



2017 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

BYPRODUCT STORAGE AREA B ST. JOHNS RIVER POWER PARK JACKSONVILLE, FLORIDA

Prepared for: JEA/SJRPP

Submitted to: JEA

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January 30, 2018

15-26356.2







January 30, 2018

Mr. Matthew R. McClure, PE, Environmental Services JEA 21 West Church Street Jacksonville, FL 32202

RE: 2017 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT BYPRODUCT STORAGE AREA B

ST. JOHNS RIVER POWER PARK JACKSONVILLE, FLORIDA

Dear Mr. McClure:

Golder Associates Inc. (Golder) is providing JEA with this 2017 Annual Groundwater Monitoring and Corrective Action Report for Byproduct Storage Area B at the St. Johns River Power Park in Jacksonville, Florida. Pursuant to the Coal Combustion Residual (CCR) Rule¹, this Annual Report documents the activities performed to establish the coal combustion residual (CCR) groundwater monitoring program and actions through the 2017 calendar year as required by §257.90(e).

Golder appreciates the opportunity to assist JEA with this project. Should you have any questions or need any additional information, please do not hesitate to contact us.

Sincerely,

GOLDER ASSOCIATES INC.

Samuel F. Stafford, PE Senior Project Engineer Gregory M. Powell, PhD, PE Practice Leader and Principal

¹ 40 Code of Federal Regulations Part 257 (40 CFR 257), Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, Published in Federal Register/ Vol 80, No. 74, April 17, 2015.



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1.0 INTRODUCTION

Pursuant to the Coal Combustion Residual (CCR) Rule², this Annual Groundwater Monitoring and Corrective Action report has been prepared for the Byproduct Storage Area B (Area B) at the St. Johns River Power Park (SJRPP) on behalf of JEA. This Annual Report has been prepared to meet the requirements of §257.90(e).

1.1 Site Information and Background

The SJRPP facility is located at 11201 New Berlin Road in Jacksonville, Florida. A site location map is provided as **Figure 1**. SJRPP consists of two coal fired steam-electric generation units and associated facilities and is slated for decommissioning in 2018. The primary CCRs generated at SJRPP include fly ash, bottom ash, and synthetic gypsum, a flue gas desulfurization product. Phase I of Area B encompasses approximately 30 acres in the northeast portion of the SJRPP. Area B Phase I is an active unlined landfill cell receiving residual CCR that are not sold for off-site beneficial use.

1.2 Site Hydrogeology

The main hydrogeologic units at Area B are an unconfined surficial aquifer system and the Floridan aquifer system (Golder, 2007 and Geosyntec, 2013). The surficial aquifer system, which is the uppermost water-bearing unit at Area B, is subdivided into three zones: 1) upper, 2) intermediate, and 3) deep zones. The underlying Hawthorn Group (generally encountered at about 98 to 106 feet below ground surface at Area B) consists of low-permeability sediments (i.e., silty clays, clayey silts, and sandy clays) that are confining units for the deeper Floridan aquifer. The upper zone of the surficial aquifer is the most transmissive zone of the surficial aquifer (Golder, 2007). The prevailing directions of groundwater flow in the upper zone of the surficial aquifer are generally from the northwest to east with southeastern components of flow. The groundwater flow velocity is approximately 17 feet/year. The average hydraulic conductivity, of the upper zone of the surficial aquifer, determined from slug tests of monitoring wells, is approximately 5 feet/day.

1.3 CCR Groundwater Monitoring Network

The CCR Rule requires an owner or operator of a CCR unit to install a groundwater monitoring system that consists of a sufficient number of wells, installed at appropriate locations and depths, to yield groundwater samples from the uppermost aquifer (§257.91). The CCR groundwater monitoring network for the Area B at SJRPP consists of three background monitoring wells (CCR-1, CCR-2, and CCR-3) and four downgradient monitoring wells (CCR-4, CCR-5, CCR-6 and CCR-7). Background and downgradient monitoring wells have been installed with screen intervals in the upper zone of the surficial aquifer (total depth of approximately 20 feet below ground surface). The background wells (CCR-1, CCR-2 and CCR-3)

² 40 Code of Federal Regulations Part 257 (40 CFR 257), Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, Published in Federal Register / Vol. 80, No. 74, April 17, 2015.





are located such that they represent background groundwater quality that has not been affected by a CCR unit and represent groundwater quality in the same zone as the downgradient monitoring wells. Downgradient monitoring wells (CCR-4 through CCR-7) have been installed as close as practical to the waste boundary to accurately represent the quality of groundwater passing the waste boundary. The monitoring wells have been encased in a manner that maintains the integrity of the monitoring well borehole. CCR groundwater monitoring well locations (CCR-1 through CCR-7) are shown on **Figure 2** and monitoring well construction data are provided in **Table 1**.





2.0 CCR GROUNDWATER MONITORING ACTIVITIES

Pursuant to §257.90(e), the following sections describe the groundwater monitoring activities performed during the preceding calendar year. As this is the initial annual groundwater report, the following sections also describe groundwater monitoring related activities prior to 2017 related to the CCR groundwater monitoring program at Area B.

2.1 Monitoring Well Installation and Decommissioning

The monitoring wells that comprise the CCR groundwater monitoring well network (CCR-1, CCR-2, CCR-3, CCR-4, CCR-5, CCR-6, and CCR-7) were installed in October 2015 (Golder, 2016). Following installation, the monitoring wells were fitted with dedicated sampling equipment.

Monitoring well CCR-4 has exhibited turbidity issues even after numerous attempts to redevelop the well. In February 2017, replacement well CCR-4R was installed with a smaller screen slot size (0.006-inch) and finer sand filter pack adjacent to CCR-4. Replacement well CCR-4R was sampled three times in the background period and exhibited similar turbidity issues as CCR-4. The analytical results from CCR-4 and CCR-4R did not differ significantly, and the field filtered results from CCR-4R were consistent with unfiltered results; therefore, CCR-4R was abandoned on October 4, 2017.

2.2 Groundwater Sampling Activities

The groundwater sampling activities related to the CCR groundwater monitoring program for Area B that occurred during 2017 and preceding years are described in the sections below.

2.2.1 Background Monitoring

Background monitoring (the collection of a minimum of eight independent samples prior to October 2017) began in November 2015 and was completed in June 2017. During that time, groundwater samples were collected on a bimonthly basis (once every two months) and analyzed for Appendix III and Appendix IV constituents pursuant to §257.94(b). During the background sampling events, background and downgradient wells were sampled in accordance with the procedures presented in the Groundwater Sampling Methodology and Analytical Procedures Technical Memorandum (Golder, 2015). Samples collected during the background events were analyzed by the NELAP certified JEA Springfield Laboratory in Jacksonville, Florida. Background laboratory analytical data is summarized in Tables A-1 to A-11 and included in **Appendix A**. A summary of the background sampling events is presented in the table below:

Monitoring Event	Sample Date
Background Event #1	11/30/215
Background Event #2	1/21/2016
Background Event #3	2/25/2016
Background Event #4	3/23/2016



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Background Event #5	5/25/2016
Background Event #6	7/27/2016
Background Event #7	9/20/2016
Background Event #8	11/8/2016
Background Event #9	2/21/2017
Background Event #10	4/18/2017
Background Event #11	6/22/2017

2.2.2 Detection Monitoring

The initial detection monitoring samples were collected by SJRPP personnel on October 11, 2017. All seven CCR groundwater monitoring wells were sampled and analyzed for Appendix III parameters. Verification samples were collected by SJRPP personnel on December 13-14, 2017 from monitoring wells CCR-4, CCR-5, CCR-6, and CCR-7. Detection monitoring laboratory analytical data is summarized in Tables A-12 and A-13 and included in **Appendix A**.

2.3 Groundwater Sampling Methodology

CCR groundwater sampling at Area B was performed in accordance with §257.93(a). The monitoring wells were purged and sampled using low-flow sampling techniques. Prior to purging, the depth to water level was measured for each well using an electronic water level indicator. The monitoring wells were purged and sampled using dedicated low-flow pneumatic bladder pumps. Calibrated water quality meters were used to monitor field stabilization parameters including, pH specific conductance, temperature, dissolved oxygen, oxygen reduction potential and turbidity. After the water quality parameters stabilized, groundwater samples were collected and placed into iced coolers under chain-of-custody control pending delivery to the laboratory.

Groundwater samples were collected for both Appendix III and Appendix IV parameters during the background monitoring period (November 2015 to June 2017). Groundwater samples collected for detection monitoring were required to be analyzed for Appendix III parameters only. Following sample collection, the samples were delivered to the JEA Springfield laboratory for analysis. The JEA laboratory sent samples to Pace Analytical Services, LLC for analysis of chloride, fluoride, lithium, radium-226 and radium-228.





3.0 CCR GROUNDWATER DATA EVALUATION

3.1 Groundwater Flow Rate and Direction

Groundwater elevation measurements were recorded for the CCR groundwater monitoring network during each sampling event at Area B. A summary of the groundwater elevations recorded for the background and detection monitoring events is provided in **Table 2**. Groundwater elevation data was used to develop a potentiometric surface map for the initial detection monitoring event in October 2017 (**Figure 3**). The hydraulic gradient (direction and magnitude) for each sampling event was calculated using the least-squares method of fitting the data to a plane. The average hydraulic gradient was 0.0018 feet per feet with an average eastward direction. A summary of the hydraulic gradients for each sampling event is provided in **Table 2**.

3.2 Statistical Analysis

Statistical analysis of the Appendix III groundwater monitoring data is described in the sections below. A statistical analysis of Appendix IV data has not been performed since the facility is still in the detection monitoring program.

3.2.1 Background Statistical Analysis

Appendix III groundwater quality data was evaluated using the interwell prediction limit approach with retesting as outlined in the Statistical Analysis Plan (Golder, 2017). The initial presumption under detection monitoring is that the facility is not contributing a release to groundwater, unless the data demonstrates otherwise (USEPA, 2009). Therefore, the downgradient groundwater quality is initially assumed to be equivalent to, or no worse than, background groundwater quality (i.e. null hypothesis). If the background groundwater data for a particular constituent could not be pooled, the background monitoring well that predicted the highest limit (or lowest limit for pH) was selected to establish the prediction limit for that constituent. Data from detection monitoring events were compared to the prediction limits to determine if statistically significant increases over background levels had occurred. Golder also performed the data evaluation outlined in the Statistical Analysis Plan to process non-detect data, evaluate outliers, trend evaluation, and normality evaluation. Appendix III background sampling results from the background monitoring wells is shown in **Table 2**. Statistical analysis worksheets are provided in **Appendix B**.

3.2.1.1 Boron

The prediction limit for boron was established based on the groundwater data from the background wells (CCR-1, CCR-2, and CCR-3). Background boron results from these background wells did not exhibit significant spatial variability and were therefore pooled to calculate the prediction limit. There was one outlier identified in the dataset, however; there was no further justification for its removal from the dataset and the data fit a lognormal distribution. Therefore, the outlier was not removed from the dataset. The data evaluation summary for and calculated background concentration limit for boron is shown below:





Background Basis:	CCR-1, CCR-2, & CCR-3
Non-Detect Percentage:	0%
Outlier:	Yes, 667.75 micrograms per liter (µg/L)
Distribution:	Lognormal
Mean (log-mean):	122.9 μg/L (4.503)
Standard Deviation (log- standard deviation):	118.5 μg/L (0.800)
k (w=4, n=33)	1.86
Upper Prediction Limit:	400 μg/L

3.2.1.2 <u>Calcium</u>

The prediction limit for calcium was established based on the pooled groundwater data from the background wells (CCR-1, CCR-2, and CCR-3). Background calcium results from these background wells did not exhibit significant spatial variability and were therefore pooled to calculate the prediction limit. There was one upper outlier identified in the dataset; however, there was no further justification for its removal from the dataset and the data fit a lognormal distribution. Therefore, the outlier was not removed from the dataset. The calcium data evaluation summary and calculated background concentration limit for calcium is shown below:

Background Basis:	CCR-1, CCR-2, & CCR-3
Non-Detect Percentage:	0%
Outlier:	Yes, 14632 μg/L
Distribution:	Lognormal
Mean (log-mean):	3866 μg/L (8.158)
Standard Deviation (log-standard deviation):	2254 μg/L (0.424)
k (w=4, n=33)	1.86
Upper Prediction Limit:	7681 μg/L

3.2.1.3 Chloride

The prediction limit for chloride was established based on the groundwater data from CCR-1. Background chloride results from CCR-1, CCR-2, and CCR-3 exhibited significant spatial variability and were therefore unable to be pooled into a single dataset. The chloride data evaluation summary for CCR-1 and calculated background concentration limit for chloride is shown below:

Background Basis:	CCR-1
Non-Detect Percentage:	0%
Trend:	Yes, Negative
Outlier:	No
Distribution:	Normal
Mean:	25.6 milligrams per liter (mg/L)
Standard Deviation:	4.0 mg/L
k (w=4, n=11)	2.26
Upper Prediction Limit:	34.7 mg/L





3.2.1.4 Fluoride

The prediction limit for boron was established based on the pooled groundwater data from the background wells (CCR-1, CCR-2, and CCR-3). Background fluoride results from the background wells did not exhibit significant spatial variability and were therefore pooled to calculate the prediction limit. There was one upper outlier identified in the dataset, however, there was no further justification for its removal from the dataset and the data fit a lognormal distribution. Therefore, the outlier was not removed from the dataset. The fluoride data evaluation summary and calculated background concentration limit for fluoride is shown below:

Background Basis:	CCR-1, CCR-2, & CCR-3
Non-Detect Percentage:	0%
Outlier:	Yes, 0.041 mg/L (I value)
Distribution:	Lognormal
Mean (log-mean):	0.062 mg/L (-2.798)
Standard Deviation (log-standard deviation):	0.02 mg/L (0.215)
k (w=4, n=33)	1.86
Upper Prediction Limit:	0.09 mg/L

3.2.1.5 pH

The prediction limits for pH were based on the groundwater data from CCR-1 (upper prediction limit) and CCR-3 (lower prediction limit). Background pH results from CCR-1, CCR-2, and CCR-3 exhibited significant spatial variability and were therefore unable to be pooled into a single dataset. The pH data evaluation summary for CCR-2 and calculated background concentration limit for chloride is shown below:

Background Basis:	CCR-1	CCR-3
Non-Detect Percentage:	0%	0%
Outlier:	Yes, 4.60	No
Trend:	No	No
Distribution:	Normal	Normal
Mean:	4.95 S.U.	4.41 S.U.
Standard Deviation:	0.13 S.U.	0.12 S.U.
k (w=4, n=11)	2.26	2.26
Lower Prediction Limit		4.14 S.U.
Upper Prediction Limit:	5.26 S.U.	

Notes: S.U. - Standard Units

3.2.1.6 Sulfate

The prediction limit for sulfate was established based on the groundwater data from CCR-2 and CCR-3. The background sulfate results from CCR-1 contained a significant number of non-detects, and the data from CCR-2 and CCR-3 did not exhibit significant spatial variability. The distribution for the pooled dataset from CCR-2 and CCR-3 was approximately lognormal. The sulfate data evaluation summary and background concentration limit for sulfate are shown in the table below:



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Background Basis:	CCR-2 + CCR-3
Non-Detect Percentage:	0%
Outlier:	No
Distribution:	Lognormal
Mean (log-mean):	36.5 mg/L (3.543)
Standard Deviation (log-standard deviation):	13.1 mg/L (0.328)
k (w=4, n=22)	1.95
Upper Prediction Limit:	65.6 mg/L

Total Dissolved Solids 3.2.1.7

The prediction limit for total dissolved solids was established based on the groundwater data from the background wells (CCR-1, CCR-2, and CCR-3). Total dissolved solids results from these background wells did not exhibit significant spatial variability and were therefore pooled to calculate the prediction limit. There was one upper outlier identified in the dataset, however; there was no further justification for its removal from the dataset and the data fit a lognormal distribution. Therefore, the outlier was not removed from the dataset. The total dissolved solids data evaluation summary and background concentration limits for total dissolved solids are shown in the table below:

Background Basis:	CCR-1, CCR-2, CCR-3
Non-Detect Percentage:	0%
Outlier:	Yes, 320 mg/L
Distribution:	Lognormal
Mean (log-mean):	118 mg/L (4.720)
Standard Deviation (log-standard deviation):	44.6 mg/L (0.296)
k (w=4, n=33)	1.86
Upper Prediction Limit:	195 mg/L

3.2.2 Initial Detection Monitoring Statistical Analysis

The purpose of the detection monitoring program is to determine if there is a SSI relative to background concentrations of any Appendix III parameter at any downgradient monitoring well. SJRPP collected the initial detection monitoring samples on October 11, 2017. The results of the initial detection monitoring event are shown in Table 3. Golder reviewed the results of the initial detection monitoring event and identified potential SSIs for the following wells and parameters:

- CCR-4: Boron, Calcium, Chloride, Fluoride, Sulfate, Total Dissolved Solids
- CCR-5: Boron, Calcium, Chloride, Fluoride, Sulfate, Total Dissolved Solids
- CCR-6: Boron, Calcium, Chloride, Sulfate, Total Dissolved Solids
- CCR-7: Boron, Calcium, Chloride, Fluoride, Sulfate, Total Dissolved Solids

If the initial groundwater result exceeds the established background concentration (i.e. prediction limit), verification sampling is warranted. Verification sampling was performed on December 13-14, 2017. The results of the verification sampling are shown in Table 3. Pursuant to the Statistical Analysis Plan, if a





verification sample result exceeds the prediction limit, an SSI is confirmed. The SSI evaluation is summarized in the table below:

Constituent	Background Limit	Monitoring Wells – Verified SSIs
Boron	400 μg/L	CCR-4, CCR-5, CCR-6, CCR-7
Calcium	7681 µg/L	CCR-4, CCR-5, CCR-6, CCR-7
Chloride	34.7 mg/L	CCR-4, CCR-5, CCR-6, CCR-7
Fluoride	0.09 mg/L	CCR-4, CCR-5
рН	4.14 / 5.26 S.U.	none
Sulfate	65.6 mg/L	CCR-4, CCR-6, CCR-7
Total Dissolved Solids	195 mg/L	CCR-4, CCR-5, CCR-6, CCR-7





4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the evaluations presented herein, Golder recommends conducting an alternate source demonstration or transitioning to assessment monitoring in accordance with §257.94(e). Based on the SSI determination date of January 15, 2018, initiation of assessment monitoring would be required no later than April 15, 2018 and notification that an assessment monitoring program has been established would be required no later than May 15, 2018.





5.0 REFERENCES

- Geosyntec Consultants. 2013. Industrial Wastewater and Solid Waste Groundwater Monitoring Plans, Revision 4, St. Johns River Power Park, Jacksonville Florida, dated June 2013.
- Golder. 2015. Technical Memorandum, Groundwater Sampling Methodology and Analytical Procedures, CCR Groundwater Monitoring Plan, Byproduct Storage Area B, St. Johns River Power Park, dated December 14, 2015.
- Golder. 2016. Monitoring Well Installation Report, CCR Rule Compliance Support, Byproduct Storage Area B Phase I, St. Johns River Power Park, Jacksonville, Florida, dated February 4, 2016.
- Golder. 2017b. CCR Groundwater Monitoring Network Certification, Byproduct Storage Area B, Phase I Development, St. Johns River Power Park, Jacksonville, Florida, dated October 13, 2017.
- Golder. 2017b. Statistical Analysis Plan, CCR Groundwater Monitoring, St. Johns River Power Park, Jacksonville, Florida, dated October 2017.
- JEA. 2007. JEA SJRPP Byproduct Storage Area B, dated April 19, 2007. [This document includes as an attachment a report prepared by Golder in April 2007, Hydrogeologic and Geotechnical Site Evaluation, St. Johns River Power Park Area B By-product Storage Area, Duval County, Florida (Golder 2007)]
- USEPA, 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance. EPA 350/R-09-007, dated March 2009.

