

# 2015-2017 Monitoring Report Jones Road Landfill Site

Part of Lots 1 and 2 Concession I, and Part of Lots 1 and 2, Concession II, Townships of Pettypiece and Jackman, District of Kenora

> Prepared for: The City of Kenora

Prepared by: Azimuth Environmental Consulting, Inc.

June 2018

AEC 17-020



**Environmental Assessments & Approvals** 

June 27, 2018 AEC 17-020

City of Kenora
Waste Management Department
60 14<sup>th</sup> Street
Kenora, Ontario
P9N 4M9

Attention: Mukesh Pokharel, P.Eng.

**Environmental Supervisor** 

Re: 2015 - 2017 Report on the Monitoring Programs at the Jones Road Landfill

Site

#### Dear Mr. Pokharel:

Azimuth Environmental Consulting, Inc. (Azimuth) is pleased to present our report on the 2015 – 2017 monitoring program conducted at the Jones Road Landfill Site. In general, the monitoring data obtained over this period indicates that the landfill is not causing unacceptable impact on the surrounding environment, with the exception of boron concentrations within the downstream surface water. However, these conditions are being assessed as part of the action plan associated with the Trigger Mechanism Program exceedances. Despite the observed surface water chemistry, no quantifiable impacts to the ground water regime are observed within either the landfill footprint or at monitors situated immediately downgradient of the waste cells.



We would like to thank you for the opportunity to complete this project. If you have any questions or comments, please contact the undersigned.

Yours truly,

AZIMUTH ENVIRONMENTAL CONSULTING, INC.

COLIN ROSS
PRACTISING MEMBER 2055

Colin Ross, B.Sc., P.Geo. Senior Hydrogeologist Mike Jones M Sc. P Geo.

Mike Jones, M.Sc., P.Geo. President

Attach:

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#### 1.0 INTRODUCTION & BACKGROUND

The following information is provided as a summary of previous investigations to allow the reader to review this report in context. For more complete information, the reader should review the original documentation (see Section 5.0 References).

#### 1.1 Location

The Jones Road landfill Site is located immediately to the north of Highway 671 (Jones Road), and approximately 22 km northeast of the City of Kenora. Specifically, the Site is located upon Part of Lots 1 and 2 of Concession I, and Part of Lots 1 and 2 of Concession II, in the Townships of Pettypiece and Jackman, of the District of Kenora (Figure 1). Construction of the Site began on June 1, 2000, and was essentially complete by the end of the calendar year. The Site is operated by the City of Kenora Solid Waste Department and is licensed by the Ministry of the Environment (Ministry) to receive "domestic, commercial, non-hazardous solid industrial and institutional, processed organic sewage sludge, sludge from future municipal or provincial fresh water treatment facilities, non-pathological agricultural and bio-medical, and grit and screenings from street cleaning and sediment basin clean-outs" under Certificate of Approval #A612018 (replaced C of A #A612016 (former MNR landfill)).

#### 1.2 Geology

The Jones Road landfill Site is situated within an interconnected bog/wetland complex that is surrounded by various bedrock ridges and knobs. In 1996, the local Quaternary and bedrock geology was characterized by Fenco MacLaren Inc. (Fenco) during an extensive field evaluation of the property. During this evaluation, they observed that the overburden within the bog was stratified, with three predominant layers observed, each of which is discussed in more detail below.

#### 1.2.1 Peat

The surficial material existing within the bog consists of a dark brown to black peat. Field observations of the material indicate that the peat is fibrous at surface, consisting primarily of undecomposed organic material (i.e., rootlets, leaf litter). With increasing depth, the material becomes more hemic (i.e., muckier) as the proportion of decomposed material increases. The thickness of the peat within the bog was assessed through drilling and seismic monitoring by Fenco, and was found to range from essentially zero at the outer boundary to greater than 3 m at the center of the bog.



Testing of the vertical hydraulic conductivity of the peat was also conducted by Fenco during their evaluation. The results of this testing indicated a rate of  $5x10^{-7}$  to  $9x10^{-8}$  m/s under natural Site conditions, given a porosity range of 0.81 to 0.95. Simulation of the vertical stress that the waste will potentially have upon the peat was also assessed through consolidation of the material under pressures of up to 800 kPa. In response to compaction, the vertical hydraulic conductivity of the material was observed to decrease by approximately three orders of magnitude to  $5x10^{-11}$  m/s. The application of vertical pressure upon the peat also resulted in a decrease in the porosity of the material to about 0.67.

The horizontal hydraulic conductivity of the peat was only estimated during excavation of the peat, and was inferred to be much greater than vertical, in the order of about  $10^{-5}$  m/s.

## 1.2.2 Clayey Silt

A layer of clayey silt exists beneath the surficial peat. Colouration of this material is variable, and provides an indicator of the degree of weathering the material has undergone. Unweathered material within this layer is generally blue-grey, while the weathered material possessed a green-brown colouration. During drilling by Fenco in 1996, it was determined that the material becomes siltier with depth, and that several thin, discontinuous sand seams were observed within the profile. The thickness of this material was found to range from approximately 2 to 8 m.

As with the overlying peat, vertical hydraulic conductivity testing was conducted in natural conditions as well as under the simulated load of the waste (i.e., pressures of up to 800 kPa). This testing indicated a vertical hydraulic conductivity of  $2x10^{-9}$  to  $3x10^{-9}$  m/s under natural conditions, while under load, a decrease of approximately three orders of magnitude was observed ( $8x10^{-12}$  m/s). The application of 800 kPa of pressure also resulted in a decrease in the void ratio of the material by two-thirds, suggesting that consolidation of the material will be relatively rapid in response to the increased loading pressure of the waste. This consolidation will result in a rapid increase in the tensile strength of the material; however it will also result in a substantial decrease in its permeability to the underlying sediments.

#### 1.2.3 Silty Sand Till

A basal layer of silty sand till exists between the clayey silt layer and the bedrock. The till is locally gravelly, and possesses several discontinuous lenses and layers of sand throughout its profile. The material also appears more lacustrine in nature at sporadic



locales throughout the Site. The thickness of this material underlying the bog at the landfill Site, as determined by Fenco, ranges from approximately 2 to 30 m. The hydraulic conductivity of the till was determined through field and laboratory testing to range from  $2x10^{-5}$  to  $4x10^{-8}$  m/s, with a geometric mean of  $8x10^{-7}$  m/s. Average linear ground water velocity in this unit ranges between 1 and 50 m/year based on the results provided.

#### 1.2.4 Bedrock

The bedrock is granodioritic in composition (Barnett, *et al.*, 1991), and occurs at depths ranging from surficial exposure to greater than 20 m (based upon drilling and seismic monitoring) (Fenco, 1996). The rock quality designation (RQD) of the bedrock was noted by Fenco during coring of the bedrock at three locations throughout the area. RQD ranged from 63% to 100% within the three locations, suggesting that the bedrock is not highly fractured. Hydraulic conductivity testing was conducted by Fenco upon two wells drilled into the bedrock, indicating a range of  $4x10^{-7}$  to  $9x10^{-8}$ m/s, with a geometric mean of  $2x10^{-7}$ m/s.

## 1.2.5 Hydrogeology

Overburden ground water flow in the vicinity of the property is controlled by the bedrock topography. Active natural ground water flow is restricted primarily to within the till, with the bedrock forming a lower boundary to the overburden aquifer. As discussed above, the mean hydraulic conductivity of the till and bedrock (i.e. bulk hydraulic conductivity, K) units are  $8x10^{-7}$  m/s and  $2x10^{-7}$  m/s, respectively. The landfill is located near the top of a small, unnamed watershed. Ground water flow within this watershed is directed toward the northeast, parallel to the apex of a small bedrock valley (Figure 2). Flow rates range within the till range from 1 to 50 m/year. Leachate flow will be northeasterly with the migration of ground water toward an area of surface water existing immediately to the west of a culvert passing beneath Jones Road, at a distance of about 750 m northeast of the waste cells. Migration time of ground water from the landfill to the surface water within the peat is estimated at approximately 5 to 10 years. During the migration period, leachate contaminants will be attenuated and biodegraded.

#### 1.2.6 Hydrology

As discussed in Section 1.2.5, the Site is near the top of a small, unnamed watershed that is situated between Crystal Bay (Silver Lake) to the north and Morgan Lake to the south. The watershed encompasses a total area of approximately 4 km², and ultimately discharges into Morgan Lake at a lateral distance of approximately 1.9 km southeast of the waste. Runoff from the area of the waste is directed primarily to the northeast through a bog/wetland complex toward a small surface water pond situated immediately



upgradient of the Jones Road culvert. Surface water flow then continues northeasterly through a series of channels, bogs, wetlands, and beaver ponds a further 700 m before finally shifting southward toward the eastern end of Morgan Lake (1,600 m). Morgan Lake lies within the larger Nelson River drainage system that encompasses the Lake Winnipeg River system and its tributaries, including the Little Black Sturgeon River, which flows both into and out of Morgan Lake.

To the northeast of the waste cells, a depression is noted in the topography (known as "the saddle") that may allow for a portion of the surface drainage from the Site to migrate into Crystal Bay during spring freshet or in response to large precipitation events. Crystal Bay is located approximately 350 m north of the waste cells.

Along the southern extent of the Site parallel to Jones Road, a portion of the landfill property is situated within a second watershed to the south. Flow within this watershed drains southwesterly and ultimately into the western end of Morgan Lake (~450 m). To note, the boundary of this watershed lies greater than 50 m south of the waste cells.

#### 2.0 SITE DESIGN & OPERATIONS

The Jones Road landfill began accepting construction and demolition wastes on November 27, 2000 to provide a stable footprint for the waste cells. The Site continued to collect these same waste materials through 2001 to 2009. As of November 18, 2009, the haul destination for all solid waste was revised from the Brady Road Landfill Site in Winnipeg, to the Jones Road Landfill. A summary of total annual quantities of waste received on a monthly basis at the Site over the period of 2015 - 2017 can be found in Appendix C.

The landfill has already filled sequence A-G, and is currently filling sequence H (90% complete), with fill to progress into sequence J during the summer of 2018. It is noted that this sequence follows that outlined in the SNC-Lavalin monitoring plan (September, 1999) (Figure 3), while the final contours are provided in Appendix L, which is from the Design and Operations Plan (Fenco McLaren. 1997). The fill area is also illustrated spatially on Figure 4.

Based on scale readings from the incoming waste at the Site, the current waste mass as of December 2017 is 230,856 tonnes, or 28% of the total waste capacity (810,600 tonnes). The resulting remaining capacity for the Site based on average waste density and the final contour dimensions of the Site is 579,744 tonnes. Given the average annual waste



acceptance rate from 2015 to 2017 of 30,746 tonnes, there is a remaining lifespan for the Site of approximately 19 years.

The Site possesses an approved waste footprint of approximately 13.1 ha (Figure 4). As noted in Section 1.1, the Site operates under Ministry Certificate of Approval #A612018 (Appendix B). No complaints concerning the operation of the Jones Road Landfill Site were received by the City of Kenora over the period of 2015 – 2017.

#### 2.1 Operation Changes

The Jones Road Landfill is currently being operated and filled in accordance to the requirements established in the C of A as well as the Design and Operations Plan (Fenco McLaren. 1997). There have been no significant changes in operations, sequencing, equipment, or procedures made or produced at the Jones Road Landfill. No operating difficulties have been encountered over the course of 2015 – 2017. Following the 2015 ECA amendment (Appendix B) to facilitate composting operations at the Site, the City has begun to operate a small composting area within the approved waste footprint, although the operations thus far have been quite limited. The summary details required under the ECA amendment are to be submitted to the MOECC under separate cover by the City.

## 2.2 Cover Requirements, Erosion Protection

Over the period of 2015 – 2017, cover material was added as necessary to aid in grading and Site access. Dewatered sewage sludge is mixed with Industrial ash in the landfill and the resulting material is used along the waste slopes within the footprint to cover the waste. No erosion was noted in over the period of 2015 - 2017, which is expected given that the landfill is early in its lifespan (i.e., the volume of material held within the waste cells is small and of little vertical height). Cover material and erosion protection material is inspected regularly by landfill staff and to date, there have been no issues.

# 3.0 SUMMARY OF 2015-2017 MONITORING PROGRAMS

The 2015-2017 monitoring of ground water and surface water was facilitated through the collection of field measurements and water samples for laboratory analysis by City of Kenora staff. Ground water samples were collected in May and August, while surface water samples were collected in May, August and October.

The locations of the sampling stations monitored between 2015 and 2017 are depicted upon Figure 4. In May of 2013, the C of A was amended to reduce the frequency of sediment sampling from 5 to 10 years, and removed thirteen monitoring wells (10/7,



12/4, 6/14, 7/4, 8/22, 9/6, 2/17, 13/6, 13/14, 14/6, 14/21, 15/5, and 15/17) from the sampling program. In addition, volatile organics were removed from the parameter list for all monitoring wells except for well 2/9. The above changes to the sampling program took effect at the start of the 2013 field season and have continued through the current monitoring period. The scope of the current monitoring program was based on the requirements outlined in the previous MOECC Certificate of Approval with the revisions outlined above. The details of the current monitoring program are summarized in Table 1 below.

Table 1: Summary of the Required 2015-2017 Monitoring Programs

Monitor Location	Annual Frequency	Parameters
<u>Ground Water</u>		
1/17, 2/9, 2/13, 3/8, 4/6, 5/17, 6/5, 11/4, 16/15, 17/15, 19/16, 23/3, KGS-2 and 24/5	August	comprehensive list
1/17, 2/9, 2/13, 3/8, 4/6, 5/17, 6/5, 11/4, 16/15, 17/15, 19/16, 23/3, KGS-2 and 24/5	May & August	indicator list* & water levels
2/9	August	VOC's
<u>Surface Water</u>		
SW-1, SW-2, SW-3, SW-4 and SW-5 (August only)	August & October	comprehensive list
SW-1, SW-2, SW-3 and SW-4	May	indicator list
SW-2 and SW-3	May, August & October	flow measurement
SW-2	August	VOC's
<u>Sediment</u>		
SB-1, SB-2, and SB-R	August**	major and minor inorganics
		& grain size

<sup>\* -</sup> Only locations where comprehensive samples are not required for the August event

#### 3.1 Monitoring Program Omissions

Over the 2015 – 2017 monitoring period a number of monitoring well samples were not available for analysis. According to the City's field notes, it was indicated that over the period of monitoring, some wells were either out of service (i.e. damaged or not working), did not contain an adequate supply of water for sample collection or were

<sup>\*\* -</sup> Sediment monitoring requirements were revised to every 10 years (no sample during this monitoring period, next samples to be collected in 2022)

<sup>\*\*\* -</sup> additional monitoring locations added in 2017 to address boron trigger exceedances (Section 3.5)



inaccessible due to flooded conditions on one or more occasion, such that samples were not able to be collected. The following table summarizes these omissions.

**Table 2: Summary of Ground Water Sample Omissions** 

Monitors	Date	Reason Not Sampled
MW5/17 & MW11/14	19-May-15	Insufficient water for sample collection
MW1/17	18-Aug-15	Sample tubing stuck down riser pipe
MW2/9 & MW2/13	10-May-16	No access due to wet conditions
MW2/9, MW2/13 & MW3/8	30-Aug-16	No access due to wet conditions
MW5/17 & MW11/14	15-May-17	Insufficient water for sample collection
MW5/17 & MW11/14	29-Aug-17	Insufficient water for sample collection

It is noted that MW5/17 and MW11/4 have been noted to be dry historically. In all instances where dry monitors were encountered, similar conditions were observed historically. It is further noted that MW5/17 was noted to have sufficient water during the May 2018 monitoring event such that a representative sample was able to be collected.

All surface water locations were able to be sampled during the current monitoring period.

#### 3.2 Quality Assurance and Quality Control Results

As part of any routine sampling program, duplicate samples should be collected and analyzed for quality assurance purposes. Over the period of monitoring, five quality assurance/quality control (QA/QC) samples were collected during three of the monitoring events (May 2015, August, 2016 & August 2017). The results were within acceptable limits with only some minor exceptions which are summarized in Table 3.

**Table 3: Summary of Notable QA/QC Variations** 

Location	Sampling Event	Iron	TSS	Total Phosphorus	COD	TKN
MW1/17	August 2017	0.38 / 0.92				
MW4/6	August 2015		1400 / 640			
MW4/6	August 2016		1900 / 442	1.28 / 0.25	267 / 36	0.9 / 0.3
MW17/15	August 2015		140 / 91.5	0.132 / 0.02		0.069 / 0.147

<sup>\* -</sup> all concentrations in mg/L

It should be noted that the results for the remaining parameters for each duplicate sample collected indicated very good correlation. It should also be noted that the inconsistencies observed were relatively small, within historical ranges and are notable mainly due to the



very minimal and un-impacted concentrations at all duplicate locations. As such, although some inconsistencies are present, the general indication is that the majority of the results are consistent and generally acceptable. The variance in these parameters, with the exception of iron, which is filtered, could be attributable to the fact that the bottles associated with these parameters are not field filtered. As such sediment within the sample bottles could result in higher variance between sample bottles. The more elevated TSS concentrations would support this.

In the future, it is suggested that field staff ensure that the unfiltered bottles of all duplicate samples are "split" to minimize any potential natural variation in water chemistry. As well, it should be ensured that at least a single duplicate sample is collected during each monitoring event.

#### 3.3 Ground Water & Leachate (Schedule "F")

During sampling over the monitoring period, water level measurements were obtained by City staff prior to any disturbance of the piezometric surface within each monitor using an electronic water level meter (accuracy of +/- 0.2 cm) as per Condition 2.4, Schedule F, of the current C of A. Ground water samples were then collected following purging of at least two borehole volumes of water from each monitoring well using dedicated check valve pumps and tubing. All ground water samples for metals analysis were also lab filtered, with the exception of those collected during the May 2016 and May 2017 monitoring events. It is noted that there was miscommunication between the City and laboratory when the City switched from the Mississauga to Winnipeg Maxxam Analytics locations. Subsequent samples submitted in August 2017 have been properly sampled, submitted and analyzed.

Maxxam Analytics Inc. in Mississauga & Winnipeg completed the analytical work for the current monitoring period. The laboratory provided all sample bottles, which were prepared with preservatives for consistency, as required. Samples were maintained in coolers with freezer packs and were delivered to the required laboratory within 24 to 36 hours of collection. A summary of the current and historic analytical data is included in Appendix D.

#### 3.3.1 Ground Water & Leachate Flow

Ground water measurements taken over the current monitoring period were compared to background data observed by Fenco during installation of several of the existing monitors in 1996. As detailed in Appendix E, in many locations the maximum ground water elevation value recorded over the 2015 -2017 monitoring period is below the value recorded in 1996, with the exception of MW2/13, which has consistently been close to



slightly above the historic reference point since 2003. However in general the most recent water level data corresponds well with the available background data, indicating that ground water elevations in both the overburden as well as the shallow bedrock have remained relatively stable. A greater deal of variability is noted in the more elevated locations to the south / southwest (MW5 & MW11) and lower locations to the north beyond the saddle (MW14), while the locations within and immediately surrounding the waste area are the most consistent. This is somewhat expected given the topography in this area.

Active ground water flow occurs within the till and is constrained by the bedrock surface, which forms a physical barrier to further vertical migration of ground water (i.e., like a bathtub). Within the bog, low topographic relief exists, as indicated by a surface elevation change of less than 2 m between the waste and the small pond at SW-1 (a total distance of ~750-800 m). For descriptive purposes, the water table elevations measured at all ground water monitors in August of 2016 have been included upon Figure 4. As can be observed, the slope of the water table corresponds well with the orientation of the local topography, with large lateral hydraulic gradients occurring at watershed boundaries (i.e., up to 0.24) and lower gradients occurring within the bog (i.e., as low as 0.001).

A watershed divide exists to the northeast of the waste footprint, between monitors 2 and 13 (see Figure 4). This divide is due to a rise in the elevation of the bedrock topography related to the surrounding topographic highs to the east, west, and north that exist beneath the bog. Within this watershed divide, there is an area which is referred to as the "saddle" area. The saddle represents a depression in a bedrock ridge that extends to the northeast. Monitoring wells are located in and around this feature (Figure 4 & 5) to determine ground water flow directions and gradients. With the exception of May 2007, ground water elevations within the saddle have been elevated above those to the south by at least 0.15 m since 2002, and was at least 0.43 m over 2015 - 2017 (Figure 6) indicating there is a limited potential for leachate migration past this feature. It is unclear as to why the gradient reversed during May 2007.

#### 3.3.2 Background Ground Water Quality

The background ground water geochemistry at the Site is characterized by relatively low concentrations of most parameters (Table 4). Natural waters dissolve low quantities of elements through reaction with the soil minerals. Iron is derived through chemical weathering of soil and rock minerals and naturally occurs at levels approaching or greater than the Ontario Drinking Water Quality Standards (ODWQS). It is noted that elevated TDS concentrations have been observed at MW11/4 sporadically over the period of record with concentrations ranging from 518 to 1750 mg/L, whereas the rest of the TDS



concentrations were between 50 and 74 mg/L. Similarly, a number of parameters, including calcium, magnesium, sulphate, chloride, barium and a number of metals were observed to be elevated approximately an order of magnitude during the May 2016 monitoring event. The metals concentrations are thought to be a result of not filtering the metals bottle such that the concentrations are elevated through the leaching of metals from the sediment in the sample bottled due to the acid preservative. It is uncertain as to the source of the remaining major ion elevations; however, it could be due to the limited volume of water in the well which does not always facilitate sample collection at that location, which may create artificially elevated mineralization. Given that the upgradient location and the fact the more dominant leachate indicator parameters were not observed to be elevated (i.e. ammonia, boron, alkalinity) these elevations are not interpreted to represent leachate influence. It is noted that similar trends were not observed at the background bedrock location (MW5/17), as concentrations fell within the historical range at that location. Time trend graphs have been included in Appendix F, which illustrate the consistency for the period of record for both these background locations, with the exception of the anomalous data discussed above.

**Table 4: Background Chemistry** 

	Ca	Mg	Na	Cl	Alk.	SO4	NH3-N	TKN	Fe	Cond.	TDS
OWDS			20 or 200	250	30-500	500	org N=0.15		0.3		500
Overburden											
# of samples	23	23	23	22	23	22	23		23	23	23
Maximum	51	16	11	20	130	60	6		30	248	1750
Average	11	4	7	3	46	5	0.3	N/A	0.1	99	267
Minimum	6	2	4	0.5	30	3	0.01		0.01	57	10
STD	10	4	2	5	19	12	1		6	35	423
Bedrock											
# of samples	21	21	21	20	21	20	21	13	21	21	21
Maximum	33	48	42	8	95	10	0.1	1	5	216	184
Average	22	7	5	1	81	3	0.1	0.4	0.3	164	121
Minimum	14	3	3	1	53	1	0.01	0.1	0.01	139	92
STD	4	10	8	2	10	2	0.02	0.3	1	17	26

All values are given in mg/L. Overburden data are from monitor 11/4 and bedrock data is from monitor 5/17.

(STD = standard deviation, nd = not detected, n/a = not applicable, nt = not tested)

#### 3.3.3 Leachate Quality

Leachate quality is controlled by the availability of soluble contaminants in the waste pile, the residence time of infiltrating water in the waste, and the physical conditions, such as temperature, redox potential, and pH of the solution. Compared to background waters, leachate that is produced from landfill waste typically possesses elevated concentrations (x10 or more) of magnesium, sodium, potassium, iron, zinc, chloride, alkalinity, ammonia, total kjeldahl nitrogen, conductivity, total dissolved solids and phenols. Since municipal wastes have only been accepted for a short time, and there is no dedicated leachate monitoring well, the ground water data from the monitoring wells



in and around the active waste area has not shown water quality that substantially differs from than background waters, although is very slightly elevated (for certain inorganic compounds such as calcium and alkalinity) above the background ground water geochemistry. With the current waste placement (Figure 4), the most representative leachate ground water monitor locations are MW1/17, MW6/6, MW23/3 & KGS/2, which have shown minimal but measurably elevated concentrations for a number of leachate indicator parameters (boron, ammonia, DOC, chloride, alkalinity). Despite the measurable influence, the concentrations are noted to be minimal relative to dedicated leachate monitors at most landfill Sites. The time trend graphs provided in Appendix F indicate variability of leachate impacts, although concentrations are more elevated during the current monitoring period. The variability likely is reflective of the progression of the waste area such that impacts are more measurable when the active area is closest to the monitoring location. This is evidenced through the concentrations between 2012 and 2015 being elevated at MW1/17, while they declined as waste filling progressed further to the west.

## 3.3.4 Downgradient Ground Water Quality

As in previous years, the 2015 - 2017 analytical data do not indicate that leachate generation from the waste has resulted in impact to ground water quality either immediately downgradient (MW2) of the waste or at any of the other monitors installed within the Contaminant Attenuation Zone (CAZ). Since the landfill commenced operation in the spring of 2001, the concentrations of parameters at all downgradient monitoring locations have remained at or very slightly above background levels, as can be observed in the time series graphs provided in Appendix F. These conditions are somewhat expected given the limited permeability of the overburden and bedrock beneath and downgradient of the waste area.

ODWQS are met at all downgradient locations with the exception of some metals parameters (i.e. iron, lead, manganese) during the May 2016 and 2017 monitoring events. However, it is noted that these monitoring events did not have the metals samples filtered such that the concentrations are not representative and reflect leaching of the sediment collected in the sample bottles through the acid preservative.

A suite of volatile organic compounds (VOC's) was analyzed at MW2/9, however, no detections for any parameters was noted during this monitoring period. A summary of detected VOCs between 2001 and 2017 can be found in Appendix G.



# 3.4 Surface Water (Schedule "C")

City staff collected surface water samples in May, August and October during 2015 to 2017, with the analytical data have been summarized and are included in Appendix H.

#### 3.4.1 Surface Water Flow

Surface water from the area of the waste flows in a northeasterly direction through a large bog/wetland complex before eventually discharging into a pond at the west side of the Jones Road Culvert (SW-1) that serves as the headwaters of an unnamed creek. Discharge into the pond from the bog includes both surface flow and interflow within the peat.

From the pond, the creek flows beneath the roadway and in a northeasterly direction for approximately 700 m, before turning southward and eventually discharging into a further bog/wetland complex south of a logging road about 800 m upgradient of Morgan Lake (SW-2). Along its route, the creek is discontinuous as it passes through various bogs, wetlands, and beaver ponds. Periodic discharge from the Lunch Lake sub-watershed commingles with flow in the creek, providing additional flow at SW-2.

Approximately 150 m northwest of the waste footprint, a depression is noted in the landscape, known locally as the "saddle". This area allows a portion of surface drainage to migrate into Crystal Bay during spring freshet or in response to large precipitation events. Crystal Bay is located approximately 350 m north of the waste cells. Figure 2 shows the Site's hydrologic features.

Estimates of stream velocity were made by City Staff at SW-1, SW-2, SW-3, and SW-4 during the May and October sampling periods and at SW-1, SW-2, SW-3, SW-4 and SW-5 during August, as per Condition 2.4, Schedule C of the current C of A. Flow velocity measurements are summarized in the following table. As in previous years, flows are shown to be low and intermittent.



**Table 5: Surface Water Flow Velocity Data** 

	Velocity (m/sec)									
Location	2015			2016			2017			
	May	May Aug Oct May Aug Oct				May	Aug	Oct		
SW-1	0	0.24	0.05	0.15	0.18	0.1	0.34	0.015	0.15	
SW-2	0.3	0.3	0.09	0.15	0.18	0.2	0.24	0.05	0.18	
SW-3	0	0	0	0	0	0	0	0	0	
SW-4	0.03	0	0	0	0	0	0	0	0	
SW-5	-	0.3	=	-	0.18	-	-	0	-	

#### 3.4.2 Surface Water Quality

Surface water quality data obtained over 2015 -2017 were compared to the background quality data obtained at SW-1 and SW-2 prior to the construction of the Site in 2000, as well as to the Provincial Water Quality Objectives (PWQO). In general, the surface water quality has shown to become leachate influenced over the past several years with elevations in a number of leachate indicator parameters, including boron, alkalinity, ammonia and chloride. These trends, as illustrated in the time-trend graphs (Appendix I) have been gradual but consistent over the past ten years, with the exception of boron, which has shown a sharper increasing trend between 2011 and 2014 at SW-1 and between 2012 and 2016 at SW-2. The boron trends have not been observed at any of the other surface water locations including SW-5, which represents the furthest downstream monitoring location where water from the wetland complex discharges into Morgan Lake. These trends have also been noted to become more stable in 2017, possibly reflecting a steady state condition or the fact that the active working area is further from eastern waste edge that is immediately adjacent to the wetland complex.

The elevations of these specific parameters are not surprising as they are reflective of construction and demolition wastes (i.e. gypsum [calcium sulphate] wallboard). The boron is likely derived from boric acid, which is added to gypsum board to increase the strength of the material, reduce weight and provide better adhesion of the paper to the board. As most leachate indicator parameters have remained at relatively low concentrations, these values are not seen as an issue at this time. As well, these parameters have limited potential for environmental impacts unless they reach very high levels. A similar time-trend analysis for SW-2 indicates the same general trend observed at SW-1 has begun in 2008, however to a much smaller degree. These increasing trends are most apparent in the area closest to the waste area (SW-1), while impacts are reduced further away from the footprint, indicating attenuation. This is most evident in the boron



concentrations which exceed PWQO at SW-1, but are an order of magnitude lower at SW-2.

Despite the above discussion, the source of this boron trend given the lack of other significant leachate indicator parameter concentrations is not fully understood, but as discussed in Section 3.5, Azimuth is investigating the boron trends further due to exceedance of the trigger criteria. With the exception of boron, the remaining water quality parameters indicate a measurable influence downstream of the landfill with elevated alkalinity, ammonia, chloride, sulphate and TDS; however the concentrations are only marginally elevated above background and indicate attenuative processes are active with declining concentrations between SW-1 and SW-2 further downstream within the wetland complex.

Aside from the boron exceedances of PWQO, iron, total phosphorus, phenols, pH, zinc and unionized ammonia have exceeded PWQO during the current monitoring period. However, with the exception of unionized ammonia, which only exceeded at a single occasion (May 2016) at SW-1 (0.03 mg/L), the parameters are naturally sourced as elevated and exceeded concentrations have been found both historically and in background locations SW-3 & SW-4. Elevations of these parameters are expected in wetland conditions with shallow, stagnant water conditions, which routinely result in elevated suspended solids being collected in the bottles, which can artificially elevated parameter concentrations for total phosphorus and metals (iron & zinc), while also provide a natural phosphorus source though decay of organic material.

Given the surface water quality has shown relatively higher concentrations than the ground water monitoring wells at the Site, it is evident that the surface water currently represents the primary leachate migration pathway. This is not surprising given the limited permeability of the underlying geology. Given these conditions, the surface water network has been expanded to better assess the surface water pathway. These additional locations are discussed in more detail in the following section.

#### 3.5 Trigger Mechanism Assessment

The Trigger Mechanism and Contingency Plan for the Site was revised and submitted and approved by the Ministry in 2014. The purpose of this update is to provide a more appropriate trigger mechanism approach based on the current data set which now has 15 years of seasonal geochemical data. Leachate quality data is now better understood with the landfill recently beginning to accept municipal wastes in 2009. The purpose of the trigger mechanism is to identify potential issues in advance and to trigger additional evaluation or actions to more closely monitor or mitigate unacceptable impacts.



The targeted parameters and associated trigger concentrations for ground water are summarized in the following table.

**Table 6: Trigger Limits – MW3/8** 

Parameter	ODWQS	Background *	Trigger Limit at MW3/8 **
Chloride	250	2.2	126
TDS	500	147	324
Alkalinity	500	68	284

It is noted that all concentrations at MW3/8 for these parameters have been less than 50% of the associated criteria for the reporting period (2015-2017). Although not identified originally as a trigger location, it is noted that other downgradient monitoring wells (MW2/9 and MW6/5) have shown similar compliance.

The trigger limits were also created for surface water at SW-2, as well as action criteria at SW-1, which is in place to provide additional review of the geochemical data to assess any potential trends prior to trigger limits being exceeded at SW-2. The criteria established are summarized in the following table.

**Table 7: Surface Water Trigger Limits** 

Parameter	Typical Landfill Leachate	SW Background (SW-3)	Action Level at SW-1	Trigger Limit at SW-2*
Chloride	1000	1.9	158	187
Boron	5	0.02	0.8	0.2
Ammonia (unionized)	5	0.0005	0.8	0.02

It is noted that both chloride and un-ionized ammonia are well below their associated criteria at both locations (<45%), while boron has shown to have more elevated levels (as discussed in Section 3.4), with concentrations exceeding action levels at SW-1 and trigger limits at SW-2 consistently over the past two years. Given these trigger exceedances in 2016, confirmatory monitoring was conducted after the September 2016 monitoring event with the required two monitoring events taking place in the fall and following spring (2017). Although a two month window was established for confirmatory sampling, frozen conditions limited the second sampling event to be completed until the following spring. As the confirmatory sample results continued to show elevated boron concentrations, the MOECC was notified on June 7, 2017 of these exceedances and provided an action plan to further assess the boron exceedances. The following summarizes this action plan.



The initial confirmatory sampling was completed on November 18, 2016. Analysis for all three trigger parameters (ammonia, chloride and boron) was completed, while duplicates were submitted to separate laboratories (Maxxam –Winnipeg & ALS – Thunder Bay), both of which are CALA accredited laboratories. The results which are summarized in Appendix H indicate that the boron concentrations remained above trigger criteria, albeit only minimally. It is also noted that the concentrations remained relatively consistent throughout 2016 into 2017, despite the exceedance, while other trigger parameters are well below their associated trigger values.

Given the persistent, albeit only slightly above the trigger, boron concentrations, further action was required to more adequately assess the boron source and migration mechanism. Currently, the closest downgradient monitoring overburden well MW2/9 has not shown impacts and boron concentrations are typically below detection limits. Similar results are observed a MW6, which is further downgradient and upstream of SW-1.

Given the lack of leachate impacts in the downgradient ground water, specifically boron, as well as the lack of surface water seepage or flow in the area intervening the waste mound and SW-1, it was uncertain as to why the boron concentrations are elevated in the downstream surface water features. In order to gain a better understanding of the boron source as well as the potential transport mechanism involved the following actions were taken in 2017, into 2018. It is a staged approach with additional action items proposed if the initial work warrants the additional tasks.

Although the boron concentrations have exceeded their trigger values, the concentrations are only slightly above these criteria. As such, additional monitoring locations were established to better delineate the boron impacts within the surface water regime. Given the lack of leachate seeps at the waste mound and flow channels present between the landfill and SW-1, a total of three locations were targeted at various distances from the waste mound. As illustrated on Figure 2, new locations were established. RW-1 is located adjacent the MW-20, RW-2 is located adjacent to MW-2/13 and RW-3 was located between MW-20 and MW-21. It is noted that these locations were targeted by City staff based on sufficient depth to facilitate a representative sample. There are no defined flow channels in this area and surface water migration is assumed to braided based on local subtle topographic variation.

The results, which have been included in Appendix H indicates boron concentrations were elevated at all three locations. The following table summarizes the boron as well as other notable leachate indicator parameters which were analyzed at all six locations and



observed to be elevated. pH was also added as it was believed there could be a potential correlation between pH and boron concentrations.

**Table 8: Leachate Indicator Parameter Concentration Comparison** 

		RW-1	RW-2	RW-3	SW-1	SW-2	SW-5*
Parameter	PWQO	11-Apr-17	11-Apr-17	5-Oct-17	17-May-17	17-May-17	29-Aug-17
Boron	0.2	3.48	1.36	1.6	0.86	0.23	< 0.02
Chloride		180	62	69	34	17	5.0
Alkalinity		2070	768	517	254	138	8.5
Total Ammonia		70	14	0.13	< 0.02	0.081	0.038
Unionized Ammonia	0.02	1.25	0.42	0.0047	< 0.0002	0.0019	0.0001
рН	6.5-8.5	7.99	8.22	8.31	8.00	8.05	6.90

<sup>\*</sup> only sampled in August monitoring event

As can be observed, the most significant elevations are found at RW-1, which is not immediately adjacent to the waste as is RW-2, which might suggest that impacts are migrating from the waste mound in specific locations south of RW-2. The results in the table also illustrate that there is attenuation observed for all the leachate indicator parameters indicating attenuation is occurring within the CAZ.

In addition to the surface water monitoring, samples were also collected from MW-7/4 and MW-21/7 in October 2017 to assess the potential for migration of the boron impacts within the shallow ground water. This was proposed as the closest monitoring wells downgradient of the waste (MW-2 nest) are relatively deep wells (9 & 13 m), while MW-7/4 and MW-21/7 had been removed from the monitoring program in 2012 due to a lack of observable leachate influence within the ground water within the waste area.

The results from these two locations have been included in Appendix D. It is noted that the water quality has remained consistent with that collected historically with no observable leachate influence. A slightly elevated nitrate concentration was observed at both locations (0.92 & 1.8 mg/L respectively), where the historical results are routinely below detection limits. However, a similarly elevated concentration (2.30 mg/L) was observed at MW-7/4 in 2005. Given that no other leachate indicator parameters showed elevated concentrations and this parameter has been shown to have an isolated detection in the past, the 2017 concentrations are not interpreted to be related to landfill leachate within the ground water downgradient of the waste mound.

The additional ground and surface water quality data collected in 2017 confirms the presence of leachate within the surface water is consistent between the waste mound and SW-1, while similar impacts are not observed in the underlying ground water. This would suggest that the primary leachate migration pathway is within the surface water



downgradient of the waste mound. This is supported by the fact the underlying soils have limited permeability with a dominance of silt and clay.

The other aspect of the surface water quality that was reviewed as part of this action plan was the relationship between pH and boron concentrations. Although there appears to be elevated pH levels where elevated boron is observed in the surface water network (SW-1 & SW- relative to SW-5), the longer term trends for pH at the impacted locations do not show a meaningful increase over time that would coincide with the increasing trends observed for boron. It is noted that there still may be a relationship between the two parameters; however, the magnitude would indicate that it is insufficient that it could be considered as part of any mitigation measure.

It is important to note that the surface water quality monitoring completed in 2017 has shown that the boron concentrations are relatively stable at SW-1 since 2014 with concentrations falling within a range of 0.610 & 0.995 mg/L. Although concentrations at SW-2 are still showing a slight increasing trend over the past two years (0.21 to 0.36 mg/), there is a bit of a time lag with respect to the onset of the elevated boron concentrations such that it would not be surprising to see a similar consistency over the next year or two. This time lag is also reflective in the operational mitigative strategies that are being employed by the City with the decreasing of the active working area, shifting the active area further back from the downgradient toe in a new cell area and increasing the amount of cover material at the downgradient end of the waste mound. Continued monitoring in 2018 will help to assess the effectiveness with these operational changes.

Finally, an additional surface water location (RW-5) is proposed at the outlet of the wetland tributary at Morgan Lake such that this information can be utilized as part of the aquatic assessment.

The continued monitoring of these additional locations will be reassessed following review of the 2018 data.

Beyond the additional water quality sampling, additional items within the work plan for 2018 includes an assessment to potentially identify the specific source of boron within the waste stream as well as an updated aquatic assessment. It is understood that boron is potentially contained in a number of construction and demolition (C & D) wastes as both a fire retardant (wallboard) and preservative (treated wood), but the amounts and leaching potential for these materials is not well understood. As such, it is proposed that some common C & D wastes be assessed in 2018 for leachable boron content. It is proposed



that the City isolate a volume of these wastes (pressure treat wood, wallboard and particle board) in separate containers on Site such that they are exposed to local conditions and that these containers can collect the leached rainfall from these materials between spring melt and midsummer, when samples from these isolated leachate containers can be collected and submitted for laboratory analysis, similar to the routine monitoring program. The results may provide a primary waste stream source for the boron such that operations at the Site can be developed to handle and isolate these materials from the regular waste stream in an effort to reduce the contribution to the adjacent surface water features.

As discussed in the original action plan, it was proposed that an update to the historic aquatic assessment (Fenco MacLaren, 1997) could be completed with an updated field assessment of the water course / wetland feature that is present between the landfill and SW-2. Given the understanding developed with respect to the migration pathway being completely through surface water flow, it is suggested that this work proceed in 2018 such that a Site specific ecological risk assessment can be completed with respect to boron. As noted in the 2017 action plan, it may be appropriate to evaluate the boron concentration on alternative criteria such as Canadian Water Quality Objectives (CWQO), which have a larger threshold than that in the PWQO, while CWQO also has specific rationale for its threshold that could be related and interpreted based on the results of the aquatic assessment. CWQO also describes thresholds for both chronic and acute exposures. Finally, recent communications with the Standards Branch at the MOECC regarding the boron PWQO value, it was indicated that given its interim status and limited toxicology dataset that was utilized during development of the criteria that the CWQO value would be a more appropriate value to use as it utilized a more robust toxicological dataset and was developed by the MOECC.

Although the original aquatic assessment was limited to the defined CAZ lands, it is recommended that the proposed assessment would extend further downstream through to the outlet of the wetland feature at Morgan Lake. Despite the current monitoring program has not indicated any impacts to Morgan Lake (SW-5), this assessment would benefit from developing an understanding of the ecological importance of the outlet area.

Although the boron concentration remain above trigger criteria, the levels are below the effect levels described in the CWQO. Actions have been undertaken and will be completed in 2018 to improve the understanding of both the source as well as potential impacts to the downstream environment. An updated assessment is intended to be provided to the MOECC upon completion of the above mentioned tasks in 2018.



Additional recommendations may be included with respect to the monitoring program, which would be summarized in subsequent monitoring reports.

Beyond the water quality trigger criteria outlined above, there are also triggers established for ground water elevations at the Site in the "saddle" area (MW11/4, MW16/15 & MW19/16) and along Jones Road (MW5/17). These triggers are identified in Appendix E and reflect elevations where if exceeded, ground water flow patterns might flow north and south respectively. As identified in the data presented in Appendix E, all ground water elevations for the current monitoring period are well below the trigger elevations such that the Site is currently in compliance with respect ground water elevations.

#### 3.6 Sediment (Schedule "D")

In May of 2013, the C of A was amended to reduce the frequency of sediment sampling from 5 to 10 years. The last sediment samples were collected in 2012, while the next scheduled sediment sampling event is not until 2022. As such no sampling data is included in this monitoring period.

