	1,247	0.9	10,120	7.0	1.20	
3/24/2024	6,174	4.3	2,684	1.9	1,254	0.9	10,112	7.0	0.00	
3/25/2024	6,202	4.3	2,680	1.9	1,273	0.9	10,155	7.1	0.00	
3/26/2024	6,233	4.3	2,689	1.9	1,288	0.9	10,210	7.1	0.00	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
3/27/2024	6,205	4.3	2,682	1.9	1,285	0.9	10,172	7.1	0.26	
3/28/2024	6,206	4.3	2,685	1.9	1,288	0.9	10,179	7.1	0.00	
3/29/2024	6,179	4.3	2,683	1.9	1,280	0.9	10,142	7.0	0.00	
3/30/2024	6,123	4.3	2,669	1.9	1,276	0.9	10,068	7.0	0.22	
3/31/2024	6,063	4.2	2,646	1.8	1,265	0.9	9,974	6.9	0.00	
4/1/2024	6,085	4.2	2,658	1.8	1,266	0.9	10,009	7.0	0.67	
4/2/2024	6,486	4.5	2,707	1.9	1,323	0.9	10,516	7.3	1.30	
4/3/2024	7,221	5.0	2,883	2.0	1,671	1.2	11,775	8.2	1.14	
4/4/2024	7,470	5.2	2,997	2.1	2,093	1.5	12,560	8.7	0.05	
4/5/2024	7,544	5.2	2,982	2.1	2,210	1.5	12,736	8.8	0.04	
4/6/2024	7,583	5.3	2,961	2.1	2,146	1.5	12,690	8.8	0.00	
4/7/2024	7,562	5.3	2,910	2.0	2,051	1.4	12,523	8.7	0.00	
4/8/2024	7,536	5.2	2,897	2.0	1,947	1.4	12,380	8.6	0.00	
4/9/2024	7,516	5.2	2,872	2.0	1,864	1.3	12,252	8.5	0.00	
4/10/2024	7,488	5.2	2,836	2.0	1,787	1.2	12,111	8.4	0.00	
4/11/2024	7,436	5.2	2,830	2.0	1,723	1.2	11,989	8.3	0.11	
4/12/2024	7,393	5.1	2,852	2.0	1,664	1.2	11,909	8.3	0.24	
4/13/2024	7,373	5.1	2,806	1.9	1,606	1.1	11,785	8.2	0.00	SPBA power failure alarm (0.1 hrs)
4/14/2024	7,393	5.1	2,778	1.9	1,580	1.1	11,751	8.2	0.09	
4/15/2024	7,281	5.1	2,762	1.9	1,532	1.1	11,575	8.0	0.23	
4/16/2024	7,137	5.0	2,720	1.9	1,493	1.0	11,350	7.9	0.00	
4/17/2024	7,077	4.9	2,712	1.9	1,469	1.0	11,258	7.8	0.00	
4/18/2024	6,956	4.8	2,681	1.9	1,438	1.0	11,075	7.7	0.00	
4/19/2024	6,860	4.8	2,667	1.9	1,404	1.0	10,931	7.6	0.08	
4/20/2024	6,790	4.7	2,670	1.9	1,381	1.0	10,841	7.5	0.00	
4/21/2024	6,683	4.6	2,643	1.8	1,360	0.9	10,686	7.4	0.00	
4/22/2024	6,598	4.6	2,610	1.8	1,336	0.9	10,544	7.3	0.00	
4/23/2024	6,546	4.5	2,607	1.8	1,327	0.9	10,480	7.3	0.00	
4/24/2024	6,481	4.5	2,599	1.8	1,311	0.9	10,391	7.2	0.03	
4/25/2024	6,348	4.4	2,561	1.8	1,302	0.9	10,211	7.1	0.00	
4/26/2024	6,304	4.4	2,540	1.8	1,279	0.9	10,123	7.0	0.00	
4/27/2024	6,269	4.4	2,530	1.8	1,270	0.9	10,069	7.0	0.03	
4/28/2024	6,271	4.4	2,545	1.8	1,262	0.9	10,078	7.0	0.00	
4/29/2024	6,230	4.3	2,532	1.8	1,254	0.9	10,016	7.0	0.00	