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TABLE 1 SUMMARY OF CCR MONITORING WELL CONSTRUCTION DETAILS

Byproduct Storage Area B - St. Johns River Power Park

Well ID	Date Installed	Northing (ft NAD83)	Easting (ft NAD83)	Ground Surface Elevation (ft NAVD88)	TOC Elevation (ft NAVD88)	Stick-up Height (feet)	Well Depth (ft bgs)	Screen Interval Depth (ft bgs)
CCR-1	10/20/2015	2221016.34	485450.08	13.37	16.58	3.2	19.79	9.79-19.79
CCR-2	10/20/2015	2222219.71	485292.98	14.45	18.06	3.6	19.49	9.49-19.49
CCR-3	10/20/2015	2222897.83	485087.81	14.22	17.74	3.5	19.78	9.78-19.78
CCR-4	10/21/2015	2221065.31	486365.39	17.87	20.73	2.9	20.84	10.84-20.84
CCR-5	10/21/2015	2221064.27	486865.44	15.44	18.29	2.9	20.35	10.35-20.35
CCR-6	10/21/2015	2221455.96	487055.81	13.07	16.07	3.0	20.10	10.1-20.1
CCR-7	10/22/2015	2221887.42	487053.83	12.44	15.72	3.3	20.12	10.12-20.12

Notes:

TOC - Top of Casing

ft bgs - feet below ground surface

ft TOC - feet below top of casing

NAD83 - Horizontal Control: North American Datum, State Plan Coordinate System Florida, East Zone

NAVD88 - Vertical Control: North American Vertical Datum of 1988



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TABLE 2 SUMMARY OF GROUNDWATER ELEVATION MEASUREMENTS

Byproduct Storage Area B - St. Johns River Power Park

				Gre	oundwate	Elevation	n (ft NAVD	88)			
Well ID	11/30/2015	1/21/2016	2/23/2016	3/23/2016	5/25/2016	7/27/2016	9/20/2016	11/8/2016	4/18/2017	6/22/2017	10/11/2017
CCR-1	11.9	11.5	11.7	10.9	11.1	9.1	7.7	11.3	9.9	11.4	11.9
CCR-2	13.4	12.2	12.4	11.8	11.5	9.8	6.3	12.2	10.5	11.6	13.0
CCR-3	12.7	12.3	12.4	11.4	11.7	9.5	6.6	12.1	10.2	11.9	12.8
CCR-4	11.9	11.1	11.4	10.4	10.4	8.5	2.6	10.5	9.1	10.9	12.0
CCR-5	9.6	9.2	9.5	8.6	8.5	6.6	4.2	8.6	7.2	9.5	9.8
CCR-6	9.2	8.7	8.9	8.2	8.0	6.4	5.9	8.3	6.8	8.1	9.2
CCR-7	9.3	8.8	8.9	8.2	8.2	6.5	6.8	8.8	7.0	8.4	9.3
Hydraulic Gradient (ft/ft)	1.94E-03	1.85E-03	1.87E-03	1.83E-03	1.93E-03	1.77E-03	8.66E-04	1.87E-03	1.94E-03	1.95E-03	1.87E-03
Flow Direction (degrees from N)	85.41	84.75	81.86	82.90	83.12	83.41	148.58	90.89	81.66	76.27	83.74
Coefficient of Determination	0.87	0.93	0.92	0.93	0.95	0.94	0.21	0.95	0.95	0.92	0.88

Notes:

Hydraulic Gradient calculated using the least squares method of fitting data to a plane

ft/ft = feet per foot

degrees from N = degrees from north in clockwise direction

NAVD88 - Vertical Control: North American Vertical Datum of 1988



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TABLE 3 APPENDIX III BACKGROUND SAMPLING RESULTS BACKGROUND MONITORING WELLS

Byproduct Storage Area B - St. Johns River Power Park

Monitoring Well	Sampling Date	Boron ug/L	Calcium ug/L	Chloride mg/L	Fluoride mg/L	pH SU	Sulfate mg/L	Total Dissolved Solids mg/L
CCR-1	11/30/2015	18.3	3063.4	31.6	0.056	5	2.5 U	106
	1/21/2016	26.7	3019	29.2	0.076	5.06	2.5 U	121
	2/23/2016	20.6	2800.1	29.5	0.057	4.95	2.5 U	120
	3/23/2016	18.3	2811	29.6	0.054	5.1	2.5 U	164
	5/25/2016	108.52	2812.9	25.4	0.054	4.89	6.3	94
	7/27/2016	43.8 I	2630	25.7	0.053	4.91	2.5 U	76
	9/20/2016	124	4220	22.6	0.067	4.91	27.3	126
	11/8/2016	35.2	2213.2	24.6	0.069	5.04	2.5 U	80
	2/22/2017	48.3	2243	22.6	0.065	4.99	2.8 l	79
	4/18/2017	57	2413.1	22.4	0.067	5.02	3.6 l	93
	6/22/2017	667.75	14632	18.3	0.14	4.6	169	320
CCR-2	11/30/2015	83.5	3684.2	22	0.052	5.04	23.7	137
	1/21/2016	88.5	2251.6	20.2	0.058	4.91	24.9	134
	2/23/2016	86.9	2067.7	21.3	0.051	4.79	25.4	141
	3/23/2016	89.7	2118	21.4	0.045 l	4.81	26.2	100
	5/25/2016	121.22	2193.8	21	0.05	4.59	26.4	107
	7/27/2016	151	1870	19.7	0.051	4.74	24.3	98
	9/20/2016	183	2660	19	0.066	4.47	28	113
	11/8/2016	193.98	2402.6	19.2	0.069	4.68	37.4	122
	2/22/2017	260.15	4020	17.5	0.065	4.7	61.9	143
	4/18/2017	274.5	4713.8	16.7	0.071	4.82	64.7	151
	6/22/2017	258.73	4414.5	16.6	0.078	4.59	61.7	148
CCR-3	11/30/2015	85.3	4139.9	11.7	0.053	4.45	31.8	87
	1/21/2016	78.3	4651.8	10.6	0.056	4.45	24.3	88
	2/23/2016	83.9	4440.7	11.8	0.053	4.36	30.7	118
	3/23/2016	105.08	4062	13.7	0.062	4.55	45.2	164
	5/25/2016	99.9	4552.4	12.3	0.059	4.47	35.5	81
	7/27/2016	146	4260	13.4	0.074	4.25	51.1	108
	9/20/2016	89.6	4740	11.2	0.067	4.53	34	88
	11/8/2016	122.38	5130.4	11.6	0.072	4.44	42.5	92
	2/22/2017	131.15	5773.1	11.1	0.06	4.23	43.5	109
	4/18/2017	92.6	5914.4	10.1	0.051	4.5	32.5	78
	6/22/2017	60.8	4656.5	10	0.041 l	4.25	27.5	90

Notes:

ug/L - mircrograms per liter

mg/L - milligrams per liter

SU - Standard Units

U - Result less than the method detection limit

I - Reported value is between the method detection limit and practical quantificaiton limit



January 2018 15-23356.2

TABLE 4 DETECTION MONITORING ANALYTICAL RESULTS

Byproduct Storage Area B - St. Johns River Power Park

Monitoring Well	Sampling Date	Boron ug/L	Calcium ug/L	Chloride mg/L	Fluoride mg/L	pH SU	Sulfate mg/L	Total Dissolved Solids mg/L
CCR-1	10/11/2017	89.9	2659.6	22.0	0.063	4.71	10.2	90
CCR-2	10/11/2017	399.66	6245.2	17.5	0.089	4.26	86.0	193
CCR-3	10/11/2017	86.0	5591.8	8.1	0.053	4.05	31.1	78
CCR-4	10/11/2017	22143	399300	77.4	0.51	5.15	1290	2412
CCR-4	12/13/2017	21452	420710	65.8	0.40		1320	2240
CCR-5	10/11/2017	2316.6	18947	189	0.11	4.29	98.3	490
CCR-5	12/13/2017	2075.7	15387	178	0.12		49.6	426
CCR-6	10/11/2017	25155	287730	122	0.17 U	4.73	1690	2753
CCR-0	12/14/2017	24132	290760	111			1700	2646
CCR-7	10/11/2017	17099	134130	145	0.10	4.25	1150	2022
CCR-7	12/14/2017	19904	154870	135	0.17 U		1350	2196

Notes: ug/L - mircrograms per liter

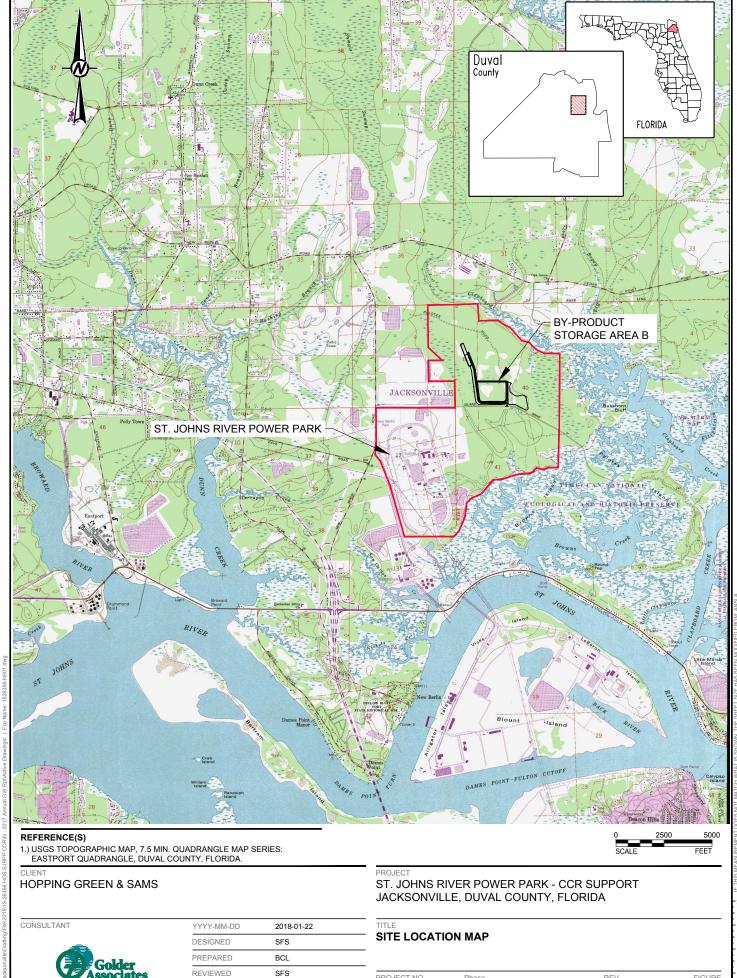
mg/L - milligrams per liter SU - Standard Units

U - Result less than the method detection limit

I - Reported value is between the method detection limit and practical quantificaiton limit







PROJECT NO. 15-26356.2

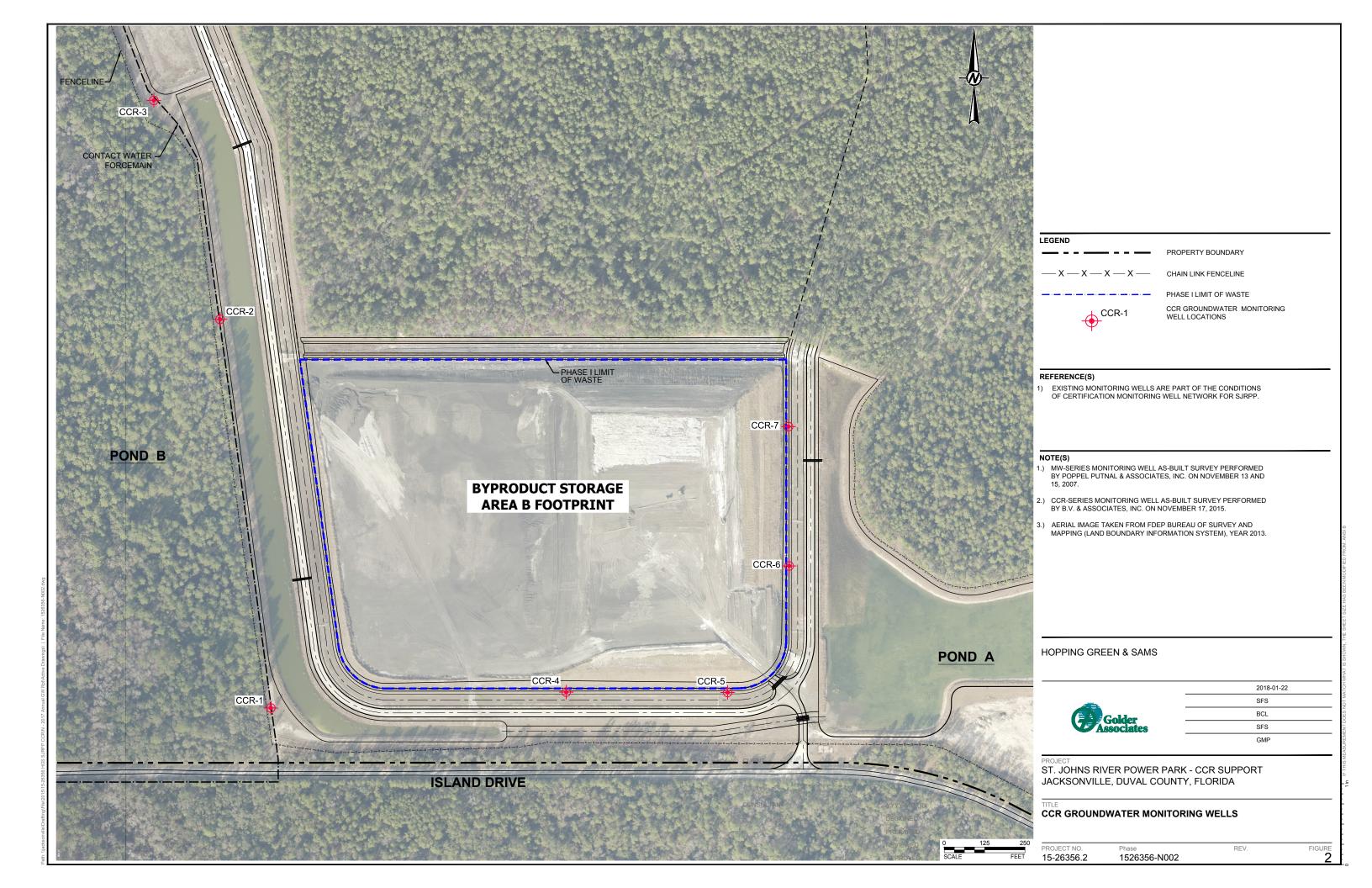
APPROVED

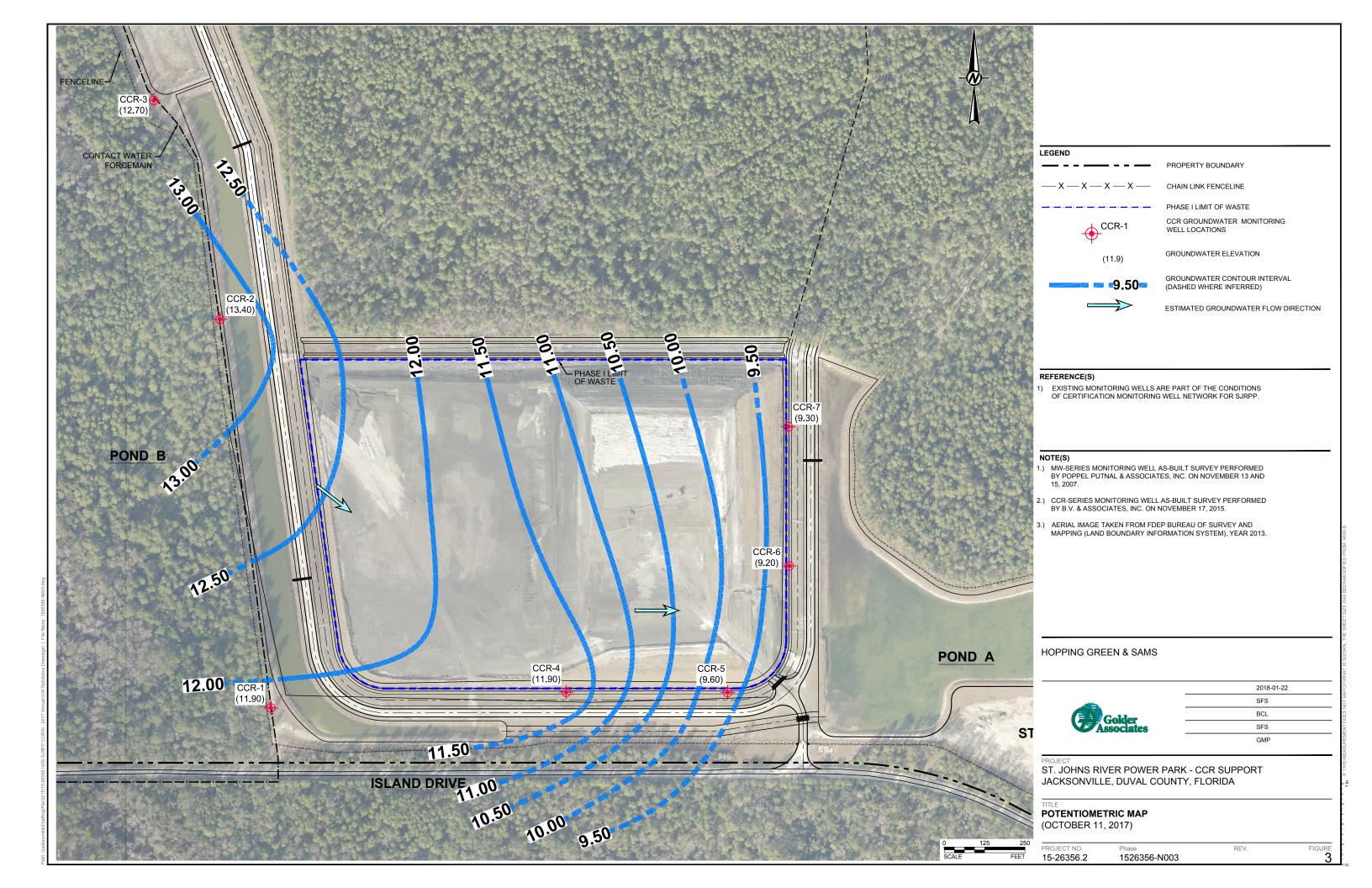
GMP

Phase 1526356-N001

REV.

FIGURE





APPENDIX A LABORATORY ANALYTICAL RESULTS

TABLE A-1 - NOVEMBER 2015 BACKGROUND SAMPLING LABORATORY ANALYTICAL RESULTS

SJRPP Sample ID	Sample Date	Barium (ug/L)	Beryllium (ug/L)	Boron (ug/L)	Cadmium (ug/L)	Calcium (ug/L)	Chromium (ug/L)	Cobalt (ug/L)	Molybdenum (ug/L)	Antimony (ug/L)	Arsenic (ug/L)	Lead (ug/L)	Selenium (ug/L)	Thallium (ug/L)	Mercury (ug/L)	Chloride (mg/L)	Fluoride (mg/L)	Sulfate (mg/L)	Lithium (ug/L)	Radium-226 (pCi/L)	Radium-228 (pCi/L)	DO (Field) Concentration (mg/L)	Field Turb (NTU)	Reference Elevation (Feet)	Specific Conductance (Field) (umhos/cm)	Temp (Field) (Deg.C)	pH (Field) (S.U.)	Residue, Filterable (TDS) (mg/L)
CCR Well 1	11/30/15	66.3	0.0777 U	18.3	0.144 U	3063.4	0.539 U	0.500 U	0.944 U	0.813 U	2	0.813 U	1.29	0.15	0.00500 U	31.6	0.056	2.5 U	3.3	1.01 ± 0.636 (0.718)	1.30 ± 0.450 (0.630)	0.48	24.4	11.9	150	23.16	5	106
CCR Well 1 DUP	11/30/15	67.5	0.0777 U	18.9	0.144 U	3096.3	0.539 U	0.500 U	0.944 U	0.813 U	1.39 U	0.813 U	1.39	0.113 U	0.00500 U	31.6	0.056	2.5 U	2.6	0.862U ± 0.585 (0.862)	0.678U ± 0.348 (0.678)	0.39	11	11.9	150	23.22	4.97	103
CCR Well 2	11/30/15	121	0.0777 U	83.5	0.144 U	3684.2	7.39	1.12	0.944 U	0.813 U	4.12	3.58	1.46	0.135	0.0127	22	0.052	23.7	5.7	1.71 ± 0.792 (0.600)	0.675U ± 0.364 (0.675)	0.34	219	13.4	182	23.02	5.04	137
CCR Well 3	11/30/15	73.2	0.0777 U	85.3	0.144 U	4139.9	2.1	0.500 U	0.944 U	0.813 U	5.25	1.37	1.16	0.113 U	0.00500 U	11.7	0.053	31.8	1.7	1.38 ± 0.783 (0.921)	1.28 ± 0.486 (0.741)	0.56	17.5	12.7	146	22.52	4.45	87
CCR Well 4	11/30/15	56.2	0.0777 U	21526	0.153	389910	2.95	1.5	1.67	0.813 U	11.9	1.02	7.05	0.113 U	0.00500 U	50.5	0.57	1550	6.7	1.52 ± 0.753 (0.708)	1.70 ± 0.507 (0.600)	0.25	605	11.9	2776	23.48	4.76	2609
CCR Well 5	11/30/15	62.9	0.0777 U	12702	0.815	87113	3.01	0.500 U	0.944 U	0.813 U	4.11	2.12	21.9	0.113 U	0.0146	169	0.38	663	6.1	1.10 ± 0.606 (0.540)	1.95 ± 0.575 (0.736)	0.2	79.7	9.6	1919	23.19	4.83	1420
CCR Well 6	11/30/15	47	0.0777 U	62248	0.144 U	362750	0.539 U	0.500 U	69	0.813 U	2.51	0.813 U	9.94	0.113 U	0.00500 U	70.5	0.17 U	2320	4.8	4.10 ± 1.25 (0.896)	5.06 ± 1.12 (0.730)	0.35	11.3	9.2	4021	23.24	4.76	3633
CCR Well 7	11/30/15	37.1	0.0777 U	7469	0.144 U	56316	1.88	0.975	0.944 U	0.813 U	1.91	0.813 U	12.1	0.113 U	0.00500 U	80.2	0.1	608	3	1.54 ± 0.816 (0.874)	1.78 ± 0.643 (0.953)	0.24	3.55	9.3	1645	22.96	4.48	1146
CCR Well Field Blank	11/30/15	1.08 U	0.0777 U	0.810 U	0.144 U	8.91 U	0.539 U	0.500 U	0.944 U	0.813 U	1.39 U	0.813 U	0.846 U	0.113 U	0.00500 U													