## 3.7 Biological Effects (Schedule "E")

Benthic invertebrate monitoring was conducted from 2000 to 2003. The need for continued or additional benthic monitoring is not necessary, since the minimum of three (3) years of sampling, as stated in the C of A, has been fulfilled. As requested during the 2013 Ministry inspection, the data from these previous studies has been included as an appendix for completeness (Appendix N).

#### 3.8 Landfill Gas (Schedule "G")

Landfill gas was previously required according to the C of A Schedule "G" on a bimonthly basis during frozen ground conditions and quarterly during all other periods at the two proposed landfill gas monitors outlined in the SNC-Lavalin monitoring plan (September, 1999). Landfill gas was removed from the monitoring program as documented in the Ministry document dated April 23, 2013, however, as required in the letter, the monitoring locations were maintained for future use.

Although the potential for methane generation has increased with the commencement of domestic waste deposition at the Site in 2009, the limited size of the waste mound and relative small waste acceptance rate would still limit the methane generation at the Site. As well, the geochemical signature of the landfill leachate, which is most notable at MW1/17 (downgradient edge of waste) and MW23/3 (middle of waste) still has a



relatively weak and variable leachate signature with chloride concentrations less than 150 mg/L. Given these conditions, significant methane production has not likely yet developed at this point, however, will be assessed as part of the next monitoring report, which is to be submitted in 2021. This time frame is deemed to be appropriate given the remoteness of the Site limits the potential for risk to the nearest residents. However, if a significant increasing trend in leachate concentrations develops in the interim, the City will conduct a round of methane measurements to document landfill gas concentrations such that an assessment regarding re-instatement of measurements as part of the monitoring program is necessary.

#### 3.9 Geotechnical Monitoring (Schedule "H")

As required in Schedule "H" of the C of A, shear testing is required to be completed by a geotechnical engineer prior to filling in areas of Cell A. The last testing was completed in 2014 and was summarized in the previous monitoring report. No testing has been completed during this monitoring period given the active working areas have been atop existing wastes (i.e. second lift) as per the landfill sequencing plan (Figure 3).

# 4.0 PROPOSED 2018 -2020 MONITORING PROGRAM

It is recommended that the 2018 – 2020 monitoring program for the City of Kenora Jones Road Landfill Site remains the same as the current program, which should follow the current C of A No A612018. The exception to this is the additional monitoring completed to address the boron trigger criteria exceedance. That additional monitoring will be completed, reviewed and proposed as part of that assessment, which is currently underway and any longer tern monitoring requirements established as part of that program will be provided to the MOECC under separate cover for their review. The 2018 – 2020 program includes the monitoring of ground water levels and collection of ground and surface water samples as outlined in the following table.



**Table 9: Summary of the Required 2018-2020 Monitoring Programs** 

Monitor Location	Annual Frequency	Parameters
Ground Water		
1/17, 2/9, 2/13, 3/8, 4/6, 5/17, 6/5 and 16/15	August	comprehensive list
1/17, 2/9, 2/13, 3/8, 4/6, 5/17, 6/5, 11/4, 16/15, 17/15, 19/16, 23/3, KGS-2 and 24/5	May & August	indicator list* & water levels
2/9	August	VOC's
<u>Surface Water</u>		
SW-1, SW-2, SW-3, SW-4 and SW-5 (August only)	August & October	comprehensive list
SW-1, SW-2, SW-3, SW-4 and SW-5	May	indicator list
SW-2 and SW-3	May, August & October	flow measurement
SW-2	August	VOC's

<sup>\* -</sup> Only locations where comprehensive samples are not required for the August event

As per the Ministry letter dated April 24, 2013 (Appendix B), sediment sampling is to remain in the monitoring program, however the frequency of sample collection has been reduced to every 10 years with the next sample being required in 2021. However, it is also stated that if annual surface water samples in Morgan Lake or Crystal Bay show a significant increase in metal concentrations then the sediment sampling should be repeated and thereafter every five years. Based on the information outlined in Section 0, there does not appear to be a significant increase in metal concentrations at those locations, so it is therefore recommended that sediment sampling continue with the current sampling frequency of once in every ten years. Based on this information, the next sediment sample collection should occur during the 2021 field season.

# 5.0 CONCLUSIONS AND RECOMMENDATIONS

Operation of the City of Kenora Jones Road Landfill Site is in compliance with the C of A and is performed as designed. The Site is not creating any adverse impacts on the surrounding environment. There have been PWQO exceedances of boron beyond the CAZ boundary; however, additional assessment is currently being undertaken as part of the action plan associated with the Trigger Mechanism Program exceedances such that any potential mitigation measures will be documented within the summary report scheduled to be completed following the data collected in 2018. Therefore there are



currently no requirements for any mitigation / remedial measures based on the existing Site performance data compilation.

The boron exceedances do illustrate the primary leachate migration pathway for the Site is currently within the surface water of the wetland feature downgradient of the Site. Despite this, attenuative processes are active such that leachate indicator parameters show a meaningful decline in concentrations with distance from the landfill, while concentrations within the downstream receptor (SW-5 – Morgan Lake) are similar to background indicating no observable leachate influence is present. As the active waste area moves north and west from the eastern waste footprint limits, there is an expectation that this greater separation distance could provide greater attenuative capacity, while the City has also undertaken addition of capping material along the eastern slopes to limit the potential for leachate seepage into the wetland.

Finally, limited impacts to the ground water regime continue to be observed only within either the landfill footprint or at monitors situated immediately downgradient of the waste cells such that the current CAZ is considered adequate given the current ground water conditions.



#### 6.0 REFERENCES

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#### **APPENDICES**

**Appendix A: Figures** 

Appendix B: MOE Correspondence and Certificates of Approval

**Appendix C: Annual Waste Quantities Appendix D: Ground Water Quality Data** 

**Appendix E: Ground Water Levels** 

**Appendix F: Ground Water Chemistry Over Time Graphs** 

**Appendix G: Detected Volatile Organic Compounds** 

**Appendix H: Surface Water Quality Data** 

Appendix I: Surface Water Quality Over Time Graphs
Appendix J: MOE Landfill Reporting Submission Forms
Appendix K: Benthic Invertebrate Monitoring Data

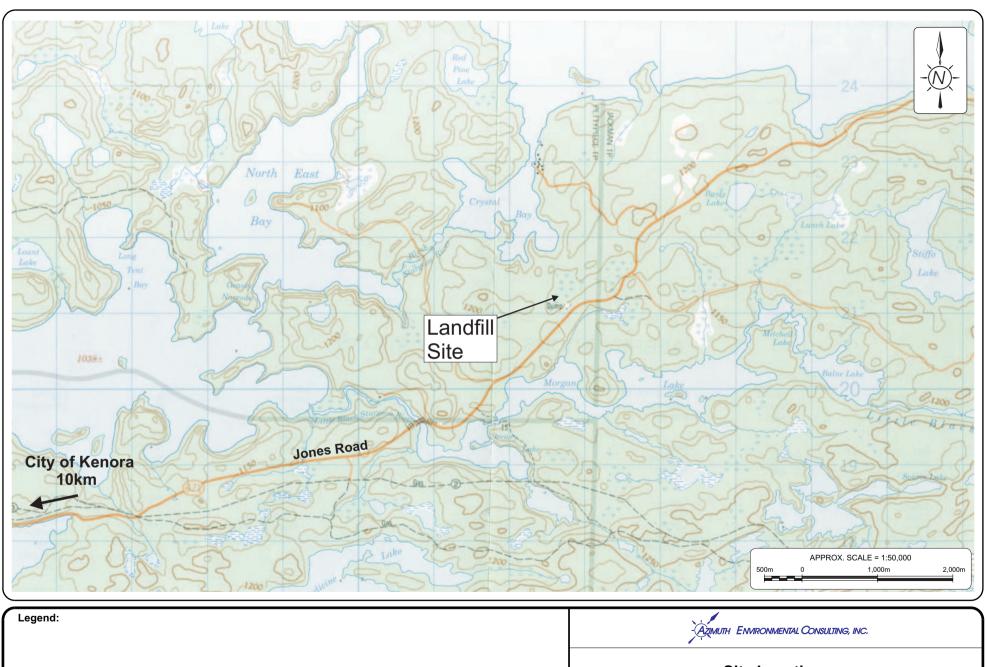
Appendix L: Final Contour Design Drawing

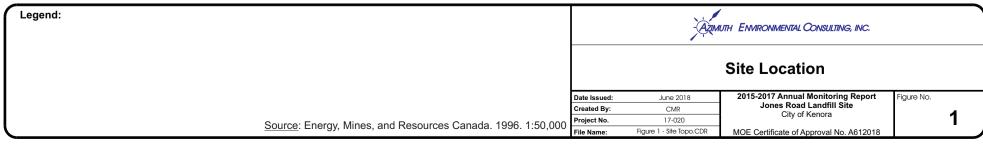
Appendix M: Borehole Logs

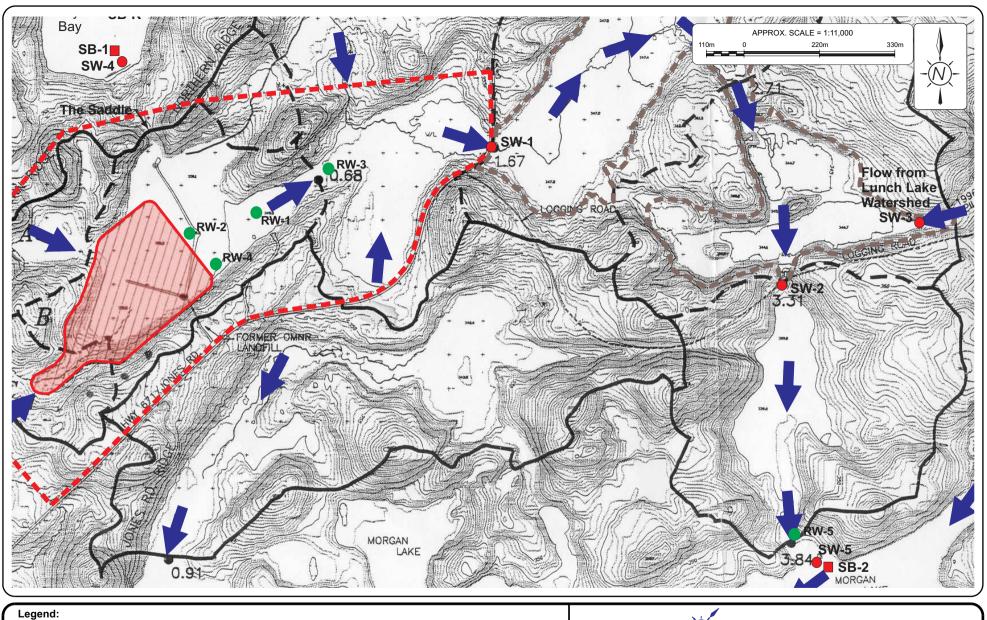


# APPENDIX A

**Figures** 









Approved Waste Footprint

Approximate Property Boundary

Contaminant Attenuation Zone

Watershed Boundary



Surface Water Sampling Location



Sediment/Benthic Sampling Location



Surface Water Flow

Base Drawing: Fenco MacLaren (1997), Figure S3.1



# **Hydrologic Features**

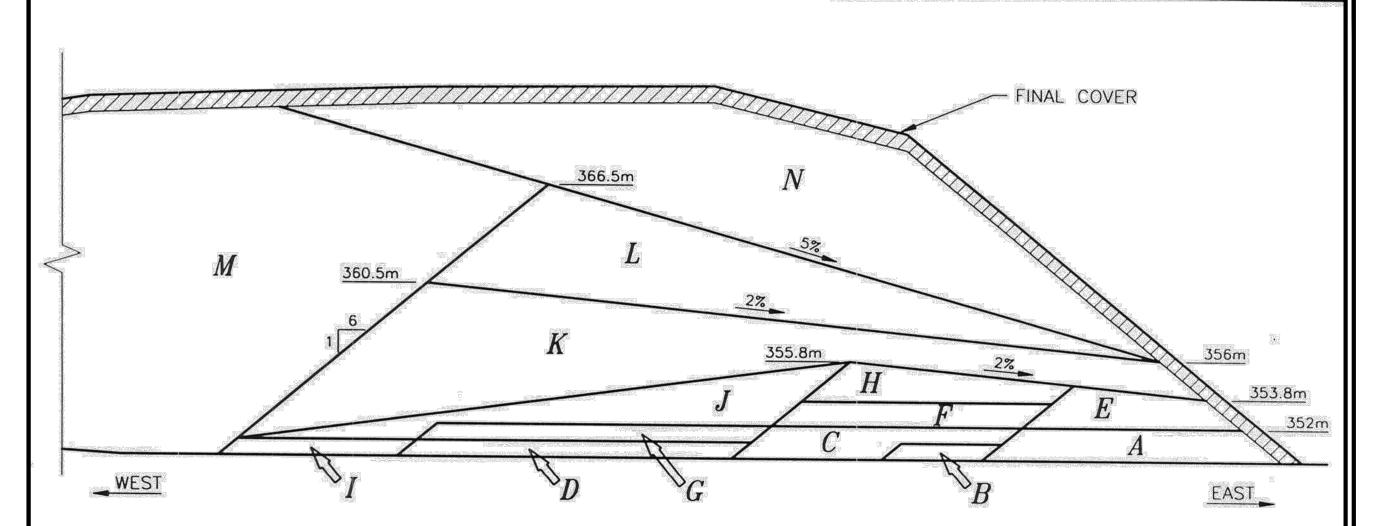
Date Issued	: June 2018
Created By:	CMR
Project No.	17-020
File Name	Figure 2 - Hydrologic Features CDR

Jones Road Landfill Site
City of Kenora

MOE Certificate of Approval No. A612018

Figure No.

2



LANDFILL SEQUENCE	APPROX. YEAR OF DEVELOPMENT	LANDFILL SEQUENCE	APPROX. YEAR OF DEVELOPMENT
$\boldsymbol{A}$	1 - 3	H	11
$\boldsymbol{\mathcal{B}}$	4	$m{I}$	12
$\boldsymbol{\mathcal{C}}$	5	$\boldsymbol{J}$	13
D	6	$\boldsymbol{K}$	14 -20
<b>E</b>	7 - 8	$oldsymbol{L}$	21 -23
$\boldsymbol{\mathit{F}}$	9	M	24 -35
	10	<b>N</b>	36 -40

Fenco MacLaren

SNC-LAVALIN

KENORA AREA WASTE MANAGEMENT MASTER PLAN PROPOSED KENORA AREA LANDFILL

FIGURE S1-5.1

LANDFILL DEVELOPMENT SEQUENCE

HOR. 1 : 1500 VERT. : 300

Not to Scale

LEGEND:

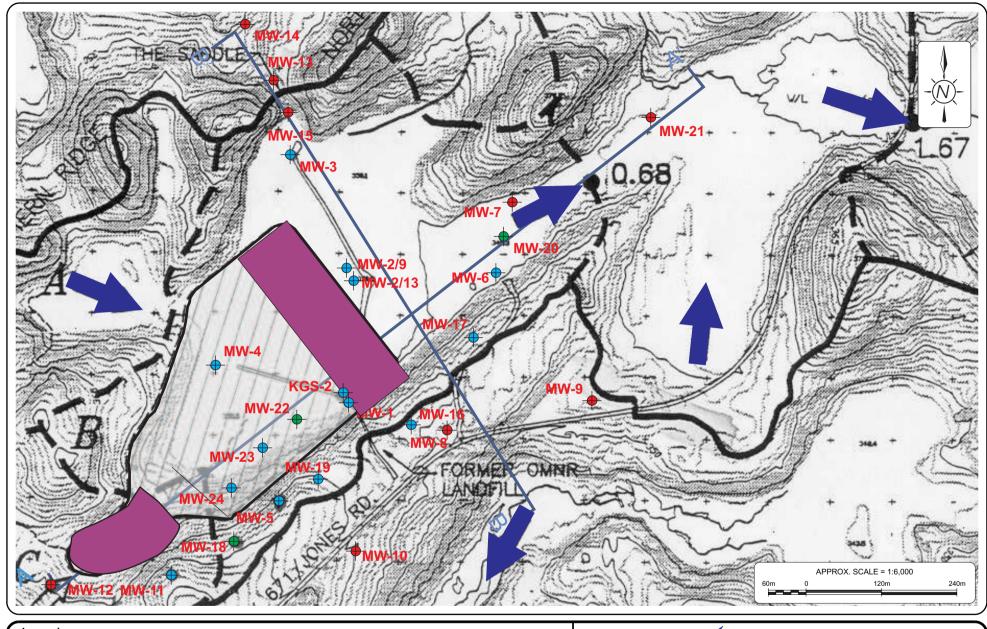
- AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Landfill Development Sequence

Jones Road Landfill City of Kenora

TE ISSUED:	June 2018	Figure No.
EATED BY:	JLM	2
OJECT NO.:	17-020	3

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Approved Waste Footprint



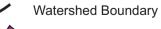
Ground Water Monitor (maintained)



Ground Water Monitor (removed from program)



Ground Water Monitor (decommissioned)





	Ground W	Vater Monitoring Netwo	rk
Date Issued:	June 2018	Jones Road Landfill Site	Figu
		City of Kenora	

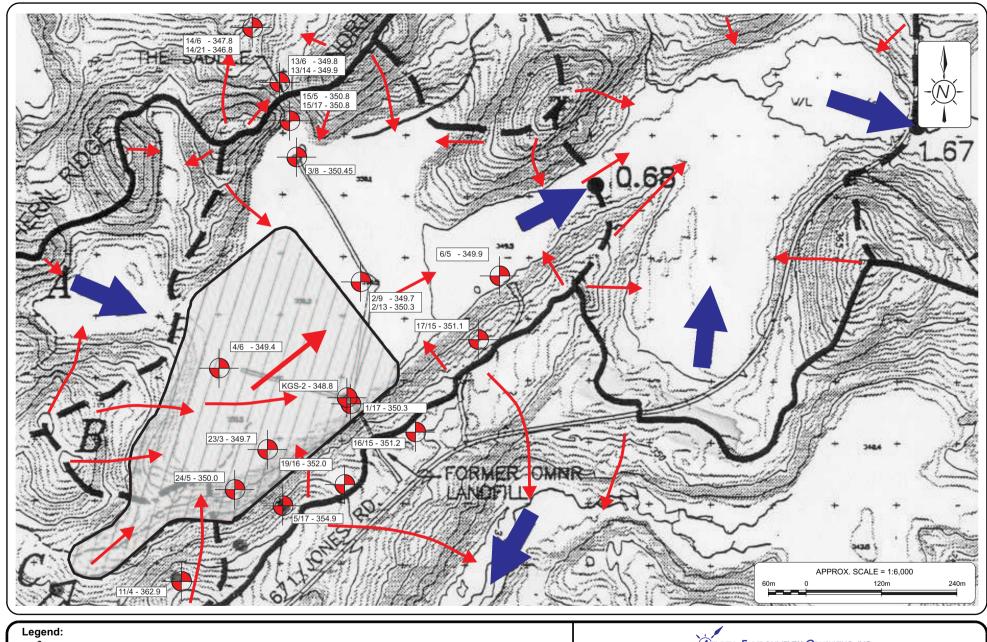
Project No. 17-020 Figure 4 .CDR

MOE Certificate of Approval No. A612018

- AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Figure No.

Base Drawing: Fenco MacLaren (1997), Figure S3.1





Approved Waste Footprint



**Ground Water Monitor** 



Watershed Boundary



Ground Water Flow Direction



Surface Water Flow Direction



**Sub-watershed Boundary** 



## **Ground Water Monitoring (May 2017)**

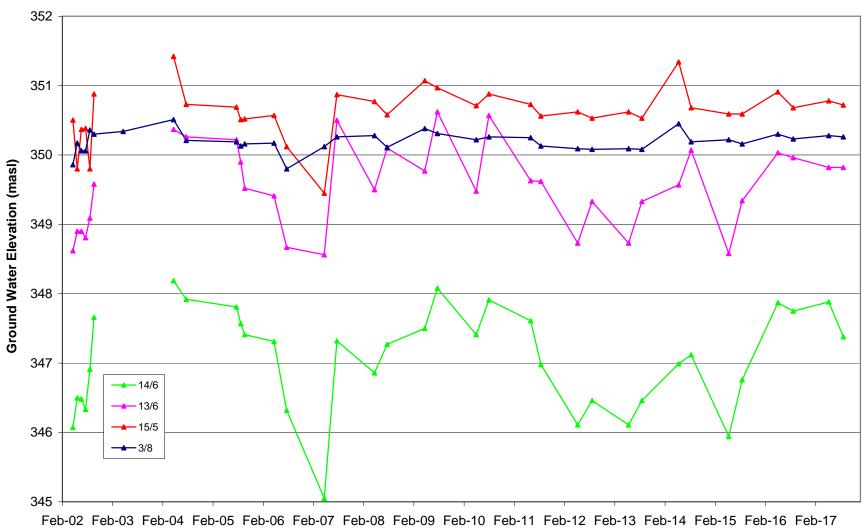
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	Created By:	CMR
	Project No.	17-020
4		Figure E CDD

2015-2017 Annual Monitoring Report Jones Road Landfill Site City of Kenora MOE Certificate of Approval No. A612018

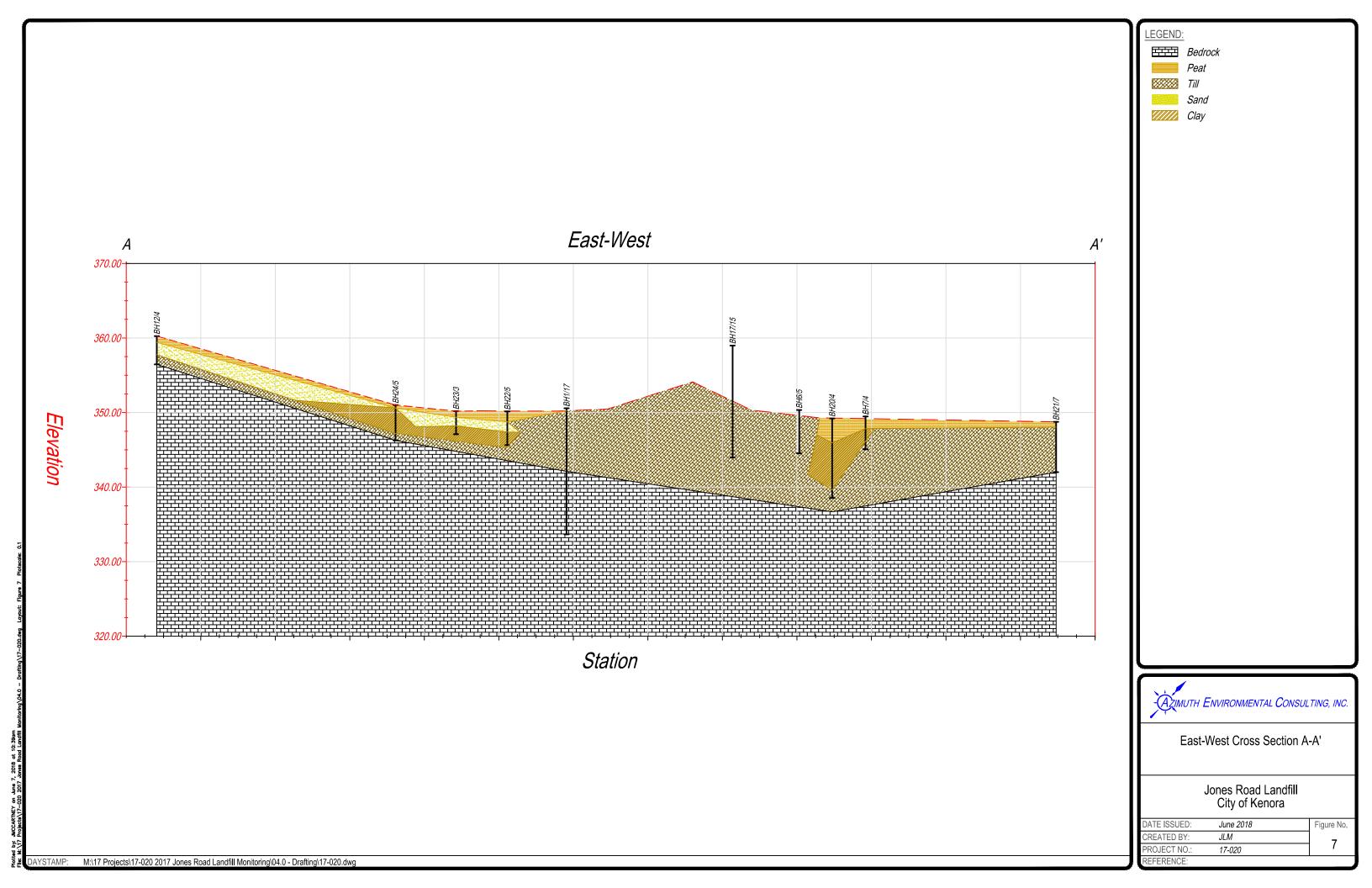
Figure No.

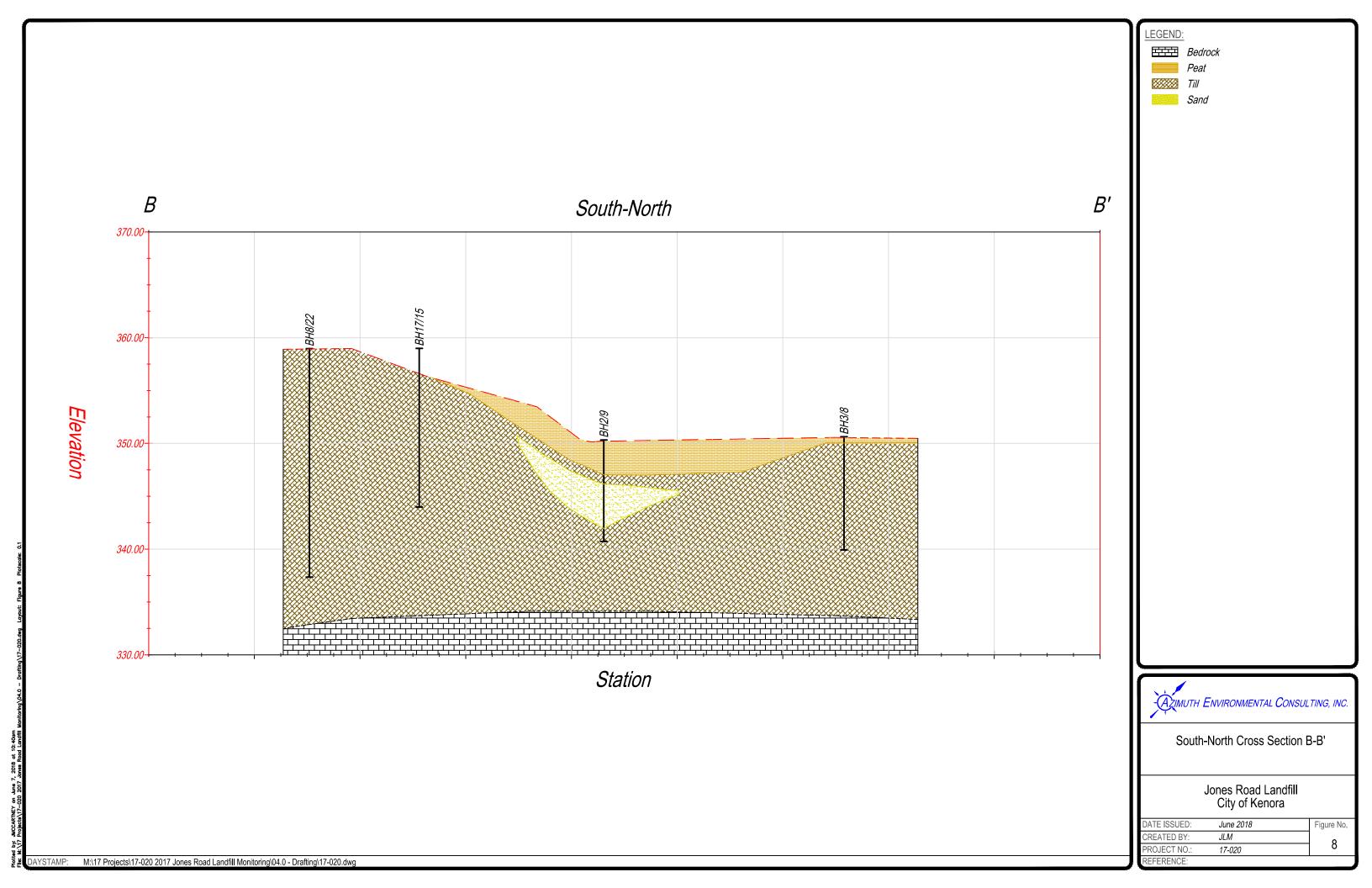
Base Drawing: Fenco MacLaren (1997), Figure S3.1 File Name:

Figure 6 - Saddle Ground Water Elevations (overburden)



09 Feb-10 Feb-11 Feb-12 Feb-13 Feb-14 Feb-13 Feb-10 Feb-1







## APPENDIX B

**MOE** Correspondence and Certificates of Approval



Ministry of the Environment and Climate Change Ministère de l'Environnement et de l'Action en matière de changement climatique

#### AMENDMENT TO ENVIRONMENTAL COMPLIANCE APPROVAL

**NUMBER A612018** 

Notice No. 1

Issue Date: September 11, 2015

The Corporation of the City of Kenora 60 Fourteenth St N

Kenora, Ontario P9N 4M9

Site Location: Kenora Area Waste Disposal Site

Lot Part 1, 2, Concession 1, 2

Pettypiece Unorganized Township, District of Kenora

You are hereby notified that I have amended Approval No. A612018 issued on January 15, 2014 for a 13.1 hectare landfilling area and a composting facility within a total site area of 108.1 hectares, as follows:

### I. The pre-amble is amended to read as follows:

for the use and operation of a waste disposal site encompassing a 13.1 hectare landfilling area and a composting facility within a total site area of 108.1 hectares

## II. The following definition replaces previously defined term:

"MOECC" means the Ontario Ministry of the Environment and Climate Change and it replaces the term: "MOE" previously defined as the Ontario Ministry of the Environment;

#### III. The following definitions are added:

"Compost" has the same meaning as set out in the document "Ontario Compost Quality Standards" dated July 25, 2012, as amended;

"Composting" has the same meaning as set out in the document "Ontario Compost Quality Standards" dated July 25, 2012, as amended. Furthermore, Composting must be conducted under controlled engineered conditions designed to decompose and stabilize organic matter. Exposure of organic matter under non-engineered conditions resulting in uncontrolled decay is not considered Composting;

Compost Quality Standards" means the Ministry standards for Category A Compost as set out in the document entitled "Ontario Compost Quality Standards" dated July 25, 2012, as amended;

"Curing" means a biodegradation process that has a slower rate of decomposition, and lower biological activity and oxygen demand. This phase of the process is characterized by: reduced temperatures, lower moisture content and lower odour generation than previous phases of the operation;

"Compost" means the Leaf and Yard Waste that has been fully processed, as required, and is considered ready for sampling and testing for compliance with the Compost Quality Standards;

"Immature Compost" means the Leaf and Yard Waste which has been thermophilically Composted but not Cured and screened or screened but not cured, or screened and cured but failed the maturity requirement;

"Leaf and Yard Waste" means waste consisting of grass, leaves and other plant materials but not Christmas trees, tree limbs or other woody materials in excess of 7 centimetres in diameter;

"Standards Document" means the Ministry's document entitled "Ontario Compost Quality Standards" dated July 25, 2012, as amended;

"Residual Waste" means waste resulting from the Leaf & Yard Waste processing activities at the Composting Facility and that is destined for final disposal or further off-Site processing at a Ministry-approved waste disposal site;

"Rejected-Waste" means the incoming waste inadvertently received at the Composting Facility and deemed by Owner to contain waste that does not meet the incoming Leaf & Yard Waste quality criteria set out in this Approval or that cannot be Composted and that is destined for final disposal or further off-Site processing at a Ministry-approved waste disposal site;

"Trained Composting Facility Personnel" means an employee trained or knowledgeable through instruction and/or practice and able to carry out any necessary duties related to Composting and Curing of the Leaf & Yard Waste as approved in this Approval;

"Untested Compost" means the Leaf & Yard Waste that has been fully processed, as required, and is considered ready for sampling and testing for compliance with the Compost Quality Standards;

## IV. The following Conditions are amended to read as follows:

#### Litter Control

- 40. The Owner shall implement all necessary measures to prevent off-Site litter impacts from the Site. These measures shall include but not be limited to the following:
  - a. the use and maintenance of suitable portable netting and snow fencing;
  - b. weekly Site litter inspections and clean-up; and
  - c. daily inspection and no less than weekly litter pick up on Highway 671 in the vicinity of the Site;

#### **Dust Control**

42. a. during dry periods when there are visible dust emissions, regular wetting of soil cover material prior to its spreading by bulldozers over the working face and regular wetting of the windrows in the Composting Facility;

## **CLOSURE PLAN**

59. h. closure of the Composting Facility including removal of waste and compost and any permanent infrastructure and equipment used at the Composting Facility.

### V. The following Conditions are added:

- 48.4 The Owner shall ensure that the leachate generated at the Composting Facility is contained and inflitrates into the Landfill footprint area.
- 48.5 The Owner shall ensure that the run-off from the Composting area is directed away from the Curing area and from the Untested Compost and Compost areas.

### MONITORING REPORT

- 58.1 r. The following information regarding the operation of the Composting Facility:
  - (i) annual amount and quality of Compost produced and used at the Site;
  - (ii) number of Composting and Curing windrows and the status of processing at the end of the operating year;
  - (iii) amount of unprocessed Leaf & Yard Waste temporarily stored at the Site at the end of the operating year;
  - (iv) amount of Compost temporarily stored (unused) at the Site at the end of the operating year.

#### 61. COMPOSTING FACILITY

- 61.1 (a) The Composting Facility is hereby approved to operate in accordance with Items #10 through #13 in Schedule "A" and the Conditions in this Approval.
  - (b) The Leaf and Yard Waste received at the Composting Facility shall not exceed the maximum concentrations for metals listed in Column 2, Table 3.2 of the Standards Document.

- All Leaf and Yard Waste arriving at the Composting Facility shall be inspected by an attendant, prior to its acceptance at the Site, to ensure it meets the requirements of this Approval.
- The Owner shall ensure that any Residual Waste resulting from handling of the Leaf and Yard Waste at the Composting Facility or any waste that is not the Leaf and Yard Waste inadvertently accepted at the Composting Facility, are removed from the Composting Facility by the end of the operating day in which it was received and landfilled at the Site, as approved.
- 61.4 The Leaf and Yard Waste shall be incorporated into windrows upon arrival at the Site.
- 61.5 All Leaf and Yard Waste Composting and Curing shall take place within the approved landfilling footprint and it shall be undertaken by the Trained Personnel.
- 61.6 All Leaf and yard Waste that is accepted at the Composting Facility shall be processed in accordance with the following or or as required in the Standards Document for production of Category A Compost:

### (1) COMPOSTING WINDROWS

- (a) the constituents of the Leaf and Yard Waste shall be mixed to ensure that the incoming feedstocks are evenly blended prior to Composting and so that the Carbon to Nitrogen ratio of 25:1 to 30:1 is achieved in the waste destined for the Composting windrows;
- (b) Composting windrows shall be constructed at bulk densities which promote aerobic conditions; and
- (c) the height of the Composting windrows shall not exceed 2 metres as proposed in Item #12 included in the attached Schedule "A".

## (2) COMPOSTING REQUIREMENTS

- (a) all Leaf and Yard Waste being composted shall be held at a temperature of at least 55 <sup>o</sup>C for a minimum of fifteen (15) days cumulative to ensure effective pathogen inactivation;
- (b) for sections of the Composting windrow constructed during the same time period, the temperature readings shall be taken every 15 metres along the length of the Composting windrow section or at six (6) representative locations, whichever method yields more readings locations;
- (c) during active Composting, the temperature of the Leaf and Yard Waste being Composted shall be monitored and recorded daily during the pathogen inactivation period and a minimum of weekly during the remainder of the active Composting process;

- (d) (i) during the fifteen (15)-day pathogen inactivation period of the Composting process, the windrows shall be turned at least five (5) times;
  - (ii) following the completion of the pathogen inactivation period of the Composting process, regular turning shall be carried out to provide aeration so that aerobic conditions are maintained within the Composting windrows and to optimize the Composting temperatures.

## (3) CURING REQUIREMENTS

- (a) the Owner shall not start the Curing process until the active Composting is completed as shown by a slower rate of decomposition, and lower biological activity and oxygen demand which are characterized by:
  - (i) reduced temperatures;
  - (ii) lower moisture content; and
  - (iii) lower odour generation than previous phases of the operation.
- (b) Immature Compost shall be cured for six (6) months or if Immature Compost is cured for less than six (6) months, it shall meet the following maturity requirements:
  - has been cured for a minimum period of 21 days from the day the last portion of material went into the batch, and the respiration rate is:
    - (A) less than, or equal to, 400 milligrams of oxygen per kilogram volatile solids (on a dry weight basis) per hour; or,
    - (B) less than, or equal to, 4 milligrams of carbon in the form of carbon dioxide per gram of organic matter (on a dry weight basis) per day.
- (c) (i) during Curing, the Immature Compost shall be turned at least once per month, or more frequently as required to maintain aerobic conditions;
  - (ii) in circumstances where it is not feasible to turn the Curing windrows as required in this Approval (ie during the extreme weather conditions or cold causing frozen material) and the turning frequency is decreased, the minimum curing durations shall account for the time periods during which the biological activity becomes dormant or turning is not feasible and the minimum Curing duration period shall be as long as it takes to turn the Curing windrow once for each month of the required Curing, with at least one (1) month between turns;
- (d) during the first six (6) months of the Immature Compost Curing, the temperature of the Curing windrows shall be measured and recorded at least weekly.

### (4) COMPOSTING & CURING MOISTURE REQUIREMENTS

- (a) moisture levels in the windrows during the Composting and during the Curing shall be maintained between 40 and 55%;
- (b) only clean water shall be used to irrigate the Composting and Curing windrows and for windrows dust control purposes as proposed in Item #12 included in the attached Schedule "A";

## (5) WINDROWS MANAGEMENT

- (a) Composting and Curing windrows shall be arranged in a manner which permits equipment access to the processing and storage areas for efficient turning of the windrows and to allow access for emergency vehicles;
- (b) turning of the Curing windrows shall only take place during favourable wind conditions to minimize potential off-site odour impacts;

#### (6) PROCESS PROGRESSION TRACKING

- (a) all sections of the Composting windrow constructed during the same time period shall be marked by a sign or label that shall be clearly visible for the purpose of tracking the active Composting / Curing process, inspection and record keeping.
- The Owner shall characterize the incoming Leaf and Yard Waste in accordance with the feedstock characterization requirements set out in Part IV of the Standards Document.
- 61.8 Prior to being used as Compost at the Site, the Untested Compost shall be monitored for quality as follows:
  - (a) composite samples shall be collected in accordance with the methodology and frequency stated in Part IV of the Standards Document;
  - (b) samples shall be analyzed for criteria listed in Table 3.1 and Table 3.3 of the Standards Document; and
  - (c) all production records shall be reviewed to ensure temperature and residency time requirements for pathogen inactivation and Compost maturity have been meet.
- 61.9 (a) Compost that meets the Category A Compost Quality Standards may be used at the Site as a soil supplement.
  - (b) Before any off-Site use of the Category A Compost produced at the Site, the Owner shall notify the District Manager a minimum of fifteen (15) days prior to the proposed use.

- (c) Before any Category A Compost produced at the Site is sold or distributed for an off-Site use, the Owner shall demonstrate compliance with the labelling requirements of the Category A Compost Quality Standards.
- (d) The processed Leaf and Yard Waste that is assumed to satisfy the Category A Compost Quality Standards and which does not exceed the maximum concentrations for metals as set out in Table 3.1 of the Standards Document and which complies with the foreign matter quality requirements, the pathogen reduction requirements and the pasteurization temperature and residency time requirements but not with the maturity requirements set out in the Standards Document is considered to be an Immature Compost and shall:
  - (i) continue to undergo curing at the Site;
  - (ii) be landfilled at the Site within the approved footprint area if the processed Leaf and Yard Waste quality is in compliance with the landfilling requirements of the Approval; or
  - (iii) be transferred off-Site as a waste and be disposed of or be further processed at a waste disposal site approved by the Ministry, or its equivalent if in jurisdictions outside of Ontario, to accept such waste.
- (e) The processed Leaf and Yard Waste that is assumed to satisfy the Category A Compost Quality Standards and which does not exceed the maximum concentrations for metals as set out in Table 3.1 of the Standards Document and which complies with the foreign matter quality requirements, the maturity requirements but not with the pathogen reduction requirements and/or the pasteurization temperature and residency time requirements set out in the Standards Document is considered to be a waste and shall:
  - (i) be returned to the Composting process for pasteurization as set out in this Approval;
  - (ii) be landfilled at the Site within the approved footprint area if the processed Leaf and Yard Waste quality is in compliance with the requirements of the Approval; or
  - (iii) be transferred off-Site as a waste and be disposed of or further processed at a waste disposal site approved by the Ministry, or its equivalent if in jurisdictions outside of Ontario, to accept such waste.
- (f) If the processed Leaf and Yard Waste that is assumed to satisfy the Category A Compost Quality Standards exceeds the maximum concentrations for metals in Compost, as set out in Table 3.1 of the Standards Document, but meets the maximum concentrations for metals in the feedstock listed in Table 3.2 of the Standards Document, it shall
  - (i) be landfilled at the Site within the approved footprint area if the processed Leaf and Yard Waste quality is in compliance with the requirements of the Approval; or
  - (ii) be transferred off-Site as a waste and be disposed of or further processed at a waste disposal site approved by the Ministry, or its equivalent if in jurisdictions outside of Ontario, to accept such waste.

#### RECORDS KEEPING

61.10 The Owner shall maintain the following records as relevant to the operation of the Composting Facility:

#### (1) Daily Activities

- (a) The Owner shall maintain a written or digital record of activities undertaken at the Composting Facility. All measurements shall be recorded in consistent metric units of measurement. The record shall include, as a minimum, the following information:
  - (i) date, quantity, source and type of the Organic Waste (including any analytical data), received at the Site;
  - (ii) date, quantity, type and the destination of Compost, used at the Site;
  - (iii) date, quantity, type and the destination of the total Residual Waste, landfilled at the Site or transferred from the Site for final disposal;
  - (iv) date, quantity, type and the destination of the Rejected Waste landfilled at the Site or transferred off-Site;
  - (v) waste processing activities undertaken at the Site, including windrow construction, irrigation and turning activities;
  - (vi) monitoring and sampling activities; and
  - (v) housecleaning activities.