4/30/2024	6,185	4.3	2,530	1.8	1,245	0.9	9,960	6.9	0.08	
5/1/2024	6,111	4.2	2,510	1.7	1,246	0.9	9,867	6.9	0.00	
5/2/2024	6,073	4.2	2,499	1.7	1,235	0.9	9,807	6.8	0.00	
5/3/2024	5,999	4.2	2,480	1.7	1,236	0.9	9,715	6.7	0.00	
5/4/2024	5,970	4.1	2,464	1.7	1,225	0.9	9,659	6.7	0.23	
5/5/2024	6,011	4.2	2,473	1.7	1,221	0.8	9,705	6.7	0.38	
5/6/2024	6,049	4.2	2,497	1.7	1,210	0.8	9,756	6.8	0.00	
5/7/2024	6,042	4.2	2,497	1.7	1,200	0.8	9,739	6.8	0.07	
5/8/2024	6,004	4.2	2,487	1.7	1,204	0.8	9,695	6.7	0.00	
5/9/2024	5,931	4.1	2,464	1.7	1,201	0.8	9,596	6.7	0.27	
5/10/2024	5,918	4.1	2,466	1.7	1,203	0.8	9,587	6.7	0.28	
5/11/2024	5,912	4.1	2,472	1.7	1,193	0.8	9,577	6.7	0.32	
5/12/2024	5,917	4.1	2,466	1.7	1,191	0.8	9,574	6.6	0.14	
5/13/2024	5,891	4.1	2,456	1.7	1,178	0.8	9,525	6.6	0.00	
5/14/2024	5,902	4.1	2,453	1.7	1,178	0.8	9,533	6.6	0.31	
5/15/2024	5,920	4.1	2,466	1.7	1,181	0.8	9,567	6.6	0.16	
5/16/2024	5,888	4.1	2,455	1.7	1,174	0.8	9,517	6.6	0.00	
5/17/2024	5,832	4.1	2,433	1.7	1,163	0.8	9,428	6.5	0.00	
5/18/2024	5,821	4.0	2,425	1.7	1,162	0.8	9,408	6.5	0.20	
5/19/2024	5,813	4.0	2,423	1.7	1,148	0.8	9,384	6.5	0.00	
5/20/2024	5,785	4.0	2,409	1.7	1,134	0.8	9,328	6.5	0.00	
5/21/2024	5,770	4.0	2,398	1.7	1,126	0.8	9,294	6.5	0.00	
5/22/2024	5,751	4.0	2,393	1.7	1,121	0.8	9,265	6.4	0.00	
5/23/2024	5,727	4.0	2,384	1.7	1,109	0.8	9,220	6.4	0.00	
5/24/2024	5,705	4.0	2,384	1.7	1,111	0.8	9,200	6.4	0.00	
5/25/2024	5,673	3.9	2,373	1.6	1,097	0.8	9,143	6.3	0.05	

Appendix D
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	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
5/26/2024	5,636	3.9	2,371	1.6	1,082	0.8	9,089	6.3	0.49	
5/27/2024	5,587	3.9	2,376	1.7	1,087	0.8	9,050	6.3	0.03	
5/28/2024	5,559	3.9	2,352	1.6	1,071	0.7	8,982	6.2	0.00	
5/29/2024	5,531	3.8	2,338	1.6	1,074	0.7	8,943	6.2	0.08	
5/30/2024	5,513	3.8	2,329	1.6	1,073	0.7	8,915	6.2	0.00	
5/31/2024	5,483	3.8	2,315	1.6	1,053	0.7	8,851	6.1	0.00	
6/1/2024	5,488	3.8	2,319	1.6	1,047	0.7	8,854	6.1	0.00	
6/2/2024	5,499	3.8	2,324	1.6	1,034	0.7	8,857	6.2	0.00	
6/3/2024	5,480	3.8	2,319	1.6	1,030	0.7	8,829	6.1	0.00	
6/4/2024	5,451	3.8	2,314	1.6	1,010	0.7	8,775	6.1	0.12	
6/5/2024	5,452	3.8	2,315	1.6	1,022	0.7	8,789	6.1	1.02	
6/6/2024	5,493	3.8	2,340	1.6	1,007	0.7	8,840	6.1	0.00	
6/7/2024	5,468	3.8	2,327	1.6	1,005	0.7	8,800	6.1	0.00	