TABLE A-2 - JANUARY 2016 BACKGROUND SAMPLING LABORATORY ANALYTICAL RESULTS

SJRPP Sample ID	Sample Date	Barium (ug/L)	Beryllium (ug/L)	Boron (ug/L)	Cadmium (ug/L)	Calcium (ug/L)	Chromium (ug/L)	Cobalt (ug/L)	Molybdenum (ug/L)	Antimony (ug/L)	Arsenic (ug/L)	Lead (ug/L)	Selenium (ug/L)	Thallium (ug/L)	Mercury (ug/L)	Chloride (mg/L)	Fluoride (mg/L)	Sulfate (mg/L)	Lithium (ug/L)	Radium-226 (pCi/L)	Radium-228 (pCi/L)	DO (Field) Concentration (mg/L)	(NTU)	Reference Elevation (Feet)	Specific Conductance (Field) (umhos/cm)	Temp (Field) (Deg.C)	pH (Field) (S.U.)	Residue, Filterable (TDS) (mg/L)
CCR Well 1	1/21/16	63.6	1.19	26.7	0.144 U	3019	1.31	0 500 11	0 044 11	N 813 II	1 30 11	0.813 U	4.41	N 113 II	0.00500 U	29	0.076	25 11	12.5 U	0.841U ± 0.405 (0.841)	0.692 ± 0.366 (0.655)	0.4	19	12	1/12	20.9		
CCR Well 2	1/21/16	90	0.641		0.144 U							0.813 U			0.00500 U				12.5 U	0.718 ± 0.525 (0.587)	0.627U ± 0.340 (0.627)	0.4				21.2		
CCR Well 2 DUP	1/21/16	85.7	0.634	85.5	0.144 U	2214.5	0.9					0.813 U			0.00500 U		0.061	25.2	12.5 U	0.816 ± 0.571 (0.688)	0.662U ± 0.352 (0.662)	0.2			173			
CCR Well 3	1/21/16	56.2	0.646	78.3	0.144 U	4651.8	0.686	0.500 U	0.944 U	0.813 U	1.39 U	0.813 U	4.5	0.113 U	0.00500 U	11	0.056	24.3	12.5 U	0.750U ± 0.577 (0.750)	0.907 ± 0.411 (0.693)	1	13	12	125	20.5	4.5	88
CCR Well 4	1/21/16	65.2	0.916	24585	0.144 U	398730	2.11	0.864	1.94	0.813 U	6.37	0.813 U	10.5	0.113 U	0.00500 U	71	0.56	1590	12.5 U	0.964U ± 0.678 (0.964)	1.07 ± 0.449 (0.743)	0.5	361	11	3000	21.6	5.3	2684
CCR Well 5	1/21/16	61.1	0.0777 U	6860	0.144 U	45056	0.991	0.500 U	0.944 U	0.650 U	1.11 U	0.650 U	15.8	0.0900 U	0.00500 U	137	0.32	373	12.5 U	2.68 ± 1.11 (0.927)	0.651U ± 0.332 (0.651)	0.2	17	9.2	1202	22	4.8	891
CCR Well 6	1/21/16	39.5	0.0777 U	42886	0.144 U	306950	0.539 U	0.500 U	72.4	0.813 U	2.21	0.813 U	7.91	0.113 U	0.00500 U	154	0.68 U	2030	12.5 U	5.38 ± 1.50 (0.935)	6.36 ± 1.32 (0.669)	0.2	2.9	8.7	4091	21.8	4.9	3144
CCR Well 7	1/21/16	29.3	0.0777 U	7471	0.144 U	55568	1.06	0.684	0.944 U	0.813 U	2.95	0.813 U	8.18	0.113 U	0.00500 U	85	0.092	644	12.5 U	1.23 ± 0.703 (0.646)	2.37 ± 0.609 (0.575)	0.2	2.8	8.8	1759	21.6	4.5	1159
CCR Well Field Blank	1/21/16	1.08 U	0.0777 U	8.32	0.144 U	15.9	0.539 U	0.500 U	0.944 U	0.813 U	1.39 U	0.813 U	0.846 U	0.113 U	0.00500 U													

TABLE A-3 - FEBRUARY 2016 BACKGROUND SAMPLING LABORATORY ANALYTICAL RESULTS

SJRPP Sample ID	Sample Date	Barium (ug/L)	Beryllium (ug/L)	Boron (ug/L)	Cadmium (ug/L)	Calcium (ug/L)	Chromium (ug/L)	Cobalt (ug/L)	Molybdenum (ug/L)	Antimony (ug/L)	Arsenic (ug/L)	Lead (ug/L)	Selenium (ug/L)	Thallium (ug/L)	Mercury (ug/L)	Chloride (mg/L)	Fluoride (mg/L)	Sulfate (mg/L)	Lithium (ug/L)	Radium-226 (pCi/L)	Radium-228 (pCi/L)	DO (Field) Concentration (mg/L)	Turb	Reference Elevation (Feet)	Specific Conductance (Field) (umhos/cm)	Temp (Field) (Deg.C)	pH (Field) (S.U.)	Residue, Filterable (TDS) (mg/L)
CCR 1	2/23/16	58.8	0.352	20.6	0.144 U	2800.1	0.539 U	0.500 U	0.944 U	0.813 U	1.39 U	0.813 U	0.846 U	0.343	0.00500 U	30	0.057	2.5 U	12.5 U	0.955 ± 0.669 (0.883)	0.695U ± 0.374 (0.695)	1.96	16	12	140	20.6	5	120
CCR 2	2/23/16	93.4	0.173	86.9	0.144 U	2067.7	0.539 U	0.500 U	0.944 U	0.813 U	1.39 U	0.813 U	1.36	0.113 U	0.00500 U	21	0.051	25.4	12.5 U	0.985U ± 0.600 (0.985)	0.696U ± 0.358 (0.696)	0.52	9.8	12	174	20.3	4.8	141
CCR 3	2/23/16	54	0.128	83.9	0.144 U	4440.7	0.539 U	0.500 U	0.944 U	0.813 U	1.39 U	0.813 U	4.78	0.113 U	0.00500 U	12	0.053	30.7	12.5 U	0.959U ± 0.690 (0.959)	0.673U ± 0.287 (0.673)	0.18	10	12	143	20	4.4	118
CCR 3 DUP	2/23/16	60.6	0.112	82.2	0.144 U	4278.5	0.539 U	0.500 U	0.944 U	0.813 U	1.39 U	0.813 U	5.1	0.113 U	0.00500 U	12	0.053	30.9	12.5 U	0.776U ± 0.571 (0.776)	0.729U ± 0.366 (0.729)	0.14	5.6	12	143	20.3	4.4	113
CCR 4	2/25/16	71.3	0.314	26200	0.144 U	437000	0.539 U	0.500 U	2.09	0.813 U	11.1	0.813 U	9	0.113 U	0.00500 U	74	0.2	1590	12.5 U	0.832U ± 0.592 (0.832)	0.849U ± 0.429 (0.849)	0.09	59	11	2985	28.9	5.4	2720
CCR 5	2/23/16	97.2	2.63	6350	1.04	42843	0.539 U	0.500 U	0.944 U	0.813 U	1.39 U	0.813 U	19.4	0.113 U	0.00500 U	145	0.25	354	12.5 U	0.955U ± 0.541 (0.955)	0.811 ± 0.436 (0.781)	0.18	10	9.5	1174	21	4.9	856
CCR 6	2/23/16	41.4	0.364	37500	0.144 U	330000	0.539 U	0.500 U	65.6	0.813 U	1.39 U	0.813 U	9.71	0.113 U	0.00500 U	159	0.068 U	1940	12.5 U	3.90 ± 1.24 (0.919)	4.68 ± 1.05 (0.733)	0.41	1.9	8.9	4095	20.7	5	3325
CCR 7	2/23/16	30.4	0.138	7270	0.144 U	45234	1.22	0.761	0.944 U	0.813 U	1.4	0.813 U	7.96	0.113 U	0.00500 U	92	0.079	642	12.5 U	1.99 ± 0.891 (0.771)	1.08 ± 0.475 (0.780)	0.11	18	8.9	1764	20.9	4.6	1195
Field Blank 1	2/23/16	1.08 U	0.0777 U	0.810 U	0.144 U	8.91 U	0.539 U	0.500 U	0.944 U	0.813 U	1.39 U	0.813 U	4.63	0.113 U	0.00500 U													
Field Blank 2	2/25/16	1.08 U	0.0777 U	33.8	0.144 U	14.9	0.539 U	0.500 U	0.944 U	0.813 U	1.39 U	0.813 U	3.06	0.113 U	0.00500 U													

TABLE A-4- MARCH 2016 BACKGROUND SAMPLING LABORATORY ANALYTICAL RESULTS

SJRPP Sample ID	Sample Date	Barium (ug/L)	Beryllium (ug/L)	Boron (ug/L)	Cadmium (ug/L)	Calcium (ug/L)	Chromium (ug/L)	Cobalt (ug/L)	Molybdenum (ug/L)	Antimony (ug/L)	Arsenic (ug/L)	Lead (ug/L)	Selenium (ug/L)	Thallium (ug/L)	Mercury (ug/L)	Chloride (mg/L)	Fluoride (mg/L)	Sulfate (mg/L)	Lithium (ug/L)	Radium-226 (pCi/L)	Radium-228 (pCi/L)	DO (Field) Concentration (mg/L)	Field Turb (NTU)	Reference Elevation (Feet)	Specific Conductance (Field) (umhos/cm)	Temp (Field) (Deg.C)	pH (Field) (S.U.) Residue, Filterable	(TDS) (mg/L)
CCR 1	3/23/16	52.4	0.0841	18.3	0.144 U	2811	0.733	0.500 U	0.944 U	0.813 U	1.39 U	0.813 U	0.846 U	0.187	0.00500 U	30	0.054	2.5 U	12.5 U	0.699U ± 0.434 (0.699)	1.14 ± 0.480 (0.783)	0.31	14	10.9	140	20.4		.64
CCR 2	3/23/16	91.1	0.0777 U	89.7	0.144 U	2118	0.539 U	0.500 U	0.944 U	0.813 U	1.39 U	0.813 U	0.846 U	0.113 U	0.00500 U	21	0.045	26.2	12.5 U	0.787 ± 0.576 (0.644)	0.890U ± 0.466 (0.890)	0.21	3.4	11.8	175	20.1	4.8 10	.00
CCR 3	3/23/16	66.5	0.0777 U	105.08	0.144 U	4062	0.539 U	0.500 U	0.944 U	0.813 U	1.39 U	0.813 U	0.846 U	0.113 U	0.00500 U	14	0.062	45.2	12.5 U	1.78 ± 0.864 (0.688)	1.52 ± 0.554 (0.827)	0.43	5.6	11.4	183	20.1	4.6 16	.64
CCR 4	3/23/16	72.2	0.176	24805	0.144 U	456150	0.539 U	0.500 U	2.13	0.813 U	10.3	0.813 U	0.846 U	0.113 U	0.00500 U	75	0.21	1570	12.5 U	0.991U ± 0.670 (0.991)	1.57 ± 0.577 (0.851)	0.28	17	10.4	3015	21.2	5.6 26	596
CCR4 Field DUP	3/23/16	68.4	0.0777 U	24804	0.144 U	451100	0.539 U	0.500 U	2.43	0.813 U	9.82	0.813 U	8.46	0.113 U	0.00500 U	78	0.2	1460	12.5 U	1.86 ± 0.923 (0.955)	0.989 ± 0.490 (0.857)	0.21	16	10.4	3016	21.1	5.6 27	728
CCR 5	3/23/16	113.1	0.216	5079.2	0.144 U	36251	1.96	0.500 U	0.944 U	0.813 U	1.39 U	0.813 U	3.54	0.113 U	0.00500 U	145	0.23	281	12.5 U	0.787U ± 0.555 (0.787)	0.947 ± 0.458 (0.788)	0.34	17	8.6	1068	20.7	4.7 77	76
CCR 6	3/23/16	36	0.0901	34628	0.144 U	336540	0.539 U	0.500 U	64.2	0.813 U	1.39 U	0.813 U	2.75	0.113 U	0.00500 U	184	0.068 U	1960	12.5 U	4.69 ± 1.44 (0.853)	5.09 ± 1.13 (0.776)	0.37	3.1	8.2	4128	21	5 33	324
CCR 7	3/23/16	29.4	0.0848	10050	0.144 U	72585	2.35	0.938	0.944 U	0.813 U	1.39 U	0.813 U	7.77	0.113 U	0.00500 U	94	0.093	819	12.5 U	2.25 ± 0.950 (0.978)	3.11 ± 0.797 (0.772)	0.33	6.6	8.2	2053	20.7	4.7 14	100
Field Blank 1	3/23/16	1.08 U	0.0777 U	0.810 U	0.144 U	8.91 U	0.539 U	0.500 U	0.944 U	0.813 U	1.39 U	0.813 U	0.846 U	0.113 U	0.00500 U													

TABLE A-5 - MAY 2016 BACKGROUND SAMPLING LABORATORY ANALYTICAL RESULTS

SJRPP Sample ID	Sample Date	Barium (ug/L)	Beryllium (ug/L)	Boron (ug/L)	Cadmium (ug/L)	Calcium (ug/L)	Chromium (ug/L)	Cobalt (ug/L)	Molybdenum (ug/L)	Antimony (ug/L)	Arsenic (ug/L)	Lead (ug/L)	Selenium (ug/L)	Thallium (ug/L)	Mercury (ug/L)	Chloride (mg/L)	Fluoride (mg/L)	Sulfate (mg/L)	Lithium (ug/L)	Radium-226 (pCi/L)	Radium-228 (pCi/L)	DO (Field) Concentration (mg/L)	Field Turb (NTU)	Reference Elevation (Feet)	Specific Conductance (Field) (umhos/cm)	Temp (Field) (Deg.C)	pH (Field) (S.U.)	Residue, Filterable (TDS) (mg/L)
CCR 1	5/25/16	57.5	0.844	108.52	0.144 U	2812.9	0.539 U	0.500 U	0.944 U	0.813 U	1.39 U	0.813 U	5.17	0.113 U	0.00500 U	25.4	0.054	6.3	12.5 U	0.688 ± 0.474 (0.506)	0.654U ± 0.317 (0.654)	0.53				21.47		
CCR 2	5/25/16	110.18	0.748	121.22	0.144 U	2193.8	1.26	0.500 U	0.944 U	0.813 U	1.39 U	0.813 U	6.52	0.113 U	0.00500 U	21.0	0.050	26.4	12.5 U	1.11 ± 0.702	0.616U ± 0.316 (0.616)	0.41	16.9	11.5	167	21.20	4.59	107
CCR 3	5/25/16	72.1	0.491	99.9	0.144 U	4552.4	0.539 U	0.500 U	0.944 U	0.813 U	1.39 U	0.813 U	5.12	0.113 U	0.00500 U	12.3	0.059	35.5	12.5 U	1.06 ± 0.668 (0.754)	0.748U ± 0.385 (0.748)	0.59	1.42	11.7	147	21.56	4.47	81
CCR 4	5/25/16	77.7	2.27	24209	0.144 U	445220	0.539 U	0.509	5.79	1.97	8.56	0.813 U	16.1	0.113 U	0.00500 U	64.4	0.36	1430	12.5 U	1.40 ± 0.672 (0.618)	1.66 ± 0.551 (0.745)		2.14	10.4	2907	22.47	5.57	2586
CCR 5	5/25/16	203.82	8.47	3385.2	0.144 U	26353	0.539 U	0.500 U	0.944 U	0.813 U	1.39 U	0.813 U	31.1	0.113 U	0.00500 U	126	0.20	174	12.5 U	1.03 ± 0.588 (0.541)	0.735U ± 0.397 (0.735)	0.62	6.27	8.5	769	21.87	21.87	534
CCR 5 DUP	5/25/16	205.39	10.6	3795.0	0.144 U	30812	0.539 U	0.500 U	0.944 U	0.813 U	1.39 U	0.813 U	32.2	0.113 U	0.00500 U	127	0.20	192	12.5 U	0.991 ± 0.600 (0.657)	0.921U ± 0.489 (0.921)	0.43	3.16	8.5	937	21.86	4.46	599
CCR 6	5/25/16	47.2	1.86	23783	0.144 U	280120	0.539 U	0.500 U	46.8	0.813 U	1.39 U	0.813 U	34.9	0.113 U	0.00500 U	191	0.068 U	1730	12.5 U	3.02 ± 0.075	8.52 ± 1.73 (0.751)	0.38	5.81	8.0	3943	22.37	4.95	3023
CCR 7	5/25/16	25.5	1.37	6193.5	0.144 U	43850	1.39	1.26	0.944 U	0.813 U	1.39 U	0.813 U	21.9	0.113 U	0.00500 U	79.5	0.070	605	12.5 U	0.740 ± 0.540	1.96 ± 0.591 (0.743)	0.73	4.52	8.2	1573	22.35	4.57	1088
Field Blank 1	5/25/16	1.08 U	0.0777 U	2.12	0.144 U	8.91 U	0.539 U	0.500 U	0.944 U	0.813 U	1.39 U	0.813 U	4.48	0.113 U	0.00500 U					(1.701)	(2,7,12)							

TABLE A-6 - JULY 2016 BACKGROUND SAMPLING LABORATORY ANALYTICAL RESULTS

SJRPP Sample ID	Sample Date	Barium (ug/L)	Beryllium (ug/L)	Boron (ug/L)	Cadmium (ug/L)	Calcium (ug/L)	Chromium (ug/L)	Cobalt (ug/L)	Molybdenum (ug/L)	Antimony (ug/L)	Arsenic (ug/L)	Lead (ug/L)	Selenium (ug/L)	Thallium (ug/L)	Mercury (ug/L)	Chloride (mg/L)	Fluoride (mg/L)	Sulfate (mg/L)	Lithium (ug/L)	Radium-226 (pCi/L)	Radium-228 (pCi/L)	DO (Field) Concentration (mg/L)	Field Turb (NTU) Reference Elevation	(Feet) Specific Conductance (Field) (umhos/cm)	· 正	pH (Field) (S.U.)	Residue, Filterable (TDS) (mg/L)
CCR 1	7/27/16	51.8	0.50 U	43.8	0.50 U	2630	2.5 U	5.0 U	5.0 U	0.175 U	0.615 U	0.491 U	0.747	0.291	0.00500 U	25.7	0.053	2.5 U	12.5 U	$0.983U \pm 0.574$ (0.983)	0.810U ± 0.364 (0.810)	0.80	3.67 9	1 127	24.4		76
CCR 2	7/27/16	97.3	0.50 U	151	0.50 U	1870	2.5 U	5.0 U	5.0 U	0.175 U	0.615 U	0.491 U	0.941	0.379	0.00500 U	19.7	0.051	24.3	12.5 U	0.922 ± 0.583 (0.659)	1.82U ± 0.887 (1.82)	1.08	4.13 9	8 160	25.8	4.74	98
CCR 3	7/27/16	98.5	0.50 U	146	0.50 U	4260	2.5 U	5.0 U	5.0 U	0.175 U	0.615 U	0.491 U	0.678 U	0.261 U	0.00500 U	13.4	0.074	51.1	12.5 U	1.58 ± 0.762 (0.701)	1.08 ± 0.474 (0.780)	0.63	0.96 9	5 193	24.5	4.25	108
CCR 4	7/27/16	79.1	5.2	20000	0.50 U	426000	4.6	5.0 U	16.9	4.06	17.3	0.491 U	5.81	0.261 U	0.0138	52.8	0.50	1360	12.5 U	1.00 ± 0.655 (0.671)	1.56 ± 0.650 (1.04)	0.76	675 8	5 2724	24.2	5.38	2468
CCR 5	7/27/16	204	0.99	2720	0.50 U	22100	2.5 U	5.0 U	5.0 U	0.175 U	0.615 U	0.491 U	13.8	0.261 U	0.00520	141	0.16	137	12.5 U	1.59 ± 0.821 (0.910)	0.936U ± 0.411 (0.936)	0.53	5.05 6	6 791	23.5	4.51	504
CCR 6	7/27/16	47.4	0.62	26400	0.50 U	292000	2.5 U	5.0 U	77.8	0.175 U	0.615 U	0.491 U	14.7	0.261 U	0.00500 U	185	0.17 U	1840	12.5 U	3.10 ± 1.05 (0.989)	8.26 ± 1.72 (0.911)	0.58	3.42 6	4 4163	24.87	4.98	3060
CCR 6 DUP	7/27/16	47.2	0.51	25500	0.50 U	300000	2.5 U	5.0 U	73.8	0.175 U	0.615 U	0.491 U	18.3	0.261 U	0.00500 U	185	0.17 U	1800	12.5 U	3.89 ± 1.28 (0.993)	10.7 ± 2.25 (1.24)		6	4			3058
CCR 7	7/27/16	29.9	0.50 U	6830	0.50 U	58000	2.9	5.0 U	5.0 U	0.175 U	0.615 U	0.491 U	10.1	0.261 U	0.00500 U	87.3	0.073	675	12.5 U	1.36 ± 0.744 (0.815)	3.18 ± 0.801 (0.762)	0.69	0.77 6	5 1669	26.06	4.53	1124
Field Blank 1	7/27/16	5.0 U	0.50 U	28.8	0.50 U	250 U	2.5 U	5.0 U	5.0 U	0.175 U	0.615 U	0.491 U	1.13	0.261 U	0.00500 U					, ,	, ,						

TABLE A-7 - SEPTEMBER 2016 BACKGROUND SAMPLING LABORATORY ANALYTICAL RESULTS

SJRPP Sample ID	Sample Date	Barium (ug/L)	Beryllium (ug/L)	Boron (ug/L)	Cadmium (ug/L)	Calcium (ug/L)	Chromium (ug/L)	Cobalt (ug/L)	Molybdenum (ug/L)	Antimony (ug/L)	Arsenic (ug/L)	Lead (ug/L)	Selenium (ug/L)	Thallium (ug/L)	Mercury (ug/L)	Chloride (mg/L)	Fluoride (mg/L)	Sulfate (mg/L)	Lithium (ug/L)	Radium-226 (pCi/L)	Radium-228 (pCi/L)	DO (Field) Concentration (mg/L)	Field Turb (NTU)	ပ	(Field) (uninos/cm) Temp (Field) (Deg.C)	pH (Field) (S.U.)	Residue, Filterable (TDS) (mg/L)
CCR 1	9/20/16	85.8	0.50 U	124	0.50 U	4220	2.5 U	5.0 U	5.0 U	0.50 U	0.87	11.5	1.6	0.50 U	0.0199	22.6	0.067	27.3	12.5 U	1.25U ± 0.779 (1.25)	0.739U ± 0.393 (0.739)	1.54	0.82	'.7 17	4 25.42	4.91	
CCR 2	9/20/16	118	0.50 U	183	0.50 U	2660	3.0	5.0 U	5.0 U	0.50 U	0.89	7.4	0.69	0.50 U	0.0276	19.0	0.066	28.0	12.5 U	1.39U ± 0.729 (1.39)	1.01U ± 0.517 (1.01)	1.96	12.5	5.3 17	26.43	4.47	113
CCR 3	9/20/16	75.0	0.50 U	89.6	0.50 U	4740	2.5 U	5.0 U	5.0 U	0.50 U	1.4	5.0 U	0.50 U	0.50 U	0.0195	11.2	0.067	34.0	12.5 U	1.67 ± 0.742	1.26 ± 0.549 (0.907)	1.57	6.1	5.6 14	5 24.8	4.53	88
CCR 4	9/20/16	92.2	3.3	19300	0.51	485000	3.6	5.0 U	11.4	1.9	7.5	5.0 U	2.9	0.50 U	0.0355	52.1	0.80	1530	12.5 U	$0.250U \pm 0.421$ (0.250)	1.96 ± 0.653 (0.899)	1.8	725 2	2.6 279	5 25.56	5.57	2671
CCR 5	9/20/16	254	1.0	2000	0.50 U	20600	2.5 U	5.0 U	5.0 U	0.50 U	1.1	13.1	0.90	0.50 U	0.0242	158	0.19	89.6	12.5 U	1.44 ± 0.018	1.15 ± 0.595 (1.07)	0.9	14.6	.2 70	3 25.69	4.48	427
CCR 6	9/20/16	56.2	0.50 U	19400	0.50 U	312000	2.5 U	5.0 U	23.9	0.50 U	0.80	5.9	1.9	0.50 U	0.0233	189	0.17 U	1950	12.5 U	4.39 ± 1.34 (0.783)	8.43 ± 1.76 (0.895)	1.08	7 5	5.9 40 ⁻	7 25.77	4.88	3036
CCR 7	9/20/16	36.7	0.50 U	7780	0.50 U	67200	4.6	5.0 U	5.0 U	0.50 U	0.50 U	5.0 U	0.50 U	0.50 U	0.0197	89.4	0.076	684	12.5 U	1.93 ± 0.870 (0.644)	3.19 ± 0.824 (0.780)	0.8	1.26	5.8 17°	0 25.41	4.42	1216
CCR CCR7 Well DUP	9/20/16	36.6	0.50 U	7870	0.50 U	67000	3.8	5.0 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.0212	89.4	0.077	679	12.5 U	1.46 ± 0.676	3.85 ± 0.921 (0.703)	0.8	1.26	5.8 17°	0 25.41	4.42	1208
CCR Well Field Blank	9/20/16	5.0 U	0.50 U	119	0.50 U	250 U	2.5 U	5.0 U	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.0240												