## (2) Sampling & Testing Records

- (a) The Owner shall establish and maintain a written or digital record of all sampling and testing activities at the Composting Facility. This record shall include, as a minimum, the following information:
  - (i) waste sampled, sample collection locations and volume collected;
  - (ii) day and time of collection;
  - (iii) sample handling procedures;
  - (iv) name of the person undertaking the sampling;
  - (v) parameters tested for and the results;
  - (vi) name of the laboratory facility conducting the testing, if applicable;
  - (vii) conclusions drawn with respect to the results of the monitoring and testing.

#### (3) Monitoring Records

- (a) The Owner shall establish and maintain a written or digital record of all monitoring activities at the Composting Facility as required by this Approval. This record shall include, as a minimum, the following information:
  - (i) temperature in the Leaf and Yard Waste Composting and Curing windrows; and
  - (ii) moisture level in the Leaf and Yard Waste Composting and Curing windrows.

## IV. The following documents are are added to Schedule "A":

- 10. Environmental Compliance Approval Application dated February 7, 2014, signed by Richard Perchuk, The Corporation of the City of Kenora.
- 11. Letter dated April 28, 2014, from Mukesh Pokharel, The Corporation of the City of Kenora, to Sara Sideris, Ontario Ministry of the Environment and Climate Change, including an attachment entitled "Kenora Area Landfill Design and Operations Report" prepared by the City of Kenora and dated 2014.
- 12. Letter dated October 29, 2014, from Mukesh Pokharel, The Corporation of the City of Kenora, to Margaret Wojcik, Ontario Ministry of the Environment and Climate Change, providing additional information on the composting process parameters, the design of the composting facility and the proposed location of the composting facility on the site plan.
- 13. Letter dated March 6, 2015, from Mukesh Pokharel, The Corporation of the City of Kenora, to Margaret Wojcik, Ontario Ministry of the Environment and Climate Change, providing additional information on the proposal.

## VII. The following reasons are added:

Conditions 61.1 through 61.10 are included is to ensure the Composting Facility is constructed and operated in accordance with the Owner's application, supporting documentation and the requirements of the Standards Document.

The reason for this amendment to the Approval is as follows:

to approve composting of the leaf and yard waste at the Site and the use of the Compost as a soil supplement at the Site.

This Notice shall constitute part of the approval issued under Approval No. A612018 dated January 15, 2014, as amended.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

- 1. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
- 2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

- 3. The name of the appellant;
- 4. The address of the appellant;
- 5. The environmental compliance approval number;
- 6. The date of the environmental compliance approval;
- 7. The name of the Director, and;
- 8. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary\*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Director appointed for the purposes of Part II.1 of the Environmental Protection Act Ministry of the Environment and Climate Change 135 St. Clair Avenue West, 1st Floor Toronto, Ontario M4V IP5

\* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 314-3717 or www.ert.gov.on.ca

The above noted activity is approved under s.20.3 of Part 11.1 of the Environmental Protection Act.

DATED AT TORONTO this 11th day of September, 2015

Dale Gable, P.Eng.

Director

appointed for the purposes of Part II.1 of the Environmental Protection Act

ale I. Gobbe

MW/

c: Area Manager, MOECC Kenora

c: District Manager, MOECC Thunder Bay - District
Mukesh Pokharel / Richard Perchuk, The Corporation of the City of Kenora



### AMENDMENT TO ENVIRONMENTAL COMPLIANCE APPROVAL

**NUMBER A612018** 

Notice No. 3 Issue Date: May 13, 2013

The Corporation of the City of Kenora 60 Fourteenth St N Kenora, Ontario

P9N 4M9

Site Location: Kenora Area Waste Disposal Site

Lot Part 1, 2, Concession 1, 2

Pettypicce Unorganized Township, District of Kenora

You are hereby notified that I have amended Approval No. A612018 issued on November 5, 1999 and subsequently amended on September 19, 2003 and July 25, 2011 for use and operation of a 13.1 hectare landfilling area within a total site area of 108.1 hectare, as follows:

In accordance with the Environmental Compliance Approval Application dated December 3, 2012, and the supporting documentation, Condition 52 or Notice dated July 25, 2011 is hereby changed to read:

- 52. (1) Effective immediately and commencing on *June 30, 2015*, the Owner shall prepare and submit a Monitoring Report to the District Manager once every three years which shall include the following: .
  - a. A summary of total annual quantities of waste received on a monthly basis at the Site;
  - b. A drawing(s) of the *Landfill* indicating all groundwater, surface water, sediment, biological, landfill gas and geotechnical monitoring locations;
  - Tables outlining monitoring locations, analytical parameters sampled, and frequency of sampling and measurements;
  - d. An analysis and interpretation of the surface water, sediment, biological, groundwater, leachate, landfill gas and geotechnical monitoring data; a review of the adequacy of the monitoring programmes; conclusions of the monitoring data; and recommendations for any changes in monitoring programmes that may be necessary;
  - e. An assessment of surface water quality with respect to the PWQO Guidelines and trigger concentrations mentioned in Schedule "C";

- f. As assessment of groundwater quality in relation to the RUP and ODWO;
- g. An assessment of groundwater table elevations in relation to trigger elevations mentioned in Schedule "F";
- h. An assessment of geotechnical conditions near the east face of the Landfill;
- i. An assessment of the performance of the Contaminant Attenuation Zone;
- j. An update of changes in operations, sequencing, equipment, or procedures made or produced at the *Landfill*, and any operating difficulties encountered;
- k. Drawings showing areas of fill, buffer areas, current Landfill contours, final Landfill contours, any recommended changes to the final contours, percentage of available space utilized, and an estimate of the remaining disposal capacity and *Landfill* site life;
- 1. A summary discussion of *Landfill* site daily and intermediate cover requirements and erosion protection;
- m. A statement as to compliance with all Conditions and with the inspection and reporting requirements of the Conditions;
- n. A summary of any complaints made regarding *Landfill* operation and the *Owner* 's response and action taken;
- o. An annual waste diversion statement that includes an updated summary of per capita waste diversion activities and quantity of waste diverted using 1987 as the base year;
- p. Recommendations respecting any proposed changes in the operation of the Landfill; and
- q. Any report of the LLC to the Owner.

The reason for this amendment to the Approval is to reduce the reporting frequency as requested by the Owner and supported by the Ministry of the Environment, Northern Region, Technical Support Section.

This Notice shall constitute part of the approval issued under Approval No. A612018 dated November 5, 1999 and subsequent amendments.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

1. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;

2. The grounds on which you intend to rely at the hearing in relation to each portion appealed

Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

- 3. The name of the appellant;
- 4. The address of the appellant;
- The environmental compliance approval number,
- The date of the environmental compliance approval;
- 7. The name of the Director, and;
- 8. The municipality or municipalities within which the project is to be engaged in

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary\*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Director appointed for the purposes of Part II.1 of the Environmental Protection Act Ministry of the Environment 2 St. Clair Avenue West, Floor 12A Toronto, Ontario M4V 1L5

\* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 314-3717 or www.ert.gov.on.ca

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 13th day of May, 2013

Dale Gable, P.Eng.

Director

appointed for the purposes of Part II.1 of the Environmental Protection Act

NP/

e: Area Manager, MOE Kenora Area Office

 District Manager, MOE Thunder Bay - District Mukesh Pokharel, The Corporation of the City of Kenora Ministry of the Environment 808 Robertson Street, 2nd Floor KENORA, ON PSN 1X9 Ministère de l'Environnement 808 rue Robertson 2º étage KENORA ON P9N 1X9



Kenora Area Office

April 24, 2013

Mr. M. Pokharel Environmental Supervisor City of Kenora 60 Fourteenth Street North Kenora, Ontario P9N 4M9

Dear Mr. Pokharel:

### Re: Request to Change Monitoring at Kenora Area Waste Disposal Site (A612018)

This letter is in response to the Kenora Area Landfill Monitoring Program Assessment, dated January 2013, in which you request changes to the sampling requirements contained in Certificate of Approval A612018. The assessment has been reviewed by the Ministry of the Environment Northern Region Technical Support Section and staff of the Kenora Area Office. The assessment was submitted as required by condition 55 of Notice No. 2 of Certificate of Approval A612018 in order to receive District Manager agreement for changes to the monitoring program.

I agree with the following changes:

#### Schedule "D" Sediment Monitoring Program

Collect samples consisting of the upper three to four centimetres of sediment once every ten years with the next sample occurring during the 2021 field season.

During the ten year sampling collect at least five replicate samples at each location in order that a statistical comparison can be made against the existing data set.

Remove oil, grease and ammonium from the parameter list in section 2.3 of Schedule "D" of Certificate of Approval A612018.

If annual surface water samples in Morgan Lake or Crystal Bay show a significant increase in metal concentrations then the sediment sampling should be repeated in 2016 and thereafter every five years.

#### Schedule "F" Groundwater Monitoring Program

The following monitors are to be sampled in May and August of each year: 11/4, 2/9, 1/17, 2/13, 3/8, 5/17, 6/5, 16/15, 17/15, 19/16, 23/3, 24/5 and KGS-2.

Damaged monitoring well 4/6 must be decommissioned and replaced so that it can be included in the 2015 sampling year. Once the well is replaced it is to be sampled in May and August of each year.

The parameter list in section 2.3 of Schedule "F" of Certificate of Approval A612018 remains unchanged with the exception that volatile organics only need to be analyzed in samples collected from monitoring well 2/9.

The following monitoring wells can be removed from the sampling program: 10/17, 12/4, 6/14, 7/4, 8/22, 9/6, 21/7, 13/6, 13/14, 14/6, 14/21, 15/5 and 15/17. These wells are to be maintained for future use.

Groundwater elevation measurements should be collected from the following monitors in the saddle area: 13/6, 13/14, 14/6, 14/21, 15/5 and 15/17. If the groundwater flow direction across the saddle or groundwater quality at monitor 3/8 changes significantly then groundwater sampling and analysis as these monitors will need to resume.

The following groundwater monitors are to be decommissioned in accordance with Ontario Regulation 903 (Wells): 4/6, 4/18, 20/4, 18/6, 19/6 and 22/5.

Note that all other requirements of Certificate of Approval A612018 remain in effect.

Please note that for this change to be finalized you must forward a copy of this correspondence to the Director at Environmental Approvals Access and Service Integration Branch requesting that the certificate be amended to reflect the proposed changes. See condition 55 of Notice No. 2 to Certificate of Approval A612018.

Please contact Senior Environmental Officer Ray Boivin at 807-468-2728 if you would like to discuss the contents of this letter or the requirements of Ontario's environmental legislation

Yours truly,

Trina Rawn

Thunder Bay/Kenora District

/RB

c. Rick Perchuk, Operations Manager, City of Kenora

b.c. Kenora File DK PT JO 250 A612018



PROVISIONAL CERTIFICATE OF APPROVAL FOR A WASTE DISPOSAL SITE NO. A 612018 Page 1 of 38

Under the Environmental Protection Act and the regulations and subject to the limitations thereof, this Provisional Certificate of Approval is issued to:

City of Kenora 1 Main Street South Kenora, Ontario P9N 3X2

for the use and operation of a 13.1 hectare landfilling area within a total site area of 108.1 hectares

all in accordance with the following plans and specifications:

as listed in Schedule "A"

Located: Parts of Lots 1 and 2, Concession I, and Parts of Lots 1 and 2, Concession II, Townships of Pettypiece and Jackman, District of Kenora

which includes the use of the site only for the disposal of the following categories of waste (Note: Use of the site or additional categories of wastes requires a new application and amendments to the Provisional Certificate of Approval) domestic, commercial, non-hazardous solid industrial and institutional, processed organic sewage sludge, sludge from future municipal or provincial fresh water treatment facilities, non-pathological agricultural and biomedical, and grit and screenings from street cleaning and sediment basin clean-outs.

This Certificate of Approval Revokes and Replaces Certificate of Approval No. A 612016, dated November 5, 1999.

and subject to the following conditions:

### **DEFINITION OF TERMS**

- 1. In this Provisional Certificate of Approval:
  - a) "City" means the City of Kenora;
  - b) "Director" means a Director of the Environmental Assessment and Approvals Branch, Ministry of the Environment;
  - c) "Regional Director" means the Director, Ministry of the Environment, Northern Region;
  - d) "District Manager" means the Kenora District Manager, Ministry of the Environment, Northern Region;



PROVISIONAL CERTIFICATE OF APPROVAL FOR A WASTE DISPOSAL SITE NO. A 612018 Page 2 of 38

- e) "Landfill" means Parts of Lots 1 and 2, Concession 1, and Parts of Lots 1 and 2, Concession II, Townships of Pettypiece and Jackman, District of Kenora;
- f) "MOE" means the Ministry of the Environment;
- g) "ODWO" means the Ontario Drinking Water Objectives:
- h) "O & M Manual" means the Operations and Maintenance Manual;
- i) "PWQO" means the Provincial Water Quality Objectives;
- j) "RUP" means the MOE's Reasonable Use Policy (Guideline B-7, formerly 15-08);
- k) "This Certificate" means this Provisional Certificate of Approval as amended from time to time, including all Schedules attached to and forming part of this Certificate; and
- LLC means the Landfill Liaison Committee.

## GENERAL

- 2. The City shall establish a Board of Management in conjunction with the Town of Keewatin and the Town of Jaffray Melick who will act as its designated authority to oversee the development, operation, maintaining and monitoring of the Landfill.
  - The City shall be bound by the conditions of this Certificate. The conditions of this Certificate shall extend to and bind any successor or subsequent owner of the Landfill, which may be created through future restructuring.
- 3. No operation shall be carried out at the Landfill after 180 days from this condition becoming enforceable unless this Certificate has been registered by the City as an instrument in the appropriate Land Registry Office against title to the Landfill and a duplicate registered copy provided to the Director.
  - No operation shall be carried out at the Landfill after 180 days from this condition becoming enforceable unless the land control maps at the Ministry of Natural Resources and the Ministry of Northern Development and Mines (MNDM) show this Crown Site (the 108.1 ha site area identified in page 1) designated for sale and patent and the Ministry of Natural Resources (MNR) has issued an Interim Land Use Permit. Within 60 days of registration of the patent, this Certificate must be registered by the City as an instrument in the appropriate Land Registry Office against title to the Landfill and a duplicate registered copy provided to the Director.
- 4. Requirements specified in this Certificate are minimum requirements and do not abrogate the need to take all reasonable steps to avoid violating the provisions of other applicable legislation, regulations, approvals, orders, etc.



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- 5. The requirements of this Certificate are severable. If any requirements of this Certificate to any circumstance is held invalid, the application of such requirement to other circumstance and the remainder of this Certificate shall not be affected thereby.
- 6. Despite any other term or condition in this Certificate, waste disposal shall be limited to:
  - (i) the 13.1 ha landfilling area as shown on Fig. FW.2, Item 1 of Schedule "A", and
  - (ii) the approved final contours as shown on Drawing S1-2, Item 1 of Schedule "A".
- 7. The City shall allow MOE personnel, or an MOE authorized representative(s), upon presentation of credentials, to:
  - a) carry out any and all inspections authorized by the <u>Environmental Protection Act</u>, the <u>Ontario Water Resources Act</u> or the <u>Pesticides Act</u>, as amended from time to time, of any place to which this Certificate relates, and

without restricting the generality of the foregoing, to:

- b) i) enter upon the premises or the location where the records required by the conditions of this Certificate are kept:
  - ii) have access to and copy, at any reasonable time, any records required by the conditions of this Certificate;
  - iii) inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations required by the conditions of this Certificate, and
  - iv) sample and monitor, at reasonable times, for the purposes of assuring compliance with the conditions of this Certificate.
- 8. Schedules A, B, C, D, E, F, G and H are integral parts of these conditions.

# LANDFILL OPERATIONS

#### General

9. The Landfill shall be developed, operated and maintained by the City in accordance with all of the plans and documents listed in Schedule "A". Should there be discrepancies between the documents listed in Schedule "A" and the conditions in this Certificate, the conditions shall take precedence. Should there be discrepancies between the documents listed in Schedule "A", the document bearing the most recent date shall take precedence.



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- 10. a) The City shall operate the Landfill in accordance with an O & M Manual. The O & M Manual shall be prepared and submitted to the Regional Director and the LLC within 180 days of the date of issuance of this Certificate and shall cover the following issues:
  - day-to-day operations and staff responsibilities;
  - surface water management;
  - equipment maintenance and inspection;
  - stockpile management and use of daily and intermediate cover material;
  - condition of applied cover and vegetation;
  - odour, dust and litter control measures;
  - traffic control measures;
  - bird, bear, rodent and insect control measures;
  - fire prevention measures;
  - waste management control and record keeping procedures to ensure that only approved waste enters the site;
  - operating instructions for management of any waste suspected to be hazardous which enters the site; and
  - geotechnical and environmental monitoring procedures and protocols.
  - b) The O & M Manual shall also identify specific construction activities designed to minimize slope and bearing failures.
  - c) The O & M Manual may be revised based upon considerations or recommendations made to the Board of Management. These revisions shall be based upon information contained within the Annual Monitoring report mentioned in Condition 52, and directives contained within MOE regulations, policies and guidelines.
- 11. Scavenging of waste at the Landfill is prohibited.

# Construction Activity

12. a) Heavy Equipment Usage

Heavy equipment shall not be used on the peat or, initially, on the waste over the bog unless the peat is sufficiently frozen to support the weight of this equipment.

b) Damage to Root Mat

Care shall be taken during construction to minimize damage to the root mat over the bog area. Areas where the mat is badly damaged shall be treated on a case-by-case basis.

13. Side Slopes



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All temporary side slopes (i.e. prior to achieving final design grades) for the fill over the bog shall be held at 6H (horizontal):1V (vertical) (or less). The permanent side slopes for the finished portion of the Landfill shall be restricted to 6H:1V for the east face, but may be up to 4H:1V elsewhere unless otherwise specified by the geotechnical engineer.

## 14. Site Supervision

The City shall ensure that the Site Supervisor has been adequately trained with respect to the following, without limitation:

- i) conditions and schedules of this Certificate;
- ii) the operation and management of the Landfill;
- iii) relevant waste management regulations and legislation;
- iv) environmental concerns related to the waste being handled at the Landfill;
- v) occupational health and safety concerns pertaining to the waste being handled at the Landfill; and
- vi) the placement of fill on the bog area in accordance with advice and/or specific instructions provided by a qualified geotechnical engineer.

# Site Security & Operating Hours

- 15. The waste disposal operating hours of the Landfill shall be between 8:30 a.m. to 5:30 p.m., Monday to Saturday. The Landfill is closed on Sundays and statutory holidays.
- 16. The City shall not allow waste to be received for disposal at the Landfill except during operating hours when the Landfill is under the supervision of the Landfill attendants.
- 17. During non-operating hours, the Landfill entrance gate shall be locked by the City to secure against access by unauthorized persons.
- 18. In the event of a requirement to respond to emergency situations, waste may be received for disposal at the Landfill outside of the normal operating hours specified in Condition 15 above, under the supervision of the Landfill attendants and subject to the approval of the District Manager.

## Site Entry Requirements

- 19. The City shall not allow the following wastes to be disposed of at the Landfill:
  - hazardous wastes as defined under Regulation 347;
  - industrial liquid or slurry wastes;
  - hazardous biomedical wastes; and



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- barrels, drums or other similar containers which have been contaminated by hazardous substances.
- 20. The City shall use the weigh scale to be installed at the central public drop-off depot to monitor and record all incoming wastes. Such a depot shall be established in a central location in the Tri-Municipal Area. If this off-site scale malfunctions, alternative methods for weight determinations shall be implemented as soon as possible but not later than in 3 days. These could include the use of alternate weigh scales, estimation of load weights from historical records for specific haulers, or waste generation areas.
- 21. The City shall ensure that all vehicles entering the Landfill shall be identified by a licence number on the weigh scale billing notice.

## Waste Cover Requirements

- 22. The City shall ensure that waste is deposited in a manner that minimizes the area of exposed waste at the Landfill working face and shall be compacted before cover material is applied.
- 23. The City shall ensure that from May 15 till September 15 at the end of each working day, and within two hours of the entrance gate closure, cover material is applied to all exposed waste material. Cover material shall be applied on a weekly basis during the rest of the year. The average depth of this material when soil is used shall be 15 cm.
- 24. Alternative MOE approved materials such as tarps, foams or processed sewage sludge can be used for daily cover subject to the Regional Director's approval.
- 25. The City shall provide a contingency supply of cover material equal to two working days worth to ensure that adequate cover is always available for application pursuant to Condition 23.
- 26. The City shall ensure that in areas where landfilling is not to be carried out for the period of 90 days or more, at least 20 cm of compacted clean earth cover will be applied over the wastes. If necessary, these areas may be hydroseeded during the earliest spring or fall planting season to stabilize the surface against erosion.
- 27. The City shall ensure that in areas where landfilling has been completed to the approved final contours, a minimum 750 mm thickness of clean earth cover will be placed over the compacted wastes. The lower 600 mm will consist of previously excavated and compacted tills, and the top 150 mm will consist of locally derived topsoil mixed with peat. These areas shall be hydroseeded during the earliest spring or fall planting season to provide protection against erosion.

#### **Base Contours**

- 28. The City shall ensure that extent of excavation shall be limited to base grades shown on Drawing S1-3 of Item 1. Schedule "A".
- 29. The City shall ensure that no excavation shall occur for those portions of the landfilling area situated over



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the bog.

#### Waste Burning

- 30. The City shall ensure that there is no burning of waste at the Landfill.
- 31. The City shall ensure that site operations shall incorporate the fire prevention measures identified in Item 1 of Schedule "A".

## Bears, Birds, Rodents and Insect Control

32. Bears, birds, rodents and insect control shall be undertaken by the City in accordance with procedures outlined in Item 1, Schedule "A".

#### Litter Control

- The City shall implement all necessary measures to prevent off-site litter impact from landfilling operations. These measures shall include but not be limited to the following:
  - the use and maintenance of suitable portable netting and snow fencing;
  - weekly site litter inspections and clean-up; and
  - daily inspection and no less than weekly litter pick up on Highway 671 in the vicinity of the Landfill;
- 34. The City shall ensure that no disposal of waste occurs if weather conditions make it difficult to prevent litter from leaving the Landfill.

#### **Dust Control**

- 35. In order to keep mud and dust from the Landfill to a minimum, the City shall implement a dust control program. This program shall include, but not be limited to the following measures:
  - during dry periods when there are visible dust emissions, regular wetting of soil cover material prior to its spreading by bulldozers over the working face;
  - during dry periods wetting of the unpaved roads and the use of dust suppressants;
  - installation of speed bumps near the site entrance;
  - reducing on-site vehicle speeds by posting a maximum speed limit of 30 km/h;
  - paving the site entrance area;
  - construction of the on-site crushed stone or gravel roads;



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- covering of dust laden waste material as soon as possible; and
- minimizing wind erosion by stabilizing inactive areas using vegetation.

#### Noise Control

36. Noise from or related to the operation of the Landfill shall be kept to a minimum and, in any event, the City shall comply with the noise level limits outlined in the MOE's February 1997 "Noise Guidelines for Landfill Sites" as contained in Schedule "B".

#### Traffic Control

- 37. The City shall ensure that sufficient queueing space is available on-site to accommodate the peak traffic volumes anticipated.
- During the first year of operation the City shall monitor site related and non-site related traffic levels to assess the potential need for Highway 671 improvements at the site entrance.

#### Site Maintenance

- 39. The City shall conduct regular site inspection(s) to ensure that all facilities and site works are maintained in a tidy condition and good working order. Such inspections will check for:
  - damage to perimeter fences and the maintenance of litter fences;
  - interior access road damage;
  - blowing litter and other nuisance concerns;
  - leachate springs or breakouts:
  - ponded water and blocked surface drainage works;
  - · slope failure/erosion and final cover settlement; and
  - the condition of vegetation.

Any necessary repair/remedial works will be performed at the earliest possible opportunity.

# LANDFILL CONTAMINANT ATTENUATION ZONE

40. Within 180 days of the issuance of this Certificate the City shall establish the proposed contaminant attenuation zone shown on Fig. FW- 2 of Item 1, Schedule "A". This will be established through an MNR Land Use Permit and an MOE Certificate of Prohibition.

## SURFACE WATER MANAGEMENT SYSTEM



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- 41. Site grading and contours shall be maintained by the City such that all surface water run-off from the landfilling area is directed into the perimeter surface water management system.
- 42. Within the first year of operation following the date of this Certificate being issued, the perimeter surface water management system consisting of swales, ditches, retention basins and the controlled outlet facilities shall be completed by the City. It shall be operated and maintained by the City in accordance with the procedures outlined in Item 1, Schedule "A".

The perimeter ditching, external run-off channels, and northern storm water retention basin shall be completed in accordance with the sequence of landfilling shown on Figure S1-5.1, Item 1 of Schedule "A".

## SURFACE WATER MONITORING

43. Surface water monitoring shall be undertaken by the City in accordance with Schedule "C".

## SEDIMENT MONITORING

44. Sediment monitoring shall be undertaken by the City in accordance with Schedule "D".

## BIOLOGICAL MONITORING

45. Biological monitoring shall be undertaken by the City in accordance with Schedule "E".

## GROUNDWATER MONITORING

46. Groundwater monitoring shall be undertaken by the City in accordance with Schedule "F".

# LANDFILL GAS MONITORING

47. Landfill gas monitoring shall be undertaken by the City in accordance with Schedule "G".

# GEOTECHNICAL MONITORING

48. Geotechnical monitoring shall be undertaken by the City in accordance with Schedule "H".

# PUBLIC CONSULTATION

Landfill Liaison Committee (LLC)



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- 49. The LLC shall be established based upon the conditions generally described in Appendix S7-A of Item 1, Schedule "A" and identified below:
  - a) The LLC should be established to monitor Landfill operations for the life of the site, ensuring the fulfilment of conditions outlined in this Certificate;
  - b) Terms of Reference for the LLC should be established by the Board of Management, referred to in Condition 2;
  - c) The LLC will also act as a Dispute Resolution Committee. Individuals wishing to express concern regarding the operation, safety or security of the Landfill may make deputations to the LLC, who upon deliberation, will make recommendations to the Board of Management of the problem; and
  - d) The LLC, in monitoring operational practices of the Landfill will make recommendations to the Board of Management for mitigation of impacts from the Landfill to the environment.

## PUBLIC INVOLVEMENT/COMPLAINTS

- 50. The City shall establish the public complaints procedure upon issuance of this Certificate that shall include:
  - a) designating specific City staff to receive any complaints and , as soon as possible, to respond in writing indicating the proposed action to be undertaken:
  - b) posting the Landfill complaints telephone number at the Landfill entrance and providing a written notice explaining the complaints procedure to surrounding landowners located within approximately one kilometre of the Landfill;
  - c) keeping an accurate record of the following Landfill related complaints information:
    - the name and address of the complainant,
    - the date and time,
    - the nature of the complaint.
    - details of the City's response to the complainant and actions taken; and
  - d) providing copies of complaint records to the LLC and receiving any proposed recommendations of the LLC;
  - e) summarizing all complaints concerning the Landfill and the City responses/actions in the Annual report mentioned in Condition 52; and
  - f) both the O&M Manual, as identified under Condition 10, and the Annual reports will be made available for review by the LLC as a basis for considering issues pertinent to the Landfill's operation.



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51. The City in consultation with the Board of Management, the LLC and the District Manager, shall review the effectiveness of the public complaints procedure after two years of its commencement and may make revisions to the procedure, if required.

#### ANNUAL REPORT

- 52. The City shall prepare and submit an Annual report to the Regional Director by June 30<sup>th</sup> of the year following the calendar year covered by the report which shall include as a minimum, the following:
  - a) a summary of total annual quantities of waste received on a monthly basis at the site;
  - Jb) a drawing(s) of the Landfill indicating all groundwater, surface water, sediment, biological, gas, and geotechnical monitoring locations;
  - √c) tables outlining monitoring locations, analytical parameters sampled, and frequency of sampling and measurements;
  - an analysis and interpretation of the surface water, sediment, biological, groundwater, leachate, gas and geotechnical monitoring data; a review of the adequacy of the monitoring programmes; conclusions of the monitoring data; and recommendations for any changes in monitoring programmes that may be necessary;
  - an assessment of surface water quality with respect to the PWQO Guidelines and trigger concentrations mentioned in Schedule "C";
  - $\sqrt{f}$ ) an assessment of groundwater quality in relation to the RUP and ODWO;
  - g) an assessment of groundwater table elevations in relation to trigger elevations mentioned in Schedule "F";
  - h) an assessment of geotechnical conditions near the east face of the Landfill;
  - $\sqrt{i}$ ) an assessment of the performance of the Contaminant Attenuation Zone:
    - j) an update of changes in operations, sequencing, equipment, or procedures made or produced at the Landfill, and any operating difficulties encountered;
    - k) drawings showing areas of fill, buffer areas, current Landfill contours, final Landfill contours, any recommended changes to the final contours, percentage of available space utilized, and an estimate of the remaining disposal capacity and Landfill site life;
    - a summary discussion of Landfill site daily and intermediate cover requirements and erosion protection;



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a statement as to compliance with all Conditions and with the inspection and reporting requirements of the Conditions;
 a summary of any complaints made regarding Landfill operation and the City's response and action taken;
 an annual waste diversion statement that includes an updated summary of per capita waste diversion activities and quantity of waste diverted using 1987 as the base year;
 recommendations respecting any proposed changes in the operation of the Landfill; and
 any report of the LLC to the City.

## CLOSURE PLAN

- One year before the Landfill is expected to stop receiving waste, as determined according to Condition 6, the City shall develop and submit an updated Closure Plan. The Closure Plan shall be submitted for the Director's approval and outline post-closure maintenance and monitoring. The plan shall include, but not be limited to the following:
  - a) changes to the final contour plan that may have been previously identified in the annual reports or recommended in the development of the detailed Closure Plan:
  - b) fencing and access control:
  - c) details of any additional vegetative plantings planned;
  - d) the sequence and schedule for completion of final cover installation;
  - e) post-closure and end-use plans;
  - f) plans and schedules for the management and continued monitoring of surface water, groundwater, leachate and landfill gas;
  - g) plans and schedules for the routine monitoring and maintenance of the final cover, swales, ditches, retention basins and the controlled outlet facilities;
- 54. The final cover over the entire area which was landfilled shall be completed by the City within one full construction season following the date after the Landfill has stopped receiving waste. Formal notice shall be provided by the City to the Director upon receipt of the final load of waste to the Landfill.



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#### SCHEDULE "A"

This Schedule "A" forms part of Provisional Certificate of Approval No. A 612018 and contains documentation submitted in support to an application for the establishment and use of the Landfill.

- 1. Kenora Area Waste Management Master Plan EPA Document prepared by Fenco MacLaren and dated February, 1997.
- 2. Letter dated April 10, 1997 Fenco MacLaren (L. Torrens) to Ministry of Environment and Energy (E. Zaltsberg) Subject: Application for a Certificate of Approval for a Waste Disposal Site.
- 3. Letter dated July 2, 1997 Fenco MacLaren (T. Taylor) to Ministry of Environment and Energy (J. Barr) Subject: Former Jones Road Waste Disposal Site.
- 4. Letter dated August 14, 1997 Fenco MacLaren (L. Torrens) to Ministry of Environment and Energy (E. Zaltsberg) Subject: Geotechnical Monitoring: Kenora Area WMMP EPA Studies Document
- 5. Kenora Area Waste Management Master Plan, October 1997 Photo supplements to EPA Studies Document prepared by Fenco MacLaren and dated February, 1997, and September, 1999.
- Kenora Area Waste Management Master Plan EA Conditions of Approval Document prepared by SNC-Lavalin Engineers & Constructors Ltd. and dated January, 1999.
- 7. Figure \$1-6.1 as amended September, 1999 Proposed Monitoring Locations prepared by SNC-Lavalin Engineers & Constructors Ltd. and dated September 1999
- 8. Letter dated September 27, 1999 from Environment Canada (S. Michajluk) to the Ministry of the Environment (E. Zaltsberg), Subject: Kenora Area Waste Management Master Plan.



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### SCHEDULE "B"

This Schedule "B" forms part of Provisional Certificate of Approval No. A 612018. It contains the Ministry of the Environment's February 1997 "Noise Guidelines for Landfill Sites" referred to in condition 36.

## 1. SCOPE

This Publication establishes sound level limits for landfill operations affecting residential or other noise-sensitive areas. Three components of waste disposal operation are separately addressed in this guideline:

- the actual landfill site:
- · facilities for reception, storage and mixing; and
- off-site source vehicles.

### 2. REFERENCES

Reference is made to the following technical publications:

- (1) NPC-101 Technical Definitions
- (2) NPC-102 Instrumentation
- (3) NPC-103 Procedures
- (4) NPC-104 Sound Level Adjustments
- (5) NPC-205 Sound Level Limits for Stationary Sources in Class I & 2 Areas (urban)
- [6] NPC-206 Sound Levels due to Road Traffic
- [7] NPC-232 Sound Level Limits for Stationary Sources in Class 3 Areas (Rural)
- (8) NPC-233 Information to be Submitted for Approval of Stationary Sources of Sound
- (9) ORNAMENT, Ontario Road Noise Analysis Method for Environment and Transportation, Technical Document, Ontario Ministry of the Environment, ISBN 0-7729-6376 (1989).

References (1) to (4) can be found in the Model Municipal Noise Control By-Law, Ontario Ministry of Environment, Final Report, August 1978.



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## 3. TECHNICAL DEFINITIONS

"Ambient sound level"

means Background sound level;

"Background sound level"

is the sound level that is present in the environment, produced by noise sources other than the source under impact assessment. Highly intrusive short duration noise caused by sources such as an aircraft fly-over or a train pass-by is excluded from the determination of the background sound level;

"Construction Equipment"

means any equipment or device designed and intended for use in construction, or material handling including but not limited to, air compressors, pile drivers, pneumatic or hydraulic tools, bulldozers, tractors, excavators, trenchers, cranes, derricks, loaders, scrapers, pavers, generators, off-highway haulers or trucks, ditchers, compactors and rollers, pumps, concrete mixers, graders, or other material handling equipment;

"Conveyance"

includes a vehicle and any other device employed to transport a person or persons or goods from place to place but does not include any such device or vehicle if operated only within the premises of a person;

"Point of Reception"

means any point on the premises of a person where sound or vibration originating from other than those premises is received.

For the purpose of noise impact assessment of a proposed landfill operation, or an expansion to an existing landfill operation, the point of reception may be located within 30 m of a dwelling or a camping area on any of the following existing or zoned for future use premises: permanent or seasonal residences, hotel/motels, nursing/retirement homes, rental residence, hospitals, camp grounds, and noise sensitive buildings such as schools and places of worship.

Other technical terms used in this publication are defined in Reference [1].

# 4. MEASUREMENTS, STANDARDS AND PROCEDURES

For the purpose of this Publication, all measurements shall be made in accordance with References [2], [3] and [4].

# 5. SOUND LEVEL LIMITS



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## (1) Landfill Site

## (a) General Limits

The limits for sound levels due to the landfill site operation at a Point of Reception are 45dBA in any hour of the night, 7:00~PM - 7:00~AM, and 55 dBA in any hour of the day, 7:00~AM - 7:00~PM. These levels are expressed in terms of the One Hour Equivalent Sound Level ( $L_{eq}$ ).

The above limits are applicable under the following conditions:

- the existing ambient noise climate is assumed to be rural, i.e. the daytime and nighttime environmental noise level is normally below the stated limitation. Should the environment be dominated by noise sources of man-made activity, such as industry, commerce or road transportation, which produce sound in excess of the above limits, the higher sound levels may be used as the limit, provided that the noise sources are not under consideration for noise abatement by the Municipality or the Ministry of Environment and Energy.
- landfill site operation involves only "construction equipment" or "conveyances", as defined in Section 3. In this case the landfill site itself is not considered a stationary noise source, and will not be governed by the limitations set out in References [5] or [7].

# (b) Specific Limit - Impulsive Sounds

For impulsive sound from a pest control device employed in the operation of the landfill site, the sound level limit at a Point of Reception expressed in terms of the Logarithmic Mean Impulse Sound Level  $(L_{LM})$  is 70 dBAl.

# (2) Facilities for Reception, Storage and Mixing

A landfill site utilizing equipment that does not fall under the definition of "construction equipment" or "conveyance", as defined in Section 3 is considered a stationary noise source. The applicable sound level limits are those established for the assessment of stationary sources of sound given in References [5] and [7].

# 6. OFF-SITE SOURCE VEHICLES

For a landfill site employing off-site source vehicles which constitute a predominant component of the background noise, an access route shall be selected which will result in a minimum noise impact. The selection process shall be based on a detailed quantitative assessment of noise impact on individual receptors and the number of affected receptors along the alternative routes. The municipality and the affected residents must be clearly informed of any potential noise impact.



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### SCHEDULE "C"

This Schedule "C" forms part of Provisional Certificate of Approval No. A 612018. It describes the surface water monitoring program referred to in Condition 43.

### 1. OBJECTIVES

The objectives for the surface water monitoring program are:

- to evaluate background surface water quality;
- to evaluate the Landfill's impact on surface water quality downstream of the Landfill;
- to evaluate the efficiency of the proposed Contaminant Attenuation Zone;
- to monitor water quality at the downstream site/attenuation zone boundary and compare this quality with the MOE's PWQO; and
- to determine the need for a contingency implementation.

## 2. MONITORING PLAN

The surface water monitoring plan shall be carried out by the City to address the stated objectives and will include the following:

#### 2.1 Stations

The surface water stations to be monitored are shown on Fig. S.1-6.1, Item 7. Schedule "A" and listed below:

- existing stations SW-1 (Jones Road culvert) and SW-2 (Beaubien Loop Logging Road culvert); and
- proposed stations SW-3 (Lunch Lake subwatershed control), SW-4 (Crystal Bay) and SW-5 (Morgan Lake).

# 2.2 Sampling Frequency

- During the first two years of the Landfill's operation water samples shall be taken at all stations monthly from April through October;
- Starting from the third year of the Landfill's operation water samples shall be taken three times per
  year in May, August and October at stations SW-1, SW-2, SW-3 and SW-4; station SW-5 shall be
  sampled annually in August.



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 In addition, water samples shall be taken from any flowing spring or groundwater seepage identified within the saddle area during any sampling event.

## 2.3 Sample Analysis

During the first two years of operation the collected water samples shall be analyzed for the following lists of parameters:

- a) the comprehensive list of parameters at all stations in May, August and October;
- b) the indicator list of parameters at all stations in April, June, July and September;
- c) volatile organic compounds, EPA method 624 at SW-2 in August of the second year; and
- d) the indicator list of parameters at any flowing spring or groundwater seepage mentioned in 2.2.

Starting from the third year of operation, the collected water samples shall be analyzed for the following list of parameters:

- a) the comprehensive list of parameters at all stations in August and October:
- b) the indicator list of parameters at all stations in May;
- c) volatile organic compounds, EPA method 624 at SW-2 in August, once every two years; and
- d) the indicator list of parameters at any flowing spring or groundwater seepage mentioned in 2.2.

The comprehensive list includes the following parameters:

## <u>Inorganics</u>

Alkalinity, Ammonia, Arsenic, Barium, Boron, Cadmium, Chloride, Chromium, Conductivity, Copper, Iron, Lead, Mercury, Nitrate, Nitrite, Total Kjeldahl Nitrogen, pH, Total Phosphorus, Suspended Solids, Total Dissolved Solids, Sulphate, Zinc.

### **Organics**

Biochemical Oxygen Demand (BOD<sub>5</sub>), Chemical Oxygen Demand, Phenol.

## Field Parameters

Temperature, pH. Conductivity, Dissolved Oxygen.



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The indicator list includes the following parameters:

## Inorganics

Alkalinity, Ammonia, Chloride, Conductivity, Iron, Nitrate, Nitrite, Total Kjeldahl Nitrogen, pH, Total Phosphorus, Suspended Solids, Sulphate.

## Organics |

Biochemical Oxygen Demand (BOD<sub>5</sub>). Chemical Oxygen Demand, Phenol.

### Field Parameters

Temperature, pH, Conductivity, Dissolved Oxygen.

For all parameters with the established PWQO the minimum detection limits (MDL) used will be below the corresponding PWQO.

## 2.4 Flow Measurements

Stream flow measurements shall be performed at stations SW-2 and SW-3 three times per year, in April, August and October simultaneously with sampling events.

## DRAINAGE

# 3.1 Drainage Required

Since a build up of water on, behind or within the waste may result in the loss of stability and, potentially, slope failure, drainage shall be provided around the waste. Water shall not be permitted to "dam up" behind the waste or pond on the waste.

# 3.2 Inspection of Drainage

The drainage provided in the design shall be regularly inspected to ensure that it has not been blocked (e.g., by beavers or other causes). Any blockages shall be cleared immediately.

# 4. TRIGGER MECHANISM

Within two years of the issuance of this Certificate the City shall develop and submit for the Director's approval the comprehensive surface water trigger mechanism which shall include the following:

trigger location(s), trigger parameters, trigger concentrations, and re-sampling procedures.



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The comprehensive surface water trigger mechanism will be attached as subsequent schedule of this Certificate upon the Director's approval.

# 5. CONTINGENCY MEASURES

If trigger concentrations at trigger location(s) referred to in 4 are exceeded and these exceedances are due to landfilling operations, then one of the following contingency measures shall be implemented:

- construction of a control berm or weir downstream of the landfilling area to increase retention time for contaminated surface water flow within the buffer/attenuation zone;
- construction of a dispersion channel downstream of the landfilling area to force contaminated surface water into the peat layer and create a more uniform dispersion throughout the buffer/attenuation zone; and
- enlargement of the attenuation zone.

Prior to implementation, the appropriate contingency measurc(s) shall be discussed with and approved by the Director.

# 6. SUBSEQUENT MODIFICATIONS

After two years of operation the monitoring plan shall be re-evaluated and revised if necessary. If there is any future need to modify the monitoring plan and/or the trigger mechanism, a formal application shall be made by the City to the Regional Director requesting his/her approval of the necessary changes, and these changes may not be made without such approval.



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## SCHEDULE "D"

This Schedule "D" forms part of the Provisional Certificate of Approval No. A 612018. It describes the sediment monitoring program referred to in Condition 44.