6/8/2024	5,441	3.8	2,317	1.6	999	0.7	8,757	6.1	0.00	
6/9/2024	5,461	3.8	2,327	1.6	994	0.7	8,782	6.1	0.00	
6/10/2024	5,426	3.8	2,318	1.6	990	0.7	8,734	6.1	0.00	
6/11/2024	5,380	3.7	2,297	1.6	991	0.7	8,668	6.0	0.00	
6/12/2024	5,367	3.7	2,286	1.6	980	0.7	8,633	6.0	0.00	
6/13/2024	5,365	3.7	2,287	1.6	969	0.7	8,621	6.0	0.00	
6/14/2024	5,362	3.7	2,291	1.6	955	0.7	8,608	6.0	0.00	
6/15/2024	5,317	3.7	2,280	1.6	950	0.7	8,547	5.9	0.00	
6/16/2024	5,296	3.7	2,267	1.6	950	0.7	8,513	5.9	0.00	
6/17/2024	5,303	3.7	2,267	1.6	917	0.6	8,487	5.9	0.00	
6/18/2024	5,282	3.7	2,257	1.6	908	0.6	8,447	5.9	0.00	
6/19/2024	5,264	3.7	2,249	1.6	899	0.6	8,412	5.8	0.00	
6/20/2024	5,265	3.7	2,247	1.6	883	0.6	8,395	5.8	0.00	
6/21/2024	5,270	3.7	2,254	1.6	872	0.6	8,396	5.8	0.00	
6/22/2024	5,275	3.7	2,245	1.6	872	0.6	8,392	5.8	0.00	
6/23/2024	5,282	3.7	2,269	1.6	871	0.6	8,422	5.8	0.00	
6/24/2024	5,222	3.6	2,249	1.6	856	0.6	8,327	5.8	0.00	
6/25/2024	5,179	3.6	2,247	1.6	842	0.6	8,268	5.7	0.00	
6/26/2024	5,195	3.6	2,257	1.6	837	0.6	8,289	5.8	0.26	
6/27/2024	5,167	3.6	2,245	1.6	831	0.6	8,243	5.7	0.00	
6/28/2024	5,122	3.6	2,219	1.5	823	0.6	8,164	5.7	0.00	
6/29/2024	5,149	3.6	2,221	1.5	817	0.6	8,187	5.7	0.75	
6/30/2024	5,198	3.6	2,254	1.6	812	0.6	8,264	5.7	0.02	
7/1/2024	5,210	3.6	2,268	1.6	800	0.6	8,278	5.7	0.00	
7/2/2024	5,068	3.5	2,349	1.6	763	0.5	8,180	5.7	0.00	SPBA Power Outage. CW-21 (0.4 hrs) CW-22 (5.7 hrs) CW-23 (0.4 hrs)
7/3/2024	5,051	3.5	2,778	1.9	785	0.5	8,614	6.0	0.00	SPBA Power Outage and Well Cycled after Restarting. CW-22 (5.8 hrs)
7/4/2024	4,893	3.4	3,316	2.3	802	0.6	9,011	6.3	0.15	
7/5/2024	4,806	3.3	3,233	2.2	804	0.6	8,843	6.1	0.00	
7/6/2024	4,742	3.3	3,206	2.2	789	0.5	8,737	6.1	0.00	
7/7/2024	4,688	3.3	3,179	2.2	787	0.5	8,654	6.0	0.00	
7/8/2024	4,663	3.2	3,126	2.2	776	0.5	8,565	5.9	0.00	
7/9/2024	4,672	3.2	3,092	2.1	788	0.5	8,552	5.9	0.00	
7/10/2024	4,679	3.2	3,102	2.2	794	0.6	8,575	6.0	0.00	
7/11/2024	4,617	3.2	3,072	2.1	768	0.5	8,457	5.9	0.00	
7/12/2024	4,588	3.2	3,066	2.1	738	0.5	8,392	5.8	0.05	
7/13/2024	4,603	3.2	3,059	2.1	733	0.5	8,395	5.8	0.00	
7/14/2024	4,619	3.2	3,036	2.1	729	0.5	8,384	5.8	0.00	
7/15/2024	4,602	3.2	3,043	2.1	722	0.5	8,367	5.8	0.03	SPBA Power Outage (0.3 hrs)