TABLE A-8 - NOVEMBER 2016 BACKGROUND SAMPLING LABORATORY ANALYTICAL RESULTS

SJRPP Sample ID	Sample Date	Barium (ug/L)	Beryllium (ug/L)	Boron (ug/L)	Cadmium (ug/L)	Calcium (ug/L)	Chromium (ug/L)	Cobalt (ug/L)	Molybdenum (ug/L)	Antimony (ug/L)	Arsenic (ug/L)	Lead (ug/L)	Selenium (ug/L)	Thallium (ug/L)	Mercury (ug/L)	Chloride (mg/L)	Fluoride (mg/L)	Sulfate (mg/L)	Lithium (ug/L)	Radium-226 (pCi/L)	Radium-228 (pCi/L)	DO (Field) Concentration (mg/L)	Field Turb (NTU)	Reference Elevation (Feet)	Specific Conductance (Field) (umhos/cm)	Temp (Field) (Deg.C)	pH (Field) (S.U.)	Residue, Filterable (TDS) (mg/L)
CCR 1	11/8/16	44.7	0.118	35.2	0.0690 U	2213.2	0.298 U	2.73 U	0.475 U	0.175 U	0.615 U	0.491 U	0.678 U	0.261 U	0.00500 U	24.6	0.069	2.5 U	12.5 U	$0.548U \pm 0.442$ (0.548)	$0.862U \pm 0.447$ (0.862)	1.11	3.75	11.3	123	23.73	5.04	80
CCR 1 Well DUP	11/8/16	44.9	0.113	37.7	0.0690 U	2347.4	0.298 U	2.73 U	0.475 U	0.175 U	0.615 U	0.491 U	0.678 U	0.261 U	0.00500 U	24.6	0.075	2.5 U	12.5 U	0.586U ± 0.472 (0.586)	$0.786U \pm 0.348$ (0.786)	1.11	3.75	11.3	123	23.73	5.04	78
CCR 2	11/8/16	125.69	0.317	193.98	0.0690 U	2402.6	2.47	2.73 U	0.475 U	0.175 U	1.10	0.948	0.678 U	0.261 U	0.00590	19.2	0.069	37.4	12.5 U	1.85 ± 0.857 (0.649)	1.42 ± 0.609 (0.996)	1.33	31.3	12.2	185	24.01	4.68	122
CCR 3	11/8/16	75.0	0.130	122.38	0.0690 U	5130.4	0.298 U	2.73 U	0.475 U	0.175 U	0.711	0.491 U	0.678 U	0.261 U	0.00500 U	11.6	0.072	42.5	12.5 U	1.35 ± 0.641 (0.203)	1.00 ± 0.488 (0.851)	1.37	4.52	12.1	169	23.24	4.44	92
CCR 4	11/8/16	66.1	12.0	17040	0.0690 U	484450	19.0	3.15	21.2	8.30	19.1	11.7	264.23	0.316	0.0576	40.1	0.52	1480	12.5 U	0.623 ± 0.488 (0.573)	1.76 ± 0.683 (1.05)	1.11	817	10.5	2762	24.02	5.24	2490
CCR 5	11/8/16	223.59	0.974	1719.9	0.0690 U	16152	3.01	2.73 U	0.475 U	0.175 U	1.67	1.50	11.2	0.261 U	0.106	150	0.15	96.4	12.5 U	1.04U ± 0.595 (1.04)	0.909 ± 0.477 (0.858)	.76	30.5	8.6	741	23.99	4.53	422
CCR 6	11/8/16	52.9	0.0280 U	19772	0.0690 U	318990	0.501	2.73 U	36.2	0.175 U	0.651	0.491 U	6.57	0.261 U	0.00960	160	0.17 U	1750	12.5 U	4.62 ± 1.40 (1.18)	9.11 ± 1.91 (0.959)	1.38	5.3	8.3	3906	24.25	4.97	2910
CCR 7	11/8/16	46.6	0.0280 U	12837	0.0690 U	110230	2.81	2.73 U	0.475 U	0.175 U	0.793	0.491 U	9.43	0.261 U	0.00500 U	96.9	0.11	902	12.5 U	2.66 ± 0.946 (0.545)	3.92 ± 0.965 (0.879)	1.18	2.09	8.8	2207	24.19	4.6	1496
CCR Well Field Blank	11/8/16	0.297	0.0280 U	81.9	0.0690 U	92.7	0.298 U	2.73 U	0.475 U	0.175 U	0.615 U	0.491 U	0.678 U	0.261 U	0.00810													

TABLE A-9 - FEBRUARY 2017 BACKGROUND SAMPLING LABORATORY ANALYTICAL RESULTS

SJRPP Sample ID	Sample Date	Barium (ug/L)	Beryllium (ug/L)	Boron (ug/L)	Cadmium (ug/L)	Calcium (ug/L)	Chromium (ug/L)	Cobalt (ug/L)	Molybdenum (ug/L)	Antimony (ug/L)	Arsenic (ug/L)	Lead (ug/L)	Selenium (ug/L)	Thallium (ug/L)	Mercury (ug/L)	Chloride (mg/L)	Fluoride (mg/L)	Sulfate (mg/L)	Lithium (ug/L)	Radium-226 (pCi/L)	Radium-228 (pCi/L)	DO (Field) Concentration (mg/L)	Field Turb (NTU)	Reference Elevation (Feet)	Specific Conductance (Field) (umhos/cm)	Temp (Field) (Deg.C)	pH (Field) (S.U.)	Residue, Filterable (TDS) (mg/L)
CCR 1	2/22/17	44.0	0.112	48.3	0.0690 U	2243.0	0.645	2.73 U	0.475 U	0.175 U	0.615 U	0.491 U	1.34	0.261 U	0.00500 U	22.6	0.065	2.8	12.5 U	0.833U ± 0.528 (0.833)	0.855U ± 0.428 (0.855)	1.23	3.21		119	21.07	4.99	79
CCR 2	2/22/17	172.72	0.327	260.1 5	0.0690 U	4020.0	1.77	2.73 U	0.475 U	0.175 U	0.615 U	0.491 U	0.678 U	0.261 U	0.00500 U	17.5	0.065	61.9	12.5 U	0.781U ± 0.601 (0.781)	0.767U ± 0.365 (0.767)	1.29	11.3		241	20.88	4.7	143
CCR 3	2/22/17	72.6	0.133	131.1 5	0.0690 U	5773.1	0.540	2.73 U	0.475 U	0.175 U	0.615 U	0.491 U	0.678 U	0.261 U	0.00500 U	11.1	0.060	43.5	12.5 U	1.05 ± 0.698 (0.867)	1.38 ± 0.596 (0.932)	1.03	8.38		174	20.64	4.23	109
CCR 4	2/21/17	89.0	3.24	18093	0.0690 U	439020	3.56	2.73 U	14.6	3.20	7.49	0.852	9.48	0.261 U	0.00710	52.1	0.52	1330	12.5 U	1.12 ± 0.711 (0.859)	1.83 ± 0.773 (1.21)	0.91	100 0		2548	22.06	5.39	2344
CCR 4R	2/21/17	65.4	0.0280 U	26860	0.0690 U	336350	3.74	2.73 U	3.06	0.175 U	5.84	0.754	10.0	0.261 U	0.00500 U	78.9	0.17 U	1530	12.5 U	1.90 ± 0.878 (0.852)	2.46 ± 0.709 (0.798)	1.2	17.6		3033	22.1	5.56	2828
CCR 5	2/22/17	230.39	0.869	2185. 0	0.0690 U	21071	1.77	2.73 U	0.475 U	0.175 U	3.46	0.491 U	12.5	0.261 U	0.00500 U	160	0.11	93.5	12.5 U	0.784U ± 0.527 (0.784)	0.964U ± 0.475 (0.964)	1.89	10.6		801	21.64	4.61	473
CCR 6	2/21/17	42.4	0.0280 U	23813	0.0690 U	290390	0.785	2.73 U	39.7	0.175 U	1.81	0.491 U	12.0	0.261 U	0.00500 U	137	0.17 U	1640	12.5 U	2.35 ± 0.934 (0.726)	7.37 ± 1.54 (0.702)	1.43	8.92		3695	20.9	5.16	3060
CCR6 well DUP	2/21/17	42.7	0.0280 U	23514	0.0690 U	291040	0.955	2.73 U	39.3	0.175 U	2.16	0.491 U	14.0	0.261 U	0.00500 U	135	0.17 U	1730	12.5 U	2.13 ± 0.970 (0.986)	6.97 ± 1.52 (0.801)	1.43	8.92		3695	20.9	5.16	2930
CCR 7	2/22/17	25.6	0.0280 U	5655. 9	0.0690 U	69717	2.42	2.73 U	0.475 U	0.175 U	0.615 U	0.491 U	2.07	0.261 U	0.00500 U	77.1	0.088	619	12.5 U	0.974U ± 0.681 (0.974)	1.78 ± 0.620 (0.805)	1.91	4.89		1740	20.28	4.61	1242
CCR Well Field Blank	2/21/17	0.178 U	0.0280 U	0.589	0.0690 U	6.69	0.310	2.73 U	0.557	0.175 U	0.615 U	0.491 U	1.75	0.261 U	0.00500 U													
CCR Well Field Blank	2/22/17	0.178 U	0.0280 U	0.870	0.0690 U	24.5	0.298 U	2.73 U	0.475 U	0.175 U	0.615 U	0.491 U	0.678 U	0.261 U	0.00500 U													

TABLE A-10 - APRIL 2017 BACKGROUND SAMPLING LABORATORY ANALYTICAL RESULTS

SJRPP Sample ID	Sample Date	Barium (ug/L)	Beryllium (ug/L)	Boron (ug/L)	Cadmium (ug/L)	Calcium (ug/L)	Chromium (ug/L)	Cobalt (ug/L)	Molybdenum (ug/L)	Antimony (ug/L)	Arsenic (ug/L)	Lead (ug/L)	Selenium (ug/L)	Thallium (ug/L)	Mercury (ug/L)	Chloride (mg/L)	Fluoride (mg/L)	Sulfate (mg/L)	Lithium (ug/L)	Radium-226 (pCi/L)	Radium-228 (pCi/L)	DO (Field) Concentration (mg/L)	Field Turb (NTU)	Reference Elevation (Feet)	Specific Conductance (Field) (umhos/cm)	Temp (Field) (Deg.C)	pH (Field) (S.U.)	Residue, Filterable (TDS) (mg/L)
CCR 1	4/18/17	46.7	0.0280 U	57.0	0.0690 U	2413.1	0.298 U	2.73 U	0.475 U	0.221	0.635	0.491 U	0.678 U	0.261 U	0.00500 U	22.4	0.067	3.6	12.5 U	0.710U ± 0.465 (0.710)	1.03 ± 0.428 (0.699)	0.62	3.76	9.9	121	21.87	5.02	93
CCR 2	4/18/17	180.70	0.230	274.50	0.0690 U	4713.8	0.651	2.73 U	0.475 U	0.199	0.615 U	0.491 U	0.827	0.261 U	0.00500 U	16.7	0.071	64.7	12.5 U	0.973U ± 0.621 (0.973)	0.829 ± 0.371 (0.619)	0.29	7.78	10.5	245	21.8	4.82	151
CCR 2 DUP	4/18/17	176.46	0.226	264.77	0.0690 U	4543.1	0.975	2.73 U	0.475 U	0.211	0.707	0.491 U	0.678 U	0.261 U	0.00500 U	16.7	0.067	65.0	12.5 U	1.33 ± 0.782 (0.939)	1.02 ± 0.410 (0.628)	0.29	7.78	10.5	245	21.8	4.82	145
CCR 3	4/18/17	57.2	0.0280 U	92.6	0.0690 U	5914.4	0.298 U	2.73 U	0.475 U	0.234	0.703	0.491 U	0.678 U	0.261 U	0.00500 U	10.1	0.051	32.5	12.5 U	0.931U ± 0.480 (0.931)	0.697U ± 0.369 (0.697)	1.89	3.89	10.2	156	21.69	4.5	78
CCR 4	4/18/17	79.6	5.45	17826	0.0690 U	500170	4.31	2.73 U	11.3	1.91	4.66	1.08	1.25	0.365	0.00620	53.7	0.35	1330	12.5 U	0.940U ± 0.596 (0.940)	1.40 ± 0.467 (0.667)	3.39	689	9.1	2519	22.02	5.07	2404
CCR 4R	4/18/17	90.6	0.0340	26714	0.0690 U	366880	24.5	6.17	2.76	0.539	11.4	12.6	3.61	0.440	0.0271	63.5	0.43	1550	12.5 U	1.39U ± 0.906 (1.39)	2.34 ± 0.671 (0.801)	2.8	515	8.9	2835	21.9	4.95	2660
CCR 5	4/18/17	252.87	0.805	1795.0	0.0690 U	22401	1.42	2.73 U	0.475 U	0.262	2.65	0.491 U	6.50	0.261 U	0.00500 U	183	0.12	74.0	12.5 U	1.24U ± 0.853 (1.24)	1.31 ± 0.461 (0.677)	2.62	15.8	7.2	819	21.9	4.51	478
CCR 6	4/18/17	48.3	0.0280 U	29389	0.0690 U	383480	0.528	2.73 U	38.1	0.214	2.17	0.491 U	5.05	0.261 U	0.00500 U	136	0.050	1740	12.5 U	3.53 ± 1.19 (0.781)	7.30 ± 1.47 (0.671)	1.79	10.3	6.8	3712	21.8	4.95	3008
CCR 7	4/18/17	46.0	0.0280 U	13077	0.0690 U	112510	2.55	2.73 U	0.475 U	0.206	1.93	0.491 U	6.27	0.261 U	0.00500 U	119	0.11	977	12.5 U	4.94 ± 1.51 (1.00)	4.03 ± 0.923 (0.719)	2.85	1.96	7.0	2413	21.4	4.46	1714
Field Blank	4/18/17	0.178 U	0.0280 U	0.415 U	0.0690 U	6.46	0.298 U	2.73 U	0.475 U	0.231	0.724	0.491 U	0.678 U	0.261 U	0.00500 U					, ,	, ,							

TABLE A-11 - JUNE 2017 BACKGROUND SAMPLING LABORATORY ANALYTICAL RESULTS

SJRPP Sample ID	Sample Date	Barium (ug/L)	Beryllium (ug/L)	Boron (ug/L)	Cadmium (ug/L)	Calcium (ug/L)	Chromium (ug/L)	Cobalt (ug/L)	Molybdenum (ug/L)	Antimony (ug/L)	Arsenic (ug/L)	Lead (ug/L)	Selenium (ug/L)	Thallium (ug/L)	Mercury (ug/L)	Chloride (mg/L)	Fluoride (mg/L)	Sulfate (mg/L)	Lithium (ug/L)	Radium-226 (pCi/L)	Radium-228 (pCi/L)	DO (Field) Concentration (mg/L)	Field Turb (NTU)	Reference Elevation (Feet)	Specific Conductance (Field) (umhos/cm)	Temp (Field) (Deg.C)	pH (Field) (S.U.)	Residue, Filterable (TDS) (mg/L)
CCR 1	6/22/17	241.46	0.720	667.75	0.0690 U	14632	0.330	2.73 U	0.475 U	1.23 U	2.14	0.412 U	2.72 U	0.942 U	0.00500 U	18.3	0.14	169	12.5 U	3.26 ± 0.40 (0.29)	0.94 ± 0.4 (0.6)	0.98	0.63	11.4	460	23.7	4.6	
CCR 2	6/22/17	162.52	0.330	258.73	0.0690 U	4414.5	1.76	2.73 U	0.475 U	1.23 U	1.78	0.412 U	2.72 U	0.942 U	0.00500 U	16.6	0.078	61.7	12.5 U	1.10 ± 0.28 (0.22)	1.22 ± 0.4 (0.6)	1.21	9.38	11.6	228	23.5	4.59	148
CCR 3	6/22/17	49.6	0.100	60.8	0.0690 U	4656.5	0.410	2.73 U	0.475 U	1.23 U	3.10	0.412 U	2.72 U	0.942 U	0.00500 U	10.0	0.041	27.5	12.5 U	0.96 ± 0.22 (0.16)	1.95 ± 0.5 (0.6)	1.1	1.6	11.9	127	23	4.25	90
CCR 3 DUP	6/22/17	51.2	0.120	62.7	0.0690 U	4748.1	0.400	2.73 U	0.475 U	1.23 U	1.66	0.412 U	2.72 U	0.942 U	0.00500 U	10.0	0.056	27.8	12.5 U	1.00 ± 0.21 (0.15)	$0.8U \pm 0.5$ (0.8)	1.1	1.6	11.9	127	23	4.25	86
CCR 4	6/22/17	73.8	0.640	15734	0.0690 U	454520	2.46	2.73 U	3.56	1.23 U	3.87	0.412 U	21.6	0.942 U	0.00500 U	45.1	0.50	1450	12.5 U	1.24 ± 0.31 (0.26)	1.91 ± 0.5 (0.7)	1.32	507	10.9	2514	24.5	5.14	2390
CCR 4R	6/22/17	87.4	0.220	17399	0.0690 U	349980	25.7	4.87	1.76	1.23 U	8.13	11.3	2.72 U	0.942 U	0.0418	39.4	0.48	1620	12.5 U	3.37 ± 0.32 (0.18)	1.96 ± 0.6 (0.8)	0.5	386	10.75	2757	25	4.72	2596
CCR 4R FF	6/22/17	57.1	0.0280 U	17590	0.0690 U	362640	1.94	2.73 U	0.475 U	1.23 U	2.75	0.412 U	2.72 U	0.942 U	0.00500 U	41.1	0.40	1650	12.5 U	1.05 ± 0.27 (0.21)	2.30 ± 0.5 (0.6)	0.87	0.45	10.75	2756	26.9	4.83	2576
CCR 5	6/22/17	278.48	0.920	1813.6	0.0690 U	19124	1.27	2.73 U	0.475 U	1.23 U	5.26	0.412 U	10.8	0.942 U	0.00500 U	191	0.12	76.6	12.5 U	1.45 ± 0.20	$0.8 \pm 0.5 (0.8)$	1.27	10	9.5	846	23.7	4.44	472
CCR 6	6/22/17	40.3	0.0280 U	20178	0.0690 U	290920	0.820	2.73 U	35.0	1.23 U	4.48	0.412 U	8.76	0.942 U	0.00500 U	153	0.17 U	1840	12.5 U	4.02 ± 0.34 (0.19)	4.56 ± 0.7 (0.8)	0.78	5.78	8.1	3629	23.7	4.97	2800
CCR 7	6/22/17	51.5	0.0280 U	16721	0.0690 U	140970	3.63	2.73 U	0.475 U	1.23 U	5.44	0.412 U	11.8	0.942 U	0.00500 U	139	0.17 U	1170	12.5 U	3.61 ± 0.31 (0.16)	3.07 ± 0.6 (0.8)	0.84	1.32	8.4	2774	23.9	4.51	2068
Field Blank	6/22/17	0.178 U	0.0280 U	2.31	0.0690 U	10.9	0.298 U	2.73 U	0.475 U	1.23 U	1.38 U	0.412 U	2.72 U	0.942 U	0.00500 U													

Laboratory Time Stamp CHAIN OF CUSTODY RECORD 152572 FL CERT #F5.459 Project Number: For Lab Use Only Entered by: Scanned by: 2015 DEC 1 AM 8 57 Temp. of Contents: / deg. C received under ice Laboratory Services 1002 Main Street North 1 Client Address: 11201 New Berlin Rd Jacksonville, FL 32202 lacksonville FL 32226 SJRPP Phone (904) 665-4517 phone: 904-665-7886 Fax (904) 665-8343 2. Site Name 11. Turnaround Time (circle) 10. Analyses Requested aroundwater CCRWells RFEA 304 8 Preservative Standard -Rush: / / 9. Container Type Matrix Codes Preservative Codes Container Codes 12. Laboratory Section (circle) 144 (for item 6) (for item 8) (for item 9) Springfield X Fuels DW = Drinking Water C = Cool Only F = Filtered V = VOA vial Contract: GW = Ground Water OT=Other H = HCL G = Glass SW = Surface Water N = HNO3P = Plastic 7. Container Num/Letter/Lot 8 WW = Waste Water OH = NaOH M = Micro bag/cup 8 SG = Sludge OI = Oil S = H2SO4 C = Cubitainer SL = Soil SF = Solid Fuel T = Na2S2O3 OT = Other AR = AirOT = Other D = Dark 3 6 4 Nd Sample Desc or Field ID Date Comp Grab Matrix Let E Time F GH K 13. Lims ID 15-432-CCR1 11/30/15 aw 50 0903 15-433-CCRIFD 150 113015 0925 aw 15-434-CCRZ 0959 aw 182 15-435-CCR3 146 1028 GW 15-436-CCR4 11/30/15 1107 aw 2776 15-437-CCR5 11/30/15 1209 aw 1919 15-438-CCR6 1323 aw 504 14 Sampled By & Title (Signature) 15. Samp No Date Time Sampled By & Title (Signature) Samp No. Date Time See Above Chancel Specialist Sampled/By & Title (Signature) Sampled By & Title (Signature) Samp No Date Time Samp No Date Time 16. Relinguished By: Date Time 17. Received By: 18. Shipping Method: Date Time 19. Send Report To: 53 12/1/15 0857 Hand delivered 12/15 0857 Name: Bus Location/ Address: 3 Courier Other