### 1. OBJECTIVES

The objectives for the sediment quality monitoring program are:

- to provide a statistical measure of sediment quality in surface water environs suitable for determining and comparing existing and future sediment quality conditions in Morgan Lake and Crystal Bay (Silver Lake);
- to evaluate the Landfill's impact on sediment quality in Morgan Lake and Crystal Bay (Silver Lake);
- to provide additional information for evaluating the efficiency of the proposed Contaminant Attenuation Zone;
- to provide an additional level of protection for detecting any contaminant migration from the Landfill site; and
- to determine the need for a contingency implementation.

# 2. MONITORING PROGRAM

The sediment quality monitoring program shall be carried out by the City to address the stated objectives and will include the following:

### 2.1 Stations

The sediment stations to be monitored are shown on Figure S1-6.1, Item 7 of Schedule "A" (as amended September 1999) and listed below:

- station SB-1 in Crystal Bay (Silver Lake) and SB-2 in Morgan Lake; and
- reference station SB-R to be located upstream of any potential influence within Silver Lake.

Sediment sampling stations correspond with benthic sampling stations outlined in Schedule "E".

# 2.2 Sampling Frequency

All stations will be sampled annually and will be completed in the last two weeks of August.



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## 2.3 Sample Analysis

Samples shall be submitted to a qualified laboratory for analysis of the following parameters:

 Aluminum, Arsenic, Cadmium, Cobalt, Copper, Chromium, Manganese, Nickel, Iron, Lead, Zinc, Mercury, Total Organic Carbon. Total Kjeldahl Nitrogen, Total Phosphorus, Oil. Grease and Ammonia.

Grain size analysis shall be performed on sediment samples.

## 2.4 Interpretation of the Result

Interpretation of the results of sediment sampling should be based on comparison to Guidelines for the Protection and Management of Aquatic Sediment Quality in Ontario (MOE, 1992 and updates).



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### SCHEDULE "E"

This Schedule "E" forms part of the Provisional Certificate of Approval No. A 612018. It describes the biological effects monitoring program referred to in Condition 45.

### 1. OBJECTIVE

The objectives for the biological effects monitoring program are:

- to provide a statistical measure of selected sensitive biological indicators (benthic and fish endpoints) suitable for determining and comparing existing and future ecological conditions in Morgan Lake and in Crystal Bay (Silver Lake);
- to evaluate the Landfill's impact on biological indicators and ecological conditions in Morgan Lake and Crystal Bay (Silver Lake);
- to permit evaluation of potential cause-effect relationships associated with any impacts detected in surface water and sediment quality monitoring as described in Schedule "C" and "D"; and
- to provide an additional level of protection regarding the need for a contingency implementation.

## 2. MONITORING PROGRAM

The biological effects monitoring program shall be carried out by the City to address the stated objectives and will include the following:

# 2.1 Benthic invertebrate community

### 2.1.1 Stations

The benthic invertebrate sampling stations to be monitored are shown on Figure S1-6.1, Item 7 of Schedule "A" (as amended September 1999) and listed below:

- station SB-1 in Crystal Bay (Silver Lake) and SB-2 in Morgan Lake; and
- reference station SB-R to be located upstream of any potential influence within Silver Lake.

Benthic sampling stations correspond with sediment sampling stations outlined in Schedule "D".

# 2.1.2 Sampling Frequency

All station will be sampled annually for a minimum of three (3) years. Sampling will be completed in the last two weeks of August.



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The need for continued or additional benthic monitoring will be determined after the initial three year monitoring period.

## 2.1.3 Sample Collection Procedure and Analysis

Sampling procedures shall follow established protocols to be outlined in detail in the O&M Manual.

Samples shall be submitted to a qualified laboratory for taxonomic analysis. Biological endpoints to be evaluated will include:

- density (as number of organisms per square metre) of total benthic invertebrates; and
- density by taxon (to be identified in the O&M Manual).

### 2.2 Fish

### 2.1.1 Stations

Fish sampling shall be carried out in Morgan Lake and Crystal Bay (Silver Lake).

Fish sampling collections should be carried out in general proximity to sediment and benthic sampling stations SB-1 (Crystal Bay) and SB-2 (Morgan Lake) as shown on Figure S1-6.1. Item 7 of Schedule "A".

## 2.1.2 Sampling Frequency

Fish sampling shall be carried out proceeding or during the first year of operation in order to provide a baseline to permit comparison to any future conditions.

The need for continued or additional fish sampling will be determined if changes in surface water quality, sediment quality and/or the benthic invertebrate community are detected, which could indicate possible contaminant effects on these lakes.

# 2.1.3 Sample Collection Procedure and Analysis

A sentinel fish species and collection methods will be specified in the O&M Manual.

A total of 20 fish of the sentinel species will be sampled. The length, weight, sex, maturity and condition of each fish specimen will be recorded and a boneless, skinless fillet of dorsal muscle tissue will be submitted for chemical analysis according to standard MOE epaxial tissue sampling protocol. Tissue samples will be submitted to a qualified laboratory for analysis of the following parameters:



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 Aluminum, Arsenic, Cadmium, Cobalt, Copper, Chromium, Manganese, Nickel, Iron, Lead, Zinc, Mercury, Polychlorinated Biphenyls, Total Polyaromatic Hydrocarbons, Dioxin and Furans.

Results of the biological monitoring program shall be analyzed statistically where appropriate, and interpreted by a qualified professional biologist and/or environmental scientist.



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## SCHEDULE "F"

This Schedule "F" forms part of Provisional Certificate of Approval No. A 612018. It describes the groundwater monitoring program referred to in Condition 46.

## OBJECTIVES

- · to monitor groundwater quality in the refuse, the overburden and the bedrock;
- to identify and characterize movement of leachate-related contaminants in the overburden and the bedrock within the Landfill/Contaminant Attenuation Zone boundary;
- to monitor groundwater quality at the downgradient Landfill/Contaminant Attenuation Zone boundary and compare this quality with MOE's Objectives and Policies (ODWO, RUP);
- · to confirm the existence of groundwater divides north and southeast of the landfilling area; and
- to determine the need for a contingency implementation.

# MONITORING PLAN

The groundwater monitoring plan shall be carried out by the City to address the stated objectives and will include the following:

## 2.1 Monitors

The groundwater monitors to be sampled are shown on Fig. S1-6, Item 7, Schedule "A" and listed below:

- Existing monitors MW-1/17, MW-2/9, MW-2/13, KGS-2, MW-3/8, MW-4/6, MW-4/18, MW-5/17, MW-6/5, MW-6/14, MW-7/4, MW-8/22, MW-9/6, MW-10/17, -MW-13/16, MW-13/14, MW-14/6, MW-14/21, MW-15/5 and MW-15/17.
- proposed monitoring nests and single monitors MW-2, MW-11, MW-12, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23 and MW-24.

# 2.2 Sampling Frequency

All monitors shall be sampled twice a year in May and August.

# 2.3 Sample Analysis

The collected samples shall be analyzed for the following list of parameters:



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a) the comprehensive list of parameters in wells:

MW-1/17, MW-4/6, MW-4/18, MW-2, MW-2/9, MW-2/13, MW-3/8, MW-6/5, MW-6/14, MW-20, MW-7/4, MW-21, MW-5/17, MW-16, once a year, in August.

- b) the indicator list of parameters:
  - in wells listed in a) once a year, in May; and
  - in the remaining wells listed in 2.1 twice a year, in May and August.

The comprehensive list includes the following parameters:

### Inorganics

Alkalinity, Ammonia, Arsenic, Barium, Boron, Cadmium, Calcium, Chloride, Chromium, Conductivity, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nitrate, Nitrite, Total Kjeldahl Nitrogen, pH, Total Phosphorus, Potassium, Sodium, Suspended Solids (leachate only), Total Dissolved Solids, Sulphate, Zinc.

### Volatile Organics

Benzene, 1,4 Dichlorobenzene, Dichloromethane, Toluene, Vinyl Chloride.

### Other Organics

Biochemical Oxygen Demand (BOD<sub>3</sub>, leachate only), Chemical Oxygen Demand. Dissolved Organic Carbon, Phenol.

### Field Parameters

pH, Conductivity.

The indicator list includes the following parameters:

### Inorganics

Alkalinity, Ammonia, Barium, Boron, Calcium, Chloride, Conductivity, Iron, Magnesium, Nitrate, pH, Sodium, Suspended Solids (leachate only), Total Dissolved Solids, Sulphate.

### <u>Organics</u>

Biochemical Oxygen Demand (BOD<sub>5</sub>, leachate only), Chemical Oxygen Demand, Dissolved Organic Carbon.



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### Field Parameters

pH, Conductivity.

For all parameters within the established ODWO the minimum detection limits (MDL) used shall be below the corresponding ODWO.

## 2.4 Measuring Water Levels

Water level measurements shall be conducted in all functional monitors twice per year, in May and August.

In addition, water level measurements shall be conducted once a month in June, July, September and October during the first two years of operation, in the following monitors:

MW-2/9, MW-3/8, MW-13/6, MW-13/14, MW-14/6, MW14/21, MW-15/5, MW-15/17, MW-11, MW-18, MW-5/17, MW-19, MW-16.

# 2.5 Monitoring System Maintenance

During each monitoring event, the monitoring network will be visually inspected. Changes in the physical conditions of each well will be noted and necessary repairs undertaken. Monitoring wells that are shown to be damaged beyond repair or whose integrity is in doubt for further monitoring, will be abandoned in accordance with standard procedures and replaced, if necessary.

# 3. TRIGGER MECHANISM

- 3.1 Based on the water level monitoring data from monitors MW-2, MW-3, MW-13, MW-14 and MW-15 and within two years of the issuance of this Certificate, the City shall develop and submit for the Director's approval the groundwater level trigger mechanism for contingency measure implementation(s)(if required) to protect water quality and aquatic life in Silver Lake.
- 3.2 Based on the water level monitoring data from monitors MW-11, MW-18, MW-5, MW-19, MW-16 and within two years of the issuance of this Certificate, the City shall develop and submit for the Director's approval the groundwater level trigger mechanism for contingency measure implementation(s) (if required) to protect water quality and aquatic life in Morgan Lake.

# 4. CONTINGENCY MEASURES

- 4.1 If groundwater level elevation(s) at trigger location(s) are equal or exceed trigger value(s), then one of the following contingency measures shall be implemented to protect water quality and aquatic life in Silver Lake:
  - induce groundwater recharge by pumping water from Silver Lake into an infiltration gallery/



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trench in order to sustain or enhance the existing groundwater divide in the saddle area;

- pressure grouting the overburden and the upper bedrock in the saddle area to eliminate contaminate migration through the subsurface;
- installation of a cut off wall in the saddle area to eliminate contaminant migration through the subsurface: and
- leachate collection system installation.
- 4.2 If groundwater level elevation(s) at trigger location(s) are equal to or exceed trigger value(s), then one of the following contingency measures shall be implemented to protect water quality and aquatic life in Morgan Lake:
  - induce groundwater recharge by pumping water from Morgan Lake into an infiltration gallery/trench on the top of the ridge along the Jones Road in order to sustain or enhance the existing groundwater divide;
  - installation of a cut off wall in the ridge along the Jones Road; and
  - leachate collection system installation.
- 4.3 Prior to implementation, the appropriate contingency measure(s) shall be discussed with, and approved by, the Director.

## 5. SUBSEQUENT MODIFICATIONS

If there is any future need to modify the monitoring plan and/or trigger mechanisms, a formal application shall be made by the City to the Regional Director requesting his/her approval of the necessary changes and these changes may not be made without such approval.



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## SCHEDULE "G"

This Schedule "G" forms part of Provisional Certificate of Approval No. A 612018. It describes the landfill gas monitoring program referred to in Condition 47.

## 1. OBJECTIVE

To monitor combustible gas concentrations in the unsaturated zone along the southern buffer zone (drawing S1-2, Item 1, Schedule "A") between the landfill and the office/equipment storage building. The gas probes installed during the initial site construction works will ensure that there is no gas migration between the old MNR landfill (that is to be exhumed) and the office/equipment storage building.

## 2. MONITORING PLAN

The landfill gas monitoring plan shall be carried out by the City to address the stated objective and will include the following:

#### 2.1 Gas Probes

Two gas probes to be sampled are shown on Fig. S.1-6.1, Item 7, Schedule "A".

# 2.2 Sampling Frequency

Two gas probes referred to in 2.1, shall be sampled bi-monthly during frozen ground conditions and quarterly otherwise using a portable combustible gas detector.

# 2.3 Sample Analysis

The collected samples shall be analyzed for combustible gas concentration (field instrument calibrated to methane)

# 3. SUBSEQUENT MODIFICATIONS

If there is any future need to modify the monitoring plan, a formal application shall be made by the City to the Regional Director requesting his/her approval of the necessary changes, and these changes may not be made without such approval.

# 4. <u>CONTINGENCY MEASURES</u>

Due to the relatively small portion of the Landfill below grade, the relatively high water table around the landfilling area and the distance separating this area from the on-site building, lateral migration of gases will not present a hazard. Therefore, it is not appropriate to develop any contingency measures at this time.



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### SCHEDULE "H"

This Schedule "H" forms part of Provisional Certificate of Approval No. A 612018. It describes the geotechnical monitoring program referred to in Condition 48.

## 1. OBJECTIVES

- to monitor pore pressures in the peat and very soft clay;
- · to monitor the increase in the shear strength of the very soft clay with time; and
- to control the rate of landfilling (the thickness of waste and cover placed per day) and the Landfill
  development sequence.

# 2. PIEZOMETER INSTALLATIONS

- 2.1 At least four boreholes shall be drilled within Area A of the proposed landfilling area prior to the placement of waste over the peat. Their locations are shown on Figure \$1-6.1, Item 7, Schedule "A". Each borehole shall be terminated 1 m below the soft clay/underlying deposit interface.
- 2.2 If unusual or unexpected conditions are encountered in any of the four boreholes mentioned in 2.1, additional boreholes may be drilled subject to the geotechnical engineer decision.
- 2.3 At each borehole location, one piezometer shall be installed near (within 0.3 m of) the peat/soft clay interface with the tip located within the peat layer. The second deeper peizometer shall be installed within the soft clay layer with the tip located approximately 0.4 m to 1.25m below the peat/soft clay interface depending on the thickness of the soft clay layer. In areas where the clay stratum is greater than 2m thick, the piezometer tip shall be located 0.75m to 1.25m below the peat/soft clay interface. In areas where the clay stratum is less than 2m thick, the tip shall be located 0.4m below the interface.

In order to ensure both a rapid response (no lag time) and accurate measurements of the stress induces porewater pressure changes, pneumatic type piezometers are recommended for installation.

# 3. <u>INVESTIGATION</u>

# 3.1 Initial Investigation

Prior to any landfilling operation, the initial geotechnical investigation shall be conducted in four boreholes mentioned in 2.1. The investigation shall include:

- obtaining field vane strength profiles in soft clay;
- obtaining samples of soft clay (using a piston sampler) and performing consolidation and strength



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tests over a range of consolidation stress levels as necessary to provide parameters for use in stability analyses; and

• establishing the thickness of peat and soft clay layers, and the nature and hydraulic conductivity of the underlying firm deposit.

## 3.2 Geotechnical Analysis of Pore Pressures

Prior to any landfilling operation and based on the findings of the investigation mentioned in 3.1, a geotechnical engineer shall provide recommendations regarding the maximum pore pressure that can be developed in piezometers mentioned in 2.3 during the placement of waste and cover material.

## 3.3 Geotechnical Analysis of Shear Strength

Prior to any landfilling operation and based on the findings of the investigation stipulated in Section 3.1, a geotechnical engineer shall provide recommendations regarding the strength required in the very soft clay prior to the commencement of each new stage of construction.

## 4. MONITORING AND RESPONSE PLAN

# 4.1 Observations by Site Personnel

Site personnel shall advise the geotechnical engineer of any "unusual" behaviour or minor failures within the fill or peauclay soil substrate, even if these can be readily fixed by site personnel as soon as they occur. Any such instances shall be evaluated by the geotechnical engineer in the context of the design and available information. The development plan shall be changed by the geotechnical engineer in order to prevent impacts on soil stability deemed to be geotechnically unacceptable.

## 4.2 Pore Pressure Monitoring

For the first year of each new stage of construction, the piezometers installed in the peat and soft clay shall be monitored daily during the first two weeks of landfilling and weekly for the remainder of the year. Subsequently, pore pressures may be measured once a month. The pore pressure data shall be reviewed monthly by the geotechnical engineer.

## 4.3 Rate of Landfilling

The measured pores pressures shall not be permitted to exceed the allowable levels mentioned in 3.2 without the written approval of the City's geotechnical engineer, otherwise, the rate of landfilling shall be reduced such that the allowable pore pressure levels are not exceeded.



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The rate of landfilling (the thickness of waste and cover placed per day) in areas where there are no piezometer measurements shall not exceed the rate that was adopted in areas where pore pressures were measured.

## 4.4 Shear Strength Monitoring

At least four field vane tests shall be performed to confirm the shear strength increase in the soft clay prior to starting construction in each new stage near the east face and before placing final cover on the east face. The results from these tests shall be reviewed by the geotechnical engineer who shall give written approval before each new stage is commenced.

## 5. SUBSEQUENT MODIFICATIONS

This monitoring plan may be modified in accordance with experience gained during construction with the written notification of the Regional Director by the City and a supporting letter from the City's geotechnical engineer.

Modifications recommended by the geotechnical engineer shall be assessed as to their environmental significance by a qualified environmental consultant prior to the submission of the written notification to the Regional Director.

The Regional Director shall approve the necessary changes, and these changes shall not be made without such approval.



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The reasons for the imposition of these conditions are as follows:

- 1. The reason for Condition No. 1 is to clarify the meaning of the terms used in this Certificate.
- 2. The reason for Condition No. 2 is to ensure that the City, its appointed agents or any successor or subsequent owner is bound by the Conditions of this Certificate.
- 3. The reason for Condition No. 3 is to ensure that this Certificate is registered against title in the appropriate Land Registry Office.
- 4. The reason for Condition No. 4 is to indicate that this Certificate of Approval identifies the minimum environmental requirements, and that the operation must have appropriate regard for other legislation, regulations, approvals and orders which may apply.
- 5. The reason for Condition No. 5 is to ensure that any circumstance that might lead to a specific condition being judged to be invalid, does not invalidate any of the other Conditions specified in this Certificate.
- 6. The reason for Condition No. 6 is to identify the landfilling area and final contours.
- 7. The reason for Condition No. 7 is to ensure that the appropriate MOE staff have ready access for inspection of the Landfill operating under this Certificate.
- 8. The reason for Condition No. 8 is to indicate that Schedules A, B, C, D, E, F and H are a part of this Certificate.
- 9. The reason for Condition No. 9 is to ensure that the Landfill shall be developed, operated, maintained and monitored by the City in accordance with all of the plans and documents listed in Schedule "A".
- 10. The reason for Condition No. 10 is to ensure that the City shall operate the Landfill in accordance with the O&M Manual.
- 11. The reason for Condition No. 11 is to ensure that scavenging of waste at the Landfill is prohibited.
- 12. The reason for Condition No. 12(a) is to ensure that heavy equipment shall not be used on the peat or on the waste over the bog unless the peat is frozen to support the weight of the equipment.
- 13. The reason for Condition No. 12(b) is to ensure that during the construction period care shall be taken to minimize damage to the root mat over the bog area.
- 14. The reason for Condition No. 13 is to specify the temporary and permanent side slopes at the Landfill.
- 15. The reason for Condition No. 14 is to ensure that the site Supervisor is adequately trained.



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- 16. The reason for Condition No. 15 is to specify the operating hours of the Landfill.
- 17. The reason for Condition No. 16 is to ensure that the City will not allow waste to be received for disposal at the Landfill except during operating hours when the Landfill is under supervision of the Landfill attendant.
- 18. The reason for Condition No. 17 is to ensure that during non-operating hours, the Landfill entrance gate shall be locked by the City, to secure the Landfill against unauthorized persons.
- 19. The reason for Condition No. 18 is to allow the Landfill to accept waste beyond the normal operating hours at the discretion of the Board of Management, under conditions acceptable to the MOE.
- 20. The reason for Condition No. 19 is to identify those wastes that are not suitable for disposal at the Landfill.
- 21. The reason for Condition No. 20 is to ensure that an accurate record for all incoming waste is maintained by the City.
- 22. The reason for Condition No. 21 is to ensure that all vehicles entering the Landfill are identified by licence number on the weigh scale billing notice.
- 23. The reason for Condition No. 22 is to ensure that waste will be deposited in a manner that minimizes the Landfill working face and will be compacted before the cover material is applied.
- 24. The reason for Condition No. 23 is to ensure that cover material is applied daily from May 15th to September 15th and weekly during the rest of the year.
- 25. The reason for Condition No. 24 is to allow the use of a daily cover alternative material approved by the Regional Director.
- 26. The reason for Condition No. 25 is to ensure that the City will provide a contingency supply of cover material equal to two working days worth.
- 27. The reason for Condition No. 26 is to ensure that in areas where landfilling is not be carried out for a period of 90 days or more, at least 15cm of compacted, clean earth cover shall be applied over the waste.
- 28. The reason for Condition No. 27 is to ensure that areas that have reached approved limits, will be covered with final cover material and a suitable planting material will be employed to allow for effective revegetation.
- 29. The reason for Condition No. 28 is to ensure that the extent of the excavation will be limited to base grades shown on Drawing S1-3 of Item 1, Schedule "A".
- 30. The reason for Condition No. 29 is to ensure that no excavation shall occur for those portions of the landfilling area situated over the bog.



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- 31. The reason for Condition No. 30 is to ensure that there will be no burning of waste at the Landfill.
- 32. The reason for Condition No. 31 is to ensure that site operations will incorporate the necessary fire prevention measures identified in Item 1 of Schedule "A".
- 33. The reason for Condition No. 32 is to ensure that bears, birds, rodents and insect control will be undertaken by the City in accordance with Item 1 of Schedule "A".
- 34. The reason for Condition No. 33 is to ensure that the City will implement all necessary measures to prevent any off-site litter impact from the landfilling operations.
- 35. The reason for Condition No. 34 is to ensure that no disposal of waste will occur if weather conditions make it difficult to prevent litter from leaving the Landfill.
- 36. The reason for Condition No. 35 is to ensure that a dust control program is implemented at the Landfill.
- 37. The reason for Condition No. 36 is to ensure that the City shall comply with the noise limits outlined in the MOE's February 1997 "Noise Guidelines for Landfill Sites".
- 38. The reason for Condition No. 37 is to ensure that sufficient queuing space will be available on-site to accommodate the peak traffic volumes anticipated.
- 39. The reason for Condition No. 38 is to ensure that the City will monitor site related and non-site related traffic levels to assess the potential need for Highway 671 improvements at the Site entrance.
- 40. The reason for Condition No. 39 is to ensure that the City will conduct regular site inspections in order to keep all facilities and site works in a tidy condition and good working order.
- 41. The reason for Condition No. 40 is to ensure that the City shall establish the proposed Contaminant Attenuation Zone shown on Figure FW-2 of Item 1, Schedule "A".
- 42. The reasons for Condition Nos. 41 and 42 are to ensure that the surface water management system will be in place.
- 43. The reason for Condition No. 43 is to ensure that surface water monitoring shall be conducted by the City in accordance with Schedule "C".
- 44. The reason for Condition No. 44 is to ensure that sediment monitoring shall be conducted by the City in accordance with Schedule "D".
- 45. The reason for Condition No. 45 is to ensure that biological monitoring shall be conducted by the City in accordance with Schedule "E".

Ministry of the Environment 808 Robertson Street, 2rd Floor KENORA, ON P9N 1X9

Ministère de l'Environnement 808 rue Robertson 2• étage KENORA ON P9N 1X9



Kenora Area Office

April 24, 2013

Mr. M. Pokharel Environmental Supervisor City of Kenora 60 Fourteenth Street North Kenora, Ontario P9N 4M9

Dear Mr. Pokharel:

# Re: Request to Change Monitoring at Kenora Area Waste Disposal Site (A612018)

This letter is in response to the Kenora Area Landfill Monitoring Program Assessment, dated January 2013, in which you request changes to the sampling requirements contained in Certificate of Approval A612018. The assessment has been reviewed by the Ministry of the Environment Northern Region Technical Support Section and staff of the Kenora Area Office. The assessment was submitted as required by condition 3 of Schedule "G" of Certificate of Approval A612018 in order to receive Regional Director approval for changes to the landfill gas monitoring program.

The requirement for landfill gas monitoring was suspended in correspondence dated December 23, 2002 from the Regional Director Northern Region Ministry of the Environment to the Solid Waste Supervisor City of Kenora. The suspension included a requirement that a statement regarding the need for landfill gas monitoring be included in each annual report. The suspension was also contingent on no significant change in the type of waste being deposited in the landfill. Note that in December 2009 the City of Kenora began to deposit domestic waste at the site.

The ministry concurs that landfill gas monitoring can once again be removed from the monitoring program but recommends that the monitoring locations be maintained for future use. The change is contingent upon the city including a statement in each monitoring report regarding the need for landfill gas monitoring. This will ensure that this issue is not lost over time and that landfill gas monitoring will be implemented should it be warranted by a change of operation at the site.

Note that all other requirements of Certificate of Approval A612018 remain in effect.

Please contact Senior Environmental Officer Ray Boivin at 807-468-2728 if you would like to discuss the contents of this letter or the requirements of Ontario's environmental legislation

Yours truly,

John Taylor Regional Director Northern Region

/RB

c. Rick Perchuk, Operations Manager, City of Kenora

b.c. Kenora File DK PT JO 250 A612018



Ministry of the Environment Ministère de l'Environnement

# Solid Non-Hazardous Waste Disposal Site Inspection Report

Client:	Mailing Address: 60 For Physical Address: 60 F P9N 4M9 Telephone: (807)467-29	Cily of Kenora, Business/Facility N urteenth St N, Kenora, Ontario, Cal ourteenth St N, Kenora, City, Distr 990, FAX: (807)467-2992, email: m Client Type: Municipal Governmer	nada, P9N 4M9 ict of Kenora, Ontario, Canada,						
Inspection Site Address:	Kenora Area Waste Dis Address: Lot: Part 1 2, ( Unorganized Township, District Office: Kenora GeoReference: Map Dal Quality GPS, Method: G Description: Jones Road	posal Site Concession: 1.2, Geographic Town District of Kenora  tum: NAD83, Zone: 15, Accuracy E PS, UTM Easting: 412893, LITM N	nship: PETTYPIECE, Pettypiece, Sstimate: 1-10 metres eg. Good orthing: 5521117, UTM Location						
Contact Name:	Mukesh Pokharel	Title:	Environmental Supervisor						
Contact Telephone:	(807)467-2990 ext	Contact Fax:	(807)467-2933						
Last Inspection Date:	2009/08/07		Tribal is a second						
nspection Start Date:	2013/05/22	Inspection Finish Date:	2013/05/28						
Region:	Northern 2013/03/28								

#### 1.0 INTRODUCTION

The purpose of this inspection is to review the operation of the Kenora Area Waste Disposal Site as it relates to Certificate of Approval A612018 and the General Waste Regulation (347). All aspects of the site operation were inspected.

The certificate of approval for this site is A612018 which was issued on April 10, 2000. In addition to this, the certificate includes three notices and three amending letters. The certificate, notices and amending letters are detailed documents with a number of requirements designed to protect human health and the environment. Specifically:

- condition 9 requires that the landfill be developed, operated and maintained in accordance with all of the plans and documents listed in Schedule "A". Schedule "A" includes the Kenora Area Waste Management Master Plan which stipulates how waste is to be deposited within the fill area. During the inspection the site manager indicated that there had been some deviation from the fill sequence contained in the master plan and that efforts were underway to resume filling in accordance with the plan.
- condition 12 requires that care be taken to avoid damaging the root mat and peat during equipment use and construction within the landfill construction area. The city has completed this requirement.
- condition 17 requires that the site be locked during non-operating hours. The city is complying with this requirement.
- condition 19 prohibits the deposition of liquid industrial and hazardous wastes within the landfill site. The city is complying with this requirement.

- condition 30 prohibits any burning of waste at the landfill site. The city is complying with this requirement.
- conditions 43 to 48 require the city to undertake surface water, sediment, biological, groundwater, landfill gas and geotechnical monitoring. The city is doing the necessary monitoring.
- Notice number 1, issued September 19, 2003, adds conditions 55 and 56 to the certificate outlining the surface and groundwater trigger mechanisms.
- Notice number 2, issued July 25, 2011, updates the Certificate of Approval by redefining the owner of the site as the City of Kenora and changing the wording in conditions related to the owner. The notice also amends conditions 49 and 52 which ultimately allows the owner to dispense with the Landfill Liaison Committee with the concurrence of the Ministry of the Environment District Manager. Condition 52 stipulates the requirement for the monitoring report (see Notice number 3) and states in condition 52(2) that the owner must place a copy of the waste disposal site monitoring report in the municipal office (for public viewing) and on the city web site. The notice also adds condition 55 which outlines the requirements to change the monitoring programs outlined in conditions 43, 44, 45 or 46.
- the letter from the Ministry of the Environment Thunder Bay/Kenora District Manager to the City of Kenora Municipal Engineer, dated January 20, 2012, suspends the requirement for a Landfill Liaison Committee. A copy of the waste disposal site monitoring report is required to be kept on the City of Kenora web site. At the time of inspection the most recent monitoring report was not available on the city web site.
- the letter from the Ministry of the Environment Thunder Bay/Kenora District Manager to the City of Kenora Environmental Supervisor Pokharel, dated April 24, 2013, amends the Schedule "D" Sediment Monitoring Program and the Schedule "F" Groundwater Monitoring Program.
- the letter from Ministry of the Environment Regional Director Taylor to City of Kenora Environmental Supervisor Pokharel, dated April 24, 2013, removes landfill gas monitoring from the program but recommends that the city include a statement regarding the need for landfill gas monitoring in each monitoring report.
- Notice number 3, issued May 13, 2013, changes condition 52 of Certificate of Approval A612018 by making the next
  monitoring report due on June 30, 2015 and every three years thereafter.

#### 2.0 INSPECTION OBSERVATIONS

#### Certificate of Approval Number(s):

A612018 including three notices and three letters.

#### 2.1 FINANCIAL ASSURANCE:

### Specifics:

Financial assurance is not required for sites owned by municipalities.

### 2.2 APPROVED AREA OF THE SITE:

#### Specifics:

The approved total area of the site is 108.1 hectares. The approved landfilling area (footprint) is 13.1 hectares.

At the time of inspection the city appeared to have good control over the boundaries of the fill area. Wastes are not being deposited outside of the approved fill area. The footprint of the landfill has been totally cleared.

#### 2.3 APPROVED CAPACITY:

#### Specifics:

The site does not have an approved capacity although the site design includes a very specific final contour which, when completed, will require closure of the site. It is anticipated that the site will have sufficient capacity to last until at least 2040.

#### 2.4 ACCESS CONTROL:

#### Specifics

Access to the site is controlled by a locked gate and fencing along the roadway.

#### 2.5 COVER MATERIAL:

#### Specifics

Conditions 22 - 27 of the Certificate of Approval slipulate the requirements for cover material. Daily cover is required

from May 15 to September 15 and weekly cover from September 16 to May 14.

In December 2009 the city began depositing domestic waste at the site as opposed to just demolition debris, sewage sludge, ash, contaminated soil and asbestos. This has resulted in an increased need for cover to prevent windblown litter. Windblown litter is becoming a problem as the ground inside the gate and the forest along the edge is becoming contaminated with litter. In addition, there are plastic bags becoming caught in the crowns of the trees bordering the site. Also there is exposed compacted waste throughout the site.

#### 2,6 WASTE BURNING:

#### Specifics:

There is no evidence of burning at this site.

#### 2.7 GROUNDWATER/SURFACEWATER IMPACT:

#### Specifics:

There is no obvious evidence of groundwater or surface water impact from this site. The site is built in a spruce bog upstream of Morgan Lake. The bog is generally wet and deposition of waste began with waste placed on top of felled trees without disturbance of the root mass or peat.

### 2.8 LEACHATE CONTROL SYSTEM:

#### Specifics:

A leachate control system has not been installed at this site. This site is a natural attenuation landfill.

#### 2.9 METHANE GAS CONTROL SYSTEM:

#### Specifics:

A methane gas control system has not been installed at this site. Condition 47 of the site Certificate of Approval requires that landfill gas monitoring be conducted. On December 23, 2002, the city received authorization to postpone the gas monitoring until such time as the type of waste received at the site changes significantly. In December 2009 the city began depositing domestic waste at the site and landfill gas monitoring was resumed. On April 24, 2013 the city once again received authorization to suspend landfill gas monitoring with the caveat that a statement regarding the need for landfill gas monitoring be included in each monitoring report.

#### 2.10 OTHER WASTES:

#### Specifics:

There is no evidence that wastes other than solid non-hazardous wastes are being deposited at this site.

#### 3.0 REVIEW OF PREVIOUS NON-COMPLIANCE ISSUES

#### Inspection Report - August 7, 2009

- 1. Condition 49 of the site certificate of approval requires the establishment of a Landfill Liaison Committee. Since the committee has not met in a number of years it is recommended that a meeting be convened in the near future. The city has complied with this requirement by amending the Certificate of Approval to allow the city, with the District Manager's concurrence, to suspend the Landfill Liaison Committee.
- 2. The successful operation of the contaminant attenuation zone is based on maintaining water levels at the site outlet as low as possible. During the inspection it was noted that water levels at the pond on the west side of Jones Road were very high and there was no flow through the two culverts draining the pond. Both culverts were plugged. It is recommended that the city start a weekly inspection program during the ice free period (May October) to ensure that water levels in the discharge pond are maintained at the lowest level possible. At the time of inspection the culvert was partially blocked with debris.
- 3. All on-site wells should be locked and wells within the fill area should be protected from damage with a section of sewer access pipe or culvert. Wells MW 4-6 and MW 4-18 were unprotected within the fill area although they were marked with a brightly painted wooden marker. The city is complying with this requirement.

### Incident Reports August 2009 - May 2013

5581-8BVNVT - December 3, 2010 - on a routine visit to the Kenora Area Waste Disposal Site I noted the presence of a vacuum truck and observed the operator dumping a partial load of dirty water into the waste disposal site. I spoke with the operator and advised him that the site was not approved to receive liquid and that the water should be decanted into the sanitary sewer prior to the grit and solids being deposited at the site. The operator indicated that the water was from a sewer access hole cleanout. The operator indicated that it was not normal city procedure to bring

liquids to the waste disposal site and that he wasn't given specific instructions to decant prior to dumping at the site. It appeared to me that the operator was taking a Friday afternoon shortcut. I advised the operator that he was being warned to ensure that liquids were not brought to the site and that a reoccurrence would result in possible enforcement action. Note that Certificate of Approval A612018 authorizes the disposal of grit and screenings from street cleaning and sediment basin clean-outs but does not authorize the deposit of liquids at the site.

#### 4.0 SUMMARY OF INSPECTION FINDINGS (HEALTH/ENVIRONMENTAL IMPACT)

Was there any indication of a known or anticipated human health impact during the inspection and/or review of relevant material, related to this Ministry's mandate?

No

Specifics:

Was there any indication of a known or anticipated environmental impact during the inspection and/or review of relevant material ?

No

Specifics:

Was there any indication of a known or suspected violation of a legal requirement during the inspection and/or review of relevant material which could cause a human health impact or environmental impairment? No

Specifics:

Was there any indication of a potential for environmental impairment during the inspection and/or the review of relevant material ?

No

Specifics:

Was there any indication of minor administrative non-compliance?

Specifics:

A copy of the monitoring report should be available at the municipal office and on the city web site

## 5.0 ACTION(S) REQUIRED

- Ensure that the placement of waste at the site corresponds with the fill sequence outlined in the Kenora Area Waste Management Master Plan (1997).
- Ensure that a copy of the most recent monitoring report is available at the City of Kenora municipal office and on the City of Kenora web site. This is a requirement of condition 52(2) of Certificate of Approval A612018.
- Review the waste cover requirements contained in Certificate of Approval A612018 and take all necessary steps to ensure that waste is adequately covered.
- Resume weekly inspections of the discharge culvert to ensure that the culvert remains clear and that water levels within the attenuation zone remain as low as possible.

### 6.0 OTHER INSPECTION FINDINGS

- The 2011 annual report concluded that the Kenora Area Waste Disposal Site is not having any detectable impacts on the surrounding environment.
- 2. The operations and maintenance manual required by condition 10 of the Certificate of Approval is the Kenora Area

Ministry of the Environment and Climate Change

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MINISTRY OF THE ENVIRONMENT

DEC - 3 2014

Kenora Area Office

November 25, 2014

### MEMORANDUM

TO:

Ray Boivin

Senior Environmental Officer

Kenora Area Office

FROM:

Shannon Heggie

Regional Hydrogeologist Thunder Bay Office

RE:

2014 Revised Triggers and Contingency Plan

City of Kenora

Kenora Municipal Landfill (Jones Road)

Kenora, ON

C of A #A612018, amended January 15, 2014

# **Introduction and Purpose**

As requested, I have reviewed the groundwater-related portions of the report prepared by Azimuth Environmental Consulting (the consultant), entitled: "Revised Trigger Mechanism and Contingency Plan, Kenora Area Landfill", dated September 2014.

The following document was referenced for background site information: Ministry of the Environment memorandum: "Re: Kenora Area Landfill, Monitoring Program Assessment – 2013, C. of A. No: A612018", prepared by Simon Haslam (Regional Hydrogeologist), dated November 20, 2014.

The purpose of this memo is to evaluate the proposed revised trigger mechanisms and contingency plan. I have forwarded this review to the appropriate Ministry of the Environment and Climate Change Surface Water Specialist, for review of the proposed surface water triggers for the site.

## **Background**

The Kenora Municipal Landfill (the site) is located immediately north of Highway 671 (Jones Road), ~22 km northeast of the City of Kenora, Ontario. The site began operations in 2000, and received construction and demolition waste materials from 2000 to 2009 to provide a stable footprint for the waste cells. Since 2009, the site has received solid waste from the City of Kenora. In 2011, cover material and dewatered sewage sludge was applied to level the working surface. The site has a current waste area of 4 ha, the approved waste footprint is 13.1 ha, and total site area is 108.1 ha (C of A #A612018, amended Jan. 15, 2014).

The site is located near the top of a small watershed located between Crystal Bay in Silver Lake to the north (~400 m), and Morgan Lake to the south (~400 m). Surface drainage and run-off is primarily to the northeast, through a bog and wetland complex toward a small surface water pond adjacent to a culvert beneath Jones Road. This surface water flow continues through several channels, bogs, wetlands and ponds into Morgan Lake (~1600 m). A topographic depression is also located northeast of the waste cells ("saddle"), which may allow some site drainage to migrate into Crystal Bay during high flow events. An additional minor drainage path is located south of the site and parallel to Jones Road, and may permit some flow towards the south and Morgan Lake.

Subsurface soils within the bog and wetland complex forming the base of the landfill are composed of a surficial layer of peat (≤ 3 m thick), overlying clayey silt (2-8 m thick) on silty sand till (~2-30 m thick), on granodiorite bedrock. Groundwater elevation measurements and borehole logs indicate that overburden groundwater flow is controlled by bedrock topography and is towards the northeast within a small bedrock valley underlying the bog and wetland complex. Hydraulic conductivity measurements within the till suggest that flow rates may range from 1-50 m/year. MOECC data sources indicate that there are no registered private water supply wells within 2 km of the site.

# **Discussion and Recommendations**

Based on groundwater and surface water monitoring and sampling results from 2000-2013, the consultant has recommended amending the established groundwater and surface water trigger criteria for the site and associated contingency measures, as required by the C of A (#A612018). Specifically, this includes the groundwater level triggers for the "saddle" area and along Jones Road, and the down-gradient surface water quality triggers.

With respect to the trigger limits on water levels through the bedrock "saddle" area to the north of the waste area, the consultant has proposed a requirement for groundwater elevations at MW15/5 to be higher than at MW3/8. Historically the groundwater elevations in the "saddle" area consistently show flow towards the site, with the exception of one occurrence in May 2007 during high flow conditions. If groundwater elevations do not meet the proposed criteria in the "saddle" area, then a review of groundwater quality at MW3/8 would be conducted to assess the risk for off-site leachate migration. Groundwater quality triggers for chloride, total dissolved solids (TDS) and alkalinity were established for MW3/8, based on the MOE Guideline B-7. MW3/8 is not currently impacted by landfill leachate, therefore average water quality values from this well were used for background in the trigger limit calculations. If both groundwater elevation requirements and trigger criteria are not met, then further evaluation would be conducted along with a remedial strategy.

• It is my opinion that the proposed groundwater elevation criteria for the bedrock "saddle" area and the associated groundwater trigger criteria are appropriate, and I am in agreement with the proposed amendments and contingency measures. However, it is recommended that monitoring wells MW13/6 and MW14/6 are maintained, in order to assess down-gradient groundwater quality if the amended trigger elevations are exceeded for MW3/8 and MW15/5.

With respect to the groundwater levels along Jones Road for MW5/17, MW11/4, MW16/15, MW18/6 and MW19/16, the consultant has stated that the established trigger elevations have not been exceeded during the past ten (10) years of monitoring at the site. Specifically, groundwater levels have not been within 2.5 m of the trigger elevations, with the majority being >5 m lower than the trigger elevations. The consultant has recommended that the use of groundwater level triggers along Jones Road is discontinued.

While the groundwater levels in monitoring wells along Jones Road have not exceeded
the trigger elevations over the past 10 years, there is no certainty that groundwater
elevations will remain within this range during landfilling operations over the long term,
due to potential mounding of the groundwater table and other climate-related effects.
Therefore, I do not agree with the discontinuation of the use of groundwater level
triggers along Jones Road.

The down-gradient surface water quality triggers are used to ensure that leachate reaching the peat bog and Morgan Lake is sufficiently attenuated. The consultant has proposed new surface water trigger parameters and limits based on dilution within the watershed.

• It is recommended that a MOECC Surface Water Specialist reviews the proposed surface water trigger parameters and limits for this site.

## Closure

If you have any questions regarding the above comments and recommendations, do not hesitate to contact me. The purpose of the preceding review is to provide advice to the Ministry of the Environment and Climate Change regarding groundwater and subsurface soil conditions based on the information provided in the above referenced documents. The conclusions, opinions and recommendations of the reviewer are based on information provided by others, except where otherwise specifically noted. The Ministry cannot guarantee that the information that has been provided by others is accurate or complete. A lack of specific comment by the reviewer is not to be construed as endorsing the content or views expressed in the reviewed material.