7/16/2024	4,630	3.2	3,049	2.1	719	0.5	8,398	5.8	0.00	SPBA Power Outage (0.1 hrs)
7/17/2024	4,580	3.2	3,034	2.1	717	0.5	8,331	5.8	0.34	
7/18/2024	4,586	3.2	3,057	2.1	697	0.5	8,340	5.8	0.00	
7/19/2024	4,569	3.2	3,054	2.1	675	0.5	8,298	5.8	0.00	
7/20/2024	4,602	3.2	3,050	2.1	670	0.5	8,322	5.8	0.01	
7/21/2024	4,603	3.2	3,028	2.1	668	0.5	8,299	5.8	0.00	
7/22/2024	4,589	3.2	3,020	2.1	664	0.5	8,273	5.7	0.38	
7/23/2024	4,586	3.2	3,048	2.1	653	0.5	8,287	5.8	0.00	
7/24/2024	4,594	3.2	3,033	2.1	647	0.4	8,274	5.7	0.00	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
7/25/2024	4,594	3.2	3,010	2.1	628	0.4	8,232	5.7	0.00	
7/26/2024	4,583	3.2	2,995	2.1	607	0.4	8,185	5.7	0.00	
7/27/2024	4,573	3.2	2,985	2.1	625	0.4	8,183	5.7	0.00	
7/28/2024	4,568	3.2	2,975	2.1	605	0.4	8,148	5.7	0.00	
7/29/2024	4,573	3.2	2,969	2.1	607	0.4	8,149	5.7	0.00	
7/30/2024	4,551	3.2	2,968	2.1	616	0.4	8,135	5.6	0.03	
7/31/2024	4,523	3.1	2,957	2.1	604	0.4	8,084	5.6	0.00	
8/1/2024	4,508	3.1	2,934	2.0	600	0.4	8,042	5.6	0.00	
8/2/2024	4,520	3.1	2,941	2.0	586	0.4	8,047	5.6	0.00	
8/3/2024	4,502	3.1	2,940	2.0	572	0.4	8,014	5.6	0.02	
8/4/2024	4,484	3.1	2,946	2.0	569	0.4	7,999	5.6	0.03	
8/5/2024	4,484	3.1	2,951	2.0	556	0.4	7,991	5.5	0.00	
8/6/2024	4,501	3.1	2,930	2.0	551	0.4	7,982	5.5	0.00	
8/7/2024	4,566	3.2	3,097	2.2	541	0.4	8,204	5.7	0.00	
8/8/2024	4,658	3.2	3,157	2.2	543	0.4	8,358	5.8	0.19	
8/9/2024	4,846	3.4	3,219	2.2	577	0.4	8,642	6.0	0.14	
8/10/2024	4,905	3.4	3,282	2.3	571	0.4	8,758	6.1	0.00	
8/11/2024	4,946	3.4	3,214	2.2	601	0.4	8,761	6.1	0.00	
8/12/2024	4,975	3.5	3,199	2.2	618	0.4	8,792	6.1	0.00	
8/13/2024	4,966	3.4	3,172	2.2	619	0.4	8,757	6.1	0.00	
8/14/2024	4,943	3.4	3,119	2.2	631	0.4	8,693	6.0	0.00	
8/15/2024	4,940	3.4	3,067	2.1	662	0.5	8,669	6.0	0.00	SPBA Power Outage (1.4 hrs)
8/16/2024	5,148	3.6	3,089	2.1	652	0.5	8,889	6.2	0.00	
8/17/2024	5,100	3.5	3,068	2.1	654	0.5	8,822	6.1	0.06	
8/18/2024	5,073	3.5	3,046	2.1	672	0.5	8,791	6.1	0.00	
8/19/2024	5,027	3.5	3,061	2.1	666	0.5	8,754	6.1	0.02	
8/20/2024	4,957	3.4	3,061	2.1	616	0.4	8,634	6.0	0.01	
8/21/2024	4,944	3.4	3,018	2.1	615	0.4	8,577	6.0	0.00	
8/22/2024	4,928	3.4	3,000	2.1	621	0.4	8,549	5.9	0.00	
8/23/2024	4,917	3.4	2,903	2.0	616	0.4	8,436	5.9	0.00	
8/24/2024	4,933	3.4	2,854	2.0	627	0.4	8,414	5.8	0.00	