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page 1 of Z 12/1/15

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Jackson Ville FC 32226

Phone (904) 665-4517 phone: 904-665-7886 (904) 665-8343 11.Turnaround Time (circle) 10. Analyses Requested 2. Site Name N Standard) Rush:_/_/_ Groundwater Wells CCR RFEA 304 8. Preservative 9. Container Type 12. Laboratory Section (circle) Container Codes Matrix Codes Preservative Codes Sprinafield Fuels (for item 9) (for item 8) (for item 6) 22/922 Contract: PACE V = VOA vial DW = Drinking Water C = Cool Only F = Filtered UZH H = HCL OT=Other G = Glass GW = Ground Water 7. Container Num/Letter/Lot P = Plastic N = HNO3SW = Surface Water M = Micro bag/cup Radium OH = NaOH WW = Waste Water C = Cubitainer S = H2SO4 SG = Sludge OI = Oil OT = Other SF = Solid Fuel |T = Na2S2O3 SL = Soil D = Dark AR = Air OT = Other4 K 13. Lims ID Н E F G C D Comp Grab Matrix Nd Sample Desc or Field ID Date Time Let S151130PPCCR1XX01 X 2 GW 11/30/15 0903 15-432-CCRI S151130PPCCR1XX02 11/30/5 aw 0925 15-433-CCRIFD 2 S151130PPCCR2XX01 11/30/15 aw 0959 15-434-CCRZ S151130PPCCR3XX01 2 X GW 107.8 15-435-CCR3 S151130PPCCR4XX01 X 11/30/15/1107 qw 15-436-CCR4 S151130PPCCR5XX01 2 113015 1209 aw 15-437-CCR5 S151130PPCCR6XX01 aw 15-438 CCR6 11/30/15 1323 Date Time Sampled By & Title (Signature) Samp No 14. Sampled By & Title (Signature) Date Time 15.Samp No See Above chemical Specialist Sampled By & Title (Signature) Samp No Date Time Sampled By & Title (Signature) Date Time Samp No 19. Send Report To: 18. Shipping Method: 17. Received By: Date Time Date Time 16. Relinguished By: 12/1/15/0857 Hand delivered ~ Name: 12/1/85 0857 12/2/15 1350 Location/ Address: 12/2/15/1352 Bus Courier 3

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Laboratory Services

1002 Main Street North

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CHAIN OF CUSTODY RECORD

part 1 of 2

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1. Client Addres

SJRPP

Address: 1120 INEW Bos Im Rd Jacksonville FL 32226

phone: 904-665-7846

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o Sample Desc or Field I	ID	Date	Time	-	pro-profit a pr	Matrix	Let		В	C	5	E	F	G	Н	T	J	K	13. Lims ID			
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Laboratory Services 1002 Main Street North Jacksonville, FL 32206

Laboratory Time Stamp

FL CERT. # E82459

2016 FEB 25 AM 10 22

MIAH	OF	CUSTODY RECORD
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160218-025

CHAIN OF CUSTODY	RECORD part 1 of \ \ \ \	[*] 100218-02
For Lab Use Only	Project Number:	
Entered by:	Scanned by:	
Temp. of Contents: 3 deg	g. C received under ice 🛛 🛇 N	
1. Client	Address: 11201	New Berlin Rd Sonville FL 32226

Phone (904) 665-4517 SJRPP phone: 904-665-7886 (904) 665-8343

Site Name										10. A	Analy:	sis R	eques	sted					11. Turnarou	und Time (circle)
CCR Wells RFEA	304				vative		N P	N P	N P	C								STANDA	RD	
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SW = Surface Water WW = Waste Water SG = Sludge OI = Oil	N = HNO3 OH = NaO S = H2SO	3 DH 04	Other	AG = A P = Pla M = Mid C = Cul OT = O	mber stic cro ba bitain	ag/cup	TAINE	, As, Ba, Be,	, Cr, Co, Pb	o, Se, TI	S	PP-INFO	Field Cond						7. Containe	r Num/Letter/Lot
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Jacksonville, FL 32206								D									Jac	Lisc	nutlle f	n Rd FL 32226	
Phone (904) 665-4517 Fax (904) 665-8343						S	IRP	P							phor	ne: 9	04-1	665	-7886		
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CCR Wells RFEA				-	_	ner Typ	е	Р	Р	P	Р								12 Laborat	ory Section	1
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WW = Waste Water	OH = NaOH			P = Pl	lastic		A	e,													
SG = Sludge OI = Oil SL = Soil SF = Solid Fuel	S = H2SO4 T = Na2S2O3			M = M C = Ci	ubitain		N	orid	ate	<u>E</u>	ium										
W = NPW OT = Other	D = Dark			OT = 0		6	ER	Chloride,	Sulfate	Lithium	Radium										
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20. Remarks:

Instructions on back

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Laboratory Time Stamp CERT. # E52459

2016 FEB 24 AM 8 24

CHAIN OF CUSTODY RECORD part 1 of 2

Project Number: 2400 For Lab Use Only Entered by: Scanned by: deg. C received under ice Temp. of Contents:

160218-024

MB 2-25-10

Address. 11201 New Berlin Rd

River Flow:

Jacksony Tle FL 32226 SJRPP phone: 904-665-7986 (904) 665-8343 11.Turnaround Time (circle) 10. Analysis Requested 2. Site Name C 8. Preservative Ν N N STANDARD CCR Wells RFEA 304 Р Р Р P 9. Container Type 12. Laboratory Section Matrix Codes Preservative Codes **Container Codes** g (for item 6) (for item 8) (for item 9) Hg ď C = Cool Only F = Filtered V = VOA vial 0 Springfield DW = Drinking Water Pb, 1 Be, GW = Ground Water H = HCL OT=Other G = Glass N 7. Container Num/Letter/Lot N = HNO3AG = Amber Glass SW = Surface Water Ço, Cond OH = NaOH P = Plastic WW = Waste Water PP-INFO SG = Sludge OI = Oil S = H2SO4 M = Micro bag/cup As, Se, Ç, C = Cubitainer N SL = Soil SF = Solid Fuel T = Na2S2O3 Field D = Dark OT = Other E W = NPW OT = Other Mo, Sb, Сa, 4 R В F No Sample Desc or Field ID Date Comp Grab Matrix Let Н K 13. Lims ID Time Х 2/23/16/0836 140 16-045-CCR1 GW 1 1 1 2/23/16/09/09 X 16-046-CCR2 **GW** 1 1 1 1 174 2/23/16/1010 X 143 3 16-047-CCR3 GW 1 1 1 1 1 143 X 16-048-CCR3FD 2/23/16 1046 1 1 GW 1 1 1 X 1174 16-050-CCR5 2 23/16/1205 GW 1 1 1 2/23/16/1232 X 6 16-051-CCR6 4095 GW 1 1 1 1 2/23/16 1303 X 16-052-CCR7 GW 1 1764 15. Samp No 14. Sampled By (Signature) Date Time Sampled By (Signature) Samp No Date Time See Above Chamizal specialist Sampled/By (Signature) Sampled By (Signature) Samp No Date Time Samp No Date Time 19 Send Report To: 16. Relinquished By: 17. Received By: Date Time 18. Shipping Method: Date Time 082 Hand delivered 2/4/16/0824 Name: 2 Location/ Address: Bus 3 Courier 4

1. Client

Subout sumples not delivered to lab on 2724/14. Watarra Jou-Will aviver samples

Treated Flow:

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2016 FEB 24 AM 8 24

CHAIN OF CLISTODY RECORD

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or Lab Use Only	Project Number:		
Entered by:	Scanned by:	1	
emp. of Contents:	deg. C received under ice	Y/_	N

1. Client

Address. 11201 Now Berlin Rd Jackson ville FL 32226

SJRPP phone: 904-665-7886 Fax (904) 665-8343 10. Analysis Requested 11.Turnaround Time (circle) 2. Site Name N N 8. Preservative STANDARD **CCR Wells RFEA 304** Р P P 9. Container Type 12. Laboratory Section Container Codes Matrix Codes Preservative Codes င္ပ (for item 9) C (for item 6) (for item 8) Pb, Hg a, Springfield V = VOA vial 0 DW = Drinking Water C = Cool Only F = Filtered N Be, G = Glass GW = Ground Water H = HCL OT=Other 7 Container Num/Letter/Lot AG = Amber Glass SW = Surface Water N = HNO3Ba, Ço, OH = NaOH P = Plastic WW = Waste Water F SG = Sludge OI = Oil S = H2SO4 M = Micro bag/cup As, Se, ڻ ن SF = Solid Fuel T = Na2S2O3 N SL = Soil C = Cubitainer E OT = Other W = NPW OT = OtherD = Dark Ca, Mo, Sb, R 5 6 3 4 Let В С D E F G Н K 13. Lims ID No Sample Desc or Field ID Comp Grab Matrix Date Time 2/23/16 1316 X GW 1 1 1 16-053-FB1 Sampled By (Signature) Samp No Date Time 14 Sampled By (Signature) 15. Samp No Date Time SecAbove Chourca Specializat Sampled By (Signature) Sampled By (Signature) Samp No Date Time Samp No Date Time 19. Send Report To: 17. Received By: Date Time 18. Shipping Method: 16. Relinguished By Date Time 224/10 /324 2/24/16 0824 Hand delivered Name: Location/ Address: Bus Courier Other

20. Remarks:

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5 6

Instructions on back

River Flow:

Treated Flow:

Laboratory Services

Fax (904) 665-8343

Laboratory Time Stamp

2016 FEB 25 AM 10 22

CHAIN OF CUSTODY RECORD For Lab Use Only

Project Number:

5° 25.14 160218-02× 4

Entered by: Scanned by: Temp. of Contents: 3 deg. C received under ice Address: 11201 New Berlin Rd Jacksonville ft 32226 1002 Main Street North 1. Client Jacksonville, FL 32206 SJRPP Phone (904) 665-4517 phone: 904-665-7986

2. Site Name	ALIPA MILL W	radio nel so	100 P 100 P 100 P			- 18°		8	a a m	10. A	naly	sis Re	eques			10. 7		3° ga		und Time (circle)
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CCR Wells RFEA				9. 0	Contai	ner Type	9	Р	P	Р	Р									
latrix Codes or item 6)	Preservati (for item 8		es	199.00000	tainer item 9	Codes	С	41											12. Laborat	ory Section
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W = Ground Water W = Surface Water	H = HCL N = HNO3	OT=	Other	G = 0		r Glass	N	Fluoride			122								7 Contains	r Num/Letter/Lot
W = Waste Water G = Sludge OI = Oil L = Soil SF = Solid Fuel	OH = NaOH S = H2SO4 T = Na2S2O			P = P $M = N$ $C = C$	lastic /licro ba cubitair	ag/cup	AIN	Chloride, Fl	ate	Lithium	Radium 226/228								7. Contains	i Mann Letter/Eut
/ = NPW OT = Other	D = Dark	4		OT =	Other	6	E	Shk	Sulfate	it	Sad									
o Sample Desc or Field I	D C	Date	Time	1	-	Matrix	Let	_	В	C	D	E	F	G	Н	T	J	K	12 lime IF	
16-045-CCR1	12	2/23/16	0836		X	GW		1	1	1	2								S16022	3PPCCR1XX01
16-046-CCR2			0909		Х	GW		1	1	1	2	=							S16022	3PPCCR2XX01
16-047-CCR3	7	123/16	1010		X	GW		1	1	1	2								S16022	3PPCCR3XX01
16-048-CCR3FD	2	123/16	1046	II	Х	GW		1	1	1	2								S16022	3PPCCR3XX02
16-050-CCR5		91/52/16			X	GW		1	1	1	2								S16022	3PPCCR5XX01
16-051-CCR6		- 1	1232		X	GW		1	1	1	2		La.						S16022	3PPCCR6XX01
16-052-CCR7			1303		X	GW		1	1	1	2	2 (0					+ +		S16022	3PPCCR7XX01
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O. Remarks Instruction	ons on bac							1					-		Rive	r Flov	V:		Treated Flow:	

20. Remarks: Instructions on back COC rectived on 2-25-16. Subout sample, were brought to lab on 2-24-16. ME 2-25-16

Treated Flow:

Shouts were logged of springfield samples on 224-16

Form # S1 Version 1.0

Issued 6/15 Revised 6/15

CHAIN OF CUSTODY RECORD part 1 of 24 For Lab Use Only Project Number: Entered by: Scanned by: Temp. of Contents: O deg. C received under ice N 1. Client Address: 20 New Borlin 2d Jacksonville, FL 32226 Phone (904) 665-4517 Fax (904) 665-8343 2. Site Name CHAIN OF CUSTODY RECORD part 1 of 24 For Lab Use Only Project Number: Entered by: Scanned by: Temp. of Contents: O deg. C received under ice N Address: 20 New Borlin 2d Jacksonville FL 32226 Shown Ille FL 32226 Phone: 904-665-7886 Container Type P P P P P P P P P P P P P P P P P P P	^		(I - Carata	a. Tima Ctare						\uparrow									SB	
Laboratory Services 1002 Main Street North Jacksonville, FL 32206 Phone (904) 665-4517 Fax (904) 665-8343 2. Site Name Tenundwater CCR Wells RFEA 304 Matrix Codes (for item 6) DW = Drinking Water C = Cool Only For Lab Use Only Project Number: Scanned by: Temp. of Contents: D deg. C received under ice N N Address: I(201 New Berlin 2d Address: I(201 New Berlin 2d In June 10 STANDARD 11. Turnaround Time (circle) STANDARD 12. Laboratory Section Springfield Springfield	1									1							1 , 1	(3.24.16	160220 0
Laboratory Services 1002 Main Street North Jacksonville, FL 32206 Phone (904) 665-4517 Fax (904) 665-8343 2. Site Name Standard by:			LUEN	H. FLL.	459		CHAI	N OF	CU	STO	DY	REC	ORE)	part	1 of	þ / 		ı	100229-03
Laboratory Services 1002 Main Street North Jacksonville, FL 32206 Phone (904) 665-4517 Fax (904) 665-8343 2. Site Name Syrphone: Groundwater CCR Wells RFEA 304 Matrix Codes (for item 6) DW = Drinking Water C = Cool Only F = Filtered V = VOA vial		2518	MAR 2	u om -	10.21	35	or rai) use	Offity	7/2			rioje	CL INC	IIIInei	•		—		
1002 Main Street North Jacksonville, FL 32206 Phone (904) 665-4517 Fax (904) 665-8343 2. Site Name Springfield Address: I(20) New Borling Roll Jacksonville, FL 32226 10. Analysis Requested 11. Turnaround Time (circle) STANDARD 12. Laboratory Section Springfield		F070	: IIII (I DII.	10 21	E	ntere	d by:		-1		C					(Z)	NI NI		
SJRPP SJRP	-								ntent	s: <i>O</i>	_aeg	. C re	eceive	a uno	Addr				10, 1 Box 1	20 00
Phone (904) 665-4517						1	. Cilei	11						1477	/ taar	000. ₁	1 20		new war	27226
Phone: 909-605-7806						5	SJRP	P												3000
Groundwater CCR Wells RFEA 304 8. Preservative N N N C STANDARD Matrix Codes (for item 6) (for item 8) C (for item 9) C DW = Drinking Water C = Cool Only F = Filtered V = VOA vial V = VOA via															phon	e: 9L	94-6			
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GW = Ground Water H = HCL OT=Other G = Glass N o o _	•		-		G = Glass			Be,	Co,	=									7 01-1-	an Nicosa (I attant) at
SW = Surface Water SW = Surface Water WW = Waste Water OH = NaOH AG = Amber Glass F = Plastic					200			a, E	r,				<u>~</u>						7. Containe	er Num/Letter/Lot
SW = Surface Water WW = Waste Water OH = NaOH SC = Sludge OI = Oil SL = Soil SF = Solid Fuel T = Na2S2O3 AG = Amber Glass P = Plastic A B B C C = Cubitainer N M = Micro bag/cup N M M M M M M M M M M M M M M M M M M M							1	l m	C			<u></u>	8					101		
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2 16-126-CCR2 3 23 16 0934 X GW 1 1 1 1 1 175 355100602					Х	GW	1	1	1	1	1	1	175						355	100602
3 16-127-CCR3 3/23/16 1024 X GW 1 1 1 1 1 183 35510003					X	GW	1	1	1	1	1	1	183						355	100003
4 16-128-CCR4 3/23/16 1/27 X GW 1 1 1 1 1 3015 355100004					X	GW	/	1	1	1	1	1	3015						355	100004
5 16-129-CCR4FD 3)23/16 1144 X GW 1 1 1 1 1 3016 35510005			-	_	X	GW	/	1	1	1	1	1	3016				1 90		355	100005
6 16-130-CCR5 3/23/16 1525 X GW 1 1 1 1 1 1 1066 355100006					X	GW	v	1		1	1	1	1066							
7 16-131-CCR6 3/23/16 1355 X GW 1 1 1 1 1 4128 355 00007			-		X			-	-	1	1	1	4128			, T			355	00007
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3 16-314-CCR3				12:16	1	Х	GW		1	1	1	1	146							390	200003
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No samples properly preserved.

Acid odded to all preserved samples

(metals, lithium, ladium) seud 6/15 Revised 6/15 below 2.

Sup 9/22/16

Form # S1 Version 1.0

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JEA. Laboratory Services 1002 Main Street North Jacksonville, FL 32206 Phone (904) 665-4517 Fax (904) 665-8343 2. Site Name Matrix Codes (for item 6) DW = Drinking Water GW = Ground Water SW = Surface Water WW = Waste Water

Laboratory Time Stamp 160920-0184 FI-CERT # ES E459 CHAIN OF CUSTODY RECORD part F of 1 For Lab Use Only Project Number: 2016 SEP 21 PM 2 26 Entered by: Scanned by: Temp. of Contents: \ \ deg. C received under ice JONNEW Berlin Ld. 1. Client SJRPP 904-665-7886 phone: 10. Analysis Requested 11. Turnaround Time (circle) ### ### ### 8. Preservative STANDARD Groundwater CCR Wells Coal Rule 9. Container Type ### ### ### Sul 12. Laboratory Section Preservative Codes Container Codes C (for item 9) (for item 8) Fluoride, 0 Pace V = VOA vial C = Cool Only F = Filtered 226/228 H = HCL OT=Other G = Glass 7. Container Num/Letter/Lot N = HNO3 AG = Amber Glass OH = NaOH P = Plastic Chloride, SG = Sludge OI = Oil S = H2SO4 M = Micro bag/cup Radium SF = Solid Fuel T = Na2S2O3 C = Cubitainer N SL = Soil W = NPW OT = Other D = Dark OT = Other E R 4 6 В С EF G Н J K 13. Lims ID Comp Grab Matrix Let Α No Sample Desc or Field ID Date Time 16-312-CCR1 9/20/16/13:05 X GW 1 2 S160920PPCCR1XX01 9/20/16/12:40 X GW 1 1 2 16-313-CCR2 S160920PPCCR2XX01 16-314-CCR3 9/20/16/12:10 X 1 2 GW 1 S160920PPCCR3XX01 X 2 16-315-CCR4 GW 1 1 S160920PPCCR4XX01 X 1 2 16-316-CCR5 GW 1 16 11100 S160920PPCCR5XX01 6 9/20/16/09:35 X 2 16-317-CCR6 GW 1 1 S160920PPCCR6XX01 9/20/16/08:49 X 1 16-318-CCR7 2 GW S160920PPCCR7XX01 14. Sampled By (Signature) Sampled By (Signature) San 15.Samp No Date Time 1-7 seeq Sampled By (Signature) Sampled By (Signature) Samp No Date Time Samp No Date Time 18. Shipping Method: 19. Send Report To. 17. Received By: Date Time 16. Relinguished By Date Time 9,21-16 1426 Hand delivered Name: 2 9/22/1/11/40 Bus Location/ Address: Courier 4 Other River Flow: Treated Flow: Instructions on back 20. Remarks:

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Jacksonville, FL 32206 Phone (904) 665-4517							JRP	D											1 322	
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Laboratory Services 1002 Main Street North Jacksonville, FL 32206 Phone (904) 665-4517 Fax (904) 665-8343	2017 FEB 2	23 AM	10 12	Ter	mp. of (Client	y: Conter		at the sales		eceive	ed un		ess:	JU	× F	665-	7886
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Jacksonville, FL 32206 Phone (904) 665-4517							JRP	P											1 322	
Fax (904) 665-8343						٦	JIXI	'							phor	ne:	90	04-	665-78	86
2 Site Name										10. /	Analy	sis R	eques	sted						ound Time (circle)
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Laboratory Services 1002 Main Street North Jacksonville, FL 32206 Laboratory Time Stamp

2017 APR 19 AM 10 55

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F CUSTODY RECORD	part 1 of XA	W