Shannon Heggie, M.Sc., P.G. Regional Hydrogeologist

c: Paula Spencer, Surface Water Specialist, MOECC Northern Region



**Environmental Assessments & Approvals** 

June 29, 2015

AEC 15-020

City of Kenora Waste Management Department 1 Main Street South Kenora, Ontario P9N 3X2

Attention:

Mukesh Pokharel, P.Eng.

**Environmental Supervisor** 

Re:

Response to MOECC Comments Regarding the Revised Trigger Mechanism & Contingency Plan – Kenora Area Landfill

Dear Mukesh:

This letter is intended to address the Ministry of Environment and Climate Change (MOECC) comments regarding the proposed revised trigger mechanism & contingency Plan for the Kenora Area (Jones Road) Landfill (Azimuth, September - 2014).

The MOECC response document (November, 2014), which was provided to the City via email on June 23, 2015 included comments related to the ground water component of the revised trigger mechanism document. In reviewing this document, the comments provided by the MOECC seem appropriate and revisions to the revised trigger mechanism document can be made to re-incorporate the trigger ground water elevations along Jones Road. The one item of note is that although the MOECC reviewer would like MW18/6 remain in the trigger assessment, it has been removed from the monitoring program and decommissioned as part of the 2012 monitoring program assessment completed by Azimuth and approved by the MOECC in April 2013. The rationale for this removal / decommission was that the location was routinely dry and redundant based on the other monitoring wells in the area. However, as MW5/17, 11/4, 16/15 & 19/16 are all part of the current ground water monitoring program, water levels are already conducted at these locations such that the trigger assessment can be readily conducted and provide appropriate coverage for establishment of ground water elevations along Jones Road.



As no comments have been received for the proposed surface water trigger revisions at this time, it is proposed that incorporation of the MOECC comments to the revised trigger mechanisms and contingency plan be deferred such that the document can be updated to incorporate all comments.

If you have any questions or comments, please call us.

Yours truly,

AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Colin Ross, B.Sc., P.Geo.

Hydrogeologist

Ministry of the Environment 808 Robertson Street, 2<sup>nd</sup> Floor KENORA, ON P9N 1X9

Ministère de l'Environnement 808 rue Robertson 2º étage KENORA ON P9N 1X9



Telephone: (807) 468-2718 Fax: (807) 468-2735

Kenora Area Office

February 13, 2013

Mr. M. Pokharel Environmental Supervisor City of Kenora 60 Fourteenth Street North Kenora, Ontario P9N 4M9

Dear Mr. Pokharel:

Re: Review Comments for 2010/2011 Monitoring Kenora Area Waste Disposal Site A612018

The Ministry of the Environment Northern Region Technical Support Section's review of the 2010 and 2011 monitoring reports for the Kenora Area Waste Disposal Site (A612018) has been completed. A copy of the review comments is enclosed.

The reviewer has stated that there are no significant concerns with the sampling and monitoring results presented in the report. The next monitoring report for this site is due on June 30, 2015.

In the review comments you will note that the reviewer has made reference to the Kenora Area Landfill Monitoring Program Assessment (2013). Review of the surface water portion of the assessment has been completed. Review of the groundwater portions of the assessment is still outstanding. I will contact you when all comments have been received so that we can discuss the process for implementing the recommendations.

I can be reached at 468-2728 if you would like to discuss the contents of this letter or the requirements of Ontario's environmental legislation.

Yours truly,

Ray Boivin

Senior Environmental Officer

Kenora Area

/RB

Enclosure

c. Rick Perchuk, Operations Manager City of Kenora



**Environmental Assessments & Approvals** 

June 7, 2017

AEC 17-020

Ministry of Environment & Climate Change Thunder Bay District Office 435 James St South Suite 331B Thunder Bay, ON P7E 6S7

Attention:

Drew Stajkowski - District Manager

Re:

Jones Road Landfill Site — Proposed Contingency Action Plan for Trigger Mechanism Exceedance

Dear Mr. Stajkowski:

The purpose of this correspondence is to provide the Ministry of Environment & Climate Change (MOECC) District Office notice that the Jones Road landfill Site has encountered an exceedance of the current Trigger Mechanism & Contingency Plan (Azimuth, 2014).

This exceedance was for boron in the downstream surface water location SW-2, which indicated concentrations above the trigger limit of 0.2 mg/L for two of the three monitoring events in 2016 (0.3 mg/L – May & 0.21 mg/L – October). As the established trigger is for parameter exceedances on more than half the monitoring events in a given sampling year, confirmatory sampling was initiated with the first of the two confirmatory samples being collected on November 18, 2016. Analysis for all three trigger parameters (ammonia, chloride and boron) was completed, while duplicates were submitted to separate laboratories (Maxxam – Winnipeg & ALS – Thunder Bay), both of which are CALA accredited laboratories. The results which are summarized in the appended surface water chemistry tables for SW-1 and SW-2, indicate that the boron concentrations remained above trigger criteria, albeit only minimally. It is also noted that the concentrations have remained relatively consistent throughout 2016 into 2017, despite the exceedance, while other trigger parameters are well below their associated trigger values. Although two sampling events are required within a two month period, the winter



conditions did not permit surface water samples to be collected until the Spring 2017 monitoring event.

Given the persistent, albeit only slightly exceeded boron concentrations, further action is required to more adequately assess the boron source and migration mechanism. Currently, the closest downgradient monitoring overburden well MW2/9 has not shown impacts and boron concentrations are typically below detection limits. Similar results are observed a MW6, which is further downgradient and upstream of SW-1.

Given the lack of leachate impacts in the downgradient ground water, specifically boron, as well as the lack of surface water seepage or flow in the area intervening the waste mound and SW-1, it is uncertain as to why the boron concentrations are elevated in the downstream surface water features. In order to gain a better understanding of the boron source as well as the potential transport mechanism involved the following action plan is being proposed. It is a staged approach with additional action items proposed if the initial work warrants the additional tasks.

It is also noted that the City will be applying additional cover material in the northeastern (downgradient) end of the waste mound. The first lift in this area has been completed and the active working area is moving west, further from the wetland area. It is surmised that this increase in separation distance between the surface water receiver and the active waste area may result in an improvement in surface water quality, which will be tracked throughout 2016.

#### PHASE I – ADDITIONAL WATER QUALITY SAMPLES

Although the boron concentrations have exceeded their trigger values, the concentrations are only slightly above these criteria. As such, it is proposed that additional monitoring be completed to better delineate the boron impacts within the surface water regime. Given the lack of leachate seeps at the waste mound and flow channels present between the landfill and SW-1, it is proposed that additional surface water samples be collected in 2017 in this forested wetland area, which was already commenced in April with two samples collected between the waste mound and SW-1. Additional sample locations will also be targeted closer to SW-1 (near MW7 and MW21)

It is also proposed that additional water quality samples be collected from MW7 and MW21, which are downgradient monitors that were previously removed from the monitoring program given the lack of ground water leachate impacts observed beyond the waste footprint. As these monitoring wells are shallow (<4 m), they might provide more



insight as to whether the leachate (i.e. boron) is now migrating higher in the overburden aquifer profile. Similarly, there appears to be a correlation between the pH and boron concentrations such that it would be beneficial to assess whether this correlation is related to the overall surface water quality or is also found within the ground water regime.

This additional monitoring is proposed to be completed twice during 2017 to assess potential trends and can be correlated to the data from across the entire monitoring network.

## PHASE II - AQUATIC ASSESSMENT & ADDITIONAL MONITORS

Upon completion of the additional sampling proposed in Phase I, additional actions may be required. Although a more specific plan may be developed based on the results of Phase I, the following is proposed as a potential secondary action item.

Given the limited exceedance above PWQO for boron at SW-2 (0.2 mg/L), it is proposed that an aquatic assessment be completed in the surface water features at SW-1 and SW-2 to characterize the aquatic environment in more detail such that a proper risk assessment can be completed for boron. This may include looking into boron thresholds or criteria established in other guidelines (i.e. Canadian Water Quality Objectives -CWQO) or jurisdictions. An aquatic Biological Assessment was completed for the area as part of Kenora Area Waste Management Master Plan (Fenco MacLaren, 1997) that indicated the fish habitat above High Lake Road (formerly Beaubien Road) is limited due poor channel definition and fish movement would be limited due to waterfalls present immediately downstream of SW-2. It is possible that this aquatic assessment could be updated with an updated field assessment of water course / wetland feature that is present between the landfill and SW-2.

The second item that could be considered following review of the Phase I results is the addition of a shallow monitoring well immediately downgradient of the waste, in proximity to MW2. As the current shallow monitor at MW2 is 9 m deep, it is possible that the leachate impacts may be migrating shallower in the horizon such that this monitor does not provide sufficient characterization of the downgradient water quality. As the water level at MW2/9 is approximately 1.3 m bgs and relatively consistent over time, a new monitor targeting a depth of approximately 4 m could provide additional data to help refine the understanding of an downgradient plume originating from the Site.

It is noted that any deviations from the work proposed in this work plan will be detailed in an update letter to the MOECC District Office.



Please contact either the City or Azimuth if you have any questions regarding the above noted action plan.

Yours truly,

AZIMUTH ENVIRONMENTAL CONSULTING, INC.

Colin Ross, B.Sc., P.Geo.

Senior Hydrogeologist

Attach:

cc: Mukesh Pokharel - City of Kenora

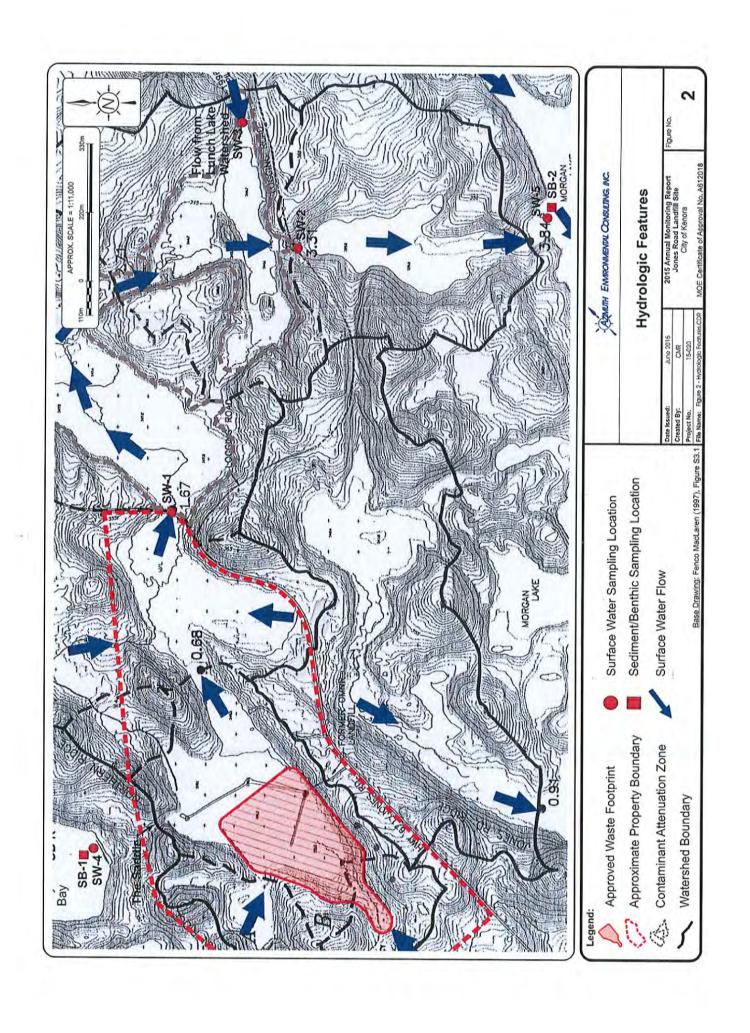
Station																			
PWQO -	QA/QC	0,1	0.2	Bá	Ca	0,0001	0.1	0,005	0,3	0.0002	К	Mg	Mn	TOS	TKN	Total P 0.03	COD	BOD	TSS
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9/25/200	3	< 0.002	0.024	0.024		< 0.0001	< 0.005	0.005	1.13 1.03 0.54	< 0.00005				294	0.85 2.10	0.013 0.029 0.015	84 148 95	< 0.5 1.5	3
5/26/200-	4	< 0.002	0.057	0.024	27.40	< 0.0001	< 0.005	0.003	0.50	< 0.00005	22.5	6.5	0.015	276	1,26 2.16	0.053	82 129	1.0	2 5 2
10/14/2004	4	< 0.002	0.062	0.028	25.00	< 0.0001	< 0.005	< 0.005	0.27	V 0.0001	12	5.3	0.015	362	1.10 1.19 2.40	0,160 0.017 0.228	99	0.9 1.0 < 2	2 110
9/2/200	5	0.0012	0.058	0.03 0.034	20,00	< 0.0001	< 0.005	0.0015	2.30	< 0.0001 < 0.0001	12	0.3	0.001	304 258	1.70	0.114	81 89	5.0	26 14
5/16/2000 8/29/2000	В	< 0.001	0.060	0.039		< 0.0001	< 0.005	0.002	0.35	< 0.0001				98 216	1.40	0.009	78 96	< 2 10.0	< 1 75
5/31/201 5/15/200	1	< 0.2	0.040	0.040	-	< 0.005	< 0.01	< 0.02	8.2 0.43	< 0.0001				213 183	1.40	0.061	54 92	5.0	9
8/15/2007 10/18/2007	7	<0.2 <0.2	0.170	0.070		<0.005 <0.005	<0.01 <0.01	<0.02 <0.02	1.7	<0.0001	-			418 246	3.00	0.320 0.120	150 140	5.0	7 5
5/21/2008 8/20/2008		<0.2	0.230	0.050		<0.005	<0.01	<0.02	1.8	<0.0001				270	1,30 3.30	0.052 0.530	87 280	6.0	< 1 14
10/24/2008 5/19/2009	9	<0.2	0.130	0.030		<0.005	<0.01	<0.02	0.29	<0.0001				420	2.50 1.30	0.210 0.096	120 81	3.0	6 < 1
8/18/2009	)	<0.2 <0.2	0.120 0.160	0.050 0.040		<0.005 <0.005	<0.01	<0.02 <0.02	1.6	<0.0001 <0.0001				266 335	2.40 1.90	0.740 0.130	200 100	5.0	10 5
	no sample								0.32						1.90	0.092	100	5.0	3
10/21/2010 5/31/2011		<0.2	0.130	0.040		<0.005	<0.01	<0.02	0.38	<0.0001				508	1,50	0.210	90 89	<2 <2	1 4
8/24/2011 10/25/2011		<0.2 <0.2	0.330	0.040		<0.005 <0.005	<0.01 <0.01	<0.02 <0.02	0.51	<0.0001 <0.0001				470 344	2.00	0.400	110 110	<2 <2	3 2
5/18/2012 8/30/2012	2	<0.2	0.250	0.070		<0.005	<0.01	<0.02	0.29 2.5	<0.0001				752	1,80 3,40	0.150 0.810	90 160	<2 4.0	3 54
10/23/2012 5/24/2013 8/29/2013	3	<0.2	0.230	0.040		<0.005 <0.005	<0.01	<0.02	0.26	<0.0001 <0.0001				696 780	1,80 2.80	0.370	120 110	<2 <2	2
10/17/2013	3	<0.2	0.390	0.070		<0.005	<0.01	<0.02	7.3 1.9 0.4	<0,0001			==1	680	4.70 2.10 2.40	0.830 0.370 0.150	150 130 96	2.0	56 7 5
8/21/2014	1	<0.2 <0.2	0.810	0.150 0.075		<0.005 <0.005	<0.01 <0.01	<0.02 <0.02	6.8	<0.0001				1230 788	4.40	0.940	180 110	11.0	55 3
5/21/2015 8/25/2015	5	<0.2	0.750	0.027		<0.005	<0.01	<0.02	0.5 0.57	<0.0001				762	1.60 1.60	0.170	100	<2 <2	5 <1
10/20/2015 5/10/2016		<0.2	0.820	0.053		<0.005	<0.01	<0.02	0.33 0.48	<0.001				1040	1.80 4.15	0.260 0.161	130 104	2.0	3 19.3
9/8/2016	3	0.002 0.001	0.995 0.730	0.036 0.031	39.8	<0.00001	0.0002 0.001	0.001 0.0004	0.46	<0.00001 <0.00001	155	23.9	0.021	676 414	2.58 1.58	0.480	151 105	<8 <8	<4.0 <4.0
11/18/2016	Duplicate 1	-	0.836				-	-											
5/17/2017 5/17/2017	Duplicate		0.846 0.682									W-1							
Paran PWQO -	neter -	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pH	alk42	инз-и	Unionized NH3-	DOC	2000	1000 (100)	200	-000 Oc	Field T	Field Cond
			0.003	0.02		110411	HOU IT			ancez.	MITS-IN		DOC	Cond.	Phenois	DO	Field pH	Linia I	Finia Cond
Action**		ma/L	0.003 mg/l	0.02 mg/l	187 mg/l			ma/l	6.5 - 8.5			0.02 0.96			0,001		Fjeld pH	Field	Field Colld
Units - 5/21/2003 6/10/2003	3	mg/L	0.003 mg/L < 0.0005	0.02 mg/L 0.008	mg/L 4.5	mg/L < 0.2 < 0.2	mg/L < 0.2	mg/L 39.0 53.8	6.5 - 8,5 n/a 5.85	mg/L	mg/L 0,18	0.02 0.96 mg/L 0.00001	mg/L	mg/L 142	0,001 mg/L < 0.001	mg/L 15	6.60	4.0	110
Units - 5/21/2003	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	mg/L	mg/L	mg/L	mg/L	mg/L < 0.2	mg/L		6.5 - 8,5 n/a	mg/L	mg/L	0.02 0.96 mg/L		mg/L	0,001 mg/L	mg/L			
Units - 5/21/2003 6/10/2003 7/17/2003 8/6/2003 9/25/2003 10/28/2003	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	mg/L	mg/L < 0.0005	mg/L 0.008 -	mg/L 4.5 6.2 5.3	mg/L < 0.2 < 0.2 < 0.2	mg/L < 0.2 < 0.2 < 0.2	39.0 53.8 44.0	6.5 - 8.5 n/a 5.85 5.95 5.87	mg/L 7 7	mg/L 0.18 < 0.03 0.05	0.02 0.98 mg/L 0.00001 <0.0003 0.00001		mg/L 142 170 149	0,001 mg/L < 0.001 < 0.001	mg/L 15 9 8	6.60 5.60 5.90	4.0 7.0 19.5	110 170 130
Units - 5/21/2003 6/10/2003 7/17/2003 8/6/2003 9/25/2003 10/28/2004 8/19/2004	3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4	mg/L	mg/L < 0.0005 < 0.0005 < 0.0005	mg/L 0.008 0.006 < 0.005	mg/L 4.5 6.2 5.3 3.6 15.6 15.6 8.5 8.8	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 0.20 < 0.2 < 0.2	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2	8.5 - 9.5 n/a 5.85 5.95 5.87 6.07 6.58 6.64 7.08 7.65	mg/L 7 7 7 11 11 25 8 44 62	mg/L 0,18 < 0.03 0.05 0.06 0.61 0.36 1.29 NA	0.02 0.96 mg/L 0.00001 <0.0003 0.00001 0.00002 0.00037 0.00015 0.00193		mg/L 142 170 149 145 374 337 218 246	0,001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 15 9 8 15	6.60 5.60 5.90 5.70 5.60 5.80 6.20	4.0 7.0 19.5 18.5 8.0	110 170 130 110 340
Units - 5/21/2003 6/10/2003 7/17/2003 8/6/2003 9/25/2003 10/28/2003 5/26/2004 8/19/2004 8/3/2005		mg/L	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 0.00022	mg/L 0.008 0.006 < 0.005 0.056 < 0.005 0.036	mg/L 4.5 6.2 5.3 3.6 15.6 15.6 8.5 8.8 10.2 5	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.3	mg/L < 0.2 < 0.2	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1	8.5 - 8.5 n/a 5.85 5.95 5.87 6.07 6.58 6.64 7.08 7.65 7.63	mg/L 7 7 11 11 25 8 44 62 136 75	mg/L 0.18 < 0.03 0.05 0.06 0.61 0.36 1.29 NA 0.03 0.09	0.02 0.95 mg/L 0.00001 <0.00003 0.00001 0.00002 0.00037 0.00015 0.00193		mg/L 142 170 149 145 374 337 218 246 420 175	0,001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.001 0.001 0.001	mg/L 15 9 8 15 10 6 6 5	6.60 5.60 5.90 5.70 5.60 5.80 6.20 6.80 4.50	4.0 7.0 19.5 18.5 8.0 2.0 5.0 10.0 6.0	110 170 130 110 340 280 230
Units - \$/21/200: 6/10/200: 7/11/200: 8/6/200: 9/25/200: 10/28/200: 5/26/200- 8/19/200- 10/14/2004 8/3/2006 9/2/2005 10/21/2005		mg/L	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	mg/L 0.008 0.006 < 0.005 0.056 < 0.005	mg/L 4.5 6.2 5.3 3.6 15.6 15.6 8.5 8.8 10.2 5 17	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.3 < 0.3 < 0.3	mg/L < 0.2 < 0.1	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 11.1 10.4 11.0	8.5 - 8.5 1.7a 5.85 5.95 5.87 6.07 6.58 6.64 7.08 7.65 7.63 7.78	mg/L 7 7 7 11 11 25 8 44 62 136 75 133	mg/L 0.18 < 0.03 0.05 0.06 0.61 0.36 1.29 NA 0.03 0.09 0.26	0.02 0.96 mg/L 0.00001 <0.00002 0.00003 0.00001 0.00015 0.00118 0.00116 0.00117 0.00197		mg/L 142 170 149 145 374 337 218 246 420 175 294 230	0,001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 5 10	6.60 5.60 5.90 5.70 5.60 5.80 6.20 6.80 4.50 6.00 3.70	4.0 7.0 19.5 18.5 8.0 2.0 5.0 10.0 5.0 17.8 13.7 8.5	110 170 130 110 340 280 230
Units - 5/21/200: 6/10/200: 7/17/200: 8/6/200: 9/25/200: 5/26/200- 8/19/200- 10/14/2004 8/3/200: 9/2/200: 5/16/2006 8/3/2006 8/3/2006 8/3/2006 8/3/2006		mg/L	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	0,006 0,005 0,005 0,005 0,005 0,005 0,005 0,007 0,009 0,000 0,	mg/L 4.5 6.2 5.3 3.6 15.6 8.5 8.8 10.2 5 17 10 8	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.0 < 0.0 < 0.0 < 0.0 < 0.0 < 0.0 < 0.0 < 0.0 < 0.0 < 0.0 < 0.0 < 0.01	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 0.20 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.0	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 11.1 10.4 11.0 14.0	6.5 - 8.6 1/a 5.85 5.95 5.87 6.59 6.64 7.08 7.63 7.75 7.70 7.70	mg/L 7 7 11 11 25 8 44 62 136 75 133 115 85	mg/L 0,18 < 0.03 0,05 0.06 0,61 0.36 1,29 NA 0.03 0.09 0.26 0.08 < 0.05	0.02 0.96 mg/L 0.00001 0.00002 0.00037 0.00015 0.00183 0.00016 0.00114 0.00197 0.00079 0.00057		mg/L 142 170 149 145 374 337 218 246 420 175 294 230 221 291	0,001  mg/L  <0,001  <0,001  <0,001  <0,001  <0,001  <0,001  <0,001  <0,001  <0,001  <0,001  <0,001  0,001  0,001  0,001	mg/L 15 9 8 15 10 6 6 5 10 19 13	6.60 5.60 5.70 5.60 5.80 6.20 6.80 4.50 6.00 3.70 6.71	4.0 7.0 19.5 18.5 8.0 2.0 5.0 17.8 13.7 8.5 17.2	110 170 130 110 340 280 230 440 170 270
Units - 5/21/200 6/10/200 7/17/200 8/6/200 8/6/200 9/25/200 10/26/200 8/19/200 10/14/200 9/2/200 10/14/200 10/14/200 10/14/200 10/14/200 5/16/200 8/19/200 10/17/200 8/19/200 10/17/200 5/15/200		mg/L	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0002 < 0.0005 < 0.0005 < 0.0005 < 0.0005	mg/L 0.008 -0.006 -0.005 -0.005 -0.005 0.072 0.072 0.092	mg/L 4.5 6.2 5.3 3.6 15.6 8.5 8.5 8.5 10.2 5 17 10 8 21 30	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.0 < 0.01 < 0.01 < 0.01 < 0.020	mg/L < 0.2 < 0.0 < 0.1 < 0.1 < 0.1 < 0.1	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 11.1 10.4 11.0 14.0 30.0	6.5 - 8.5 n/a 5.85 5.85 6.07 6.58 7.08 7.08 7.65 7.75 7.70 7.70 7.70 7.70 7.40	mg/L 7 7 7 111 11 25 8 44 62 136 75 133 117 113 66	mg/L 0.18 < 0.05 0.06 0.61 0.36 1.29 NA 0.03 0.09 0.28 0.08 < 0.05 0.14 0.46	0.02 0.96 mg/L 0.00001 0.00003 0.00001 0.00003 0.00015 0.00183 0.0016 0.00197 0.00079 0.00057 0.00057 0.00310		mg/L 142 170 149 145 374 337 218 246 420 175 294 230 221 291 353 417	0,001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.001 0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 5 10 19 13 10 11 16 6	6.60 5.60 5.70 5.60 5.80 6.20 6.80 4.50 6.00 3.70 7.30 6.71 6.24 6.93	4.0 7.0 19.5 8.0 2.0 5.0 10.0 5.0 17.8 13.7 8.5 17.2 17.4	110 170 130 110 340 280 230 440 170 270 20
Units - \$\frac{5}{21/200}\$ \$\text{6/10/200}\$ \$\frac{7}{10/200}\$ \$\frac{7}{11/200}\$ \$\frac{8}{200}\$ \$\frac{9}{25/200}\$ \$\frac{1}{26/200}\$ \$\frac{8}{20/200}\$ \$\frac{1}{20/200}\$ \$\frac{1}{20/200}\$ \$\frac{9}{21/200}\$ \$\frac{1}{20/200}\$ \$\frac{1}		mg/L	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	0,006 0,005 0,005 0,005 0,005 0,005 0,005 0,007 0,009 0,000 0,	mg/L 4.5 6.2 5.3 3.6 15.6 15.6 8.8 10.2 5 17 10 8 21 30 14	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0	mg/L < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 11.1 10.4 11.0 14.0 30.0 105.0 33.0	6.5 - 8.5 n/a 5.85 5.95 6.07 6.58 6.64 7.08 7.63 7.65 7.78 7.70 7.70 7.70 7.80 7.80 7.80 7.80 7.80 7.80 7.90	mg/L 7 7 7 111 11 25 8 44 62 136 75 133 115 85 117 113 66 306 308 181	mg/L 0.18 < 0.05 0.06 0.61 0.36 1.29 NA 0.03 0.09 0.28 < 0.09 0.08 < 0.05 0.16 0.05 0.06 0.07 0.07 0.09 0.05 0.05 0.05 0.06 0.05 0.06 0.05 0.05 0.06 0.05 0.05 0.05 0.05 0.05 0.06 0.05 0.05 0.05 0.05 0.05 0.05 0.06 0.05 0	0.02 0.98 mg/L 0.00001 0.00002 0.00037 0.00018 0.00193 0.00194 0.00197 0.0005 0.0005 0.00034 0.00034 0.00034 0.00034 0.00034 0.00034		mg/L 142 170 149 145 374 218 246 420 176 294 230 221 291 353 417 624 458	0,001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 5 10 19 13 10 11 6 6 12 8	6.60 5.60 5.90 5.70 5.80 6.20 6.80 4.50 6.00 3.70 7.30 6.71 6.24 6.93 7.8	4.0 7.0 19.5 18.5 8.0 5.0 10.0 5.0 17.8 13.7 8.5 17.2 17.4 8.9 14.8 18.7 11	110 170 130 110 340 280 230 440 170 270
Units - \$\frac{1}{5/21/200}\$ 6/10/2005 7/11/7/2005 8/8/22005 9/25/2005 10/28/2005 10/12/2005 8/19/2006 10/14/2006 8/3/2005 9/2/2005 5/16/2000 10/14/2006 8/29/2006 10/17/2006 8/29/2006 5/15/2000 10/17/2006 5/15/2000 10/18/2000 5/15/2000 10/18/2000 5/12/2005 8/29/2006 8/29/2006		mg/L	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0002 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	mg/L 0.008 - 0.006 - < 0.005 - 0.056 - < 0.005 - 0.036 - 0.072 - 0.092 - 0.100 - 0.250 - 0.200 - 0.010 - < 0.005 - < 0.005 - 0.005 -	mg/L 4.5 6.2 5.3 3.6 15.6 15.6 8.5 8.8 10.2 5 17 10 8 21 14 21 14 21	mg/L <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	mg/L < 0.2 < 0.1 <	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 11.1 10.4 11.0 30.0 33.0 33.0 33.0 32.0 62.0 23.0	6.5 - 8.5 n/a 5.85 5.85 5.87 6.07 6.58 6.64 7.08 7.63 7.78 7.70 7.70 7.80 7.40 7.90 7.90 7.80 8.00 7.80 7.	mg/L 7 7 7 11 11 11 25 8 44 62 136 75 133 115 85 117 113 66 308 181 121 181	mg/L 0.18 < 0.05 0.06 0.61 0.36 1.29 NA 0.03 0.09 < 0.08 < 0.04 0.04 0.05 0.08 < 0.08 < 0.08 < 0.05 0.08 < 0.08 < 0.09 <	0.02 0.96 mg/L 0.0001 0.00003 0.0001 0.00015 0.00193 0.00194 0.00197 <0.0005 0.00037 0.00193 0.00194 0.00194 0.0005 0.00034 0.00034 0.00034 0.00194 0.0005 0.00041 0.00141 0.00141 0.00141 0.00141 0.00141 0.00141		mg/L 142 170 149 145 374 218 246 420 175 294 230 221 291 353 417 624 458 370 402	0,001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 6 5 10 11 13 10 11 6 12 8 8 15 15 10 8 15 15 10 10 10 10 10 10 10 10 10 10 10 10 10	6.60 5.60 5.90 5.70 5.80 6.20 6.80 4.50 6.71 6.24 6.93 7.6 7.21 7.5	4.0 7.0 19.5 18.5 8.0 2.0 5.0 10.0 5.0 17.8 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4	110 170 130 110 340 280 230 440 170 270 20
Units - \$\frac{5}{21/200}\$ \$\text{6/10/200}\$ \$\text{7/17/200}\$ \$\text{8/200}\$ \$\text{9/25/200}\$ \$\text{19/200}\$ \$\text{8/19/200}\$ \$\text{8/19/200}\$ \$\text{9/12/200}\$ \$\text{9/12/200}\$ \$\text{5/16/200}\$ \$\text{8/19/200}\$ \$\text{5/16/200}\$ \$\text{8/19/200}\$ \$\text{5/15/200}\$ \$\text{19/12/200}\$ \$\text{5/15/200}\$ \$\text{19/12/200}\$ \$\text{5/19/200}\$ \$\text{8/19/200}\$ \$\text{8/19/200}\$ \$\text{8/19/200}\$ \$\text{8/19/200}\$ \$\text{8/19/200}\$		mgA	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0002 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.05	mg/L 0.008  0.006  0.006  0.005  0.036 0.072 0.092  0.100 0.250  0.200 0.010  0.005	mg/L 4.5 6.2 5.3 3.6 15.6 8.5 15.6 8.5 8.8 10.2 5 17 10 8 21 30 14 21 14 10 <1 17 12 <1	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.0 < 0	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 11.1 10.4 11.0 14.0 30.0 105.0 33.0 52.0 42.2 48.1 45.2 48.1 11.1 44.0 45.2 46.1 46.1 46.1 46.1 46.1 46.1 46.1 46.1	6.5 - 8.5 n/a 5.85 5.95 5.87 6.07 6.69 7.05 7.03 7.55 7.79 7.70 7.80 7.	mg/L 7 7 7 11 11 125 8 44 62 136 75 133 115 85 117 113 66 306 181 181 121	mg/L 0.18 < 0.03 0.05 0.06 0.61 0.36 1.29 NA 0.03 0.09 0.26 0.08 < 0.05 0.14 0.46 0.05 0.14 0.46 0.56 0.67 0.67 0.68	0.02 0.96 mg/L 0.0001 0.0002 0.0003 0.0001 0.0003 0.0001 0.00019 0.00193 0.00194 0.00197 0.0005 0.0034		mg/L 142 170 149 145 374 218 246 420 175 294 230 221 291 353 417 624 458 370	0,001 mg/L <0,001 <0,001 <0,001 <0,001 <0,001 <0,001 <0,001 <0,001 <0,001 <0,001 <0,001 <0,001 0,002 <0,001 0,001 0,001 0,001 0,001 0,001 0,001 0,001 0,001 0,001 0,001	mg/L 15 9 8 15 10 6 6 5 10 19 13 10 11 16 6 12 8 8	6.60 5.60 5.90 5.70 5.80 5.80 6.20 6.80 4.50 6.00 7.30 6.71 6.24 6.93 7.6 7.21 7.5	4.0 7.0 19.5 18.5 8.0 5.0 10.0 17.8 13.7 17.4 8.5 16.7 11 10.9	110 170 130 110 340 280 230 440 170 270 20
Units - \$721/200   8/10/200   7/11/200   9/10/200   7/11/200   9/25/200   9/25/200   9/25/200   9/25/200   9/25/200   9/200		mgA	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005	mg/L 0.008  0.006  < 0.005  0.056  < 0.005  0.036  0.072  0.092  0.100  0.250  0.200  0.010  <0.005	mg/L 4.5 6.2 5.3 3.6 15.6 15.6 8.5 8.8 10.2 5 17 10 8 21 30 14 21 14 10 <1 17 12	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 <	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 11.1 10.4 11.0 14.0 1.0 30.0 33.0 52.0 23.0 < 2 48.0	6.5 - 8.5 n/a 5.85 5.95 5.87 6.97 6.97 6.58 6.64 7.05 7.65 7.75 7.70 7.70 7.80 7.80 7.80 8.90 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.	mg/L 7 7 7 11 25 8 44 62 136 76 133 115 85 1117 113 66 181 121 181 280 99	mg/L 0.18 < 0.03 0.05 0.06 0.61 0.36 1.29 NA 0.03 0.09 0.08 < 0.05 0.14 0.05 0.08 < 0.05 0.08 < 0.05 0.08 < 0.05 0.09	0.02 0.96 mg/L 0.0001 0.0003 0.0001 0.0003 0.00015 0.00193 0.00114 0.00197 0.0005 0.0005 0.00034 0.00141 0.00054 0.00054		mg/L 142 170 149 145 374 337 218 246 420 176 294 230 221 291 353 417 624 458 370 402 656 322	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.001 0.001 <0.001 0.001 <0.001 0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 5 10 19 13 10 11 6 6 8 8 8 10 10 10 10 10 10 10 10 10 10 10 10 10	6.60 5.60 5.90 5.70 5.60 5.80 6.20 6.80 4.50 6.7.30 6.71 6.24 6.93 7.6 7.37 7.37 7.37 7.37 7.37 7.37 7.37	4.0 7.0 19.5 18.5 8.0 2.0 10.0 5.0 117.8 13.7 8.5 17.2 17.4 18.9 14.8 19.2 14.8 16.9 7.4 16.9 7.4	110 170 130 110 340 280 230 440 170 270 20 687
Units - \$21/200   \$71/17/200   \$71/17/200   \$8/6/200   \$9/25/200   \$1/28/200   \$7/28/200    \$7/28/200   \$7/28/200   \$7/28/200   \$7/28/200   \$7/28/200    \$7/28/200   \$7/28/200     \$7/28/200     \$7/28/200     \$7/28/200     \$7/28/200     \$7/28/200     \$7/28/200     \$7/28/200     \$7/28/200     \$7/28/200       \$7/28/200      \$7/28/200      \$7/28/200      \$7/28/200      \$7/28/200      \$7/28/200      \$7/28/200      \$7/28/200       \$7/	no sample	mgA	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0002 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.05	mg/L 0.008  0.006  0.006  0.005  0.036 0.072 0.092  0.100 0.250  0.200 0.010  0.005	mg/t. 4.5 6.2 5.3 3.6 15.6 15.6 8.5 10.2 17 10 8 21 14 21 14 10 <1 17 12 <1 19 28	mg/L <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 <	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 11.1 10.4 11.0 30.0 33.0 33.0 33.0 33.0 40.4 48.1 14.0 10.0 30.0 30.0 30.0 30.0 30.0 30.0 40.0	6.5 - 8.5 n/a 5.85 5.95 5.87 6.07 6.07 6.08 7.05 7.69 7.79 7.70 7.60 7.80 7.80 7.80 7.90 7.90 7.90 7.90 7.90 8.00 8.	mg/L 7 7 11 11 25 8 44 62 136 75 133 115 85 1117 117 113 66 181 121 181 280 99 188 147 159	mg/L 0,18 <0.03 0.05 0.06 0.61 0.36 1.29 NA 0.03 0.09 0.26 0.08 <0.05 0.16 0.36 0.08 <0.05 0.17 0.05 0.17 0.09 0.16	0.02 0.96 mg/L 0.0001 0.0001 0.0002 0.0003 0.00015 0.0018 0.0018 0.0019 0.0019 0.0005 0.0005 0.0005 0.0005 0.0005 0.0018		mg/L 142 170 149 145 374 337 218 246 420 175 294 230 221 291 353 417 624 458 370 402 656 322 438 514 455	0,001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.001 <0.001 0.001 <0.001 0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 6 5 10 11 11 11 11 6 12 8 6 9 9 4 10 6 7 9	6.60 5.60 5.90 5.70 5.60 5.80 6.20 4.50 6.00 4.50 6.00 7.37 7.31 6.24 6.93 7.6 7.21 7.37 7.36 7.37 7.36 7.37 7.36 7.37 7.36 7.37 7.36 7.37 7.36 7.37 7.36 7.37 7.36 7.37 7.36 7.37 7.36 7.36	4.0 7.0 19.5 8.0 2.0 10.9 5.0 17.8 13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 16.7 17.4 17.4 16.7 17.4 16.7 17.4 17.4 17.4 17.4 17.4 17.4 17.4 17	110 170 130 110 340 280 230 440 170 270 20 687
Units - 5/21/2005 6/10/2003 7/11/2000 7/11/2000 8/6/2003 8/6/2003 8/19/2000 8/19/2000 10/12/2000 8/19/2000 10/14/2004 8/3/2000 9//2/2000 10/14/2004 8/3/2000 10/12/12/2005 5/16/2000 8/15/2000 10/17/2000 8/15/2000 8/15/2000 10/17/2000 8/15/2000 10/17/2000 8/15/2000 10/17/2000 8/15/2000 10/17/2000 10/18/2000 10/19/2000	no sample	mgA	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	mg/L 0.008  -0.006  -0.005	mg/t. 4.5 6.2 5.3 3.6 15.6 15.6 15.6 8.5 8.8 10.2 17 10 8 21 11 11 11 11 12 20 19 28 19 27	mg/L <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 <	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 11.1 10.4 11.0 1.0 30.0 52.0 23.0 48.0	6.5 - 8.5 n/a 5.85 5.87 6.58 6.64 7.08 7.65 7.65 7.70 7.10 7.70 7.10 7.80 8.00 7.80 8.00 7.80 8.10 8.01 7.80 8.10	mg/L 7 7 7 11 11 125 8 44 62 138 62 138 115 85 117 113 115 85 117 113 280 99 188 147 159	mg/L 0,18 <0,03 0.05 0.06 0.61 0.36 1.29 NA 0.03 0.05 0.08 0.09 0.26 0.08 <0.05 0.14 0.46 0.05 0.59 0.09 0.05 0.10 0.05 0.05 0.16 0.05 0.05 0.16	0.02 0.96 mg/L 0.00001 0.00002 0.00003 0.00010 0.00015 0.00193 0.00141 0.0005 0.0005 0.0005 0.0006 0.000771 <<0.0005 0.000771 <<0.0005 0.000771 <<0.0005 0.000771		mg/L 142 170 149 145 374 337 218 246 420 176 294 230 176 291 353 417 624 427 626 370 402 428 514 455	0,001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 5 10 19 13 10 11 6 8 8 10 8 8 10 8 8 10 8 8 10 8 10	6.60 5.60 5.90 5.70 5.80 6.80 6.80 4.50 6.00 3.70 6.71 6.21 7.5 7.2 7.6 7.3 7.6 7.3 7.6 7.3 7.6 7.3 7.6 7.3 7.6 7.3 7.6 7.3 7.6 7.3 7.6 7.3 7.6 7.3 7.6 7.6 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.7	4.0 7.0 19.5 18.5 8.0 2.0 5.0 5.0 10.0 5.0 17.8 13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 n/a 16.9 7.4 20.5 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0	110 170 130 110 340 280 230 440 170 270 20 687
Units - \$721/2005 6/10/2005 7/17/2005 8/6/2005 9/25/2005 10/28/2005 5/26/2006 8/19/2006 10/14/2006 5/16/2006 8/29/2006 10/17/2006 5/15/2007 10/18/2007 10/	no sample	mgA	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	mg/L 0.008 - 0.006 - 0.005 - 0.056 - 0.005 - 0.072 0.092 - 0.100 0.250 - 0.005 - 0.005 - 0.005 - 0.005 - 0.005 - 0.005 - 0.001 - 0.010	mg/t. 4.5 6.2 5.3 3.6 15.6 15.6 15.6 8.8 10.2 10.2 11 10 11 11 11 11 11 12 20 19 28 19 27 24	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.3 < 0.3 < 0.01 < 0.01  0.01	mg/L  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1	39.0 53.8 44.0 39.3 40.4 45.2 48.1 10.4 11.0 10.9 10.5 10.0	6.5 - 8.5 n/a 5.85 5.87 6.07 6.58 6.68 7.65 7.65 7.76 7.70 7.10 7.10 7.10 7.40 8.00 7.50 8.10 7.50 8.10 8.01 8.01 8.01 7.78	mg/L 7 7 7 11 11 11 25 8 44 62 138 75 133 115 85 117 113 66 308 181 181 181 181 280 99 188 147 159 254 162 262 185	mg/L 0,18 <0,03 0.05 0.06 0.61 0.36 1,29 NA 0.03 0.09 0.26 0.08 <0.05 0.14 0.05 0.09 <0.05 0.17 0.09 0.16 0.09 0.17 0.09 0.16 0.09 0.17 0.09 0.16 0.09 0.16 0.09 0.17 0.09 0.16 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0	0.02 0.96 mg/L 0.0001 0.0002 0.0003 0.0001 0.0002 0.00037 0.00193 0.00194 0.00194 0.00197 0.0005 0.00037 0.000141 0.00194 0.00194 0.00195 0.00034 0.00141 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005		mg/L 142 170 149 145 374 337 218 246 420 176 294 230 176 221 291 353 417 624 458 370 402 438 514 455 779 562 691 502 510	0,001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 5 10 19 13 10 11 16 6 9 9 4 10 8 7 9 4 6 4 10	6.60 5.60 5.90 5.70 5.80 6.80 6.80 4.50 6.00 3.70 6.71 7.21 7.5 7.37 7.06 7.35 7.37 7.06 7.35 7.74 7.72 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.75 6.64 7.74 7.75 6.64 7.74 7.75 6.64 7.75 7	4.0 7.0 19.5 18.5 8.0 2.0 5.0 10.0 5.0 17.8 13.7 8.5 17.2 17.8 14.8 16.7 11 10.9 20.4 4.8 16.9 7.4 20.2 16.9 16.9 16.9 16.9 17.8 16.9 16.9 16.9 16.9 16.9 16.9 16.9 16.9	110 170 130 110 340 280 230 230 440 170 270 20 687 309 326 480 498 498 430 692 784 490 699 609 609
Units - \$721/200   8/10/200   8/10/200   7/11/7/200   8/10/200   9/25/200   9/25/200   8/19/200   8/19/200   9/25/200   10/14/200   8/3/200   9/2/200   10/14/200   8/3/200   9/2/200   10/17/200   8/29/200   10/17/200   8/29/200   10/17/200   8/29/200   10/18/200   8/29/200   10/18/200   8/29/200   10/24/200   8/29/200   10/24/200   8/29/200   10/24/200   10/24/200   8/29/200   10/24/200   8/29/200   10/24/200   8/29/200   10/24/200   8/29/200   10/24/200   8/29/200   10/24/200   8/29/200   10/24/200   8/29/200   10/24/200   8/29/200   10/24/200   8/29/200   10/24/200   8/29/200   10/24/200   8/29/200   10/24/200   8/29/200   10/24/200   8/29/200   10/24/200   8/29/200   10/24/200   8/29/200   10/24/200   8/29/200   10/24/200   8/29/200   10/24/200   8/29/200   10/24/200   8/29/200   10/24/200   8/20/200   10/24/200   8/20/200   8/20/200   8/20/200   8/20/200   8/20/200   8/20/200   8/20/200   10/24/200   8/20/200   8/20/200   8/20/200   8/20/200   10/24/200   8/20/	no sample	mgA	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	mg/L 0.008  -0.006  -0.005	mo/t. 4.5 6.2 5.3 3.6 15.6 15.6 15.6 8.8 8.5 10.2 6 10.3 10.3 10.3 11 10.3 11 10.3 11 11 10.3 11 11 10.3 11 10.3 11 10.3 11 10.3 11 10.3 10.3	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 10.4 11.0 1.0 105.0 33.0 62.0 42 48.0 35.0 62.7 71.0	6.5 - 8.5  n/a  5.85  5.87  6.07  6.58  6.64  7.65  7.69  7.70  7.10  8.00	mg/L 7 7 7 11 11 11 125 8 44 62 136 62 138 115 85 117 113 66 308 181 121 181 280 99 188 147 159 188 147 159 254 182 262 185 170 400 310	mg/L 0,18 <0,03 0.05 0.06 0.06 1,29 NA 0.03 0.09 0.28 <0.05 0.14 0.05 0.50 0.70 0.70 0.70 0.70 0.70 0.70	0.02 0.96 mg/L 0.0001 0.0002 0.0003 0.0001		mg/L 142 170 149 145 374 337 218 246 420 175 291 221 291 353 417 624 455 370 402 656 322 438 514 455 779 552 691 502 510 1000	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 5 10 19 13 10 11 11 6 6 9 9 4 10 9 9	6.60 5.60 5.90 5.70 5.80 6.80 6.80 4.50 6.00 7.30 6.73 6.24 6.93 7.6 7.21 7.5 7.06 7.37 7.06 7.36 7.37 7.06 7.37 7.06 7.36 7.37 7.42 8.44 7.42 8.14 7.42 8.44 7.44 8.44 7.44 8.44 7.45 8.44 7.45 8.	4.0 7.0 19.5 18.5 8.0 2.0 10.0 5.0 17.8 13.7 8.5 17.2 17.4 14.8 16.7 11 10.9 20.4 8.4 n/s 16.9 7.4 11.8 16.9 7.4 11.8 11.8 11.8 11.8 11.8 11.8 11.8 11	110 170 130 110 340 280 230 440 170 270 20 687 687
Units - 5/21/200 6/10/200 6/10/200 6/10/200 7/11/200 6/10/200 5/26/200 6/26	no sample	mgA	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0002 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	mg/L 0.008  0.006  < 0.005  0.056 < 0.005  0.036  0.072  0.092  0.100  0.250  0.010  <0.005  <0.005  <0.0005  <0.001  <0.011  <0.011	moh     4.5     6.2     5.3     6.6     15.6     15.6     15.6     10.2     10     21     30     14     10     21     10     21     11     22     12     22     12     23     24     25     26     27     28     27     28     29     29     20     21     22     21     22     23     24     25     26     27     27     28     28     29     20     2	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 <	39.0 53.8 44.0 39.3 40.4 45.2 48.1 11.1 10.4 11.0 30.0 33.0 33.0 33.0 52.0 23.0 48.0 48.1 11.1 10.4 11.0 10.0 30.0	6.5 - 8.5  n/a  5.85  5.95  5.87  6.07  6.07  6.08  7.05  7.69  7.79  7.70  7.60  7.80  8.00	mg/L 7 7 7 11 11 11 125 8 44 62 136 75 133 115 85 117 117 113 66 181 121 181 280 99 188 147 169 254 169 254 169 262 185 170 400	mg/L 0,18 <0.03 0.05 0.06 1.29 0.08 <0.09 0.26 0.09 <0.05 0.06 0.30 0.09 0.28 0.09 0.10 0.10 0.10 0.10 0.10 0.10 0.10	0.02 0.96 mg/L 0.0001 0.0001 0.0002 0.00037 0.00015 0.00193 0.00194 0.00197 0.0005 0.0005 0.0005 0.0005 0.0005 0.00126 0.00126 0.0005		mg/L 142 170 149 145 374 337 218 246 420 175 294 230 221 291 353 417 624 458 370 402 656 657 779 552 691 502 510	0,001 my/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 6 5 10 19 13 10 11 6 12 8 8 9 4 10 6 7 9 4 4 10 9	6.60 5.60 5.90 5.70 5.80 6.20 6.80 4.50 6.70 7.30 6.71 6.24 6.93 7.6 7.21 7.37 7.06 7.37 7.36 7.52 7.74 7.42 8.14 7.68 7.76 7.76 7.37	4.0 7.0 19.5 18.5 8.0 2.0 10.0 5.0 11.0 5.0 17.8 13.7 17.2 17.4 18.9 14.8 19.2 14.8 16.9 7.4 11.8 16.9 7.4 11.8 11.8 11.8 11.8 11.8 11.8 11.8 11	110 170 130 110 340 280 230 440 170 270 20 697 697 309 326 480 498 430 692 784 490 699 509 540 1259 694 604
Units - 5/21/200 5/21/200 6/10/200 7/11/200 6/10/200 7/11/200 6/10/200 9/25/200 10/28/200 9/25/200 10/14/200 6/3/200 9/2/200 5/19/200 6/3/200 6/3/200 6/3/200 6/3/200 6/3/200 6/3/200 6/3/20	no sample	mgil	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	mg/L 0.008  0.006  <0.005  0.056 <0.005  0.036  0.072  0.100  0.250  0.010  <0.005  <0.005  <0.005  <0.005  <0.005  <0.001  <0.01  <0.01  <0.01  <0.01	mo/L 4.5 6.2 5.3 3.6 16.6 15.6 15.6 15.6 17 10 20 21 10 41 10 21 21 11 12 21 11 12 21 19 28 19 27 24 26 61 62 31	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 11.1 10.4 11.0 14.0 1.0 105.0 33.0 62.0 42 74.0 35.0 52.0 42 74.0 36.0 51.0 51.0 27.0 31.0 31.0 51.0 31.0 51.0 31.0 51.0 31.0 51.0 51.0 51.0 51.0 51.0 51.0 51.0 5	6.5 - 8.5  n/a  5.85  5.87  6.07  6.07  6.08  7.65  7.69  7.70  7.70  7.70  7.80  7.80  7.80  8.00  7.80  8.00  7.80  8.00  7.80  7.80  8.00  7.80  7.80  8.00  7.80	mg/L 7 7 7 11 11 11 125 8 44 62 136 67 75 133 115 85 117 113 66 181 121 181 1281 280 99 188 147 159 188 147 159 254 182 265 170 400 310 220 440	mg/L 0,18 <0,03 0.05 0.06 1.29 NA 0.03 0.09 0.20 <0.05 0.06 0.36 0.09 <0.05 0.17 0.09 0.17 0.09 0.16 <0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.05 0.17 0.09 0.16 0.05 0.05 0.17 0.09 0.16	0.02 0.96 mg/L 0.00001 0.00001 0.00002 0.00037 0.00193 0.00114 0.00197 0.0005 0.00037 0.00031		mg/L 142 170 149 145 374 337 218 246 420 175 294 423 221 291 353 417 624 458 370 402 656 372 438 514 455 502 510 960 620	0,001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 6 5 10 19 19 10 11 16 6 6 6 10 19 19 10 10 11 16 10 10 10 10 10 10 10 10 10 10 10 10 10	6.60 5.60 5.90 5.70 5.80 6.80 6.80 6.00 3.70 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.36 7.37 7.6 7.37 7.6 8.4 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.76 6.64 7.76 6.74 7.76 6.77 7.76 6.77 7.76 7.76 7.76	4.0 7.0 19.5 18.5 8.0 2.0 5.0 10.0 5.0 17.8 13.7 8.5 17.2 17.8 14.8 16.7 11 10.9 20.4 8.4 n/a 16.9 7.4 20.2 16 5.1 11.1 11.1 4.9 18.1 4.9 18.1 19.4 5.7 10.6	110 170 130 110 340 280 230 440 170 270 20 687 687
Units - 5/21/200   5/21/200   6/10/200   7/11/200   7/11/200   9/25/200   10/28/200   10/28/200   10/28/200   10/28/200   10/14/200   8/3/200   9/2/200   10/14/200   8/3/200   9/2/200   10/17/200   5/15/200   10/17/200   8/15/200   10/17/200   10/24/201   10/24/201    10/24/201   10/24/201   10/24/201   10/24/201   10/24/201   10/24/201   10/24/201   10/24/201   10/24/201   10/24/201   10/24/201   10/24/201   10/24/201   10/24/201   10/24/201   10/24/201    10/24/201   10/24/201   10/24/201   10/24/201   10/24/201    10/24/201    10/24/201    10/24/201    10/24/201    10/24/201   10/24/201    10/24/201    10/24/201    10/24/201    10/24/201    10/24/201	no sample	mgA	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	mg/L 0.008 - 0.006 - 0.005 - 0.005 - 0.005 - 0.005 - 0.005 - 0.005 - 0.005 - 0.005 - 0.005 - 0.001 - 0.001 - 0.01 - 0.01 - 0.01 - 0.01 - 0.070 - 0.020	month   mont	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 110.4 11.0 14.0 1.0 30.0 105.0 33.0 42.2 48.1 30.0 40.2 71.0 30.0 31.0 40.4 35.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 4	6.5 - 8.5  n/a  5.85  5.87  6.07  6.08  7.65  7.69  7.70  7.70  7.70  7.80  7.80  7.80  7.80  8.00  7.80  8.00  7.80  8.00  7.80	mg/L 7 7 7 11 11 11 125 8 44 62 136 67 75 133 115 85 117 113 66 181 121 181 128 188 147 159 188 147 159 188 147 159 262 27 185 170 310 220 310 220	mg/L 0,18 <0,03 0.05 0.06 1,29 NA 0.03 0.09 0.08 <0.05 0.06 0.08 <0.05 0.17 0.09 0.17 0.09 0.16 <0.05 <0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0	0.02 0.96 mg/L 0.0001 0.0001 0.0002 0.00037 0.00015 0.00193 0.00194 0.00197 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.00126 0.00130		mg/L 142 170 149 145 374 337 218 246 420 175 291 221 291 353 417 624 458 370 402 656 372 458 577 624 458 370 1000 600 960 600	0,001 my/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 6 5 10 19 19 10 11 16 6 6 6 10 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	6.60 5.60 5.90 5.70 5.60 5.80 6.20 6.80 4.50 6.00 7.30 6.71 6.24 6.93 7.6 7.37 7.36 7.37 7.36 7.37 7.66 4.50 6.00 7.37 7.36 7.37 7.36 7.52 7.74 7.72 6.64 7.79 6.79 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.90 7	4.0 7.0 19.5 8.0 2.0 10.0 17.8 13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 n/a 16.9 11.8 11.8 11.8 11.8 11.8 11.8 11.8 11	110 170 130 110 340 280 230 440 170 270 20 687 309 326 480 490 490 692 784 490 699 609 540 1259 694 604 1297 801 556
Units - 5/21/2005 67/21/2006 67/10/2005 77/17/2005 68/2/2005 97/25/2005 87/9/25/2005 87/9/25/2005 87/9/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/2005 97/25/25/2005 97/25/25/2005 97/25/25/2005 97/25/25/25/25/25/25/25/25/25/25/25/25/25/	no sample	mgA	mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	mg/L 0.008 -0.006 -0.005 -0.00	month	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 11.1 10.4 11.0 14.0 1.0 30.0 30.0 33.0 62.0 42 48.0 42 74.0 33.0 62.0 62.0 62.0 62.0 62.0 62.0 62.0 62	6.5 - 8.5  n/a  5.85  5.87  6.07  6.07  6.58  6.58  7.69  7.65  7.69  7.70  7.60  7.40  7.80  8.00  7.40  7.80  8.01  7.80  8.01  7.80  8.01  7.80  8.01  7.80  7.00  7.	mg/L 7 7 7 11 11 11 125 8 44 62 136 75 133 115 85 1117 113 66 181 121 181 280 99 188 147 169 254 189 254 189 262 185 170 310 220 440 340 340 220 240 257 380 200 200 200	mg/L 0,18 <0.05 0.06 1.29 NA 0.09 0.26 <0.05 0.06 0.30 0.09 0.20 0.08 <0.05 0.17 0.09 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.16 0.16 0.16 0.16 0.16 0.16 0.16	0.02 0.96 mg/L 0.0001 0.0001 0.0002 0.00037 0.00015 0.00193 0.00193 0.00194 0.00195 0.00195 0.00196 0.00197 0.00197 0.00197 0.0005 0.00197 0.00197 0.00197 0.00197 0.00197 0.00197 0.00197 0.00198		mg/L 142 170 149 145 374 337 218 246 420 175 294 230 221 291 353 417 624 458 370 402 656 657 691 600 600 940 1000 940 1000 600 7400 600 7400	0,001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.001 <0.001 0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 6 5 10 11 11 11 6 12 8 6 9 4 10 6 9 4 10 9 9 10 6 6 10 9 9 4 10 6 6 4 10 9 9 4 10 6 6 6 4 10 9 9 4 10 6 6 6 4	6.60 5.60 5.90 5.70 5.60 5.80 6.20 6.80 4.50 6.24 6.93 7.6 7.37 7.36 7.37 7.36 7.37 7.52 7.74 7.72 6.64 7.72 6.64 7.75 7.74 7.75 8.14 7.68 7.76 8.17 7.61 8.17 7.61 8.17 7.61 8.17 7.65 8.17 7.65 8.17 7.65 8.17 7.65 8.17 7.65 8.17 7.65 7.65 7.65 7.65 7.76 8.17 7.66 8.17 8	4.0 7.0 19.5 8.0 2.0 10.0 5.0 10.0 17.8 13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 16.7 11.8 11.8 11.8 11.8 11.8 11.8 11.8 11	110 170 130 110 340 280 230 440 170 270 20 687 687 687 699 430 699 490 699 609 540 691 1259 694 604 1259 694 604 1259 695 697 607 607 607 607 607 607 607 607 607 60
Units - 5/21/2005 6/10/2005 6/10/2005 6/10/2005 7/11/7/2005 8/6/2005 8/6/2005 8/19/2006	no sample	тgЛ 48.5	**mg/L < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.005  < 0.005  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05	mg/L 0.008 - 0.006 - 0.005 - 0	month   mont	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 10.4 11.0 1.0 30.0 105.0 33.0 62.0 23.0 48.0 22.7 48.0 35.0 89.0 27.0 13.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27	6.5 - 6.5 n/a 5.85 5.95 5.87 6.07 6.58 6.04 7.05 7.69 7.79 7.70 7.80 7.80 7.80 8.00 7.80 8.00 7.80 8.00 7.80 8.00 7.80 8.00 7.80 8.00 7.80 8.00 7.80 8.00 7.80 7.80 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 7.80 8.00 7.70 7.80 8.10 7.70 7.80 8.10 7.70 7.80 8.10 7.70 7.70 8.10 7.70 7.70 8.10 7.70 7.70 8.00 7.70 7.70 8.00 7.70 7.70 8.00 7.70 7.70 8.00 7.70 7.70 8.00 7.70 7.70 8.00 7.70 7.70 8.00 7.70 7.70 8.00 7.70 7.70 8.00 7.70 8.00 7.70 7.70 8.00 7.70 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 8.	mg/L 7 7 7 11 11 11 25 8 44 62 136 76 133 75 133 115 85 1117 113 66 181 121 181 280 188 147 159 284 182 284 180 280 290 440 340 210 570 380 290 280 590 3390	mg/L 0,18 <0.03 0.05 0.06 1.29 NA 0.09 0.08 <0.05 0.08 <0.05 0.08 <0.05 0.08 <0.05 0.14 0.14 0.16 0.05 0.23 0.05 0.17 0.05 0.05 0.17 0.05 0.05 0.17 0.05 0.05 0.17 0.05 0.05 0.17 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0	0.02 0.96 mg/t 0.00001 0.00001 0.00002 0.00037 0.00015 0.00193 0.00193 0.00194 0.00197 0.0005 0.0005 0.0005 0.00130 0.00141 0.00196 0.0005 0.0005 0.00130 0.0005 0.0005 0.00160 0.00160 0.001662 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005 0.001628 0.0005		mg/L 142 170 149 145 374 337 218 246 420 175 294 230 221 353 417 624 458 370 402 656 322 438 451 455 779 552 691 1000 960 1100 960 1400 680 14000 680 14000 680 14000 680 853 976	0.001 mg/L <0.001 0.001	mg/L 15 9 8 15 10 6 6 6 5 10 11 11 11 6 12 8 6 9 4 10 9 9 4 10 6 6 7 10 6 6 7	6.60 5.60 5.90 5.70 5.60 5.80 6.20 6.80 4.50 6.00 6.77 7.31 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.72 7.72 6.64 7.72 6.68 7.73 7.74 7.72 6.68 7.76 7.79 7.79 6.70 7.70 7.70 6.70 7.70 7.70 6.70 7.70 6.70 7.70 7.70 7.70 6.70 7.70 6.70 7.70 6.70 7.70 6.70 7.70 6.70 7.70 6.70 6.70 7.70 6.70 7.70 6.70 6.70 7.70 6.	4.0 7.0 19.5 18.5 8.0 2.0 10.0 5.0 17.8 13.7 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 16.9 7.4 20.2 16 5.1 11.8 19.4 5.7 11.8 19.4 5.7 14.8 19.4 5.7 14.8 19.6 6 18.8 19.9 6.6	110 170 130 110 340 280 230 440 170 270 20 687 687 309 326 480 490 692 784 490 692 784 490 692 784 490 692 784 490 692 784 490 693 694 694 694 694 695 695 695 695 695 695 695 695 695 695
Units - 5/21/2002 6/10/2003 7/17/2003 6/10/2003 7/17/2003 8/6/2003 8/6/2003 8/19/2000	no sample		**CONTINUE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOT	mg/L 0.008 - 0.006 - 0.005 - 0	mo/L 4.5 6.2 5.3 6.2 5.3 16.6 15.6 15.6 15.6 15.6 10.2 10 10 21 11 10 21 11 21 11 21 12 21 14 21 10 21 14 21 10 21 14 21 10 21 21 41 21 10 21 41 21 41 21 41 41 21 41 41 41 41 41 41 41 41 41 41 41 41 41	mg/L <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2	mg/L	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 110.4 111.0 14.0 10.5 105.0 33.0 <22 48.0 35.0 <22 74.0 36.0 37.0 38.0 31.0 31.0 31.0 31.0 31.0 31.0 31.0 31	6.5 - 8.5  n/a  5.85  5.87  6.07  6.08  7.65  6.68  7.69  7.70  7.10  8.00  7.80  7.80  7.80  7.80  7.80  7.80  8.00  8.00  8.00  8.00  8.00  8.00  8.00  8.00  8.00  8.00  8.00  8.00  7.00  7.80  8.10  8.10  7.88  8.10  7.88  8.10  7.96  7.96  7.96  7.97  7.77  7.78  7.98  7.96  7.96  7.97  7.99  7.99	mg/L 7 7 7 11 11 11 125 8 44 62 136 67 133 115 85 117 113 66 306 181 121 181 1281 280 99 188 147 159 188 147 159 254 180 200 240 340 210 340 2570 380 590 280 590	mg/L 0,18 <0,03 0.05 0.06 1,29 0.08 0.09 0.26 0.08 0.09 0.08 0.09 0.09 0.09 0.09 0.09	0.02 0.96 mg/L 0.0001 0.0002 0.0003 0.0001 0.0002 0.0003 0.00016 0.00193 0.00114 0.00197 0.0005 0.0005 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0005		mg/L 142 170 149 145 374 337 218 246 420 175 294 423 221 291 291 458 370 402 656 322 438 514 455 779 562 691 100 960 620 1100 940 580 600 740 1600 740	0.001 my/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 15 9 8 15 10 6 6 5 10 19 13 10 11 11 6 6 7 9 9 4 10 6 6 7 9 10 6 6 8 4 4 7	6.60 5.60 5.90 5.70 5.60 5.80 6.20 6.80 4.50 6.00 3.70 7.30 6.71 7.30 6.73 7.62 7.37 7.06 7.37 7.06 7.37 7.06 7.37 7.06 7.37 7.52 7.74 7.74 7.74 8.14 7.76 8.37 7.75	4.0 7.0 19.5 18.5 8.0 2.0 10.0 5.0 10.0 5.0 17.8 13.7 17.2 17.4 14.8 16.7 11 10.9 20.4 8.4 10.9 7.4 11.8 11.8 11.8 11.8 11.8 11.8 11.8 11	110 170 130 110 340 280 230 440 170 270 20 687 687 687 699 430 699 490 699 609 540 691 1259 694 604 1259 694 604 1259 695 697 607 607 607 607 607 607 607 607 607 60
Units - 5/21/2003   6/10/2003   7/17/2003   6/10/2003   7/17/2003   6/20/2003	no sample  Duplicato		**mg/L < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.005  < 0.005  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05	mg/L 0.008 - 0.006 - 0.005 - 0	mo/L	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.2  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1	39.0 53.8 44.0 39.3 114.0 95.3 40.4 45.2 48.1 10.4 11.0 1.0 30.0 105.0 33.0 62.0 23.0 48.0 22.7 48.0 35.0 89.0 27.0 13.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27	6.5 - 6.5 n/a 5.85 5.95 5.87 6.07 6.58 6.04 7.05 7.69 7.79 7.70 7.80 7.80 7.80 8.00 7.80 8.00 7.80 8.00 7.80 8.00 7.80 8.00 7.80 8.00 7.80 8.00 7.80 8.00 7.80 7.80 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 7.80 8.00 7.70 7.80 8.10 7.70 7.80 8.10 7.70 7.80 8.10 7.70 7.70 8.10 7.70 7.70 8.10 7.70 7.70 8.00 7.70 7.70 8.00 7.70 7.70 8.00 7.70 7.70 8.00 7.70 7.70 8.00 7.70 7.70 8.00 7.70 7.70 8.00 7.70 7.70 8.00 7.70 7.70 8.00 7.70 8.00 7.70 7.70 8.00 7.70 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 7.70 8.00 8.	mg/L 7 7 7 11 11 11 25 8 44 62 136 76 133 75 133 115 85 1117 113 66 181 121 181 280 188 147 159 284 182 284 180 280 290 440 340 210 570 380 290 280 590 3390	mg/L 0,18 <0,03 0.05 0.06 1,29 NA 0.03 0.09 0.20 0.08 <0.05 0.04 0.08 0.08 <0.05 0.17 0.09 0.17 0.09 0.16 <0.05 <0.05 0.17 0.09 0.16 0.16 0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.17 0.09 0.16 0.05 0.05 0.05 0.07 0.09 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.02 0.96 mg/L 0.0001 0.0001 0.0002 0.00037 0.00015 0.00193 0.00194 0.00197 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0016 0.00116 0.00116 0.00116 0.00116 0.00116 0.00116 0.0016		mg/L 142 170 149 145 374 337 218 246 420 175 294 230 221 353 417 624 458 370 402 656 322 438 451 455 779 552 691 1000 960 1100 960 1400 680 14000 680 14000 680 14000 680 853 976	0.001 mg/L <0.001 0.001	mg/L 15 9 8 15 10 6 6 6 5 10 11 11 11 6 12 8 6 9 4 10 9 9 4 10 6 6 7 10 6 6 7	6.60 5.60 5.90 5.70 5.80 6.80 6.80 6.80 6.70 7.30 6.71 6.24 6.93 7.6 7.21 7.37 7.06 7.37 7.06 7.37 7.42 8.14 7.72 7.68 7.76 7.76 7.76 7.76 7.76 7.76 7.76 7.76 7.76 7.76 7.77 7.76 7.76 7.76 7.77 7.76 7.76 7.77 7.76 7.77 7.76 7.77 7.76 7.77 7.76 7.77 7.76 7.77 7.76 7.77 7.76 7.77 7.76 7.77 7.76 7.77 7.76 7.77 7.76 7.77 7.76 7.77 7.76 7.77 7.76 7.77 7.76 7.77 7.76 7.77 7.76 8.37 8.37 8	4.0 7.0 19.5 18.5 8.0 2.0 10.0 5.0 10.0 5.0 17.8 13.7 17.2 17.4 18.9 14.8 19.2 14.8 16.9 7.4 11.8 18.7 11.8 11.8 11.8 11.8 11.8 11.8	110 170 130 110 340 280 230 440 170 270 20 687 687 309 326 480 490 692 784 490 692 784 490 692 784 490 692 784 490 692 784 490 693 694 694 694 694 695 695 695 695 695 695 695 695 695 695