8/25/2024	4,905	3.4	2,868	2.0	611	0.4	8,384	5.8	0.00	
8/26/2024	4,883	3.4	2,876	2.0	611	0.4	8,370	5.8	0.00	
8/27/2024	4,871	3.4	2,878	2.0	611	0.4	8,360	5.8	0.00	
8/28/2024	4,861	3.4	2,880	2.0	595	0.4	8,336	5.8	0.00	
8/29/2024	4,811	3.3	2,878	2.0	583	0.4	8,272	5.7	0.02	
8/30/2024	4,791	3.3	2,898	2.0	562	0.4	8,251	5.7	0.00	
8/31/2024	4,802	3.3	2,901	2.0	556	0.4	8,259	5.7	0.04	
9/1/2024	4,803	3.3	2,847	2.0	548	0.4	8,198	5.7	0.20	
9/2/2024	4,748	3.3	2,846	2.0	528	0.4	8,122	5.6	0.00	
9/3/2024	4,706	3.3	2,828	2.0	550	0.4	8,084	5.6	0.00	
9/4/2024	4,708	3.3	2,816	2.0	559	0.4	8,083	5.6	0.00	
9/5/2024	4,726	3.3	2,803	1.9	554	0.4	8,083	5.6	0.00	
9/6/2024	4,746	3.3	2,821	2.0	538	0.4	8,105	5.6	0.00	
9/7/2024	4,740	3.3	2,849	2.0	509	0.4	8,098	5.6	0.32	
9/8/2024	4,692	3.3	2,877	2.0	486	0.3	8,055	5.6	0.00	
9/9/2024	4,684	3.3	2,830	2.0	508	0.4	8,022	5.6	0.00	
9/10/2024	4,117	2.9	2,452	1.7	457	0.3	7,026	4.9	0.00	SPBA Power Outage (5.4 hrs)
9/11/2024	5,013	3.5	2,873	2.0	517	0.4	8,403	5.8	0.00	
9/12/2024	4,838	3.4	2,847	2.0	467	0.3	8,152	5.7	0.00	
9/13/2024	4,789	3.3	2,820	2.0	462	0.3	8,071	5.6	0.00	
9/14/2024	4,756	3.3	2,779	1.9	456	0.3	7,991	5.5	0.00	
9/15/2024	4,730	3.3	2,754	1.9	507	0.4	7,991	5.5	0.00	
9/16/2024	4,724	3.3	2,706	1.9	442	0.3	7,872	5.5	0.00	
9/17/2024	4,739	3.3	2,658	1.8	435	0.3	7,832	5.4	0.00	
9/18/2024	4,735	3.3	2,780	1.9	407	0.3	7,922	5.5	0.30	
9/19/2024	4,723	3.3	2,774	1.9	419	0.3	7,916	5.5	0.00	
9/20/2024	4,685	3.3	2,767	1.9	449	0.3	7,901	5.5	0.00	
9/21/2024	4,663	3.2	2,758	1.9	463	0.3	7,884	5.5	0.81	
9/22/2024	4,661	3.2	2,781	1.9	480	0.3	7,922	5.5	0.63	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
9/23/2024	4,666	3.2	2,802	1.9	391	0.3	7,859	5.5	0.33	
9/24/2024	4,665	3.2	2,818	2.0	351	0.2	7,834	5.4	0.00	
9/25/2024	4,685	3.3	2,833	2.0	409	0.3	7,927	5.5	0.04	
9/26/2024	4,700	3.3	2,857	2.0	374	0.3	7,931	5.5	0.28	
9/27/2024	4,736	3.3	2,892	2.0	357	0.2	7,985	5.5	0.09	
9/28/2024	4,741	3.3	2,910	2.0	350	0.2	8,001	5.6	0.14	
9/29/2024	4,721	3.3	2,885	2.0	392	0.3	7,998	5.6	0.35	
9/30/2024	4,720	3.3	2,874	2.0	462	0.3	8,056	5.6	0.39	
10/1/2024	4,740	3.3	2,897	2.0	454	0.3	8,091	5.6	0.11	
10/2/2024	4,762	3.3	2,870	2.0	447	0.3	8,079	5.6	0.02	
10/3/2024	4,727	3.3	2,858	2.0	374	0.3	7,959	5.5	0.00	