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All.	170419-012	

CHAIN OF CUSTODY F	RECORD	part 1 of	r4	v//	1/04	19-0
For Lab Use Only	Project N	lumber:				
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Temp. of Contents: 3 deg.	C received un		N			- 1
1. Client					Berlin	Rd
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Phone (904) 665-4517 Fax (904) 665-8343		SJ	IRPP						phone:	J 0	904-665	-7886
2. Site Name		<u> </u>			10. A	nalysis	Reque					ound Time (circle)
Groundwater CCR We	lls	Preservative Container Type	N e P	N P	C P						STANDA	ARD
Matrix Codes Present (for iter (for	Only F = Filtered OT=Other O3 aOH O4 S2O3	Container Codes (for item 9) V = VOA vial G = Glass AG = Amber Glass P = Plastic M = Micro bag/cup C = Cubitainer OT = Other	BZ-∀-ZOO 0, As, Ba, Be, B, Cd, 0	Co, Pb, Hg, Mo, Se,	TDS	PP-INFO	eld colla.				Springfi	etory Section ield ner Num/Letter/Lot
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4 17-135-CCR4	4-18-17 0825	X GW	1	1	1	1 25					47	2160004
5 17-136-CCR5	4-18-17 0945	X GW	1	1	1	1 8)					42	Slaces
6 17-137-CCR6	4-18-17 1005	X GW	1	1	1	1 37					425	8100006
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_	17-133-CCR2		18-17	1210		Х	GW	+	1	1	2	1							-	S17041	18PPCCR2XX01	
_	17-134-CCR3		4-18-17	1140		Х	GW		1	1	2								-	S17041	18PPCCR3XX01	
	17-135-CCR4		1-18-17	0825		Х	GW	1	1	1	2								-	S17041	8PPCCR4XX01	"
_	17-136-CCR5	14	1011	0945		Х	GW	+	1	1	2								-		8PPCCR5XX01	-
_	17-137-CCR6	1	1-18-17	1005		Х	GW		1	1	2					-			-		8PPCCR6XX01	
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Jacksonville, FL 32206 Phone (904) 665-4517 Fax (904) 665-8343						S	JRP	P							phoi		J	ax	04-665	32226 7886	
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Fax (904) 665-8343		.,,					-			10	Vb-	- D	£ 20 .	.1. 1	phor	ne:	•	104	1-665	1886		
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SW = Surface Water WW = Waste Water	N = HNO3 OH = NaOF	1		AG =		Glass	T	Ba, I	Pb, F			<u>ğ</u>							7. Containe	er Num/Letter/Lot		
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2 17-193-CCR2	/	71-55-17	1433	1 = 1	Х	GW		1	1	1	1								4390	40000 K3	AL	04/23/17
3 17-194-CCR3		5-22-17	1157		Х	GW		1	1	1	1								439	400004		
4 17-195-CCR4		6-22-17	1125		Х	GW		1	1	1	1		Ţ.						439	400005		
5 17-196-CCR5		6-22-17	1505		Х	GW		1	1	1	1								439	400000		
6 17-197-CCR6		6-22-17	1603		Х	GW		1	1	1	1								439	400007		
7 17-198-CCR7		6-22-17	10-1		Х	GW		1	1	1	1		71						439	400095		
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SG = Sludge OI = Oil SL = Soil SF = Solid Fuel				C = Cubita	ainer	N	orid	ium	inu										
V = NPW OT = Other	D = Dark	1 4		OT = Othe	6	R	Chloride,	Lithium	Radium										
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17-195-CCR4		6-22-17	1125		1	_	1	1	1								-	S170622	PPCCR5XX01
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6 17-197-CCR6		6-22-17		X		-	1	1	1	-	-			-		-	-	1	2PPCCR7XX01
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20. Remarks: Instructions on back

Treated Flow:

Courier_

River Flow:

TABLE A-12 - OCTOBER 2017 DETECTION MONITORING SAMPLING LABORATORY ANALYTICAL RESULTS

					APPENDIX II	<u> </u>			FIELD PARAMETERS									
Sample ID	Sample Date	Boron (ug/L)	Calcium (ug/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (Field) (S.U.)	Sulfate (mg/L)	Residue, Filterable (TDS) (mg/L)	DO (Field) Concentration (mg/L)	Field Turb (NTU)	Reference Elevation (Feet)	Specific Conductance (Field) (umhos/cm)	Temp (Field) (Deg.C)					
CCR 1	11-Oct-17	89.9	2659.6	22.0	0.063	4.71	10.2	90	2.10	1.07	11.9	142	24.31					
CCR 2	11-Oct-17	399.66	6245.2	17.5	0.089	4.26	86.0	193	1.56	3.91	13.0	293	24.43					
CCR 3	11-Oct-17	86.0	5591.8	8.1	0.053	4.05	31.1	78	1.55	.35	12.8	125	24.17					
CCR 4	11-Oct-17	22143	399300	77.4	0.51	5.15	1290	2412	.51	706	12.0	2748	24.83					
CCR 4 DUP	11-Oct-17	23139	414590	78.4	0.50	5.15	1280	2458	.51	706	12.0	2748	24.83					
CCR 5	11-Oct-17	2316.6	18947	189	0.11	4.29	98.3	490	1.05	6.74	9.8	851	24.40					
CCR 6	11-Oct-17	25155	287730	122	0.17 U	4.73	1690	2753	.80	2.56	9.2	3417	24.76					
CCR 7	11-Oct-17	17099	134130	145	0.10	4.25	1150	2022	1.14	1.65	9.3	2766	24.41					
Field Blank	11-Oct-17	1.66	4.94															

TABLE A-13 - DECEMBER 2017 DETECTION MONITORING VERIFICATION SAMPLING LABORATORY ANALYTICAL RESULTS

Sample ID	Sample Date	Boron (ug/L)	Calcium (ug/L)	Chloride (mg/L)	Fluoride (mg/L)	Sulfate (mg/L)	Residue, Filterable (TDS) (mg/L)
CCR 4	11-Oct-17	21452	420710	65.8	0.40	1320	2240
CCR 5	11-Oct-17	2075.7	15387	178	0.12	49.6	426
CCR 6	11-Oct-17	24132	290760	111		1700	2646
CCR 7	11-Oct-17	19904	154870	135	0.17 U	1350	2196

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JEA.						- 1	CHAI				DDY	REC				1 01		10/1	3117	171	010-0	714
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Laboratory Services 1002 Main Street North	,*	17 OC	T-13 AM	10:	31		emp.		nten	(S:	deg	. C r	eceiv	ea un		ress:	<u> </u>	IN The state of th	1 1101	1620	(- OA	
Jacksonville, FL 32206						,	. One	ille engine	Sec. 18	(V) X (V)	Medical Service				, tuu		11	201	r/eu	7777	in Rd	
Phone (904) 665-4517						5	SJRF	P										LIK.	110	2220,		
Fax (904) 665-8343				N. Fest				l a series	The state of the s	40 /) l	i. D			phoi		90	94-	665 -	7880	e (circle) 🧓	
2. Site Name			v. 10.0000000000000000000000000000000000				The state of the s	\$55 x 200	Antenative	T	Analys	SIS K	eque	stea		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Triuma	rouna IIII	e (circle) 🦠	
Groundwater CCI	D Wall					vative		C		N		-		-			<u> </u>	_	STAND	ARD		
	Preserva		99	-		ner Ty Code		P		P	-		-				-		12 Labor	ratory Sec	lion	
(for item 6)	(for item		3. 3.	100 ACC	item 9		C						}						12	utory coo		1. 4.
DW = Drinking Water	C = Cool O		Filtered	1	'OA via	al	0												Spring	field		
GW = Ground Water SW = Surface Water	H = HCL N = HNO3		Other	G = 0		Glass	N												7 Contai	ner Num/l	etter/Lot	e plan a De
WW = Waste Water	OH = NaOl			P = P		Glass	A												7. Ooman	TIOI TTGITISE	Ottombot	
SG = Sludge OI = Oil SL = Soil SF = Solid Fuel							I N		요													
W = NPW OT = Other							E	TDS	PP-INFO	Ca												
3	19 1	4	ra significants			6	R			m			_	<u> </u>	11			1/	13. Lims		Control of the Bo	VE CESS
No Sample Desc or Field		Date ·	Time 1221	Comp	Grab	Matrix			В	C	D	E	F	G	H		J		A CO	250		Servert that
1 17-322-CCR1		10-11-17	ļ · · · · · · · · · · · · · · · · · · ·			GW		1	1	1			-	ļ					1 100	500		
2 17-323-CCR2		16-11-17	 		X	GW		1	1	1			-	-					401	7,5,5		
3 17-324-CCR3			1330		Х	GW		1	1	1			ļ						40		003	
4 17-325-CCR4		10-/1-17	 		Х	GW		1	1	1			ļ						276	-	004	
5 17-326-CCR5		10-11-17	938		Х	GW		1	1	1									46	2510	005	
6 17-327-CCR6		10-11-17			Х	GW		1	1	1									40	25001	000	
7 17-328-CCR7		10-11-17	2646		Х	GW		1	1	1									46	25001	007	
14.Sampled By (Signature) /	15.8	Samp No		Date	Time	9			Sam	pled E	3y (S	ignat	ure)				San	np No	Date	Time	
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Laboratory Services 1002 Main Street North Jacksonville, FL 32206 Phone (904) 665-4517	21.4	17 OCT	-13 AM	10:3)2	T.		of Co		ts: <u>3</u>	deg	. C r	eceive		der id	ress:	112 Ja,	N 01 x F	New Be 4-3272 55-7886	rl:n R 6	d	2
Fax (904) 665-8343 2. Site Name	L Selection of C		werten name	galderade	\$10 max 102	4 (2 (2 Y & 1 (3)	- N N	33.70	ENTER SE	10.7	Analy	sis R	eques	sted	Iphioi	ic.	709	00	11.Turnaro	und Time	e (circle) 🔀	No. of the last
Groundwater CC			And The Address of the A	8. P	reser	vative ner Ty		С		N P									STANDA			
Matrix Codes (for item 6) DW = Drinking Water GW = Ground Water SW = Surface Water WW = Waste Water SG = Sludge OI = Oil		ative Code (8) Only F = F OT=0 OH 4	es iltered Other	Con (for i V = V G = C AG = P = P M = N C = C	tainer item 9 OA via Blass Amber	Codes (a) (b) (c) (d) (d)			PP-INFO	Ca									12. Labora Springfie 7. Containe	eld		
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APPENDIX B STATISTICAL WORKSHEETS

One-Way Analysis of Variance Report

1

Dataset C:\Users\sstafford\Documents\NCSS 11\Data\SJRPP\TDS.NCSS

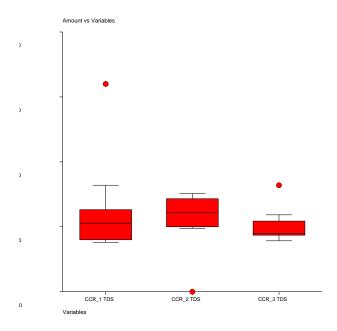
Response CCR_1 TDS,CCR_2 TDS,CCR_3 TDS

Tests of the Normality of Residuals Assumption

	Test	Prob	Reject Normality?
Normality Attributes	Value	Level	(α=0.05)
Skewness	3.6972	0.00022	Yes
Kurtosis	3.9142	0.00009	Yes
Skewness and Kurtosis (Omnibus)	28.9897	0.00000	Yes

Tests of the Equality of Group Variances Assumption

	Test	Prob	Reject Equal Variances?
Test Name	Value	Level	$(\alpha = 0.05)$
Brown-Forsythe (Data - Medians)	0.9029	0.41613	No
Levene (Data - Means)	1.2557	0.29941	No
Conover (Ranks of Deviations)	3.9863	0.13627	No
Bartlett (Likelihood Ratio)	9.4417	0.00891	Yes



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One-Way Analysis of Variance Report

Dataset C:\Users\sstafford\Documents\NCSS 11\Data\SJRPP\TDS.NCSS

Response CCR_1 TDS,CCR_2 TDS,CCR_3 TDS

Analysis of Variance Table and F-Test

						Reject Equal	
Model		Sum of	Mean		Prob	Means?	Power
Term	DF	Squares	Square	F-Ratio	Level	$(\alpha = 0.05)$	$(\alpha = 0.05)$
Between	2	3478.061	1739.03	0.7190	0.49545	No	0.16007
Within (Error)	30	72560.91	2418.697				
Adjusted Total	32	76038.97					
Total	33						

Kruskal-Wallis One-Way ANOVA on Ranks

Hypotheses

H0: All medians are equal.

H1: At least two medians are different.

Test Results

1621 K620112				
		Chi-Squared	Prob	Reject H0?
Method	DF	· (H)	Level	$(\alpha = 0.05)$
Not Corrected for Ties	2	3.7224	0.15549	No
Corrected for Ties	2	3.7237	0.15539	No
Number Sets of Ties	2			
Multiplicity Factor	12			

Group Detail

		Sum of	Mean		
Group	Count	Ranks	Rank	Z-Value	Median
CCR_1 TDS	11	186.50	16.95	-0.0191	106
CCR_2 TDS	11	231.00	21.00	1.6803	122
CCR_3 TDS	11	143.50	13.05	-1.6612	90

Normal Scores Tests

Hypotheses

H0: All group data distributions are the same.

H1: At least one group has observations that tend to be greater than those of the other groups.

C	hi-Squared	Prob	Reject H0?	
DF	(H)	Level	$(\alpha = 0.05)$	
2	2.1933	0.33398	No	
2	2.3981	0.30148	No	
	_	DF (H) 2 2.1933	2 2.1933 0.33398	

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One-Way Analysis of Variance Report

Dataset C:\Users\sstafford\Documents\NCSS 11\Data\SJRPP\TDS.NCSS

Response CCR_1 TDS,CCR_2 TDS,CCR_3 TDS

Descriptive Statistics

Group	Count (ni)	Mean	Effect	Median	Standard Deviation	Standard Error √(MSE/ni)
All	33	113.303	113.303			
A:						
CCR_1 TDS	11	125.3636	12.06061	106	69.62366	14.8284
CCR_2 TDS	11	114.2727	0.969697	122	42.49257	14.8284
CCR_3 TDS	11	100.2727	-13.0303	90	24.55643	14.8284

Tukey-Kramer Multiple-Comparison Test

Response: CCR_1 TDS,CCR_2 TDS,CCR_3 TDS

Term A:

Alpha=0.050 Error Term=S(A) DF=30 MSE=2418.697 Critical Value=3.4937

			Different From
Group	Count	Mean	Groups
CCR_1 TDS	11	125.3636	
CCR_2 TDS	11	114.2727	
CCR_3 TDS	11	100.2727	

Notes:

One-Way Analysis of Variance Report

Dataset C:\Users\sstafford\Documents\NCSS 11\Data\SJRPP\Sulfate.NCSS

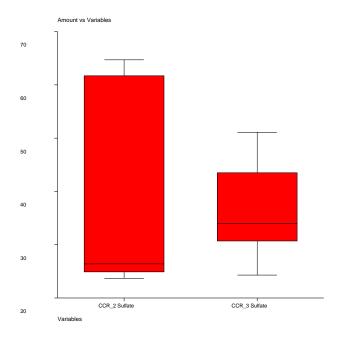
Response CCR_2 Sulfate,CCR_3 Sulfate

Tests of the Normality of Residuals Assumption

	Test	Prob	Reject Normality?
Normality Attributes	Value	Level	(α=0.05)
Skewness	2.0696	0.03849	Yes
Kurtosis	0.1789	0.85800	No
Skewness and Kurtosis (Omnibus)	4.3153	0.11560	No

Tests of the Equality of Group Variances Assumption

	Test	Prob	Reject Equal Variances?
Test Name	Value	Level	(α=0.05)
Brown-Forsythe (Data - Medians)	1.0718	0.31289	No
Levene (Data - Means)	7.2197	0.01418	Yes
Conover (Ranks of Deviations)	5.8914	0.01522	Yes
Bartlett (Likelihood Ratio)	4.6593	0.03089	Yes



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One-Way Analysis of Variance Report

Dataset C:\Users\sstafford\Documents\NCSS 11\Data\SJRPP\Sulfate.NCSS

Response CCR_2 Sulfate,CCR_3 Sulfate

Analysis of Variance Table and F-Test

						Reject Equal	
Model		Sum of	Mean		Prob	Means?	Power
Term	DF	Squares	Square	F-Ratio	Level	$(\alpha = 0.05)$	$(\alpha = 0.05)$
Between	1	1.636364	1.636364	0.0091	0.92507	No	0.05094
Within (Error)	20	3608.082	180.4041				
Adjusted Total	21	3609.718					
Total	22						

Kruskal-Wallis One-Way ANOVA on Ranks

Hypotheses

H0: All medians are equal.

H1: At least two medians are different.

Test Results

i est ivesuits				
		Chi-Squared	Prob	Reject H0?
Method	DF	(H)	Level	(α=0.05)
Not Corrected for Ties	1	0.8451	0.35793	No
Corrected for Ties	1	0.8456	0.35780	No
Number Sets of Ties	1			
Multiplicity Factor	6			

Group Detail

		Sum of	Mean		
Group	Count	Ranks	Rank	Z-Value	Median
CCR_2 Sulfate	11	112.50	10.23	-0.9193	26.4
CCR 3 Sulfate	11	140.50	12.77	0.9193	34

Normal Scores Tests

Hypotheses

H0: All group data distributions are the same.

H1: At least one group has observations that tend to be greater than those of the other groups.

Results

	C	hi-Squared	Prob	Reject H0?
Test	DF	(H)	Level	$(\alpha = 0.05)$
Terry-Hoeffding - Expected Normal Scores	1	0.4708	0.49262	No
Van der Waerden - Normal Quantiles	1	0.5185	0.47147	No

Descriptive Statistics

Group	Count (ni)	Mean	Effect	Median	Standard Deviation	Standard Error √(MSE/ni)
All	22	36.50909	36.50909			
A:						
CCR_2 Sulfate	11	36.78182	0.2727273	26.4	17.10607	4.049737
CCR_3 Sulfate	11	36.23636	-0.2727273	34	8.257756	4.049737

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One-Way Analysis of Variance Report

Dataset C:\Users\sstafford\Documents\NCSS 11\Data\SJRPP\Sulfate.NCSS

Response CCR_2 Sulfate, CCR_3 Sulfate

Tukey-Kramer Multiple-Comparison Test

Response: CCR_2 Sulfate, CCR_3 Sulfate

Term A:

Alpha=0.050 Error Term=S(A) DF=20 MSE=180.4041 Critical Value=2.9581

Group	Count	Mean	Different From Groups
CCR_2 Sulfate	11	36.78182	-
CCR_3 Sulfate	11	36.23636	

Notes:

One-Way Analysis of Variance Report

Dataset C:\Users\sstafford\Documents\NCSS 11\Data\SJRPP\pH.NCSS

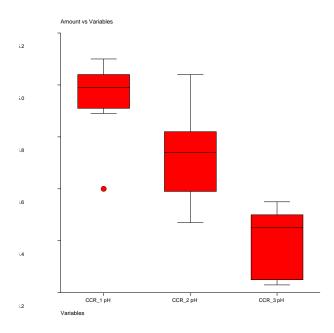
Response CCR_1 pH,CCR_2 pH,CCR_3 pH

Tests of the Normality of Residuals Assumption

	Test	Prob	Reject Normality?
Normality Attributes	Value	Level	$(\alpha = 0.05)$
Skewness	-1.3748	0.16921	No
Kurtosis	1.0575	0.29030	No
Skewness and Kurtosis (Omnibus)	3.0082	0.22222	No

Tests of the Equality of Group Variances Assumption

	Test	Prob	Reject Equal Variances?
Test Name	Value	Level	$(\alpha = 0.05)$
Brown-Forsythe (Data - Medians)	0.4632	0.63370	No
Levene (Data - Means)	0.4091	0.66789	No
Conover (Ranks of Deviations)	1.5011	0.47210	No
Bartlett (Likelihood Ratio)	0.9634	0.61773	No



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One-Way Analysis of Variance Report

Poince

Dataset C:\Users\sstafford\Documents\NCSS 11\Data\SJRPP\pH.NCSS

Response CCR_1 pH,CCR_2 pH,CCR_3 pH

Analysis of Variance Table and F-Test

						Equal	
Model		Sum of	Mean		Prob	Means?	Power
Term	DF	Squares	Square	F-Ratio	Level	$(\alpha = 0.05)$	$(\alpha = 0.05)$
Between	2	1.657715	0.8288576	43.4274	0.00000	Yes	1.00000
Within (Error)	30	0.5725818	0.01908606				
Adjusted Total	32	2.230297					
Total	33						

Kruskal-Wallis One-Way ANOVA on Ranks

Hypotheses

H0: All medians are equal.

H1: At least two medians are different.

Test Results

		Chi-Squared	Prob	Reject H0?
Method	DF	· (H)	Level	$(\alpha = 0.05)$
Not Corrected for Ties	2	24.0297	0.00001	Yes
Corrected for Ties	2	24.0659	0.00001	Yes
Number Sets of Ties	6			
Multiplicity Factor	54			

Group Detail

		Sum of	Mean		
Group	Count	Ranks	Rank	Z-Value	Median
CCR_1 pH	11	290.50	26.41	3.9526	4.99
CCR_2 pH	11	201.00	18.27	0.5347	4.74
CCR_3 pH	11	69.50	6.32	-4.4873	4.45

Normal Scores Tests

Hypotheses

H0: All group data distributions are the same.

H1: At least one group has observations that tend to be greater than those of the other groups.