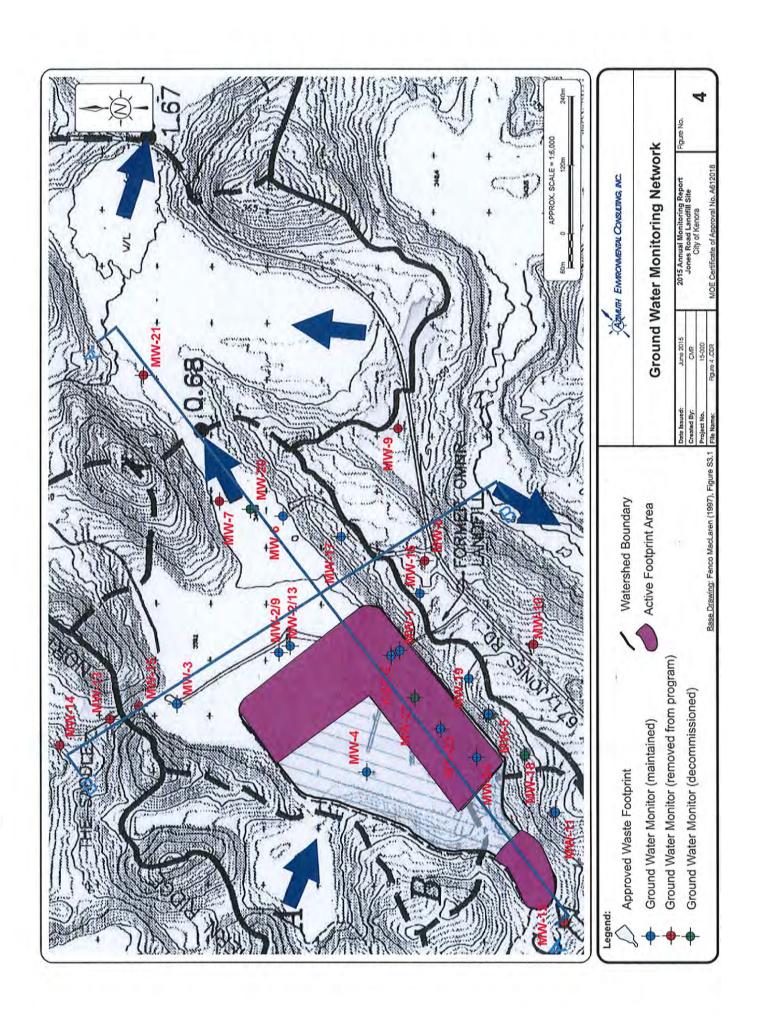
<sup>\*</sup> should not be decreased by more than 25% of the natural concentration