10/4/2024	4,713	3.3	2,811	2.0	317	0.2	7,841	5.4	0.00	
10/5/2024	4,707	3.3	2,792	1.9	289	0.2	7,788	5.4	0.00	
10/6/2024	4,722	3.3	2,796	1.9	276	0.2	7,794	5.4	0.00	
10/7/2024	4,723	3.3	2,794	1.9	283	0.2	7,800	5.4	0.04	
10/8/2024	4,683	3.3	2,765	1.9	284	0.2	7,732	5.4	0.00	
10/9/2024	4,668	3.2	2,771	1.9	356	0.2	7,795	5.4	0.00	
10/10/2024	4,632	3.2	2,759	1.9	335	0.2	7,726	5.4	0.00	
10/11/2024	4,649	3.2	2,682	1.9	314	0.2	7,645	5.3	0.00	
10/12/2024	3,151	2.2	1,764	1.2	223	0.2	5,138	3.6	0.00	SPBA Containment Sump High Level (7.9 hrs)
10/13/2024	91	0.1	2,149	1.5	343	0.2	2,583	1.8	0.00	SPBA Shutdown for Manifold Parts Replacement. CW-21 (23.7 hrs) CW-22 (11.1 hrs) CW-23 (11.1 hrs)
10/14/2024	0	0.0	3,686	2.6	323	0.2	4,009	2.8	0.00	SPBA Shutdown for Manifold Parts Replacement. CW-21 (23.9 hrs)
10/15/2024	0	0.0	3,723	2.6	231	0.2	3,954	2.7	0.00	SPBA Shutdown for Manifold Parts Replacement. CW-21 (23.9 hrs)
10/16/2024	0	0.0	3,692	2.6	201	0.1	3,893	2.7	0.00	SPBA Shutdown for Manifold Parts Replacement. CW-21 (23.9 hrs)
10/17/2024	0	0.0	3,542	2.5	193	0.1	3,735	2.6	0.00	SPBA Shutdown for Manifold Parts Replacement. CW-21 (23.9 hrs)
10/18/2024	2,745	1.9	2,218	1.5	208	0.1	5,171	3.6	0.00	Sitewide Power Outage. CW-21 (14.6 hrs) CW-22 (11.3 hrs) CW-23 (11.3 hrs)
10/19/2024	5,925	4.1	3,418	2.4	234	0.2	9,577	6.7	0.00	
10/20/2024	5,016	3.5	3,120	2.2	197	0.1	8,333	5.8	0.00	
10/21/2024	4,691	3.3	3,052	2.1	275	0.2	8,018	5.6	0.00	
10/22/2024	4,376	3.0	3,026	2.1	274	0.2	7,676	5.3	0.00	SPBA Sump Alarm Test. CW-21 (0.9 hrs) CW-22 (1.1 hrs) CW-23 (0.9 hrs)
10/23/2024	4,390	3.0	3,035	2.1	201	0.1	7,626	5.3	0.00	
10/24/2024	4,304	3.0	2,999	2.1	183	0.1	7,486	5.2	0.00	
10/25/2024	4,250	3.0	2,970	2.1	185	0.1	7,405	5.1	0.00	
10/26/2024	4,211	2.9	2,939	2.0	196	0.1	7,346	5.1	0.00	
10/27/2024	4,171	2.9	2,922	2.0	203	0.1	7,296	5.1	0.00	
10/28/2024	4,175	2.9	2,918	2.0	280	0.2	7,373	5.1	0.00	
10/29/2024	4,166	2.9	2,911	2.0	270	0.2	7,347	5.1	0.00	
10/30/2024	4,174	2.9	2,909	2.0	232	0.2	7,315	5.1	0.00	
10/31/2024	4,185	2.9	2,915	2.0	220	0.2	7,320	5.1	0.00	
11/1/2024	4,150	2.9	2,909	2.0	176	0.1	7,235	5.0	0.00	
11/2/2024	4,083	2.8	2,890	2.0	123	0.1	7,096	4.9	0.00	
11/3/2024	4,255	3.0	3,008	2.1	127	0.1	7,390	5.1	0.00	
11/4/2024	4,097	2.8	2,883	2.0	119	0.1	7,099	4.9	0.00	