	C	hi-Squared	Prob	Reject HU?
Test	DF	(H)	Level	$(\alpha = 0.05)$
Terry-Hoeffding - Expected Normal Scores	2	22.2208	0.00001	Yes
Van der Waerden - Normal Quantiles	2	22.5448	0.00001	Yes

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One-Way Analysis of Variance Report

Dataset C:\Users\sstafford\Documents\NCSS 11\Data\SJRPP\pH.NCSS

Response CCR_1 pH,CCR_2 pH,CCR_3 pH

Descriptive Statistics

Group	Count (ni)	Mean	Effect	Median	Standard Deviation	Standard Error √(MSE/ni)
All	33	4.699697	4.699697			
A:						
CCR_1 pH	11	4.951818	0.2521212	4.99	0.1345227	0.04165449
CCR_2 pH	11	4.74	0.04030303	4.74	0.1599375	0.04165449
CCR_3 pH	11	4.407273	-0.2924242	4.45	0.1165411	0.04165449

Tukey-Kramer Multiple-Comparison Test

Response: CCR_1 pH,CCR_2 pH,CCR_3 pH

Term A:

Alpha=0.050 Error Term=S(A) DF=30 MSE=0.01908606 Critical Value=3.4937

Group	Count	Mean	Different From Groups
CCR_1 pH	11	4.951818	CCR_2 pH, CCR_3 pH
CCR_2 pH	11	4.74	CCR_1 pH, CCR_3 pH
CCR_3 pH	11	4.407273	CCR_1 pH, CCR_2 pH

Notes:

NCSS 11.0.8 1/5/2018 1:55:06 PM

One-Way Analysis of Variance Report

1

Dataset C:\...\sstafford\Documents\NCSS 11\Data\SJRPP\Fluoride.NCSS

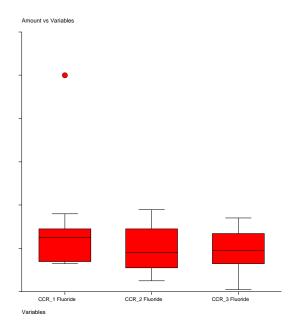
Response CCR_1 Fluoride,CCR_2 Fluoride,CCR_3 Fluoride

Tests of the Normality of Residuals Assumption

	Test	Prob	Reject Normality?
Normality Attributes	Value	Level	$(\alpha = 0.05)$
Skewness	4.8414	0.00000	Yes
Kurtosis	4.3030	0.00002	Yes
Skewness and Kurtosis (Omnibus)	41.9549	0.00000	Yes

Tests of the Equality of Group Variances Assumption

	Test	Prob	Reject Equal Variances?
Test Name	Value	Level	$(\alpha = 0.05)$
Brown-Forsythe (Data - Medians)	0.5903	0.56046	No
Levene (Data - Means)	0.9336	0.40428	No
Conover (Ranks of Deviations)	1.0016	0.60605	No
Bartlett (Likelihood Ratio)	10.9182	0.00426	Yes



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One-Way Analysis of Variance Report

Dataset C:\...\sstafford\Documents\NCSS 11\Data\SJRPP\Fluoride.NCSS

Response CCR_1 Fluoride,CCR_2 Fluoride,CCR_3 Fluoride

Analysis of Variance Table and F-Test

						Reject Equal	
Model		Sum of	Mean		Prob	Means?	Power
Term	DF	Squares	Square	F-Ratio	Level	$(\alpha = 0.05)$	$(\alpha = 0.05)$
Between	2	0.0006838788	0.0003419394	1.2494	0.30116	No	0.25065
Within (Error)	30	0.008210364	0.0002736788				
Adjusted Total	32	0.008894242					
Total	33						

Kruskal-Wallis One-Way ANOVA on Ranks

Hypotheses

H0: All medians are equal.

H1: At least two medians are different.

Test Results

1621 K620112				
		Chi-Squared	Prob	Reject H0?
Method	DF	· (H)	Level	$(\alpha = 0.05)$
Not Corrected for Ties	2	1.5678	0.45662	No
Corrected for Ties	2	1.5720	0.45566	No
Number Sets of Ties	7			
Multiplicity Factor	96			

Group Detail

		Sum of	Mean		
Group	Count	Ranks	Rank	Z-Value	Median
CCR_1 Fluoride	11	219.50	19.95	1.2412	0.065
CCR_2 Fluoride	11	167.00	15.18	-0.7638	0.058
CCR_3 Fluoride	11	174.50	15.86	-0.4774	0.059

Normal Scores Tests

Hypotheses

H0: All group data distributions are the same.

H1: At least one group has observations that tend to be greater than those of the other groups.

	C	nı-Squared	Prob	Reject HU?	
Test	DF	(H)	Level	$(\alpha = 0.05)$	
Terry-Hoeffding - Expected Normal Scores	2	2.0279	0.36279	No	
Van der Waerden - Normal Quantiles	2	1.9664	0.37412	No	

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One-Way Analysis of Variance Report

Dataset C:\...\sstafford\Documents\NCSS 11\Data\SJRPP\Fluoride.NCSS

Response CCR_1 Fluoride,CCR_2 Fluoride,CCR_3 Fluoride

Descriptive Statistics

Group	Count (ni)	Mean	Effect	Median	Standard Deviation	Standard Error √(MSE/ni)
All	33	0.06248485	0.06248485			
A:						
CCR_1 Fluoride	11	0.06890909	0.006424243	0.065	0.02476471	0.004987975
CCR_2 Fluoride	11	0.05963636	-0.002848485	0.058	0.01067963	0.004987975
CCR_3 Fluoride	11	0.05890909	-0.003575758	0.059	0.009679407	0.004987975

Tukey-Kramer Multiple-Comparison Test

Response: CCR_1 Fluoride, CCR_2 Fluoride, CCR_3 Fluoride

Term A:

Alpha=0.050 Error Term=S(A) DF=30 MSE=0.0002736788 Critical Value=3.4937

Group	Count	Mean	Different From Groups
CCR_1 Fluoride	11	0.06890909	•
CCR_2 Fluoride	11	0.05963636	
CCR_3 Fluoride	11	0.05890909	

Notes:

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One-Way Analysis of Variance Report

1

Dataset C:\...\sstafford\Documents\NCSS 11\Data\SJRPP\Chloride.NCSS

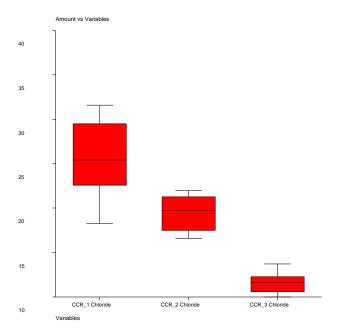
Response CCR_1 Chloride, CCR_2 Chloride, CCR_3 Chloride

Tests of the Normality of Residuals Assumption

	Test	Prob	Reject Normality?
Normality Attributes	Value	Level	$(\alpha = 0.05)$
Skewness	-0.5108	0.60946	No
Kurtosis	1.4337	0.15167	No
Skewness and Kurtosis (Omnibus)	2.3164	0.31406	No

Tests of the Equality of Group Variances Assumption

	Test	Prob	Reject Equal Variances?
Test Name	Value	Level	$(\alpha = 0.05)$
Brown-Forsythe (Data - Medians)	6.8314	0.00359	Yes
Levene (Data - Means)	7.1906	0.00281	Yes
Conover (Ranks of Deviations)	11.7873	0.00276	Yes
Bartlett (Likelihood Ratio)	13.7904	0.00101	Yes



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One-Way Analysis of Variance Report

Dataset C:\...\sstafford\Documents\NCSS 11\Data\SJRPP\Chloride.NCSS

Response CCR_1 Chloride,CCR_2 Chloride,CCR_3 Chloride

Analysis of Variance Table and F-Test

						Reject Equal	
Model		Sum of	Mean		Prob	Means?	Power
Term	DF	Squares	Square	F-Ratio	Level	$(\alpha = 0.05)$	$(\alpha = 0.05)$
Between	2	1084.182	542.0912	76.1267	0.00000	Yes	1.00000
Within (Error)	30	213.6273	7.120909				
Adjusted Total	32	1297.81					
Total	33						

Kruskal-Wallis One-Way ANOVA on Ranks

Hypotheses

H0: All medians are equal.

H1: At least two medians are different.

Test Results

		Chi-Squared	Prob	Reject H0?
Method	DF	· (H)	Level	$(\alpha = 0.05)$
Not Corrected for Ties	2	26.7127	0.00000	Yes
Corrected for Ties	2	26.7172	0.00000	Yes
Number Sets of Ties	1			
Multiplicity Factor	6			

Group Detail

		Sum of	Mean		
Group	Count	Ranks	Rank	Z-Value	Median
CCR_1 Chloride	11	300.00	27.27	4.3154	25.4
CCR_2 Chloride	11	195.00	17.73	0.3055	19.7
CCR_3 Chloride	11	66.00	6.00	-4.6209	11.6

Normal Scores Tests

Hypotheses

H0: All group data distributions are the same.

H1: At least one group has observations that tend to be greater than those of the other groups.

	(hi-Squared	Prob	Reject H0?
Test	DF	(H)	Level	$(\alpha = 0.05)$
Terry-Hoeffding - Expected Normal Scores	2	24.7772	0.00000	Yes
Van der Waerden - Normal Quantiles	2	25.1541	0.00000	Yes

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One-Way Analysis of Variance Report

Dataset C:\...\sstafford\Documents\NCSS 11\Data\SJRPP\Chloride.NCSS

Response CCR_1 Chloride, CCR_2 Chloride, CCR_3 Chloride

Descriptive Statistics

Group	Count (ni)	Mean	Effect	Median	Standard Deviation	Standard Error √(MSE/ni)
All	33	18.89697	18.89697			
A:						
CCR_1 Chloride	11	25.59091	6.693939	25.4	4.034217	0.804584
CCR_2 Chloride	11	19.50909	0.6121212	19.7	1.909688	0.804584
CCR_3 Chloride	11	11.59091	-7.306061	11.6	1.200379	0.804584

Tukey-Kramer Multiple-Comparison Test

Response: CCR_1 Chloride, CCR_2 Chloride, CCR_3 Chloride

Term A:

Alpha=0.050 Error Term=S(A) DF=30 MSE=7.120909 Critical Value=3.4937

Group	Count	Mean	Different From Groups
CCR_1 Chloride	11	25.59091	CCR_2 Chloride, CCR_3 Chloride
CCR_2 Chloride	11	19.50909	CCR_1 Chloride, CCR_3 Chloride
CCR_3 Chloride	11	11.59091	CCR_1 Chloride, CCR_2 Chloride

Notes:

NCSS 11.0.8 1/5/2018 1:50:25 PM

One-Way Analysis of Variance Report

1

Dataset C:\Users\sstafford\Documents\NCSS 11\Data\SJRPP\Calcium.NCSS

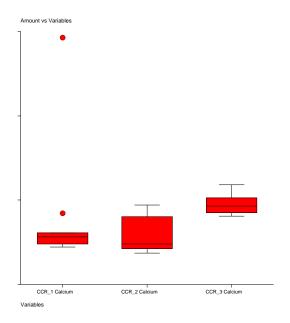
Response CCR_1 Calcium, CCR_2 Calcium, CCR_3 Calcium

Tests of the Normality of Residuals Assumption

	Test	Prob	Reject Normality?
Normality Attributes	Value	Level	(α=0.05)
Skewness	5.9995	0.00000	Yes
Kurtosis	5.0717	0.00000	Yes
Skewness and Kurtosis (Omnibus)	61.7164	0.00000	Yes

Tests of the Equality of Group Variances Assumption

	Test	Prob	Reject Equal Variances?
Test Name	Value	Level	$(\alpha = 0.05)$
Brown-Forsythe (Data - Medians)	0.6090	0.55050	No
Levene (Data - Means)	2.3604	0.11168	No
Conover (Ranks of Deviations)	11.2867	0.00354	Yes
Bartlett (Likelihood Ratio)	28.9970	0.00000	Yes



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One-Way Analysis of Variance Report

Dataset C:\Users\sstafford\Documents\NCSS 11\Data\SJRPP\Calcium.NCSS

Response CCR_1 Calcium, CCR_2 Calcium, CCR_3 Calcium

Analysis of Variance Table and F-Test

Model Term	DF	Sum of Squares	Mean Square	F-Ratio	Prob Level	Reject Equal Means? (α=0.05)	Power (α=0.05)
Between	2	1.80608E+07	9030401	1.8742	0.17102	No	0.35880
Within (Error)	30	1.445519E+08	4818395				
Adjusted Total Total	32 33	1.626127E+08					
i otai	33						

Kruskal-Wallis One-Way ANOVA on Ranks

Hypotheses

H0: All medians are equal.

H1: At least two medians are different.

Test Results

		Chi-Squared	Prob	Reject H0?
Method	DF	· (H)	Level	$(\alpha = 0.05)$
Not Corrected for Ties	2	14.5046	0.00071	Yes
Corrected for Ties	2	14.5046	0.00071	Yes
Number Sets of Ties	0			
Multiplicity Factor	0			

Group Detail

		Sum of	Mean		
Group	Count	Ranks	Rank	Z-Value	Median
CCR_1 Calcium	11	154.00	14.00	-1.2603	2811
CCR_2 Calcium	11	122.00	11.09	-2.4823	2402.6
CCR_3 Calcium	11	285.00	25.91	3.7426	4651.8

Normal Scores Tests

Hypotheses

H0: All group data distributions are the same.

H1: At least one group has observations that tend to be greater than those of the other groups.

	(hi-Squared	Prob	Reject H0?
Test	DF	(H)	Level	$(\alpha = 0.05)$
Terry-Hoeffding - Expected Normal Scores	2	12.6251	0.00181	Yes
Van der Waerden - Normal Quantiles	2	12.9433	0.00155	Yes

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One-Way Analysis of Variance Report

Dataset C:\Users\sstafford\Documents\NCSS 11\Data\SJRPP\Calcium.NCSS

Response CCR_1 Calcium, CCR_2 Calcium, CCR_3 Calcium

Descriptive Statistics

Group	Count (ni)	Mean	Effect	Median	Standard Deviation	Standard Error √(MSE/ni)
All A:	33	3865.912	3865.912			, ,
CCR 1 Calcium	11	3896.155	30.24242	2811	3602.032	661.8428
CCR_2 Calcium	11	2945.109	-920.803	2402.6	1049.755	661.8428
CCR_3 Calcium	11	4756.473	890.5606	4651.8	615.2778	661.8428

Tukey-Kramer Multiple-Comparison Test

Response: CCR_1 Calcium, CCR_2 Calcium, CCR_3 Calcium

Term A:

Alpha=0.050 Error Term=S(A) DF=30 MSE=4818395 Critical Value=3.4937

			Different From
Group	Count	Mean	Groups
CCR_1 Calcium	11	3896.155	-
CCR_2 Calcium	11	2945.109	
CCR_3 Calcium	11	4756.473	

Notes:

NCSS 11.0.8 1/5/2018 1:49:03 PM

One-Way Analysis of Variance Report

Dataset C:\Users\sstafford\Documents\NCSS 11\Data\SJRPP\Boron.NCSS Response CCR_1 Background,CCR_2 Background,CCR_3 Background

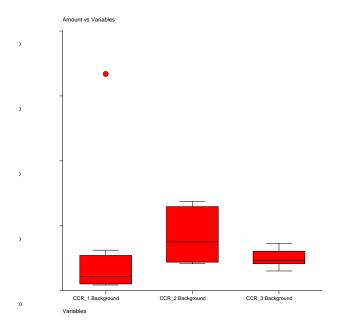
Tests of the Normality of Residuals Assumption

	Test	Prob	Reject Normality?
Normality Attributes	Value	Level	(α=0.05)
Skewness	5.7050	0.00000	Yes
Kurtosis	4.8841	0.00000	Yes
Skewness and Kurtosis (Omnibus)	56.4014	0.00000	Yes

Tests of the Equality of Group Variances Assumption

	Test	Prob	Reject Equal Variances?
Test Name	Value	Level	(α=0.05)
Brown-Forsythe (Data - Medians)	0.9674	0.39161	No
Levene (Data - Means)	2.4639	0.10215	No
Conover (Ranks of Deviations)	10.9604	0.00417	Yes
Bartlett (Likelihood Ratio)	29.4867	0.00000	Yes

Box Plot Section



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One-Way Analysis of Variance Report

Dataset C:\Users\sstafford\Documents\NCSS 11\Data\SJRPP\Boron.NCSS Response CCR_1 Background,CCR_2 Background,CCR_3 Background

Analysis of Variance Table and F-Test

						Reject Equal	
Model		Sum of	Mean		Prob	Means?	Power
Term	DF	Squares	Square	F-Ratio	Level	$(\alpha = 0.05)$	$(\alpha = 0.05)$
Between	2	26600.51	13300.25	0.9432	0.40063	No	0.19785
Within (Error)	30	423043.6	14101.45				
Adjusted Total	32	449644.1					
Total	33						

Kruskal-Wallis One-Way ANOVA on Ranks

Hypotheses

H0: All medians are equal.

H1: At least two medians are different.

Test Results

		Chi-Squared	Prob	Reject H0?
Method	DF	· (H)	Level	$(\alpha = 0.05)$
Not Corrected for Ties	2	9.8260	0.00735	Yes
Corrected for Ties	2	9.8276	0.00734	Yes
Number Sets of Ties	1			
Multiplicity Factor	6			

Group Detail

		Sum of	Mean		
Group	Count	Ranks	Rank	Z-Value	Median
CCR_1 Background	11	114.00	10.36	-2.7878	43.8
CCR_2 Background	11	256.00	23.27	2.6351	151
CCR_3 Background	11	191.00	17.36	0.1528	92.6

Normal Scores Tests

Hypotheses

H0: All group data distributions are the same.

H1: At least one group has observations that tend to be greater than those of the other groups.

Results

	C	nı-Squared	Prob	Reject H0?	
Test	DF	(H)	Level	$(\alpha = 0.05)$	
Terry-Hoeffding - Expected Normal Scores	2	9.1500	0.01031	Yes	
Van der Waerden - Normal Quantiles	2	9.3875	0.00915	Yes	

NCSS 11.0.8 1/5/2018 1:49:03 PM 3

One-Way Analysis of Variance Report

Dataset C:\Users\sstafford\Documents\NCSS 11\Data\SJRPP\Boron.NCSS Response CCR_1 Background,CCR_2 Background,CCR_3 Background

Descriptive Statistics

Group	ount (ni)	Mean	Effect	Median	Standard Deviation	Standard Error √(MSE/ni)
All .	`33	122.8685	122.8685			,
A:						
CCR_1 Background	11	106.2245	-16.64394	43.8	189.5966	35.80433
CCR_2 Background	11	162.8345	39.96606	151	75.70881	35.80433
CCR_3 Background	11	99.54636	-23.32212	92.6	25.01298	35.80433

Tukey-Kramer Multiple-Comparison Test

Response: CCR_1 Background, CCR_2 Background, CCR_3 Background Term A:

Alpha=0.050 Error Term=S(A) DF=30 MSE=14101.45 Critical Value=3.4937

	_		Different From
Group	Count	Mean	Groups
CCR_1 Background	11	106.2245	
CCR_2 Background	11	162.8345	
CCR_3 Background	11	99.54636	

Notes:

This report provides multiple comparison tests for all pairwise differences between the means.

Outlier Tests for Selected Variables replacing nondetects with 1/2 the Detection Limit

Date/Time of Computation ProUCL 5.11/5/2018 2:04:39 PM

From File AppIII_background.xls

Full Precision OFF

Rosner's Outlier Test for 2 Outliers in Result (boron)

Total N 33

Number NDs 0

Number Detects 33

Mean with NDs=DL/2 122.9

SD with NDs=DL/2 118.5

Number of data 33

Number of suspected outliers 2

NDs replaced with half value.

			Potential	Obs.	Test	Critical	Critical
#	Mean	sd	outlier	Number	value	value (5%)	value (1%)
1	122.9	116.7	667.8	11	4.668	2.95	3.29
2	105.8	68.03	274.5	21	2.479	2.94	3.27

For 5% Significance Level, there is 1 Potential Outlier

Therefore, Observation 667.8 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier

Rosner's Outlier Test for 2 Outliers in Result (calcium)

Total N 33

Number NDs 0

Number Detects 33

Mean with NDs=DL/2 3866

SD with NDs=DL/2 2254

Number of data 33

Number of suspected outliers 2

NDs replaced with half value.

Critical	Critical	Test	Obs.	Potential			
value (1%)	value (5%)	value	Number	outlier	sd	Mean	#
3.29	2.95	4.85	11	14632	2220	3866	1
3.27	2.94	2.023	32	5914	1179	3529	2

For 5% Significance Level, there is 1 Potential Outlier

Therefore, Observation 14632 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier

Rosner's Outlier Test for 2 Outliers in Result (fluoride)

Total N 33

Number NDs 0

Number Detects 33

Mean with NDs=DL/2 0.0625

SD with NDs=DL/2 0.0167

Number of data 33

Number of suspected outliers 2

NDs replaced with half value.

			Potential	Obs.	Test	Critical	Critical
#	Mean	sd	outlier	Number	value	value (5%)	value (1%)
1	0.0625	0.0164	0.14	11	4.722	2.95	3.29
2	0.0601	0.00933	0.041	33	2.043	2.94	3.27

For 5% Significance Level, there is 1 Potential Outlier

Therefore, Observation 0.14 is a Potential Statistical Outlier

For 1% Significance Level, there is 1 Potential Outlier

Rosner's Outlier Test for 2 Outliers in Result (ph)

Total N 33

Number NDs 0

Number Detects 33

Mean with NDs=DL/2 4.7

SD with NDs=DL/2 0.264

Number of data 33

Number of suspected outliers 2

NDs replaced with half value.

			Potential	Obs.	Test	Critical	Critical
#	Mean	sd	outlier	Number	value	value (5%)	value (1%)
1	4.7	0.26	4.23	31	1.807	2.95	3.29
2	4.714	0.254	4.25	28	1.827	2.94	3.27

For 5% Significance Level, there is no Potential Outlier

For 1% Significance Level, there is no Potential Outlier

Dixon's Outlier Test for Result (sulfate)

Total N = 22

Number NDs = 0

Number Detects = 22

Number Data (n) = 22

10% critical value: 0.382

5% critical value: 0.43

1% critical value: 0.514

Note: NDs replaced by DL/2 in Outlier Test

1. Data Value 64.7 is a Potential Outlier (Upper Tail)?

Test Statistic: 0.074

For 10% significance level, 64.7 is not an outlier.

For 5% significance level, 64.7 is not an outlier.

For 1% significance level, 64.7 is not an outlier.

2. Data Value 23.7 is a Potential Outlier (Lower Tail)?

Test Statistic: 0.016

For 10% significance level, 23.7 is not an outlier.

For 5% significance level, 23.7 is not an outlier.

For 1% significance level, 23.7 is not an outlier.

Rosner's Outlier Test for 2 Outliers in Result (tds)

Total N 33

0

Number NDs

Number Detects 33

Mean with NDs=DL/2 117.5

SD with NDs=DL/2 44.44

Number of data 33

Number of suspected outliers 2

NDs replaced with half value.