\*\*- action level according to trigger mechanism

Sta	lia		CIA	10
Sta	шо	11: 1	οvv	-2

Parameter -	As	В	Ba	Ca	Cd	Cr	Cu	Fo	Hg	К	Mg	Mri	TDS	TKN	Total P	COD	BOD	TSS
PWQO - Trigger -	0.1	0.2	200		0.0001	0.1	0.005	0.3	0,0002	1000		1000			0.03		100	
Units - 4/8/2003 5/21/2003	mg/L <0.002	mg/L 0.007	mg/L 0.011	mg/L	mg/L <0.0001	mg/L < 0.005	mg/L 0.001	mg/L 1.50 0.36	mg/L < 0.00005	mg/L	/mg/L	mg/L	mg/L	mg/L 0.87	mg/L 9.057	mg/L 47	mg/∟ 5.6	mg/L 6
6/10/2003 7/17/2003	40.002	0.001	0.011		40.0001	- 0.003	0,001	0.48	~ 0.00000				66	0.85 0.84 1.40	0.025 0.019 0.044	63 70 93	0.8 1.0 1.0	5 10 9
8/6/2003 9/25/2003	< 0.002	0.008	0.014	-	< 0.0001	< 0.005	0.940	0.94	< 0.0005				94	1.02	0.033	78 110	< 0.5	2 2
10/28/2003 5/26/2004	< 0.002	0.008	0.020		< 0.0001	< 0.005	0.001	0.54	< 0.00005				170	0.77	0.010	90	0.8	1 4
8/19/2004 10/14/2004	< 0.002 < 0.002	0.010 0.009	0,014 0,017	8,60	< 0.0001 < 0.0001	< 0.005 < 0.005	0.002 < 0.0005	0.95	< 0.0001	5.9	3.4	0.042	138 156	0.98	0.024	105 113	0.9 1.3	1
8/3/2005 9/2/2005	< 0.001	0.016	0.020	16	< 0.0001 < 0.0001	< 0.005 < 0.005	0.003	0.94	0.0001	5.1	4.8	0.120	194	1.10	0.033	77 64	<2 <2	3 8
10/21/2005 5/16/2006 8/29/2006	< 0.001	0.019	0.017		< 0.0001	< 0.005	0.001	0.71	< 0.0001				198 50	0.90 1.50	0.024	73 61	<2 <2	8
10/17/2006 5/31/2007	< 0.2	< 0.02	< 0.02		< 0.005	< 0.1	< 0.02	0.19 0.29	< 0.0001 < 0.0001				105 113 69	1.50 0.60 1.50	0.081 0.009 0.017	60 33 72	< 2 < 2 <2	<1 <1 <1
8/15/2007 10/18/2007	<0.2 <0.2	0.05	0.03		<0.005 <0.005	<0.01 <0.01	<0.02 <0.02	1.6 0.37	<0.0001				146 124	1.70	0.050	110	4	3.0
5/21/2008 8/20/2008	<0.2	0.05	0.05	-	<0.005	<0.01	<0.02	0.41 4.2	<0.0001				150	1.00 2.10	0.010	63 110	<2	<10 40
10/24/2008 5/19/2009 8/18/2009	<0.2	0.04	<0.02		<0.005	<0.01	<0.02	0.33	<0.0003				325	1.60 0.80	0.190	83 71	4	<1 <1
10/22/2009 5/18/2010	<0.2	0.03	<0.02		<0.005	<0.01	<0.02	0.36 0.58	<0.0001				155 140	1.70 1.10 1.40	0.044 0.014 0.019	120 72 75	<2 <2 <2	1 4
8/25/2010 10/21/2010	<0.2 <0.2	0.04	0.03		<0.005	<0.01 <0.01	<0.02 <0.02	1.8 0.36	<0.0001				200 192	1.70	0.073	97 64	<2 <2	2 <1
5/31/2011 8/24/2011	<0.2	0.05	0.03		<0.005	<0.01	<0.02	0.51 0.97	<0.0001				228	1.30	0.050	72 91	<2 <2	3 228
10/25/2011 5/18/2012 8/30/2012	<0,2	0.03	0.02		<0.005	<0.01	<0.02	0.44 0.89	<0.0001				224	7.30 1.10	0.042	68 72	<2 <2	2
10/23/2012 5/24/2013	<0.2	0.03	<0.02		<0.005	<0.01	<0.02	0.37	<0.0001				180 184	1.70 1.30 1.50	0.099 0.011 0.043	96 78 69	<2 <2 <2	11 <1 <1
8/29/2013 10/17/2013	<0.2 <0.2	0.06 0.05	0.048 0.028		<0.005 <0.005	<0.01 <0.01	<0.02 <0.02	1.5	<0.0001				334 272	1.90	0.130	110 96	2	6 <1
5/23/2014 8/21/2014	<0.2	0.1	0.085		<0.005	<0.01	<0.02	0.26 3.8	<0.0001				382	1.20 2.20	0.032	79 120	<2 2	<1 10
10/9/2014 5/21/2015 8/25/2015	<0.2	0.09	0.038		<0.005	<0.01	<0.02	0.45	<0.0001				292	1.30	0.065 0.042	75 68	2 <2	9 <1
10/20/2015 5/10/2016	<0.2	0.14	0.035		<0.005 <0.005	<0.01	<0.02 <0.02	2.6 2.3 0.704	<0.0001 <0.001				348 322	1.60 1.00 1.18	0.140 0.110 0.050	98 95 82	2 <2	5 4 6
9/8/2016 11/1/2016	0.0009	0.297	0.025	20.6	<0.00001 <0.00001	<0.001	0.0003 0.0004	0.544	<0.00001	48.7	10.4	0,006	292 276	1,53	0.030	104 89	<6 <6	<4.0 <4.0
11/18/2016 Duplical	le	0.202														up.		
5/17/2017 Duplicate		0.233 0.199																
Parameter -	Na	Pb	Zn	GI-	NO2-N	NO3-N	504	рН	alk42	NH3-N	Unionized NH3-N	DOC	Cond.	Phenois	DO	Field pH	Field T	Field Cond
PWQO - Trigger - Units -	50 mg/L	0.003	0.02	125				6.5 - 8.5			0.02			0.001		7		-
4/8/2003		man.	mo/I	ma/l	mo/l	ma/l					mall			man N	Been			
5/21/2003	(III)	mg/L < 0.0005	mg/L < 0.005	mg/L 6.9 4.0	mg/L < 0.2 < 0.2	mg/L < 0.2 < 0.2	mg/L 2.3 8.5	n/a 6.70 7.11	mg/L 30 13	mg/L 0.18 0.06	0.00007 0.00008	mg/L	mg/L 6.9 85	mg/L 0.002 < 0.001	mg/L 13 16	6.20	0.0	30 50
5/21/2003 6/10/2003 5/31/2011	The state of the s	< 0.0005	< 0.005	6.9 4.0 4.4 5.3	< 0.2 < 0.2 < 0.2 < 0.2	< 0.2 < 0.2 < 0.2 < 0.2	2.3 8.5 12.1 4.2	6.70 7.11 6.67 6.71	30 13 19 28			mg/L			mg/L 13 16 15 8	6.20 6.20 6.10 6.50	0.0 3.0 10.0 18.5	30 50 70 70
5/21/2003 6/10/2003 5/31/2011 8/6/2003 9/25/2003		< 0.0005 < 0.0005	< 0.005	6.9 4.0 4.4 5.3 4.1 6.2	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	2.3 8.5 12.1 4.2 1.1 31.4	6.70 7.11 6.67 6.71 6.88 6.53	30 13 19 28 31 15	0.18 0.06 0.03 0.05 0.06 0.03	0.00007 0.00008 0.00003 0.00009 0.00018 0.00002	mg/L	6.9 85 88 87 90 141	0,002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	13 16 15 8 8	6.20 6.10 6.50 6.60 5.60	3.0 10.0 18.5 20.0 8.5	50 70 70 70 70 110
5/21/2003 6/10/2003 5/31/2011 8/6/2003 9/25/2003 10/28/2003 5/26/2004	1000	< 0.0005 < 0.0005 < 0.0005	< 0.005 < 0.005	6.9 4.0 4.4 5.3 4.1 6.2 8.4 4.9	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	2.3 8.5 12.1 4.2 1.1 31.4 38.7 20.9	6.70 7.11 6.67 6.71 6.88 6.53 6.62 6.81	30 13 19 28 31 15 12 18	0.18 0.06 0.03 0.05 0.06 0.03 < 0.03	0.00007 0.00008 0.00003 0.00009 0.00018	mg/L	6.9 85 88 87 90 141 168 113	0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	13 16 15 8 8 14 19	6.20 6.10 6.50 6.60	3.0 10.0 18.5 20.0 8.5 2.0 8.0	50 70 70 70
5/21/2003 6/10/2003 5/31/2011 8/6/2003 9/25/2003 10/28/2003 5/26/2004 8/19/2004 10/14/2004	4.9	< 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	6.9 4.0 4.4 5.3 4.1 6.2 8.4 4.9 5.0 6.1	< 0.2 < 0.2	< 0.2 < 0.2	2.3 8.5 12.1 4.2 1.1 31.4 38.7 20.9 6.8 13.6	6,70 7,11 6,67 6,71 6,88 6,53 6,62 6,81 7,24 7,15	30 13 19 28 31 15 12 18 30 38	0.18 0.06 0.03 0.05 0.06 0.03 < 0.03 0.04 NA < 0.03	0.00007 0.00008 0.00003 0.00009 0.00018 0.00002 <0.0003 0.00004	mg/L	6.9 85 88 87 90 141 168 113 96	0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 0.001 < 0.001	13 16 15 8 8 14 19 8 6	6.20 6.10 6.50 6.60 5.50 6.10 5.80	3.0 10.0 18.5 20.0 8.5 2.0 8.0 11.5 6.0	50 70 70 70 110 160 120
5/21/2003 6/10/2003 6/31/2011 8/6/2003 9/25/2003 10/28/2003 5/26/2004 8/19/2004	1000	< 0.0005 < 0.0005 < 0.0005 < 0.0005	< 0.005 < 0.005 < 0.005	6.9 4.0 4.4 5.3 4.1 6.2 8.4 4.9 5.0	< 0.2 < 0.3 < 0.3	< 0.2 < 0.2	2.3 8.5 12.1 4.2 1.1 31.4 38.7 20.9 6.8 13.6 3.0	6,70 7,11 6,67 6,71 6,88 6,53 6,62 6,81 7,24 7,15 7,55 7,56	30 13 19 28 31 15 12 18 30 38 54	0.18 0.06 0.03 0.05 0.06 0.03 < 0.03 0.04 NA < 0.03 < 0.03 < 0.05 < 0.05	0.00007 0.00008 0.00003 0.00009 0.00018 0.00002 <0.0003 0.00004 <0.0003 <0.0005	mg/L	6.9 85 88 87 90 141 168 113 96 146 126	0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 0.001 0.001 0.002 < 0.001	13 16 15 8 8 14 19 8 6 7	6.20 6.10 6.50 6.50 5.50 6.10 5.80 6.40 5.20 6.00	3.0 10.0 18.5 20.0 8.5 2.0 8.0 11.5 6.0 22.1	50 70 70 70 110 160 120 140 110
5/21/2003 6/10/2003 6/31/2011 8/6/2003 9/25/2003 10/28/2003 10/28/2003 5/26/2004 10/14/2004 8/3/2005 10/21/2005 5/16/2006 8/29/2006	1000	< 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0003 < 0.0005 < 0.0005	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	6.9 4.0 4.4 5.3 4.1 6.2 8.4 4.9 5.0 6.1 6.0 7.0	< 0.2 < 0.3 < 0.2	< 0.2 < 0.2	2.3 8.5 12.1 4.2 1.1 31.4 38.7 20.9 6.8 13.6 3.0	6,70 7,11 6,67 6,71 6,88 6,53 6,62 6,81 7,24 7,15 7,55	30 13 19 28 31 15 12 18 30 38 54	0.18 0.06 0.03 0.05 0.06 0.03 < 0.03 < 0.04 NA < 0.03 < 0.05	0.00007 0.00008 0.00003 0.00009 0.00018 0.00002 <0.0003 0.00004	mg/L	6.9 85 88 87 90 141 168 113 96 146	0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 0.001 0.001 0.002	13 16 15 8 8 14 19 8 6 7	6.20 6.10 6.50 6.50 5.50 6.10 5,80 6.40 5,20	3.0 10.0 18.5 20.0 8.5 2.0 8.0 11.5 6.0 22.1	50 70 70 70 110 160 120
5/21/2003 6/10/2003 5/31/2011 8/6/2003 9/25/2003 10/28/2003 5/26/2004 8/19/2004 10/14/2004 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 8/29/2006	1000	< 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 0.0003 < 0.0005 < 0.0005 < 0.0005	< 0.005 < 0.005	6.9 4.0 4.4 5.3 4.1 6.2 8.4 4.9 5.0 7.0 7.0 7	< 0.2 < 0.3 < 0.01 < 0.01 < 0.01	< 0.2 < 0.1 < 0.1 < 0.1	2.3 8.5 12.1 4.2 1.1 31.4 38.7 20.9 6.8 13.6 3.0 15.3 <1 2 2	6.70 7.11 6.67 6.71 6.88 6.63 6.62 6.81 7.24 7.15 7.55 7.56 7.57 7.40 7.50 7.80	30 13 19 28 31 15 12 18 30 38 54 50 44 37 55 48 28	0.18 0.06 0.03 0.05 0.06 0.03 0.04 NA < 0.03 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.00007 0.00008 0.00003 0.00009 0.000018 0.00002 <0.0003 0.00004 <0.0005 <0.0005 <0.0005 0.00008 0.00008 0.00008 0.00008	mg/L	6.8 85 88 87 90 141 168 113 96 146 126 116 102 109 134 154	0.002 < 0.001 < 0.001	13 16 15 8 8 14 19 8 6 7 9 13 11 9 6	6.20 6.10 6.50 6.60 5.50 6.10 5.80 6.40 5.20 6.00 3.90 6.20 6.90 7.42 6.77	3.0 10.0 18.5 20.0 8.5 2.0 8.0 11.5 6.0 22.1 14.2 16.4 18.3 7.5	50 70 70 70 110 160 120 140 110 110
5/21/2003 6/10/2003 5/31/2011 8/6/2003 9/25/2003 10/28/2003 10/28/2004 8/19/2004 10/14/2004 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007	1000	< 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0003 < 0.0005 < 0.0005	< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	6.9 4.0 4.4 5.3 4.1 6.2 8.4 4.9 5.0 6.1 6.0 7.0 7 7 7 7 7	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	< 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	2.3 8.5 12.1 4.2 1.1 31.4 38.7 20.9 6.8 13.6 5.3 < 1 2 5 5 3.0 4 12.3 4 2 5 5 5 5 6 7 7 8 8 8 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9	6.70 7.11 6.67 6.71 6.88 6.53 6.62 6.81 7.24 7.15 7.56 7.57 7.40 7.80 7.90 7.70	30 13 19 28 31 15 12 18 30 38 54 50 44 37 55 48 26 88	0.18 0.06 0.03 0.05 0.06 0.03 0.04 NA < 0.03 < 0.05 < 0.05	0.0007 0.0008 0.0003 0.0009 0.00018 0.0002 <0.0003 0.00004 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L	6.9 85 88 87 90 141 168 113 96 146 126 116 102 109 134 154 152 201	0,002 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001	13 16 15 8 8 14 19 8 6 7 9 13 11 9 6 12 13	6.20 6.10 6.50 6.60 5.60 5.80 6.10 5.80 6.40 6.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55	3.0 10.0 18.5 20.0 8.5 2.0 8.0 11.5 6.0 22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7	50 70 70 70 110 160 120
5/21/2003 6/10/2003 6/31/2011 8/0/2003 9/25/2003 10/28/2003 10/28/2003 6/26/2004 10/14/2004 8/3/2005 10/21/2005 5/16/2006 10/17/2006 5/15/2007 8/15/2007	1000	< 0.0005 < 0.0005 < 0.0005 < 0.0005 0.0003 < 0.0005 < 0.0005 < 0.0005	< 0.005 < 0.005	6.9 4.0 4.4 5.3 4.1 6.2 8.4 4.9 5.0 6.1 6.0 7.0 7.0 7 7	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01	< 0.2 < 0.1 < 0.1 < 0.1 < 0.1	2.3 8.5 12.1 4.2 1.1 31.4 38.7 20.9 6.8 13.6 3.0 15.3 <1 2 2 5 30 <1	6.70 7.11 6.67 6.71 6.88 6.63 6.63 6.62 7.15 7.15 7.56 7.57 7.40 7.50 7.90	30 13 19 28 31 15 12 18 30 38 54 50 44 37 55 48 26 88 49	0.18 0.08 0.03 0.05 0.06 0.03 0.07 0.07 0.08 0.03 0.04 0.05 0.05 0.05 0.05 0.05 0.05 0.05	0.0007 0.0008 0.0003 0.0003 0.0009 0.00018 0.00002 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L	6.9 85 88 87 90 141 168 113 96 126 116 109 134 152 201 187 150 223	0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	13 16 15 8 8 14 19 8 6 7 9 13 11 9 6 12 13 7 5	6.20 6.10 6.50 6.60 5.60 5.80 6.40 5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.55	3.0 10.0 18.5 20.0 8.5 2.0 8.0 11.5 6.0 22.1 14.2 7.1 16.4 18.3 7.5 12.1 14.2 11.4 8	50 70 70 70 70 110 160 120 140 110 110 10
5/21/2003 6/10/2003 6/31/2011 8/6/2003 9/25/2003 10/28/2003 10/28/2003 10/28/2004 8/19/2004 10/14/2004 8/3/2005 9/2/2005 10/21/2005 10/21/2006 8/29/2006 10/17/2006 5/16/2007 8/16/2007 8/16/2007 8/16/2007 8/16/2007 8/16/2007 8/16/2007 8/16/2007 8/16/2007 8/16/2007 8/16/2007 8/16/2007 8/16/2007 8/16/2007 8/16/2007 8/16/2007 8/16/2007 8/16/2008 8/20/2008 10/24/2008 6/19/2009 8/18/2009	1000	< 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 0.0003 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005	<0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.001 <0.01 <0.01 <0.01 <0.01	6.9 4.4 4.4 5.3 4.1 6.2 8.4 4.9 5.0 7.0 7 7 7 7 14 7 6 9 6 11 10 6 5	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01	< 0.2 < 0.1 < 0.1	2.3 8.5 12.1 4.2 1.1 31.4 39.7 20.9 6.8 13.6 3.0 15.3 <1 2 2 5 30 <1 28 19 41	6.70 7.11 6.67 6.71 6.88 6.53 6.62 6.81 7.24 7.15 7.56 7.57 7.40 7.50 7.90 7.70 7.90	30 13 19 28 31 15 12 18 30 38 54 50 44 37 55 88 49 43	0.18 0.06 0.03 0.05 0.06 0.03 0.03 0.03 0.04 NA 0.05 0.05 0.05 0.05 0.05 0.09 0.05 0.09 0.01 0.01	0.0007 0.00008 0.0003 0.0009 0.00018 0.0004 <0.0003 <0.0004 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L	6.9 85 88 87 90 141 168 113 96 146 126 116 102 109 134 154 152 201 187	0,002 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001 < 0,001	13 16 8 8 14 19 8 6 7 9 13 11 9 6 12 13 7	6.20 6.10 6.50 6.60 5.60 6.10 5.80 6.40 5.20 6.90 3.90 6.20 6.90 7.42 6.77 7.55 7.04	3.0 10.0 18.5 20.0 8.5 2.0 8.0 11.5 6.0 22.1 14.2 7.1 18.3 7.5 12.1 16.7	50 70 70 70 110 160 120 140 110 110
5/21/2003 6/10/2003 6/10/2003 6/31/2011 8/6/2003 9/25/2003 10/28/2003 10/28/2003 10/28/2004 8/19/2004 10/14/2004 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/11/2006 5/15/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 8/18/2009 8/18/2009 8/18/2009 8/18/2009	1000	< 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0003 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.05	<0.006 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.001 <0.01 <0.01 <0.01 <0.01 <0.01	6.9 4.0 4.4 5.3 4.1 6.2 8.4 4.9 5.0 6.1 6.0 7.0 7 7 7 14 7 6 11 10 6	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	< 0.2 < 0.1 <	2.3 8.5 12.1 4.2 1.1 31.4 38.7 20.9 6.8 3.0 15.3 <1 2 2 2 2 5 30 <1 28 19 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.70 7.11 6.67 6.71 6.88 6.53 6.62 6.81 7.24 7.15 7.56 7.57 7.80 7.80 7.90 7.70 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 7.40 7.40 7.40 7.40 7.40	30 13 19 28 31 15 12 18 30 38 54 50 44 37 55 48 26 88 49 43 98 195 102 84 47	0.18 0.08 0.03 0.05 0.06 0.03 0.05 0.04 NA <0.05 <0.05 <0.05 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.00007 0.00008 0.00003 0.00003 0.000018 0.00002 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L	6.9 85 88 87 90 141 168 113 96 146 116 102 109 134 154 152 201 167 223 516 161 232 213 177	0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	13 16 16 8 14 19 8 6 7 9 13 11 9 6 12 13 7 7 6 11 11 9 6	6.20 6.10 6.50 6.50 6.60 5.80 6.10 5.80 6.40 5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.55 7.55 7.56 7.37 7.74 7.74	3.0 10.0 18.5 20.0 8.5 2.0 8.0 11.5 6.0 22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.4 8 22.9 7.3 11.4 8 22.9 7.3 11.4	50 70 70 70 110 180 120 140 110 10 212
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5/21/2003 6/10/2003 6/10/2003 6/31/2011 8/6/2003 9/25/2003 10/28/2003 10/28/2003 10/28/2004 10/14/2004 10/14/2004 8/3/2005 10/21/2005 10/21/2006 8/29/2006 10/17/2006 8/29/2006 10/17/2008 8/20/2008 10/21/2008 8/20/2008 8/20/2008 8/20/2008 8/20/2008 8/20/2008 8/20/2008 8/20/2008 8/20/2008 8/20/2008 8/20/2008 8/20/2008 8/20/2008 8/20/2008 8/20/2009 8/25/2009	1000	< 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	<0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 0.005 0.000 0.020 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	6.9 4.0 4.4 5.3 4.1 5.3 4.1 5.0 6.2 8.4 4.9 6.0 7.0 7.0 7.0 7 7 6 6 9 6 6 11 10 6 8 11 10 6 11 10 6 11 10 10 10 10 11 10 10 11 10 10 11 10 10	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01	< 0.2 < 0.1 < 0.1	2.3 8.5 12.1 4.2 1.1 31.4 38.7 1.1 31.4 39.7 20.9 6.8 13.6 3.0 15.3 <1 2 5 5 30 <1 2 81 41 41 41 41 41 41 41 41 41 41 41 41 41	6,70 7.11 6,67 6,71 6,88 6,63 6,62 6,81 7,24 7,15 7,55 7,56 7,57 7,40 7,90 7,70 8,20 6,90 7,40 7,40 7,40 7,40 7,55 7,56 7,56 7,57 7,50	30 13 19 28 31 15 12 18 30 54 50 44 37 55 48 49 43 98 49 195 47 102 84 67 74 123	0.18 0.06 0.03 0.05 0.06 0.03 0.04 NA 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0	0.00008 0.00008 0.00008 0.00008 0.000018 0.00004 <a href="#"> <a href<="" td=""><td>mg/L</td><td>6.9 85 88 87 90 141 168 113 96 126 1102 109 134 154 152 201 167 150 223 51 161 231 213 177 187 187 187 188 187</td><td>0.002 &lt; 0.001 &lt; 0.001</td><td>13 16 15 8 8 14 19 8 6 7 9 9 13 111 9 6 12 13 7 6 11 13 7 6 11 18 9 9 9 13 7 7 6 11 11 11 11 11 11 11 11 11 11 11 11 1</td><td>6.20 6.10 6.50 6.50 6.50 5.60 6.10 5.80 6.40 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.37 7.74 7.63 7.74 7.74 7.63 7.39 8.17 7.18</td><td>3.0 10.0 18.5 20.0 8.5 2.0 8.0 11.5 6.0 22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 0/4 11.4 8 22.9 11.4 8 22.9 11.4 8 12.1 14.2 14.2 14.2 14.2 14.2 14.2 14.2</td><td>50 70 70 70 110 160 120 140 110 110 110 110 122 144 146 242 244 196 171</td></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>	mg/L	6.9 85 88 87 90 141 168 113 96 126 1102 109 134 154 152 201 167 150 223 51 161 231 213 177 187 187 187 188 187	0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	13 16 15 8 8 14 19 8 6 7 9 9 13 111 9 6 12 13 7 6 11 13 7 6 11 18 9 9 9 13 7 7 6 11 11 11 11 11 11 11 11 11 11 11 11 1	6.20 6.10 6.50 6.50 6.50 5.60 6.10 5.80 6.40 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.37 7.74 7.63 7.74 7.74 7.63 7.39 8.17 7.18	3.0 10.0 18.5 20.0 8.5 2.0 8.0 11.5 6.0 22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 0/4 11.4 8 22.9 11.4 8 22.9 11.4 8 12.1 14.2 14.2 14.2 14.2 14.2 14.2 14.2	50 70 70 70 110 160 120 140 110 110 110 110 122 144 146 242 244 196 171
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0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.00008 0.00008 0.00003 0.00009 0.000018 0.00002 0.00003 0.00003 0.00004 0.00005	mg/L	6.9 85 88 87 90 141 168 113 96 146 126 116 102 109 134 154 152 201 187 150 223 213 217 301 587 199 292 292 292 210 250 420 420	0.002 0.001	13 16 15 8 8 14 19 8 6 7 9 13 11 9 6 12 13 7 6 11 8 9 11 8 6 7 7 6 13 11 11 11 11 11 11 11 11 11	6.20 6.10 6.50 6.50 6.50 6.10 5.80 6.40 6.20 6.90 7.42 6.77 7.55 7.74 7.63 7.74 7.74 7.74 7.74 7.74 7.75 8.19 7.86 6.29 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20	3.0 10.0 16.5 20.0 8.5 2.0 8.0 11.5 6.0 22.1 14.2 7.1 16.4 18.3 12.1 16.7 7.3 n/a 18.1 14.1 17 18.6 6.7 11.4 18.1 18.1 18.3 18.3 18.5 18.5 18.5 18.5 18.5 18.5 18.5 18.5	50 70 70 70 110 160 120 140 110 110 110 110 122 144 195 199 306 337 540 435 278 278 545 545 5314
5/21/2003 6/10/2003 6/10/2003 6/31/2011 8/6/2003 9/25/2003 10/28/2003 10/28/2003 10/28/2003 10/28/2004 10/14/2004 10/14/2004 8/3/2005 9/2/2005 10/21/2005 10/21/2006 8/29/2006 10/17/2006 8/16/2007 8/16/2007 8/16/2007 8/16/2007 8/16/2007 8/16/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2008 10/24/2008	1000	< 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0003 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	<0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.001 <0.001 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	6.9 4.0 4.4 5.3 5.3 6.2 8.4 4.9 5.0 6.1 6.0 7.0 7.0 7 7 7 14 7 6 9 6 11 10 6 <11 11 10 8 14 14 16 13 16 13 16 13 16 13 16 13 16 13 16 23 15 25	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.0 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	2.3 8.5 12.1 4.2 1.1 31.4 38.7 20.9 6.8 3.0 15.3 <1 2 2 2 2 3 0 15.3 4 2 8 19 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6,70 7,11 6,67 6,71 6,88 6,63 6,63 6,63 6,63 7,24 7,15 7,56 7,56 7,57 7,40 7,50 7,80 7,90 7,70 7,90 7,70 7,40 8,20 7,40 7,70 7,50	30 13 19 28 31 15 12 18 30 38 54 50 44 37 55 48 26 88 49 43 195 195 102 84 17 102 84 17 103 103 103 103 103 103 103 103 103 103	0.18 0.08 0.03 0.05 0.00 0.03 0.05 0.04 NA 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0	0.00007 0.00008 0.00003 0.00003 0.00003 0.00004 0.0005 0.0	mg/L	6.9 85 88 87 90 141 168 113 96 116 126 116 102 109 134 154 152 201 197 150 223 516 161 232 213 213 213 214 320 210 223 210 240 240 240 240 240 240 240 240 240 24	0.002 0.001	13 16 15 8 14 19 8 6 7 9 13 11 9 6 12 13 7 7 6 11 11 8 8 6 7 7 9 6 7 7 6 10 10 10 10 10 10 10 10 10 10 10 10 10	6.20 6.16 6.50 6.50 6.50 6.10 5.80 6.40 6.20 6.20 6.20 6.20 6.20 6.20 7.42 6.77 7.55 7.56 7.37 7.74 7.74 7.74 7.75 7.74 7.74 7.74 7.7	3.0 10.0 10.0 18.5 20.0 8.0 8.5 2.0 8.0 11.5 6.0 22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/h 16.1 4 17 18.6 6.7 11.4 18.6 18.7 18.6 18.6 18.6 18.6 18.6 18.6 18.6 18.6	50 70 70 70 110 160 120 110 110 110 110 110 110 122 212 244 196 242 244 196 171 189 306 171 189 307 337 540 435 448 546 546 546 546 546 546 546 546 546 546
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#### Ministry of the Environment and Climate Change

Northern Region Kenora Area Office 808 Robertson Street Kenora, ON P9N 1X9 Fax: (807) 468-2735 Telephone: (807) 468-2718

### Ministère de l'Environnement et de l'Action en matière de changement climatique

Direction régionale du Nord Bureau du secteur de Kenora 808 rue Robertson Kenora, ON P9N 1X9 Télécopieur: (807) 468-2735 Téléphone: (807) 468-2718



July 17, 2017

Mr. M. Pokharel Supervisor, Kenora Area Waste Disposal Site 60 Fourteenth Street North Kenora, Ontario P9N 4M9

Dear Mr. Pokharel:

SUBJECT: Kenora Area Waste Disposal Site - Exceed Trigger Level for Boron

ECA A612018

This letter will confirm receipt of correspondence dated June 7, 2017 and received by the Ministry of the Environment and Climate Change (MOECC) on June 20, 2017. The correspondence provides information about measured exceedances of the trigger value for boron at sample site SW-2 and describes an action plan for investigating the cause of the exceedance.

I have reviewed the action plan and have no specific comments or issues with the proposed actions.

The plan has been sent to the ministry's Northern Region Technical Support Section for review and comment. Any suggestions resulting from this review will be forwarded to you when they become available.

I can be reached at 807-468-2728 if you would like to discuss the contents of this letter or the requirements of Ontario's environmental legislation.

Yours truly,

Ray Boivin

Senior Environmental Officer

Kenora Area

/RB

c. Colin Ross, Azimuth Environmental Consulting, Inc.



Environmental Assessments & Approvals

April 3, 2018

AEC 17-020

Ministry of Environment & Climate Change Northern Region Kenora Area Office 808 Robertson Street Kenora, ON P9N 1X9

Attention:

Ray Boivin - Senior Environmental Officer

Re:

Jones Road Landfill Site — 2017 Trigger Mechanism Exceedance Monitoring Summary

Dear Mr. Boivin:

The purpose of this correspondence is to provide the Ministry of Environment & Climate Change (MOECC) District Office an update on the monitoring completed as part of the 2017 Trigger Mechanism Exceedances for boron in the surface water at the Jones Road landfill Site. The plan which was outlined in a June 2017 letter notification letter proposed a phased approach which included collection of additional samples from both surface and ground water locations in 2017 to assess the mechanism in which the elevated boron concentrations were migrating downstream within the established Contaminant Attenuation Zone (CAZ). The following represents a brief summary of these results, which will also be included in the annual monitoring report due to the MOECC by June 30, 2018.

### 2017 Trigger Mechanism Exceedance Action Plan Monitoring

As indicated in the Trigger Mechanism Exceedance Action Plan presented in June 2017, monitoring was completed at additional surface water locations in the forested wetland area between the waste mound and SW-1. A total of three locations were targeted at various distances from the waste mound. As illustrated in the appended figures, RW-1 is located adjacent the MW-20, RW-2 is located adjacent to MW-2/13 and RW-3 was located between MW-20 and MW-21. It is noted that these locations were targeted by



City staff based on sufficient depth to facilitate a representative sample. There is no defined flow channels in this area and surface water migration is assumed to braided based on local subtle topographic variation.

The results, which have been appended along with updated surface water summary tables for the existing monitoring locations indicates boron concentrations were elevated at all three locations. The following table summarizes the boron as well as other notable leachate indicator parameters which were analyzed at all six locations and observed to be elevated. pH was also added as it was previously discussed in a correlation between pH and boron concentrations.

Table 1: Leachate Indicator Parameter Concentration Comparison

		RW-1	RW-2	RW-3	SW-1	SW-2	SW-5*
Parameter	PWQO	11-Apr-17	11-Apr-17	5-Oct-17	17-May-17	17-May-17	29-Aug-17
Boron	0.2	3.48	1.36	1.6	0.86	0.23	<0.02
Chloride		180	62	69	34	17	5.0
Alkalinity		2070	768	517	254	138	8.5
Total Ammonia		70	14	0.13	<0.02	0.081	0.038
Unionized Ammonia	0.02	1.25	0.42	0.0047	<0.0002	0.0191	0.0001
рН	6.5-8.5	7.99	8.22	8.31	8.00	8.05	6.90

<sup>\*</sup> only sampled in August monitoring event

As can be observed, the most significant elevations are found at RW-1, which is not immediately adjacent to the waste as is RW-2, which might suggest that impacts are migrating from the waste mound in specific locations south of RW-2. The results in the table also illustrate that there is attenuation observed for all the leachate indicator parameters indicating attenuation is occurring within the CAZ.

In addition to the surface water monitoring, samples were also collected from MW-7/4 and MW-21/7 in October 2017 to assess the potential for migration of the boron impacts within the shallow ground water. This was proposed as the closest monitoring wells downgradient of the waste (MW-2 nest) are relatively deep wells (9 & 13 m), while MW-7/4 and MW-21/7 had been removed from the monitoring program in 2012 due to a lack of observable leachate influence within the ground water within the waste area.

The results have been appended in updated chemistry summary tables for these two locations. It is noted that the water quality has remained consistent with that collected historically with no observable leachate influence. A slightly elevated nitrate concentration was observed at both locations (0.92 & 1.8 mg/L respectively), where the historical results are routinely below detection limits. However, a similarly elevated concentration (2.30 mg/L) was observed at MW-7/4 in 2005. Given that no other leachate indicator parameters showed elevated concentrations and this parameter has



been shown to have an isolated detection in the past, the 2017 concentrations are not interpreted to be related to landfill leachate within the ground water downgradient of the waste mound.

The additional ground and surface water quality data collected in 2017 confirms the presence of leachate within the surface water is consistent between the waste mound and SW-1, while similar impacts are not observed in the underlying ground water. This would suggest that the primary leachate migration pathway is within the surface water downgradient of the waste mound. This is supported by the fact the underlying soils have limited permeability with a dominance of silt and clay.

The other aspect of the surface water quality that was reviewed as part of this action plan was the relationship between pH and boron concentrations. Although there appears to be elevated pH levels where elevated boron is observed in the surface water network (SW-1 & SW- relative to SW-5), the longer term trends for pH at the impacted locations do not show a meaningful increase over time that would coincide with the increasing trends observed for boron. It is noted that there still may be a relationship between the two parameters; however, the magnitude would indicate that it is insufficient that it could be considered as part of any mitigation measure.

The final item of note with respect to the surface water quality monitoring completed in 2017 is that the boron concentrations are indicating relative stability at SW-1 since 2014 with concentrations falling within a range of 0.610 & 0.995 mg/L. Although concentrations at SW-2 are still showing a slight increasing trend over the past two years (0.21 to 0.36 mg/), there is a bit of a time lag with respect to the onset of the elevated boron concentrations such that it would not be surprising to see a similar consistency over the next year or two. This time lag is also reflective in the operational mitigative strategies that are being employed by the City with the decreasing of the active working area, shifting the active area further back from the downgradient toe in a new cell area and increasing the amount of cover material at the downgradient end of the waste mound. Continued monitoring in 2018 will help to assess the effectiveness with these operational changes.

#### **Phase II Action Items**

Aquatic Assessment (Update)

As discussed in the original action plan, it was proposed that an update to the historic aquatic assessment (Fenco MacLaren, 1997) could be completed with an updated field assessment of the water course / wetland feature that is present between the landfill and SW-2. Given the understanding developed with respect to the migration pathway being



completely through surface water flow, it is suggested that this work proceed in 2018 such that a site specific ecological risk assessment can be completed with respect to boron. As noted in the 2017 action plan, it may be appropriate to evaluate the boron concentration on alternative criteria such as Canadian Water Quality Objectives (CWQO), which have a larger threshold than that in the PWQO, while CWQO also has specific rationale for its threshold that could be related and interpreted based on the results of the aquatic assessment. CWQO also describes thresholds for both chronic and acute exposures.

Although the original aquatic assessment was limited to the defined CAZ lands, it is recommended that the proposed assessment would extend further downstream through to the outlet of the wetland feature at Morgan Lake. Although the current monitoring program has not indicated any impacts to Morgan Lake (SW-5), this assessment would benefit from developing an understanding of the ecological importance of the outlet area.

#### Additional Monitoring Locations

Given the results collected during 2017, there is an understanding that the boron impacts are the result of surface water flow from the waste area into the adjacent wetland area. Although it was confirmed that impacts are not most elevated immediately adjacent to the waste mound at MW-2, it would be beneficial to refine the migration pathway by establishing an additional surface water location between MW-2 and the bedrock ridge to the south. As such it is proposed that RW-4 be established in this area if sufficient water is present, while RW-1, RW-2 & RW-3 be included with the routine surface water monitoring program for the Site such that boron trends (i.e. stability) can be further delineated. We note that the RW series of sampling locations is primarily pooled and stagnant water within the wetland, and would not normally be subject to PWQO.

Finally, an additional surface water location (RW-5) is proposed at the outlet of the wetland tributary at Morgan Lake such that this information can be utilized as part of the aquatic assessment.

The continued monitoring of these additional locations will be reassessed following review of the 2018 data.

#### Boron Source Assessment

A final item within the work plan for 2018 includes an assessment to potentially identify the specific source of boron within the waste stream. It is understood that boron is potentially contained in a number of construction and demolition (C & D) wastes as both a fire retardant (wallboard) and preservative (treated wood), but the amounts and leaching



potential for these materials is not well understood. As such, it is proposed that some common C & D wastes be assessed in 2018 for leachable boron content. It is proposed that the City isolate these wastes (pressure treat wood, wallboard and particle board) in separate containers on site such that they are exposed to local conditions and that these containers can collect the leached rainfall from these materials between spring melt and midsummer, when samples from these isolated leachate containers can be collected and submitted for laboratory analysis, similar to the routine monitoring program. The results may provide a primary waste stream source for the boron such that operations at the Site can be developed to handle and isolate these materials from the regular waste stream in an effort to reduce the contribution to the adjacent surface water features.

Similarly, a soil sample is proposed to be collected from the cap material used at the Site to assess the potential for this material contributing boron into the watershed.

The City welcomes any feedback or comments relating to the above work plan, while any deviations will be detailed in an update letter to the MOECC District Office.

Yours truly,

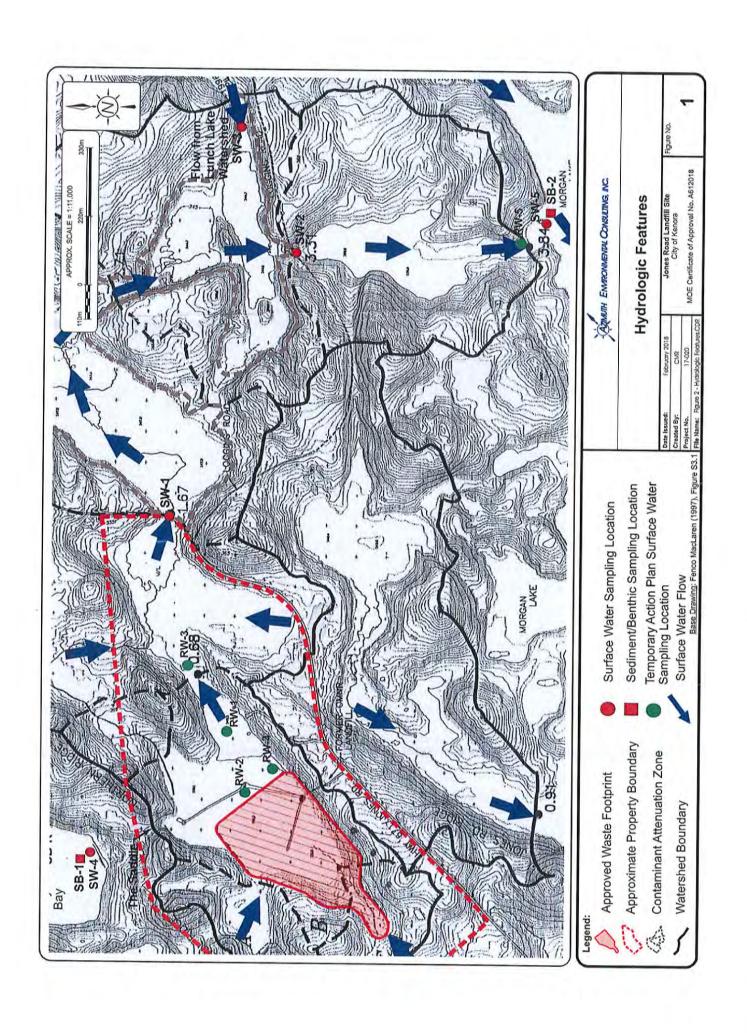
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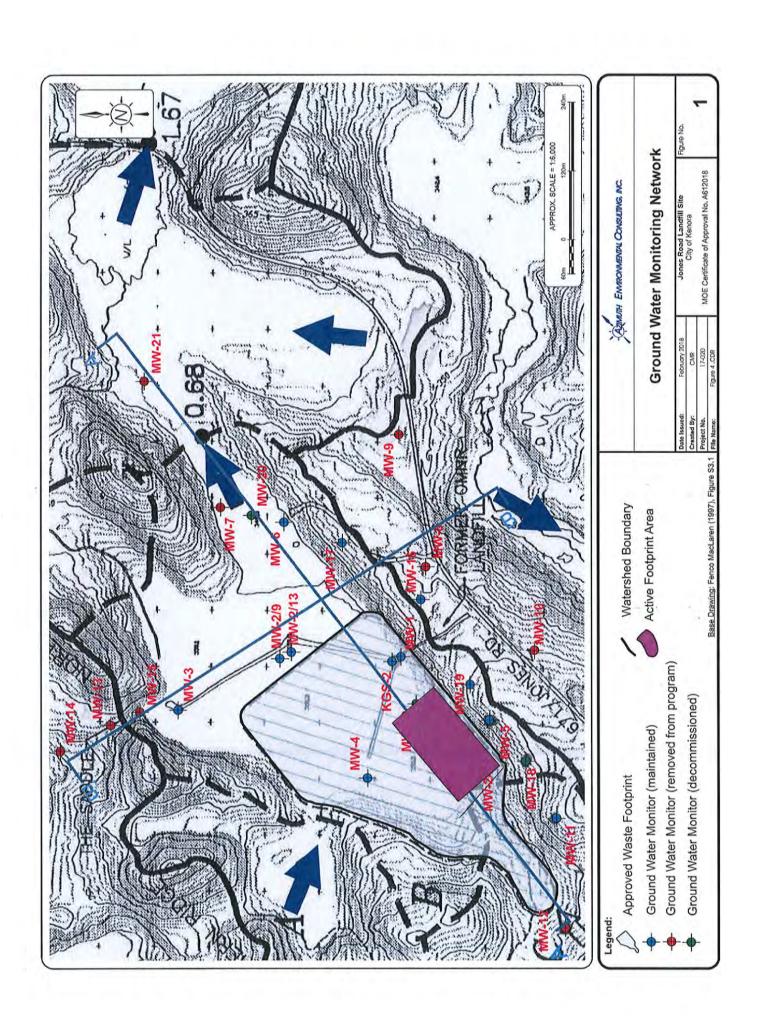
Colin Ross, B.Sc., P.Geo.

Senior Hydrogeologist

Attach:

cc: Mukesh Pokharel - City of Kenora





Ctat	ion.	SIM-1	١

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8/20/2008		<0.2 <0.2	0.230	0,050		<0.005 <0.005	<0.01	<0.02 <0.02	1.8	<0.0001 <0.0001				270 420	3.30 2.50	0.530	280 120	6.0 3.0	14
10/24/2008 5/19/2009									0.29						1.30	0.096	81	2.0	< 1
8/18/2009		<0.2 <0.2	0.120 0.160	0.050		<0.005 <0.005	<0.01	<0.02 <0.02	1.6	<0.0001 <0.0001				266 335	2,40 1.90	0.740 0.130	200 100	5.0 < 2	10 5
5/18/2010 8/25/2010	no sample								0,32	100000					1.90	0.092	100	5.0	3
10/21/2010 5/31/2011		<0.2	0.130	0.040		<0.005	<0.01	<0.02	0.38	<0.0001				508	1.50 1.50	0.210	90 89	<2	1 4
8/24/2011		<0.2 <0.2	0.330	0.040		<0.005 <0.005	<0.01	<0.02 <0.02	0.51	<0.0001 <0.0001				470 344	2.00	0.400	110 110	<2	3 2
5/18/2012							<0.01	<0.02	0.29	<0.0001				762	1.80	0.150	90	<2 4.0	3 54
8/30/2012 10/23/2012		<0.2 <0.2	0.250	0.070	-3	<0.005 <0.005	<0.01	<0.02	0,26	<0.0001				696	1.80	0.370	120	<2	2
5/24/2013 8/29/2013		<0.2	0.470	0.470		<0.005	<0.01	<0.02	7.3	<0.0001	_			780	2.80 4.70	0.004 0.830	110 150	<2	2 56
10/17/2013 5/23/2014		<0.2	0.390	0.070		<0.005	<0.01	<0.02	0.4	<0.0001				680	2.10	0.370	130 96	2.0 <2	5
8/21/2014		<0.2 <0.2	0.810	0.150 0.075		<0.005 <0.005	<0.01 <0.01	<0.02 <0.02	6.8	<0.0001 <0.0001				1230 788	4.40 2.30	0.940	180 110	11.0	55 3
5/21/2015		-		0.027		<0.005	<0.01	<0.02	0.5	<0.0001				762	1.60	0.170	100	<2 <2	5
8/25/2015		<0.2 <0.2	0.750 0.820	0.027		<0.005	<0.01	<0.02	0.33	<0.001				1040	1.80	0.260	130	2.0	3
5/10/2016 9/8/2016		0.002	0.995	0.036	39.8	<0.00001	0.0002	0.001	0.48	<0.00001	155	23.9	0.021	676	4.15 2.58	0.161	104 151	<6	19.3 <4.0
11/1/2016		0.001	0.730 0.836	0.031	Carrie	<0.00001	0.001	0.0004	0.246	<0.00001				414	1.58	0.171	105	<6	<4.0
11/18/2016	Duplicate		0,828						0.46						1.60	0.170	99	<3	<4
5/17/2017	Duplicate	0.004	0.882	0.038	41	<0.00002	<0.001	0.0002	0.47	0.0000035	130	24.0	0.039	602	2.00	0.043	130	NA	6
8/29/2017 10/24/2017		0.001 0.001	0.990	0.030	35	<0.00002	<0.001	<0.0002	0.31	<0.0000038	110	22.0	0.012	522	1.40	0.120	92	<3	<4.0
	neter -	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	ρН	alk42	NH3-N	Unionized NH3- N	DOC	Cond.	Phenois	DO	Field pH	Field T	Field Cond
VQO -			0.003	0.02	187				6,5 - 8,5			0.02			0.001				
5/26/2004		mg/L	mg/L	mg/L	mg/L 8.5	mg/L < 0.2	mg/l. < 0.2	mg/L 40.4	n/a 7.08	mg/L 44	mg/L 1.29	mg/L 0.00193	mg/L	mg/L 218	mg/L < 0.001	mg/L 6	6.20	5.0	230
8/19/2004 10/14/2004			< 0.0005	0.056 < 0.005	8.8 10.2	< 0.2	< 0.2	45.2 48.1	7.65 7.63	. 62 136	NA 0.03	0.00016	-	246 420	0.001	6	6.80	10.0 5.0	440
8/3/2005			0.0022	0.036	5	< 0.3	< 0.2	11.1	7.58	75	0.09	0.00114 0.00197		175	< 0.001	10	4,50 6,00	17.8 13.7	170 270
9/2/2005 10/21/2005			< 0.0005 < 0.0005	0.072	17	< 0.3 < 0.01	1.6 < 0.1	10.4	7.49 7.78	133 115 =-	0.26	0.00079		230	< 0.001	13	3.70	8.5	20
5/16/2006 8/29/2006			< 0.0005	0.100	21	< 0.01 < 0.01	< 0.1	14.0	7.70	85 117	< 0.05	<0.0005 0.00057		221 291	< 0.001	10	7.30 6.71	17.2 17.4	
10/17/2006 5/15/2007			< 0.02	0.250	30 14	< 0.01	< 0.1	30.0 105.0	7.60	113 66	0.46	0.00310 0.00034		353 417	<0.001	12	6.24	8.9 14.8	
8/15/2007			<0.05 <0.05	0.200	21	<0.01 <0.01	<0.1 <0.1	33.0 33.0	8.00 7.90	306 181	0.58	0.01745 0.00141		624 458	0.005 0.004	8	7.6 7.21	16.7 11	687
5/21/2008			<0.05	<0.005	10	<0.01	< 0.1 < 0.1	52.0	7.80	121	< 0.05	<0.0005 0.00901		370 402	0.001	10	7.5 7.37	10.9 20.4	
8/20/2008 10/24/2008			<0.05	<0.005	17	<0.01	< 0.1	23.0 < 2	8.20	280	0.05	0.00126		656	<0.001	9	7.06	8.4	309
5/19/2009			<0.05	0.020	12	<0.01 <0.01	< 0.1 < 0.1	48.0 < 2	7.00	99 188	< 0.05 0.17	<0.0005 0.00133		322 438	<0.001 0.005	9	7.35 7.52	n/a 16.9	326 480
5/18/2010			<0.05	0.030	19	<0.01	< 0.1	74.0 35.0	7.50 8.10	147	0.09	0.00043		514 455	<0.001	10 8	7.74	7.4	498 430
8/25/2010	no sample		<0.05	<0.01	28	<0.01	<0.1	85.0	8.01	254	<0.05	<0.0005		779	<0.001	7 9	6.64 7.94	16 5.1	692 784
5/31/2011			<0.05	<0.01	19	<0.01 <0.01	<0.1	54.0 27.0	7.88 8.02	182 262	<0.05 <0.05	<0.0005 <0.0005		552 691	<0.001	4 6	7.42 8.14	11.8 18.1	490 699
8/24/2011 10/25/2011			<0.0001	<0.01	24	<0.01	<0.1	13.0	7,71	185	0.22	0.00139		502	0,007	4	7	4.9	509
5/18/2012			<0.05	<0.01	26 61	<0.01	<0.1	31.0 13.0	7.76 8.18	170 400	<0.05	<0.0005 0.01628		510 1000	< 0.007	9	6.6 7.68	18 19.4	540 1259
10/23/2012			<0.05	<0.01	62 31	<0.01 0.025	<0.1 0.31	71.0 9.0	7,84 7,94	310 220	0.092	0.00083 0.01050		960 620	<0.001	10	7.76 9.51	5.7 10.6	694 604
8/29/2013 10/17/2013			<0.05 <0.05	<0.01	68 60	<0.01 0.011	<0.1	<1 20.0	7.76 7.96	440 340	1.0 0.16	0.00843 0.00110		1100 940	<0.001	6	7.37 7.65	18.8	1297 801
5/23/2014				-	29	<0.01	0.24	30.0	7.87	210	1.5	0.01625 0.01060		580 1400	0.011 <0.001	8	7.61 8.37	14.8	566 1290
8/21/2014 10/9/2014			<0.05	0.070	90	<0.05 <0.01	<0.5	20.0	7.94	570 380	0.33	0.00161		1000	0.017	4	7.54	6.6	886
5/21/2015 8/25/2015			<0.05	<0.01	39 43	<0.01 <0.01	<0.10 <0.10	18,0	7.72	200 280	<0.05 0.097	<0.0005 0.00020		600 740	<0.001	6	8.17 6.89	16.1	537 626
10/20/2015 5/10/2016			<0.05	<0.01	100	<0.01	<0.10	45.0 18.4	8.09 7.99	590 330	0.098	0.00140		1600 853	<0.001	6 7	8.01 8.53	6.6 8	1146 542
9/8/2016		48.5	<0.0002		60	<0.2	0.014	7.5	8.26	390 288	0.36	0.00000 0.00023		976 768	0.005	7	7.56	6	317
11/1/2016 11/18/2016		22.7	<0.0002		44	0.004	<0.2	30.2	8.12	288	0.027	0.00029		708	0,002	-	7.56	0	317
					48 34	<0.010	0.094	16.0	8.00	254	<0.02	<0.0002 <0.0002		643	0.004	7	8.4	8.8	408
5/17/2017 5/17/2017 5/17/2017 8/29/2017	Duplicate		<0.0002	<0.003	35 50	<0.010	<0.010	2.6	7.90	360	<0.02 0.068	<0.0002 0.00472		937	0.003	7	8.4 8.43	8.8 15.2	408 582

Bold denotes exceedance of PWGO (1994) criteri NA - Not Analyzed Underline Indicates exceedance of Action Criteria "Nitrate plus Nitrite