11/5/2024	4,090	2.8	2,874	2.0	113	0.1	7,077	4.9	0.00	Annual Maintenance. CW-21 (0.1) CW-22 (1.4 hrs) CW-23 (1.4 hrs)
11/6/2024	4,067	2.8	2,935	2.0	94	0.1	7,096	4.9	0.00	
11/7/2024	4,020	2.8	2,921	2.0	91	0.1	7,032	4.9	0.00	
11/8/2024	4,018	2.8	2,908	2.0	81	0.1	7,007	4.9	0.00	
11/9/2024	3,965	2.8	2,883	2.0	74	0.1	6,922	4.8	0.00	
11/10/2024	4,016	2.8	2,893	2.0	62	0.0	6,971	4.8	0.22	
11/11/2024	4,056	2.8	2,923	2.0	80	0.1	7,059	4.9	0.06	
11/12/2024	3,314	2.3	2,477	1.7	97	0.1	5,888	4.1	0.00	SPBA Shutdown for Conveyance Line Bypass (5.9 hrs)
11/13/2024	4,221	2.9	2,921	2.0	108	0.1	7,250	5.0	0.00	
11/14/2024	4,109	2.9	2,901	2.0	78	0.1	7,088	4.9	0.07	
11/15/2024	4,018	2.8	2,870	2.0	68	0.0	6,956	4.8	0.06	
11/16/2024	4,018	2.8	2,870	2.0	67	0.0	6,955	4.8	0.00	
11/17/2024	4,018	2.8	2,870	2.0	67	0.0	6,955	4.8	0.00	
11/18/2024	4,018	2.8	2,870	2.0	68	0.0	6,956	4.8	0.00	
11/19/2024	3,980	2.8	2,842	2.0	68	0.0	6,890	4.8	0.03	
11/20/2024	3,997	2.8	2,839	2.0	63	0.0	6,899	4.8	0.46	
11/21/2024	4,003	2.8	2,879	2.0	54	0.0	6,936	4.8	0.12	

Appendix D
SPBA Groundwater Extraction System Pumping Data
Former York Naval Ordnance Plant - York, PA

Date	CW-21		CW-22		CW-23		Total SPBA System		Precipitation (Inches)	Comments
	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)	Gallons Pumped Per Day	Average Daily Pumping Rate (gpm)		
11/22/2024	4,033	2.8	2,907	2.0	44	0.0	6,984	4.9	0.31	
11/23/2024	3,982	2.8	2,913	2.0	87	0.1	6,982	4.8	0.00	
11/24/2024	3,986	2.8	2,925	2.0	73	0.1	6,984	4.9	0.00	
11/25/2024	1,431	1.0	2,513	1.7	95	0.1	4,039	2.8	0.00	SPBA Shutdown for Piping Repairs. CW-21 (15.4 hrs) CW-22 (3 hrs) CW-23 (3 hrs)
11/26/2024	0	0.0	2,691	1.9	31	0.0	2,722	1.9	0.12	SPBA Shutdown for Piping Repairs. CW-21 (23.9 hrs)
11/27/2024	3,900	2.7	2,662	1.8	33	0.0	6,595	4.6	0.00	SPBA Shutdown for Piping Repairs. CW-21 (9.7 hrs) CW-22 (0.1)
11/28/2024	5,195	3.6	2,477	1.7	30	0.0	7,702	5.3	0.69	
11/29/2024	4,683	3.3	2,395	1.7	40	0.0	7,118	4.9	0.00	
11/30/2024	4,519	3.1	2,363	1.6	34	0.0	6,916	4.8	0.00	
12/1/2024	4,449	3.1	2,362	1.6	27	0.0	6,838	4.7	0.00	
12/2/2024	4,387	3.0	2,351	1.6	28	0.0	6,766	4.7	0.00	
12/3/2024	4,341	3.0	2,337	1.6	26	0.0	6,704	4.7	0.00	
12/4/2024	4,364	3.0	2,351	1.6	26	0.0	6,741	4.7	0.00	