			Potential	Obs.	Test	Critical	Critical
#	Mean	sd	outlier	Number	value	value (5%)	value (1%)
1	117.5	43.76	320	11	4.629	2.95	3.29
2	111.1	25.96	164	4	2.037	2.94	3.27

For 5% Significance Level, there is 1 Potential Outlier

Therefore, Observation 320 is a Potential Statistical Outlier

Outlier Tests for Selected Variables replacing nondetects with 1/2 the Detection Limit User Selected Options

Date/Time of Computation ProUCL 5.11/5/2018 2:09:21 PM

From File AppIII_data.xls

Full Precision OFF

Dixon's Outlier Test for Chloride1

Total N = 11

Number NDs = 0

Number Detects = 11

Number Data (n) = 11

10% critical value: 0.517

5% critical value: 0.576

1% critical value: 0.679

Note: NDs replaced by DL/2 in Outlier Test

1. Data Value 31.6 is a Potential Outlier (Upper Tail)?

Test Statistic: 0.228

For 10% significance level, 31.6 is not an outlier.

For 5% significance level, 31.6 is not an outlier.

For 1% significance level, 31.6 is not an outlier.

2. Data Value 18.3 is a Potential Outlier (Lower Tail)?

Test Statistic: 0.381

For 10% significance level, 18.3 is not an outlier.

For 5% significance level, 18.3 is not an outlier.

For 1% significance level, 18.3 is not an outlier.

Dixon's Outlier Test for pH1

Total N = 11

Number NDs = 0

Number Detects = 11 Number Data (n) = 11

10% critical value: 0.517 5% critical value: 0.576 1% critical value: 0.679

Note: NDs replaced by DL/2 in Outlier Test

1. Data Value 5.1 is a Potential Outlier (Upper Tail)?

Test Statistic: 0.286

For 10% significance level, 5.1 is not an outlier.

For 5% significance level, 5.1 is not an outlier.

For 1% significance level, 5.1 is not an outlier.

2. Data Value 4.6 is a Potential Outlier (Lower Tail)?

Test Statistic: 0.674

For 10% significance level, 4.6 is an outlier.

For 5% significance level, 4.6 is an outlier.

For 1% significance level, 4.6 is not an outlier.

Dixon's Outlier Test for pH3

Total N = 11

Number NDs = 0

Number Detects = 11

Number Data (n) = 11

10% critical value: 0.517

5% critical value: 0.576

1% critical value: 0.679

Note: NDs replaced by DL/2 in Outlier Test

1. Data Value 4.55 is a Potential Outlier (Upper Tail)?

Test Statistic: 0.167

For 10% significance level, 4.55 is not an outlier.

For 5% significance level, 4.55 is not an outlier.

For 1% significance level, 4.55 is not an outlier.

2. Data Value 4.23 is a Potential Outlier (Lower Tail)?

Test Statistic: 0.067

For 10% significance level, 4.23 is not an outlier.

For 5% significance level, 4.23 is not an outlier.

For 1% significance level, 4.23 is not an outlier.

Theil-Sen Trend Test Analysis

User Selected Options

Date/Time of Computation ProUCL 5.11/5/2018 2:11:28 PM

From File AppIII_data.xls

Full Precision OFF

Average Replicates Replicates at sampling events will be averaged!

Confidence Coefficient 0.95 Level of Significance 0.05

Chloride1

General Statistics

Number of Events 11
Number of Values Reported (n) 11
Number of Values After Averaging 11
Number of Replicates 0
Minimum 18.3
Maximum 31.6
Mean 25.59
Geometric Mean 25.29
Median 25.4

Standard Deviation 4.034 Coefficient of Variation 0.158

Mann-Kendall Statistics

M-K Test Value (S) -44
Tabulated p-value 0
Standard Deviation of S 12.81
Standardized Value of S -3.358
Approximate p-value 3.9292E-4

Approximate inference for Theil-Sen Trend Test

Number of Slopes 55

Theil-Sen Slope -0.133

Theil-Sen Intercept 29.94

M2' 38.03

One-sided 95% upper limit of Slope -0.11

95% LCL of Slope (0.025) -0.174

95% UCL of Slope (0.975) -0.105

Statistically significant evidence of a decreasing trend at the specified level of significance.

Theil-Sen Trend Test Estimates and Residuals

#	Events	Values	Estimates	Residuals
1	0	31.6	29.94	1.66
2	7.39	29.2	28.96	0.239
3	12.15	29.5	28.33	1.17
4	16.25	29.6	27.79	1.814
5	25.25	25.4	26.59	-1.193
6	34.25	25.7	25.4	0.3
7	42.1	22.6	24.36	-1.758
8	49.1	24.6	23.43	1.17
9	64.21	22.6	21.43	1.172
10	72.1	22.4	20.38	2.019
11	81.39	18.3	19.15	-0.85

Theil-Sen Trend Test Analysis

User Selected Options

Date/Time of Computation ProUCL 5.11/5/2018 2:13:07 PM

From File AppIII_data.xls

Full Precision OFF

Average Replicates Replicates at sampling events will be averaged!

Confidence Coefficient 0.95 Level of Significance 0.05

pH1

General Statistics

Number of Events Number of Values Reported (n) 11 Number of Values After Averaging Number of Replicates 0 Minimum 4.6 Maximum 5.1 Mean 4.952 Geometric Mean 4.95 Median 4.99 Standard Deviation 0.135

Coefficient of Variation

0.0272

Mann-Kendall Statistics

M-K Test Value (S) -12
Tabulated p-value 0.179
Standard Deviation of S 12.81
Standardized Value of S -0.859
Approximate p-value 0.195

Approximate inference for Theil-Sen Trend Test

Number of Slopes 55
Theil-Sen Slope -0.00134
Theil-Sen Intercept 5.036
M1 14.95
M2 40.05
95% LCL of Slope (0.025) -0.00506
95% UCL of Slope (0.975) 0.00223

Insufficient evidence to identify a significant trend at the specified level of significance.

Theil-Sen Trend Test Estimates and Residuals

#	Events	Values	Estimates	Residuals
1	0	5	5.036	-0.0357
2	7.39	5.06	5.026	0.0341
3	12.15	4.95	5.02	-0.0695
4	16.25	5.1	5.014	0.086
5	25.25	4.89	5.002	-0.112
6	34.25	4.91	4.99	-0.08
7	42.1	4.91	4.98	-0.0695
8	49.1	5.04	4.97	0.0698
9	64.21	4.99	4.95	0.04
10	72.1	5.02	4.939	0.0805
11	81.39	4.6	4.927	-0.327

Theil-Sen Trend Test Analysis

User Selected Options

Date/Time of Computation ProUCL 5.11/5/2018 2:14:06 PM

From File AppIII_data.xls

Full Precision OFF

Average Replicates Replicates at sampling events will be averaged!

Confidence Coefficient 0.95 Level of Significance 0.05

рН3

General Statistics

Number of Events Number of Values Reported (n) 11 Number of Values After Averaging Number of Replicates 0 Minimum 4.23 Maximum 4.55 Mean 4.407 Geometric Mean 4.406 Median 4.45 Standard Deviation 0.117 Coefficient of Variation 0.0264

Mann-Kendall Statistics

M-K Test Value (S) -11
Tabulated p-value 0.223
Standard Deviation of S 12.77
Standardized Value of S -0.783
Approximate p-value 0.217

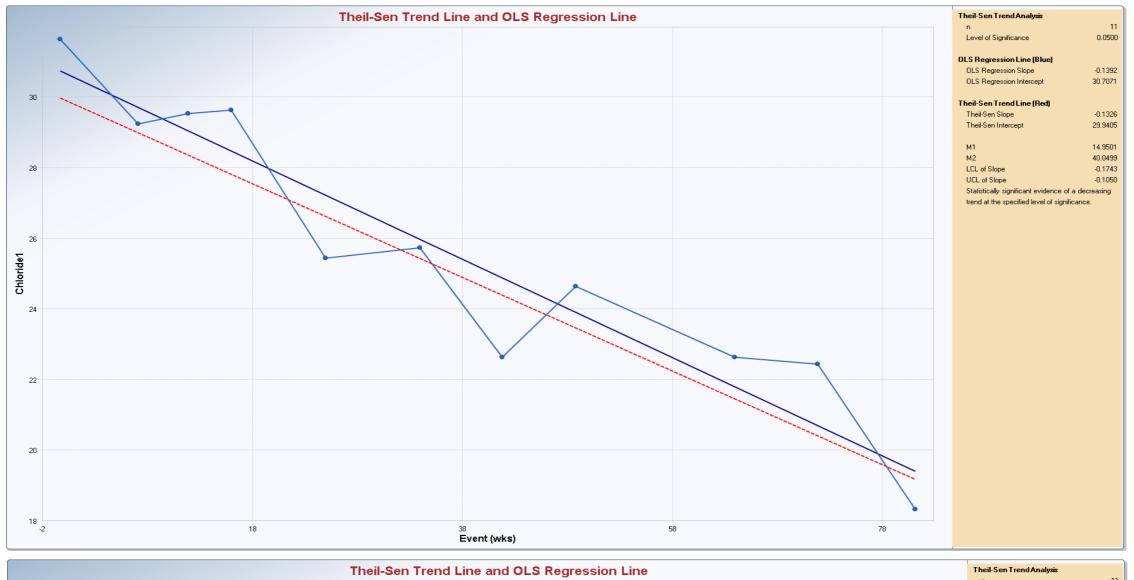
Approximate inference for Theil-Sen Trend Test

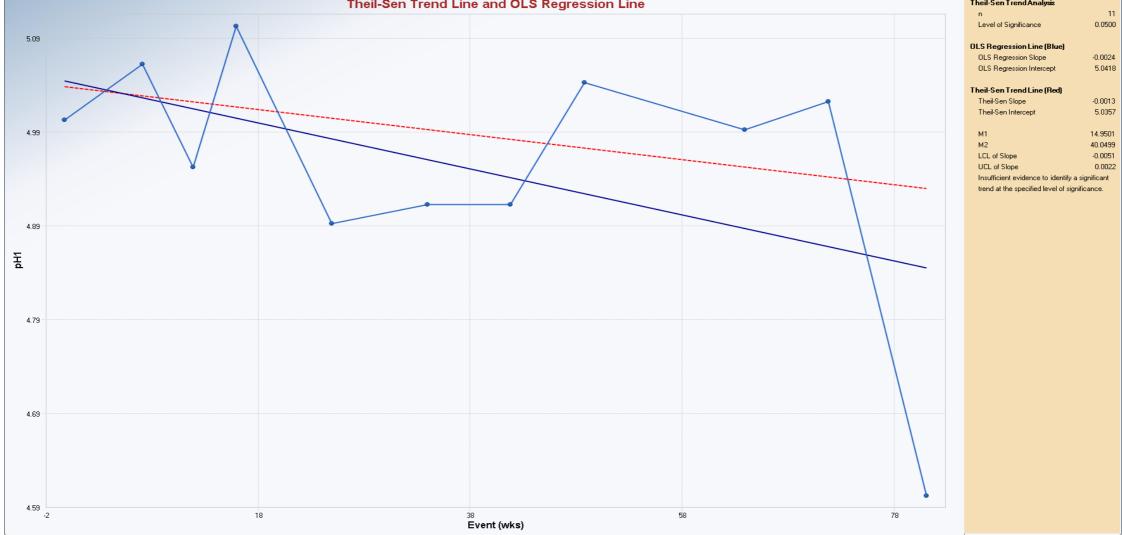
Number of Slopes 55
Theil-Sen Slope -8.951E-4
Theil-Sen Intercept 4.481
M1 14.99
M2 40.01
95% LCL of Slope (0.025) -0.00584
95% UCL of Slope (0.975) 0.00117

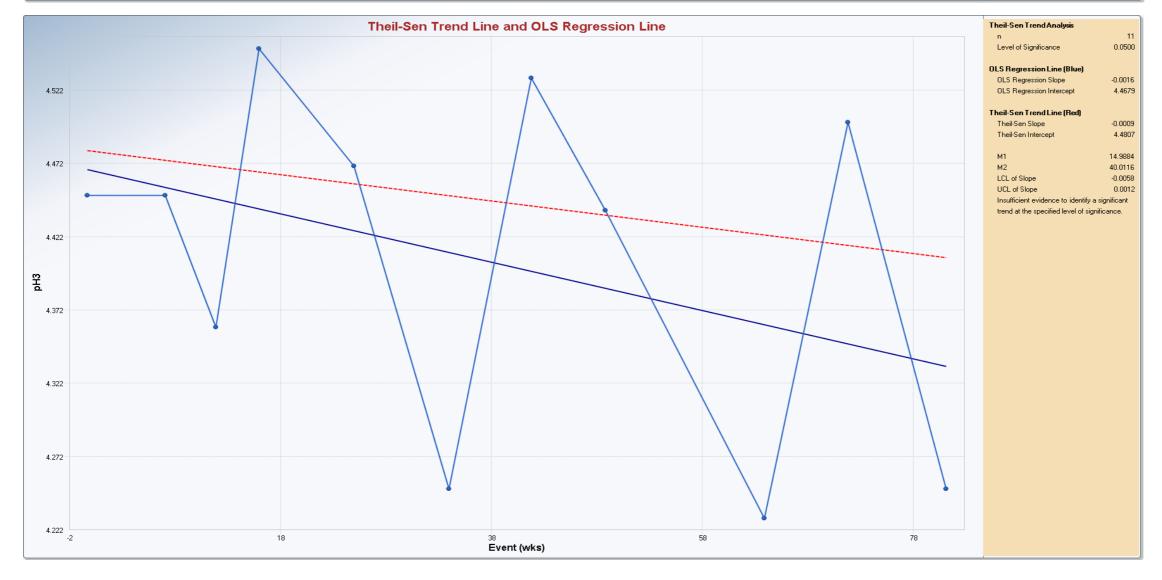
Insufficient evidence to identify a significant trend at the specified level of significance.

Theil-Sen Trend Test Estimates and Residuals

#	Events	Values	Estimates	Residuals
1	0	4.45	4.481	-0.0307
2	7.39	4.45	4.474	-0.024
3	12.15	4.36	4.47	-0.11
4	16.25	4.55	4.466	0.0839
5	25.25	4.47	4.458	0.0119
6	34.25	4.25	4.45	-0.2
7	42.1	4.53	4.443	0.087
8	49.1	4.44	4.437	0.0033
9	64.21	4.23	4.423	-0.193
10	72.1	4.5	4.416	0.0839
11	81.39	4.25	4.408	-0.158







Goodness-of-Fit Test Statistics for Data Sets with Non-Detects

Date/Time of Computation ProUCL 5.11/5/2018 2:16:11 PM

From File AppIII_background.xls

Full Precision OFF

Confidence Coefficient 0.95

Result (boron)

Raw Statistics

Number of Valid Observations	33
Number of Distinct Observations	32
Minimum	18.3
Maximum	667.8
Mean of Raw Data	122.9
Standard Deviation of Raw Data	118.5
Khat	1.769
Theta hat	69.47
Kstar	1.628
Theta star	75.47
Mean of Log Transformed Data	4.503
Standard Deviation of Log Transformed Data	8.0

Normal GOF Test Results

Correlation Coefficient R	0.804
Shapiro Wilk Test Statistic	0.676
Shapiro Wilk Critical (0.05) Value	0.931
Approximate Shapiro Wilk P Value	1.9001E-8
Lilliefors Test Statistic	0.23
Lilliefors Critical (0.05) Value	0.152

Data not Normal at (0.05) Significance Level

Lognormal GOF Test Results

Correlation Coefficient R	0.979
Shapiro Wilk Test Statistic	0.96
Shapiro Wilk Critical (0.05) Value	0.931
Approximate Shapiro Wilk P Value	0.304
Lilliefors Test Statistic	0.158
Lilliefors Critical (0.05) Value	0.152

Result (calcium)

Raw Statistics

Number of Valid Observations 33

Number of Distinct Observations 33

Minimum 1870

Maximum 14632

Mean of Raw Data 3866

Standard Deviation of Raw Data 2254

Khat 5.062

Theta hat 763.7

Kstar 4.622

Theta star 836.4

Mean of Log Transformed Data 8.158

Standard Deviation of Log Transformed Data 0.424

Normal GOF Test Results

Correlation Coefficient R 0.785
Shapiro Wilk Test Statistic 0.65
Shapiro Wilk Critical (0.05) Value 0.931
Approximate Shapiro Wilk P Value 5.6388E-9
Lilliefors Test Statistic 0.228

Lilliefors Critical (0.05) Value 0.152

Data not Normal at (0.05) Significance Level

Lognormal GOF Test Results

Correlation Coefficient R 0.945
Shapiro Wilk Test Statistic 0.904
Shapiro Wilk Critical (0.05) Value 0.931
Approximate Shapiro Wilk P Value 0.00741
Lilliefors Test Statistic 0.119
Lilliefors Critical (0.05) Value 0.152

Result (fluoride)

Raw Statistics

Number of Valid Observations 33 Number of Distinct Observations 23

Minimum 0.041

Maximum 0.14

Mean of Raw Data 0.0625

Standard Deviation of Raw Data 0.0167

Khat 19.85

Theta hat 0.00315

Kstar 18.06

Theta star 0.00346

Mean of Log Transformed Data -2.798

Standard Deviation of Log Transformed Data 0.215

Normal GOF Test Results

Correlation Coefficient R 0.821

Shapiro Wilk Test Statistic 0.71

Shapiro Wilk Critical (0.05) Value 0.931

Approximate Shapiro Wilk P Value 9.7685E-8

Lilliefors Test Statistic 0.166

Lilliefors Critical (0.05) Value 0.152

Data not Normal at (0.05) Significance Level

Lognormal GOF Test Results

Correlation Coefficient R 0.923

Shapiro Wilk Test Statistic 0.88

Shapiro Wilk Critical (0.05) Value 0.931

Approximate Shapiro Wilk P Value 0.00142

Lilliefors Test Statistic 0.119

Lilliefors Critical (0.05) Value 0.152

Result (sulfate)

Raw Statistics

Number of Valid Observations 22 Number of Distinct Observations 21

Minimum 23.7

Maximum 64.7

Mean of Raw Data 36.51

Standard Deviation of Raw Data 13.11

Khat 9.349

Theta hat 3.905

Kstar 8.104

Theta star 4.505

Mean of Log Transformed Data 3.543

Standard Deviation of Log Transformed Data 0.328

Normal GOF Test Results

Correlation Coefficient R 0.925
Shapiro Wilk Test Statistic 0.844
Shapiro Wilk Critical (0.05) Value 0.911
Approximate Shapiro Wilk P Value 0.00195

Lilliefors Test Statistic 0.167

Lilliefors Critical (0.05) Value 0.184

Data appear Approximate Normal at (0.05) Significance Level

Lognormal GOF Test Results

Correlation Coefficient R 0.956
Shapiro Wilk Test Statistic 0.897

Shapiro Wilk Critical (0.05) Value 0.911

Approximate Shapiro Wilk P Value 0.0242
Lilliefors Test Statistic 0.149

Lilliefors Critical (0.05) Value 0.184

Result (tds)

Raw Statistics

Number of Valid Observations 33 **Number of Distinct Observations** 31 Minimum 76 320 Maximum Mean of Raw Data 117.5 Standard Deviation of Raw Data 44.44 Khat 10.51 Theta hat 11.18 Kstar 9.575 Theta star 12.27 Mean of Log Transformed Data 4.718 Standard Deviation of Log Transformed Data 0.294

Normal GOF Test Results

Correlation Coefficient R 0.828
Shapiro Wilk Test Statistic 0.715
Shapiro Wilk Critical (0.05) Value 0.931
Approximate Shapiro Wilk P Value 1.2032E-7
Lilliefors Test Statistic 0.175
Lilliefors Critical (0.05) Value 0.152

Data not Normal at (0.05) Significance Level

Lognormal GOF Test Results

Correlation Coefficient R 0.943
Shapiro Wilk Test Statistic 0.901
Shapiro Wilk Critical (0.05) Value 0.931
Approximate Shapiro Wilk P Value 0.00595
Lilliefors Test Statistic 0.0942
Lilliefors Critical (0.05) Value 0.152

Goodness-of-Fit Test Statistics for Data Sets with Non-Detects

Date/Time of Computation ProUCL 5.11/5/2018 2:19:16 PM

From File AppIII_data.xls

Full Precision OFF

Confidence Coefficient 0.95

Chloride1

Raw Statistics

Number of Valid Observations 11 **Number of Distinct Observations** 10 Minimum 18.3 Maximum 31.6 Mean of Raw Data 25.59 Standard Deviation of Raw Data 4.034 Khat 42.71 0.599 Theta hat Kstar 31.12 0.822 Theta star

Mean of Log Transformed Data 3.23
Standard Deviation of Log Transformed Data 0.163

Normal GOF Test Results

Correlation Coefficient R 0.975
Shapiro Wilk Test Statistic 0.947
Shapiro Wilk Critical (0.05) Value 0.85
Approximate Shapiro Wilk P Value 0.63
Lilliefors Test Statistic 0.178
Lilliefors Critical (0.05) Value 0.251

Data appear Normal at (0.05) Significance Level

Raw Statistics

Number of Valid Observations 11 Number of Distinct Observations 10

Minimum 4.6

Maximum 5.1

Mean of Raw Data 4.952

Standard Deviation of Raw Data 0.135

Khat 1447

Theta hat 0.00342

Kstar 1052

Theta star 0.00471

Mean of Log Transformed Data 1.599

Standard Deviation of Log Transformed Data 0.0278

Normal GOF Test Results

Correlation Coefficient R 0.893
Shapiro Wilk Test Statistic 0.819
Shapiro Wilk Critical (0.05) Value 0.85
Approximate Shapiro Wilk P Value 0.0122
Lilliefors Test Statistic 0.232
Lilliefors Critical (0.05) Value 0.251

Raw Statistics

Number of Valid Observations 11

Number of Distinct Observations 9

Minimum 4.23

Maximum 4.55

Mean of Raw Data 4.407

Standard Deviation of Raw Data 0.117

Khat 1559

Theta hat 0.00283

Kstar 1134

Theta star 0.00389

Mean of Log Transformed Data 1.483

Standard Deviation of Log Transformed Data 0.0266

Normal GOF Test Results

Correlation Coefficient R 0.947
Shapiro Wilk Test Statistic 0.876
Shapiro Wilk Critical (0.05) Value 0.85
Approximate Shapiro Wilk P Value 0.136
Lilliefors Test Statistic 0.247
Lilliefors Critical (0.05) Value 0.251

Data appear Normal at (0.05) Significance Level