12/5/2024	4,324	3.0	2,344	1.6	36	0.0	6,704	4.7	0.01	
12/6/2024	4,225	2.9	2,305	1.6	18	0.0	6,548	4.5	0.00	
12/7/2024	4,239	2.9	2,299	1.6	22	0.0	6,560	4.6	0.00	
12/8/2024	4,251	3.0	2,290	1.6	36	0.0	6,577	4.6	0.00	
12/9/2024	4,207	2.9	2,279	1.6	36	0.0	6,522	4.5	0.26	
12/10/2024	4,189	2.9	2,282	1.6	32	0.0	6,503	4.5	0.11	
12/11/2024	4,226	2.9	2,338	1.6	30	0.0	6,594	4.6	1.50	
12/12/2024	4,170	2.9	2,433	1.7	26	0.0	6,629	4.6	0.00	
12/13/2024	4,200	2.9	2,436	1.7	19	0.0	6,655	4.6	0.00	
12/14/2024	4,245	2.9	2,429	1.7	18	0.0	6,692	4.6	0.00	
12/15/2024	4,308	3.0	2,421	1.7	25	0.0	6,754	4.7	0.24	
12/16/2024	4,352	3.0	2,442	1.7	25	0.0	6,819	4.7	0.21	
12/17/2024	4,342	3.0	2,444	1.7	41	0.0	6,827	4.7	0.00	
12/18/2024	4,335	3.0	2,435	1.7	45	0.0	6,815	4.7	0.16	
12/19/2024	4,300	3.0	2,428	1.7	20	0.0	6,748	4.7	0.00	
12/20/2024	4,350	3.0	2,427	1.7	25	0.0	6,802	4.7	0.09	
12/21/2024	4,288	3.0	2,412	1.7	24	0.0	6,724	4.7	0.00	
12/22/2024	4,247	2.9	2,386	1.7	33	0.0	6,666	4.6	0.00	
12/23/2024	4,272	3.0	2,367	1.6	33	0.0	6,672	4.6	0.00	
12/24/2024	4,306	3.0	2,373	1.6	38	0.0	6,717	4.7	0.00	
12/25/2024	4,254	3.0	2,344	1.6	28	0.0	6,626	4.6	0.00	
12/26/2024	4,255	3.0	2,345	1.6	29	0.0	6,629	4.6	0.00	
12/27/2024	4,247	2.9	2,331	1.6	43	0.0	6,621	4.6	0.04	
12/28/2024	4,261	3.0	2,349	1.6	38	0.0	6,648	4.6	0.29	
12/29/2024	4,059	2.8	2,343	1.6	70	0.0	6,472	4.5	0.09	EQ Tank High Level Alarm and Blower Fuse Replacement. CW-21 (1.9 hrs) CW-22 (1.9 hrs) CW-23 (2.1hrs)
12/30/2024	4,238	2.9	2,429	1.7	37	0.0	6,704	4.7	0.00	
12/31/2024	4,199	2.9	2,391	1.7	37	0.0	6,627	4.6	0.19	
Total Gallons Pumped and Average Daily Pumping Rate	CW-21		CW-22		CW-23		Total SPBA System		Total Precipitation	
	Gallons	gpm	Gallons	gpm	Gallons	gpm	Gallons		Inches	
2018 (10/31 - 12/31)	405,701	4.5	158,442	1.8	116,057	1.3	680,200	7.6	10.7	
2019	2,218,916	4.2	897,077	1.7	436,090	0.8	3,552,083	6.8	41.5	
2020	2,104,139	4.0	952,901	1.8	363,552	0.7	3,420,592	6.5	40.5	
2021	2,079,135	4.0	1,003,439	1.9	382,644	0.7	3,465,218	6.6	40.3	
2022	1,987,402	3.8	954,267	1.8	330,241	0.6	3,271,910	6.2	35.0	
2023	1,897,019	3.6	952,223	1.8	210,971	0.4	3,060,213	5.8	29.1	
2024	1,890,138	3.6	990,422	1.9	278,762	0.5	3,159,322	6.0	31.2	
10/31/18 to 12/31/24	12,582,450	3.9	5,908,771	1.8	2,118,317	0.7	20,609,538	6.3	228.2	