\* should not be decreased by more than 25% of t

\* - action level according to trigger mechanism

Paramete	r	0.1	0,2	Ba	Ca	D.0001	0.1	0,005	0.3	0,0002	К	Mg	Mo	TDS	TKN	Total P 0.03	COD		TSS
		mg/L	0.2 mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L 0.66	mg/L 0.036	mg/L 64	mg/L 0.7	mg/L
004 004		< 0.002	0.010	0.014	8.60	< 0.0001	< 0.005	0.002	0.29	< 0.0001	5.9	3.4	0.042	138	0.98	0.024	105	0.9	1
004		< 0.002	0.009	0.017	16	< 0.0001	< 0.005	< 0.0005	0.5 1.1		5.1	4.8	0.120	156	1.02	0.013 0.033	77	< 2	3
05		0.001 < 0.001	0.016	0.019	10	< 0.0001	< 0.005	0.001	0.94	0.0001 < 0.0001				194 198	0.90	0.035	73	< 2	8
005	-	< 0.001	0,019	0.017		< 0.0001	< 0.005	0.001	0.25					50 105	1,50	0.006	60	< 2 < 2	1 <1
800		0.001	< 0.02	< 0.020	-	< 0.0001	< 0.1	< 0.001	0.19	< 0.0001 < 0.0001				113	0.60	0.009	33	< 2	< 1
006			The state of the s	0.03		<0.005	<0.01	<0.02	0.29	<0.0001				69 146	1,50	0.017	72 110	<2 <2	3.0
007		<0.2 <0.2	0.05	0.02		<0.005	<0.01	<0.02	0.37	<0.0001				124	1.20	0.021	78 63	<2 <2	<10
800	_	<0.2	0.05	0.05		< 0.005	<0.01	<0.02	4,2	<0.0001				150	2.10	0.076	110 83	<2 <2	40
800		<0.2	0.04	<0.02		<0.005	<0.01	<0.02	0.33	0.0003		_		325	0.80	0.020	71	<2	<1
009		<0.2	0.05	0.03 <0.02	-	<0.005 <0.005	<0.01	<0.02 <0.02	2.1 0.36	<0.0001			-	155 140	1.70	0.044	120 72	<2 <2	1
010		<0.2	0.03					<0.02	0.58	<0.0001				200	1.40	0.019	75 97	<2 <2	4 2
010 010		<0.2	0.04	0.03		<0.005	<0.01	<0.02	0.36	<0.0001				192	0.70	0.016	64 72	<2 <2	<1
011		<0.2	0.05	0.03	_	<0.005	<0.01	<0.02	0.51	<0.0001				228	1.30	0.090	91	<2	22
011		<0.2	0.03	0.02		<0.005	<0.01	<0.02	0.44	<0.0001				224	7.30 1.10	0.042	68 72	<2 <2	2
012	-	<0.2	0.05	0.03		<0.005	<0.01	<0.02	0.89	<0.0001				180 184	1.70	0.099	96 78	<2 <2	11
012		<0.2	0.03	<0.02	-	<0.005	<0.01	<0.02	0.37					334	1,50	0.043	69 110	<2	<1
013		<0.2 <0.2	0.06	0.048	-	<0.005	<0.01	<0.02 <0.02	1.5	<0.0001				272	1.40	0.049	96	2	<
2013				0.065		<0.005	<0.01	<0.02	0.26	<0.0001				382	1.20	0.032	79 120	<2 2	11
014		<0.2 <0.2	0.1	0.065		<0.005	<0.01	<0.02	1.4	<0.0001				292	1.30	0.065	75 68	2 <2	5
015		<0.2	0.14	0.035		<b>≺0.005</b>	<0.01	<0.02	0.45 2.6	<0.0001			-	348	1.60	0.140	98 95	2 <2	- 6
015		<0.2	0.14	0.034		<0.005	<0.01	<0.02	0.704	<0.001	100			322	1.18	0.050	82		
2016		0.0009	0.297	0.025	20.6	<0.00001	<0.001	0.0003	0,544	<0.00001	48.7	10.4	0.006	292 276	1,53	0.097	104 89	<6 <6	<4
2016 2016		0.0005	0.210	0,028		~0.00001	~0.00)	0,0004	0,200	0.0000						-			-
2016	Duplicate		0.217	-					0.38				-		1.20	0.053	72	<3	<
2017 /	Duplicate	0.0008	0.199	0.035	22	<0.00002	<0.001	0.0002	2.1	0.000003	47	10.0	0.250	276	1.90	0.042	110	NA	<
017		0.0010	0.320	0.030	20	<0.00002	<0.001	0.0002	1	0.000002	52	9.8 Unionized	0.066	274	1.40	0.050	94	0,8	<
aramet	lor.	Na	РЬ	Zn	CI-	NO2-N	NO3-N	804	рН	alk42	NH3-N	NH3-N	DOC	Cond.	Phenois	DO	Field pH	Field T	Field
200		I COV	0,003	0.02	125				6.5 - 8.5			0.02			0,001	1000			
		60 mg/L	mg/L	mg/L	mg/L	mg/L	mg/L < 0.2	mg/L 1.1	n/a 6.88	mg/L 31	mg/L 0.06	mg/L 0.00018	mg/L	mg/L 90	mg/L < 0.001	mg/L 8	6.60	20.0	7
2003			< 0.0005	< 0.005	6.2	< 0.2	< 0.2	31.4	6.53	15	0.03	0.00002		141 168	< 0.001	14	5.60 6.10	8.5 2.0	10
2003 2004			< 0.0005	< 0.005	8.4 4.9	< 0.2	< 0.2	20.9	6.62	12	< 0.03 0.04	<0.0003 0.00004		113	<0.001	8	5.80	8.0	10
2004		4.9	< 0.0005	< 0.005 < 0.005	5.0 6.1	< 0.2	< 0.2	6.8 13.6	7.24	30	< 0.03	<0,0003		96 146	0.001 <0.001	7	6.40	11.5 6.0	1
2004			< 0.0005 0.0003	< 0.005	6.0	< 0.3	< 0.2	3.0	7,55 7,56	54 50	< 0.05 < 0.05	<0.0005 <0.0005		126 116	< 0.002	13	6.00	22.1 14.2	1
2005		-	< 0.0005	< 0.005	7.0	< 0.3	< 0.2	15.3	7.57	44	< 0.05	< 0.0005		102	< 0.001	11 9	3.90 6.20	7.1 16.4	
2006			< 0.0005	0.008	7	< 0.01	< 0.1	2 2	7.40	37 55	< 0.05	<0.0005 0.00098		134	< 0.001	6	6.90	18.3	
2006			< 0.05	0.020	14	< 0.01	< 0.1	5 30	7.80	48 26	< 0.05	<0.0005		154	< 0.001	12	7.42 6.77	7.5 12.1	
/2007 /2007			< 0.05	<0.01	6	<0.01	<0.1	<1	7.90	88	0.11 <0.05	0.00265 <0.0005	-	201 187	< 0.001	5	7.55	16.7	2
/2007 /2008			<0.05	<0.01	6	<0.01	<0.1	19	7.70 7,40	49	< 0.05	<0.0005		150	< 0.001	7	7.53	8 22.9	
/2008			<0.05 <0.05	<0.01 <0.01	11	<0.01	<0.1	<1	8.00	98 195	<0.05 <0.05	<0.0005 <0.0005		223 516	<0.001	11	7,45	7.3	1
/2008				7.00.00	6	<0.01	<0.1 <0.1	<1	6.90 7.40	47 102	<0.05 <0.05	<0.0005 <0.0005	-	161 232	<0.001	9	7.37	n/a 18.1	1
/2009			<0.05 <0.05	<0.01	<1 10	<0.01 <0.01	<0.1	<1	7.40	84	<0.05	<0.0005 0.00040		213 177	<0.001	8	7.74	17	1
/2010 /2010			<0.05	<0.01	8	<0.01	<0.1	<1	7.40	123	0.05 <0.05	<0.0005		301	< 0.001	- 5	7.30	18.6 6.7	
/2010			<0.05	<0.01	14	<0.01	<0.1	<1	7.55 7.59	109 74	<0.05 <0.05	<0.0005		587 199	<0.001 <0.001	7	8.17 7.18	11.4	
/2011			<0.05	<0.01	13	<0.01	<0.1	<1	7.63 7.93	122	<0.05 <0.05	<0.0005 <0.0005		292 292	<0.001	10	8.19 7.66	18.1 4.3	1
/2011 /2012			<0.05	<0.01	15 13	<0.01 <0.01	<0.1	<1	7.48	100	<0.05	<0.0005		260 320	<0.005	8 7	6.29 7.50	18 18.3	- 1
/2012			<0.05 <0.05	<0.01	16	<0.01	<0.1	<1	7.74	130 72	0.058	0.00109		210	< 0.001	9	7.71	5.3	1
/2012 /2013				<0.01	14	<0.01 <0.01	<0.1 <0.1	<1	7.66	88 160	0.073	0.00070		250 420	0.005 <0.001		9.57 7.49	11.6 18.3	1
7/2013 7/2013			<0.05 <0.05	<0.01	23	<0.01	<0.1	<1	7.70	120	<0.05 <0.05	<0.0005 <0.0005		340 270	0.006	7 8	7,70 7,80	5.5 14.1	
72014		1	<0.05	0.010	15 25	<0.01 <0.05	<0.1 <0.5	<1	7.46	96 160	0.096	0.00154		410	<0.001		8,35 7,40	17 6.1	
/2014			<0.05	<0.01	26 13	<0.01	<0.1	<1	7.64 6.88	140 75	0.096 <0.05	<0.00057		370 200	< 0.001	9	6.52	9.2	
1/2015 5/2015			<0.05	<0.01	21	<0.01	< 0.1	<1	7.31	110	0.062 <0.05	0.00031 <0.0005		310 400	<0.001	6	6.54 7.32	13.5 5.4	
)/2015 )/2016			<0.05	<0.01	28 18		<0.10 0.20*	<1	7.90	129	0.063	0.00099		330	0.005	9	8.88	11	
3/2016		19.5	<0.0002		25 28	<0.20	0.005 <0.2		7.96 8.02	155 186	0.086	0,00064		388 467	0.003		7.25	5.7	
1/2016 8/2016			-0,0002		26	0,000					<0.02 <0.02	<0.0002	-	1					
8/2016 7/2017	Duplicate	7	100		27 16.8		0.051	4.3	8.05	138	0.081	0.01912		338	0.004	10	9.16 9.16	11.8 11.8	-
7/2017 9/2017	Duplicate	19.0	<0.0002	<0.003	16,9	0.010	0.016		7.50	160	0.041	0.00968 0.00244		409	0.002	4	7,33	17.1	-
4/2017		21.0	< 0.0002		20	<0.010		2.6	7.95		<0.015	<0.0002		357	0.004	11	7.58	5.8	

## Station: SW-3

Paran PWQO -	reter -	As 0.1	B	Ba	Ca	0.0001	Cr 0.1	0.005	Fe 0.3	Hg 0.0002	K	Mg	Mn	TDS	TKN	Total P 0.03	COD	BOD	TSS
MQO -	The same	0.1 mg/L	0.2 mg/L	mg/L	mg/L	mg/L	0.1 mg/L	ing/L	0.3 mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
5/28/2004		tug/c.	mgrc	myr	my	niger	myc	night	1,49	ing/i	myre	mg/L	ingre	Ing/L	0.59	0.05	62	1.0	34
8/19/2004		< 0.002	< 0.002	0.065	5.90	< 0.0001	-	0.011	7.64	< 0.0001	2	3.5	0.115	170	0.70	0.17	115	0.9	32
8/3/2005		0.0012	< 0.01	0.016	11	< 0.0001	< 0.005	0.0025	1.1		5.1	4.8	0.12		1.4	0.14	86	< 2	21
9/2/2005		< 0.0001	0.011	0.017	200	< 0.0001		0.002	1.9	< 0.0001			1	92	1.9	0.18	73	9	10
10/21/2005		< 0.001	0.017	0.016		< 0.0001	< 0.005	< 0.001	0.55	< 0.0001	_		1	126	1.1	0.02	78	2	14
5/16/2006		100	-	-			-	-	12	-	_		-	22 32	1.6	0.14	91 85	< 2	110 8
5/15/2007 8/15/2007		<0.2	<0.02	0.04		<0.005	<0.01	<0.02	12	<0.0001		-		62	18	2,10	320	4.0	1100
10/18/2007		<0.2	<0.02	0.03		<0.005	<0.01	<0.02	0.13	<0.0001	-			47	2.1	0.08	82	<2	1
5/21/2008		10.00	-0.00	0.00		-0.040		101900	1.7	70.000					1	0.05	66	<2	<1
8/20/2008		<0.2	0.02	0.44		<0.005	0.05	0.06	7,7	< 0.0001				110	40	3.00	1000	12	6400
5/31/2011		≺0.2	< 0.02	< 0.03		< 0.005	< 0.01	< 0.02	1.1	<0.0001				35	1.8	0.05	100	<2	<1
5/19/2009		1000				-			0.76						1.1	0.03	78	3	4
8/18/2009		<0.2	<0.02	0.03	-	<0.005	<0.01	<0.02	1.5	<0.0001				60	1.5	0.07	91	<2	16
5/18/2010		≺0.2	< 0.02	<0.03		<0.005	<0.01	<0.02	5.7	<0.0001	_	-		35	4.3	0.06	190	2	95
8/25/2010		<0.2	<0.02	<0.02		< 0.005	<0.01	<0.02	9.1	<0.0001				46	1.7	0.097	110	3	21
10/21/2010		<0.2	< 0.02	<0.02		<0.005	<0.01	<0.02	1.5	<0.0001				36	1.0	0.035	80	<2	43
5/31/2011				7.0.0.0		100000		-	2.1	-					2.6	0.190	110	<2	5
8/24/2011		<0.2	<0.02	0.03		< 0.005	< 0.01	<0.02	12	<0.0001				80	3.0	0.360	120	7	25
10/25/2011		<0.2	< 0.02	<0.02		< 0.005	<0.01	< 0.02	0.86	<0.0001				58	1.3	0.058	52	<2	15
5/18/2012									3.7	N. W. W. W.			-	100	3.5	0.038	150	18	84
10/23/2012		≺0.2	<0.02	<0.02	-	<0.005	<0.01	< 0.02	1.5	<0.0001	-		-	122	1.5	0.032	84	<2 <2	<1
5/24/2013		<0.2	<0.02	0.065		<0.005	<0.01	<0.02	7.3	<0.0001			-	132	4.4	0.070	76 220	3	190
5/23/2014		70.2	~0.02	0,000	-	40.000	-0.01	-0.02	1.7	40,0001				102	1.4	0.250	67	3	26
10/9/2014		<0.2	< 0.02	0.025	-	< 0.005	<0.01	< 0.02	2.3	< 0.0001				118	1.3	0.056	80	2	6
5/21/2015		-							1.6	/					1.2	0.200	110	<2	87
8/25/2015		≺0.2	< 0.02	0.021		< 0.005	< 0.01	< 0.02	1.2	< 0.0001				122	1.2	0.055	85	<2	<1
10/20/2015		<0.2	< 0.02	0.058		< 0.005	<0.01	< 0.02	8	<0.0001				126	1.00	0.400	210	<2	180
5/10/2016				2 2 2 2			*****		1.7		4.90		0.010		1.17	0.097	84	-	17
9/8/2016		0.0006	<0.05	0.014	4.37	<0.00001	0.0017	0.004	0.96	<0.00001	0.79	2.0	0.018	68	1.43	0.083	98	<6	74
11/1/2016		0.0003	<0.05	0.015	-	<0.00001	0.0011	0.003	1,60	<0.00001				24	1.68	0.149	113 95	<6 9.0	109
8/29/2017		0.0007	<0.02	0.013	7.5	<0.00002	< 0.001	0.001	1.90	0.000004	0.72	3.2	0.069	66	1.50	0.018	97	NA.	38.5
10/24/2017		0.0008	< 0.02	0.014	5.3	< 0.00002	0.0014	0.002	0.90	0.000007	0.52	24	0.024	94	1.20	0.080	88	12.0	47
		100.00	7600	THE RESERVE	0.00	10000000	Control of	The Court	The state of	The second	T. W.	Unionized	1000	Total de la	100000		and the same	40.600	1000000
Paran	neter -	Na	Pb	Zn	CI-	NO2-N	NO3-N	804	pH	alk42	NH3-N	NH3-N	DOC	Cond.	Phenois	DO	Field pH	Field T	Field Co
WQO -		4.04	0.003	0.02	100/60	1000	77.77	100	6.5 - 8.5			0.02	2756	1007	0.001	200	7		100000
nits -		mg/L	mg/L	mg/L	mg/L <0.6	mg/L < 0.2	mg/L < 0.2	mg/L 2.8	n/a 6,18	mg/L	mg/L 0.03	mg/L 0,00001	mg/L	mg/L 27	mg/l. <0.001	mg/L	5.50	4.5	30
5/26/2004		1.8	0.0026	0.047	5	< 0.2	< 0.2	1.5	6.65	13	NA	0,00001	-	31	0.001	5	0.00	10.0	30
8/3/2005		2.4	0.0007	0.022	2	< 0.3	< 0.2	4	7.10	40.6	< 0.05	<0.0005	_	86	0.002	6	4.40	19.4	90
9/2/2005		4.12	< 0.0005	0,0067	2	< 0.3	< 0.2	15.6	6.95	36.1	< 0.05	< 0.0005		92	< 0.001	10	5.20	13.1	70
10/21/2005			< 0.0005	0.005	7	< 0.01	< 0.1	<1	7.45	43	0.05	0.00021		103	< 0.001	12	4.00	7.3	10
5/16/2006				- X	2	< 0.01	< 0.1		7.10	25	< 0.05	<0.0005		55	< 0.001	12	6.60	17.5	
5/31/2011		,	1000	and the	1	< 0.01	<0.1	18	6.40	9	<0.05	<0.0005		85	<0.001	13	6.25	9.3	
8/15/2007		-	< 0.05	0.02	<10	<0.01	<0.1	<1	7.20	43	0.27	0.00114		90	0.003	6	6.79	14.7	65
10/18/2007			<0.05	0.01	2	0.01	<0.1	13	7.00 6.70	17	< 0.05	<0.0005 <0.0005		75 38	<0.001	5 16	6,12 6.64	5.5	
5/21/2008 8/20/2008		-	< 0.05	0.19	41	<0.01	<0.1 <0.1	<1	7,30	83	0.41	0.00363	-	166	0.008	8	6.46	21.7	-
10/24/2008			<0.05	<0.02	<1	<0.01	<0.1	<1	6.90	17	<0.05	<0.0005	-	57	< 0.001	9	6.76	6.7	50
5/19/2009		1	-0.00	TOTAL	<1	< 0.01	<0.1	<1	6.60	9	< 0.05	< 0.0005	-	39	<0.001	10	6.91	n/a	58
8/18/2009			< 0.05	< 0.02	<1	<0.01	<0.1	<1	6.70	43	<0.05	<0.0005		89	<0.001	5	7.08	16.6	76
10/22/2009	-		<0.05	<0.02	<1	< 0.01	<0.1	<1	-6,50	23	< 0.05	<0.0005		54	<0.001	7	7.68	3.2	48
5/18/2010			- 12 54		1	<0.01	<0.1	30	6.00	6	0.07	0.00002		43	<0.001	10	7.25	16.3	41
B/25/2010			< 0.05	<0.01	2	<0.01	<0.1	<1	6.70	34	<0.05	<0.0005		75	0.004	13	6.30	16.5	
10/21/2010			<0.05	<0.01	1	< 0.01	<0.1	<1	6.79	28	<0.05	<0.0005	15	59	<0.001	7	8.48	6.8	80
5/31/2011		-	< 0.05	<0.01	1 2	<0.01	<0,1 <0,1	<1 9	6.48	9	0.08	0.00006		35 104	<0.001	6	6.87 7.43	17.9	100
8/24/2011			<0.05	<0.01	<1	<0.01	<0.1	18	6.80	15	<0.05	< 0.00007	-	84	0.019	10	6,94	2.8	97
5/18/2012			~0.00	-0.01	2	<0.01	<0.1	5	6.47	26	< 0.05	<0.0005		84	0.006	11	6.50	24.7	99
10/23/2012		-	< 0.05	<0.01	2	<0.01	<0.1	9	6.13	8.4	0.073	0.00001		59	<0.001	9	6.84	6.3	65
5/24/2013			-		1	< 0.01	<0.1	1	6.65	8.9	0.072	0.00007		37	0.004	12	9.67	12.5	45
10/17/2013			< 0.05	<0.01	2	<0.01	<0.1	<1	6.55	25	< 0.05	<0.0005		62	0.007	6	7.06	5.2	51
5/23/2014					2	<0.01	≺0.1	2	6.44	9	<0.05	≺0.0005		35	0.006	11	7.52	20.6	61
10/9/2014			<0.05	0.01	1	< 0.01	<0.1	<1	6.44	15	0.086	0.00004		59	0.008	5	7.45	7.7	61
5/21/2015			-		1	<0.01	<0.1	1	6.03	7.8	< 0.05	<0.0005		37	< 0.001	10	6.21	8.4	38
8/25/2015			<0.05	<0.01	1.6	<0.01	<0.1	1	6.08	6.6	< 0.05	<0.0005		33	<0.001	6	6.86	13.5	36
10/20/2015		_	<0.05	0.020	1	<0.01	<0.10	<1	6.66	27	<0.05	<0.0005	-	66	<0.001	8	6.96	3.4	53
		4 44	<0.0002		2.2	0.020		1.6	6.43	7.53	< 0.05	<0.0005 0.00002		31	0.002	6	8.29	4.5	31
5/10/2016		1.53	<0.0002		2.7	0.020	<0.20 <0.2	<0.5 <0.5	6.47	6,66	0.053	0.00002		37 38	0.002	0	7.18	6.5	38
5/10/2016 9/8/2016			*0.0002		<0.5	< 0.019	<0.2	1.2	6.58	8.76	0.043	0.00002		33	0.001	7	8.39	8.5	38
5/10/2016 9/8/2016 11/1/2016									0.00	1 0.70	0.010	0.00001		00	0.004		0.00		
5/10/2016 9/8/2016 11/1/2016 5/17/2017		1.0	<0.0002	0.005		<0.010	<0.010	<0.50		27	0.047	0.00005		65	0.003	4	6.29	13.0	92
5/10/2016 9/8/2016 11/1/2016		1.9	<0.0002	0.005	0.53				6.60 6.66	27 11.4	0.047 <0.015	0.00005 <0.0002		65 41	0.003	4 8	6.29 7.24	13.9	92 34

"Nirate plus Nitrit

## Station: SW-4

Paran PWQ0 -	neter -	As 0.1	B 0.2	Ва	Ca	0.0001	Cr 0.1	Cu 0.005	Fe 0.3	Hg 0.0002	К	Mg	Mn	TDS	TKN	Total P 0.03	COD	BOD	TSS
Units - 5/26/2004		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L 0.04	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L 0.18	mg/L 0,009	mg/L	mg/L 0,8	mg/L
8/19/2004		< 0.002	< 0.005	0.008	5.80	< 0.0001	< 0.005	0.001	0.04	<0.0001	8.0	1.3	0.010	32	0.18	0.072	12	0.9	6
10/14/2004 8/3/2005		< 0.002	< 0.005	0.007	4.1	< 0.0001 < 0.0001	< 0.005 < 0.005	0.0006	< 0.03		0.82	1.2	0.0085	34	0.22	0.009	14	1.0	6
9/2/2005		< 0.001	< 0.010	0.006	- 417	< 0.0001	< 0.005	< 0.0011	< 0.050	< 0.0001	0.02	1,2	0.0005	64	0.40	0.009	12	< 2	4
10/21/2005	5	< 0.001	< 0.010	0.008		< 0.0001	< 0.005	< 0.001	0.058	< 0.0001				40 73	0.30	0.006	12	< 2	4
5/16/2006 8/29/2006	3	< 0.001	< 0.010	0.005	-	< 0.0001	< 0.005	< 0.001	< 0.091	< 0.0001			_	21	0.50	0.007	11	< 2	3
10/17/2006	3	< 0.2	< 0.02	< 0.02		< 0.005	< 0.01	< 0.02	0.06	< 0.0001				29	0.30	0.011	11	< 2	1
5/15/2007 8/15/2007		<0.02	<0.02	<0.02		<0.005	<0.01	<0.02	<0.05 0.17	<0.0001			-	17	0.50	0.012	10	<2 <2	<1
10/18/2007		<0.2	< 0.02	< 0.02		<0.005	<0.01	<0,02	0.13	<0.0001				40	0.50	0.015	13	<2	3
8/20/2008	3	<0.02	<0.02	<0.02		< 0.005	<0.01	<0.02	< 0.05 < 0.05	<0.0001				28	0.40	0.006	16	<2 <2	<1
10/24/2008		<0.02	<0.02	<0.02		<0.005	<0.01	<0,02	0.03	<0.0001				26	0.30	0.030	10	<2	1
5/19/2009 8/18/2009		<0.02	< 0.02	<0.02		<0.005	<0.01	< 0.02	0.34 ≺0.05	< 0.0001			-	26	0.70	0.044	21	<2 <2	10 <1
10/22/2009		<0.02	<0.02	<0.02		<0.005	<0.01	<0.02	0.05	<0.0001				25	0.30	0.003	12	×2	6
5/18/2010 8/25/2010		<0.2	<0.02	<0.02		< 0.005	<0.01	< 0.02	0.03	<0.0001		-		24	0.40	<0,002 0,004	13	<2	2 2
10/21/2010		<0.2	<0.02	<0.02		<0.005	<0.01	<0.02	0.05	<0.0001				22	0.40	0.005	<4	<2	3
5/31/2011 8/24/2011		<0.2	<0.02	< 0.02		< 0.005	<0.01	<0.02	0.03	< 0.0001	-			30	0.40	0.008	15 24	<2 <2	12
10/25/2011		<0.2	<0.02	<0.02		<0.005	<0.01	<0.02	0.03	<0.0001				24	0.30	0.003	13	<2	<1
5/18/2012 8/30/2012		<0.2	<0.02	<0.02		<0.005	<0.01	<0.02	<0.02 0.04	<0.0001				28	0.39	0.011	12	<2	<1 7
10/23/2012	2	<0.2	<0.02	<0.02		<0.005	<0.01	<0.02	<0.02	<0.0001				40	0.34	< 0.004	25	<2	15
5/24/2013 8/29/2013	3	<0.2	<0.02	0.006		< 0.005	<0.01	<0.02	0.06 <0.02	<0.0001				42	0.97 0.38	0.009	13	<2 <2	5
10/17/2013 5/23/2014		<0.2	<0.02	0.007		< 0.005	<0.01	<0.02	0.14	<0.0001				48	0.59	0.023 <0.002	31	<2 <2	16
8/21/2014		<0.2	<0.02	0.006		<0.005	<0.01	<0,02	0.03	<0.0001				34	0.34	0.002	12	<2	160
10/9/2014		<0.2	<0.02	0.011		<0.005	<0.01	<0.02	0.37	<0.0001				44	0.77	0.019	8.7 6.9	<2 <2	21
5/21/2015 8/25/2015	5	<0.2	<0.02	0.006		<0.003	<0.01	<0.02	0.04	<0.0001				46	0.22	0.014	13	<2	2
10/20/2015		<0.2	<0.02	0.006		<0.005	<0.01	< 0.02	0.05	<0.001				16	0.18	0.011	4.2	<2	<1 <4
5/10/2016 9/8/2016		0.0001	<0.05	0.006	3.83	<0.00001	<0.001	0.0007	0.04	<0.00001	0.067	1.2	0.002	24	0.23	0.004	<10 28	<6	14
11/1/2016	3	0.0002	<0.05	0.007		<0.00001	<0.001	0.0005	0.08	<0.00001				26	0.30	0,012	22	<2 <3	<4 <4
5/17/2017 6/29/2017		< 0.0002	<0.02	<0.010	3.7	<0.00002	<0.001	0.0008	<0.06	<0.000002	0.57	1.1	< 0.004	<10	0.21	0.005	12 8.4	NA.	<4
10/24/2017		0.0003	<0.02	< 0.010	4.3	<0.00002	<0.001	0.0041	<0.06	<0.000002	0.69	1.3	< 0.004	18	0.26	0.010	13	13.0	29.3
	neter -	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pH	alk42	NH3-N	Unlonized NH3-N	DOC	Cond.	Phenois	DO	Field pH	Field T	Field Cond
PWQO -	neter -	0.00	0.003	0.02		1000	W. S. (1971 -		6.5 - 8.5	-		NH3-N 0.02	1000		0.001		Field pH	Field T	Field Cond
PWQO - Units - 5/26/2004		mg/L	0.003 mg/L	0.02 mg/L	mg/L <0.5	mg/L < 0.2	mg/L <0.2	mg/L 3.1	6.5 - 8.5 n/a 7.25	mg/L 20	mg/L < 0.03	NH3-N	mg/L	mg/L 37	0.001 mg/L < 0.001	mg/L	Field pH	11.0	Field Cond
PWQO - Units - 5/26/2004 8/19/2004		0.00	0.003 mg/L < 0.0005	0.02 mg/L 0.021	mg/L <0.5 < 0.5	mg/L < 0.2 < 0.2	mg/L <0.2 < 0.2	mg/L 3.1 3.1	6.5 - 8.5 n/a 7.25 7.26	mg/L 20 16	mg/L < 0.03 NA	NH3-N 0.02 mg/L <0.0003	1000	mg/L 37 36	0.001 mg/L < 0.001 < 0.001	mg/L 6 8	5.70	11.0 17.0	40
PWQO - Units - 5/26/2004 8/19/2004 10/14/2004 5/31/2011		mg/L	0.003 mg/L < 0.0005 < 0.0005 < 0.0002	0.02 mg/L 0.021 < 0.005 < 0.005	mg/L <0.5 < 0.5 0.7 < 1	mg/L < 0.2 < 0.2 < 0.2 < 0.2	mg/L <0.2 < 0.2 < 0.2 < 0.2	mg/L 3.1 3.1 2.9 10.0	6.5 - 8.5 rVa 7.25 7.26 7.18 7.44	mg/L 20 16 14 13	mg/L < 0.03 NA < 0.03 < 0.05	NH3-N 0.02 mg/L <0.0003 <0.0003	1000	mg/L 37 36 39 35	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9	5.70 6.60 7.20	11.0 17.0 10.0 23.7	40 30 30
PWQO - Units - 5/26/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0002 < 0.0005	0.02 mg/L 0.021 < 0.005 < 0.005 < 0.005	mg/L <0.5 < 0.5 0.7 < 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.3	mg/L <0.2 < 0.2 < 0.2 < 0.2 1.700	mg/L 3.1 3.1 2.9 10.0 10.8	6.5 - 8.5 n/a 7.25 7.26 7.18 7.44 7.41	mg/L 20 16 14 13	mg/L < 0.03 NA < 0.03 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0003 <0.0003 <0.0005	1000	mg/L 37 36 39 35 36	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9 9	5.70 6.60 7.20 4.90	11.0 17.0 10.0 23.7 23.7	40 30 30 20
PWQ0 - Units - 5/26/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 10/21/2005 5/16/2006		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0002 < 0.0005 < 0.0005	0.02 mg/L 0.021 < 0.005 < 0.005 < 0.005 < 0.005	mg/L <0.5 < 0.5 0.7 < 1 2 < 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.3 < 0.01	mg/L <0.2 < 0.2 < 0.2 < 0.2 < 0.2 1.700 < 0.1 < 0.1	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 < 1	6.5 - 8.5 n/a 7.25 7.26 7.18 7.44 7.41 7.36 7.10	mg/L 20 16 14 13 13 14 14	mg/L < 0.03 NA < 0.03 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0003 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9 9 16 12	5.70 6.60 7.20 4.90 4.10 7.90	11.0 17.0 10.0 23.7 23.7 7.8 14.3	40 30 30
PWQO - Units - 5/26/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 5/16/2006 8/29/2006		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	0.02 mg/L 0.021 < 0.005 < 0.005 < 0.005 < 0.005	mg/L <0.5 < 0.5 0,7 < 1 2 < 1 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01	mg/L <0.2 < 0.2 < 0.2 < 0.2 < 0.2 1.700 < 0.1 < 0.1	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 < 1 3.0	6.5 - 8.5 r/a 7.25 7.26 7.18 7.44 7.41 7.36 7.10 7.40	mg/L 20 16 14 13 13 14 14 14	mg/L < 0.03 NA < 0.03 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0003 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19	5.70 6.60 7.20 4.90 4.10 7.90 7.76	11.0 17.0 10.0 23.7 23.7 7.8 14.3	40 30 30 20
PWQO - Units - 5/26/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2006 5/15/2007		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	0.02 mg/L 0.021 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	mg/L <0.5 < 0.5 0.7 < 1 2 < 1 1 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.2 < 0.2 < 0.2 < 0.2 < 0.2 1.700 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 < 1 3.0 3.0 3.0	6.5 - 8.5 n/a 7.25 7.26 7.18 7.44 7.41 7.36 7.10 7.40 6.80	mg/L 20 16 14 13 13 14 14 14 15	mg/L < 0.03 NA < 0.03 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19 11 16 6	5.70 6.60 7.20 4.90 4.10 7.90 7.76 7.98 7.55	11.0 17.0 10.0 23.7 7.8 14.3 19.5 8.2	40 30 30 20 20
PWQO - Units - 5/26/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2006 5/16/2007 8/15/2007		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	0.02 mg/L 0.021 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	mg/L <0.5 < 0.5 0.7 < 1 2 < 1 1 1 1 1 < 1 < 1 < 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.2 <0.2 <0.2 <0.2 <0.2 1.700 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 < 1 3.0 3.0 3.0 3.0	6.5 - 8.5 n/a 7.25 7.26 7.18 7.44 7.41 7.36 7.10 7.40 6.80 7.30	mg/L 20 16 14 13 13 14 14 14 15 17	mg/L < 0.03 NA < 0.03 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19 11 16 6	5.70 6.60 7.20 4.90 4.10 7.90 7.76 7.96 7.55 8.32	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16	40 30 30 20
PWQO - Units - 5/28/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 5/16/2006 8/29/2006 5/15/2007 10/17/2006 5/15/2007 5/15/2007 5/21/2008		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0002 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005	0.02 mg/L < 0.005 < 0.005 < 0.005 < 0.005 < 0.001 < 0.01	mg/L <0.5 < 0.5 < 0.5 0.7 < 1 2 < 1 1 1 1 1 1 2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 < 1 3.0 3.0 3.0 3.0 4.0 6.0	6.5 - 8.5 n/a 7.25 7.26 7.18 7.44 7.41 7.36 7.40 7.40 6.80 7.30 7.00	mg/L 20 16 14 13 13 14 14 14 15 17 13 13 13	mg/L < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41 39	0.001 mg/L < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19 11 16 6 13 9	5.70 6.60 7.20 4.90 4.10 7.90 7.76 7.98 7.55 8.32 7.7	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.8	40 30 30 20 20
PWQO - Units - 5/28/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2006 10/17/2006 5/15/2007 8/15/2007		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	0.02 mg/L 0.021 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	mg/L <0.5 < 0.5 < 0.5 < 0.7 < 1 2 < 1 1 1 1 1 <1 <1 <2 <1 2 <1 2 <1 2 <1 2 2 4 4 5 5 5 7 7 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 < 1 3.0 3.0 3.0 3.0 4.0	6.5 - 8.5 n/a 7.25 7.26 7.18 7.44 7.41 7.36 7.10 7.40 6.80 7.30 7.00	mg/L 20 16 14 13 13 14 14 14 15 17 13 13	mg/L < 0.03 NA < 0.03 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41	0.001 mg/L < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19 11 16 6 13	5.70 6.60 7.20 4.90 4.10 7.90 7.76 7.98 7.55 8.32 7.7	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2	40 30 30 20 20
PWQO - Units - 5/26/2004 8/19/2004 10/14/2004 10/14/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 6/15/2007 5/20/2008 8/20/2008 10/24/2008 10/24/2008		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005	0.02 mg/L 0.021 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.001 < 0.01 < 0.01	mg/L <0.5 < 0.5 0.7 < 1 2 < 1 1 1 1 < 1 < 1 < 1 2 < 1 6	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01	mg/L <0.2 < 0.2 < 0.2 < 0.2 < 0.1 / 700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 <	mg/L 3.1 3.1 2.9 10.0 4.0 3.0 4.1 3.0 3.0 4.0 6.0 3.0 4.0 5.0	6.5 - 8.5 n/a 7.25 7.26 7.18 7.44 7.41 7.36 7.10 7.40 7.40 7.40 7.30 7.00 7.	mg/L 20 16 14 13 13 14 14 15 17 13 19 13 13 10	mg/L < 0.03 NA < 0.03 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41 39 41 60	0.001 mg/L < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19 11 16 6 13 9 13 12 13	5.70 6.60 7.20 4.90 4.10 7.96 7.95 7.55 8.32 7.7 7.43 7.89 8.84	11.0 17.0 10.0 23.7 7.8 14.3 19.5 8.2 16 10.2 12.6 22.3 10.3	40 30 30 20 20 20 44
PWQO - Units - 5/28/2004 8/19/2004 10/14/2004 10/14/2005 5/16/2008 8/29/2006 6/15/2007 10/17/2008 8/15/2007 10/18/2007 6/15/2007 10/18/2007 10/18/2007		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005	0.02 mg/L < 0.005 < 0.005 < 0.005 < 0.005 < 0.001 < 0.01	mg/L <0.5 < 0.5 0.7 < 1 1 1 1 1 1 < 1 < 1 2 < 1 2 < 1 1 1 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01	mg/L <0.2 < 0.2 < 0.2 < 0.2 < 0.1 < 0.1	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 <1 3.0 3.0 4.0 6.0 3.0 4.0	6.5 - 8.5 r/a 7.25 7.26 7.18 7.44 7.41 7.36 7.10 7.40 7.40 7.40 7.40 7.40 6.80 7.30 7.00 7.00 7.00 7.40 6.80 7.40 6.80	mg/L 20 16 14 13 13 14 14 15 17 13 13 13 13 13	mg/L < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41 39 41	0.001 mg/L < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19 11 16 6 13 9 13	5.70 6.60 7.20 4.90 4.10 7.90 7.76 7.98 8.32 7.7 7.43 7.82 7.95	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3	40 30 30 20 20 20
PWQO - Units - 5/28/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2006 10/17/2006 5/15/2007 6/15/2007 10/18/2007 5/15/2007 10/24/2008 8/29/2008 10/24/2008 6/19/2009 6/18/2009 6/18/2009		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0002 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.0005 < 0.0005	0.02 mg/L  0.021  < 0.005  < 0.005  < 0.005  < 0.005  < 0.01  <0.01  <0.01  <0.01  <0.01	mg/L <0.5 < 0.5 0.7 < 1 2 < 1 1 1 1 1 1 2 2 < 1 2 2 1 6 6 1 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 <	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.2 < 0.2 < 0.2 < 0.2 < 0.2 1,700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 <	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 3.0 3.0 3.0 3.0 4.0 5.0 3.0 5.0 5.0	6.5 - 8.5 n/a 7.25 7.26 7.18 7.41 7.36 7.10 7.40 7.40 7.40 7.40 7.00 7.	mg/L 20 16 14 13 13 14 14 15 17 13 13 13 13 15 16 17 17 13 13 13 15 15 15 15 16 17 17 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	mg/L < 0.03 NA < 0.03 < 0.05 <	NH3-N 0.02 mg/L 20,0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41 40 60 36 46 36	0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 6 8 9 9 16 12 19 11 16 6 13 9 13 12 13 11 19 11 14	5.70 6.60 7.20 4.90 4.10 7.90 7.76 7.95 8.32 7.7 7.43 7.82 7.91 8.92 8.37	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 48 20.8 3.6	40 30 30 20 20 20 44 44
PWQO - Units - 5/28/2004 8/19/2004 10/14/2004 10/14/2005 5/16/2008 8/29/2006 6/15/2007 10/17/2008 8/29/2006 8/29/2008 8/29/2008 8/29/2008 8/15/2007 10/18/2007 5/19/2009 8/19/2009 10/24/2008		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0002 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.02 mg/L  0.021  < 0.005  < 0.005  < 0.005  < 0.005  < 0.005  < 0.001  <0.01  <0.01	mg/L <0.5 < 0.5 < 0.5 < 0.7 < 1 2 < 1 1 1 1 1 < 1 < 1 < 1 2 < 1 2 < 1 6 1 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 <	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 <	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 <1 3.0 3.0 3.0 3.0 4.0 6.0 5.0 3.0 4.0 6.0	6.5 - 8.5 r/a 7.25 7.26 7.18 7.41 7.36 7.10 7.40 7.40 7.40 7.80 7.90 7.90 7.90 7.90 7.90 8.80 6.80 6.30 8.10	mg/L 20 16 14 13 13 14 14 14 15 17 13 19 13 10 15 15 15	mg/L < 0.03 NA < 0.03 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L c0.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 39 41 41 40 60 36 46	0.001 mg/L < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19 11 16 6 13 13 12 13 11 13	5.70 6.60 7.20 4.90 4.10 7.96 7.96 7.55 8.32 7.7 7.42 7.95 8.84 7.91 8.92	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 n/a 20.8 3.6	40 30 30 20 20 20 44 44
PWQO - Units - 5/28/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2008 10/17/2006 5/15/2007 10/18/2007 5/15/2007 10/18/2009 8/20/2008 8/20/2008 6/19/2009 8/18/2009 10/22/2008 6/18/2009 10/22/2008 5/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010 6/18/2010		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	0.02 mg/L  0.021  < 0.005  < 0.005  < 0.005  < 0.001  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01	mg/L <0.5 < 0.5 0.7 < 1 2 < 1 1 1 1 < 1 2 < 1 2 < 1 2 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1 < 1 4 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.05 < 0.05	mg/L  <0.2 <0.2 <0.2 <0.2 <0.2 <0.0 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 3.1 3.9 10.0 10.8 3.0 <1 3.0 3.0 3.0 4.0 6.0 3.0 4.0 5.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 Na 7.25 7.26 7.18 7.44 7.41 7.30 7.40 7.40 7.40 7.30 7.00 7.40 6.80 7.30 7.00 7.40 8.10 6.40 8.10 7.10	mg/L 20 16 14 13 13 14 14 14 15 17 13 13 19 13 10 15 15 10 12 13 11	mg/L < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L 20,0003 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,0005 <0,000	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41 39 40 60 36 46 36 37 37	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9 9 9 16 12 19 11 16 6 13 9 13 12 13 12 13 14 8 11 11	5.70 6.60 7.20 4.90 7.96 7.96 7.95 8.32 7.7 7.42 7.95 8.84 7.91 8.92 8.97 7.97 8	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 40 20.8 3.6 16.2 16.8 8.3 13.7	40 30 30 20 20 20 44 44 30 54 38 42 32 65 30
PWQO - Units - 5/28/2004 8/19/2004 10/14/2004 10/14/2005 10/21/2005 5/16/2008 8/29/2006 6/15/2007 6/15/2007 6/15/2007 6/15/2007 6/15/2007 6/15/2009 8/20/2008 8/20/2008 8/19/2009 6/19/2009 10/24/2008 6/19/2009 10/22/2008		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	0.02 mg/L  0.021  < 0.005  < 0.005  < 0.005  < 0.001  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01	mg/L <0.5 <0.5 0.7 <1 2 <1 1 1 1 <1 <1 2 1 6 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	mg/L < 0.2 < 0.2 < 0.2 < 0.2 < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.2 < 0.2 < 0.2 < 0.2 < 0.2 1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 <	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 3.0 3.0 3.0 3.0 4.0 6.0 3.0 5.0 5.0 3.0 5.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 Na 7.25 7.26 7.18 7.44 7.41 7.30 7.40 6.80 7.30 7.0	mg/L 20 16 14 13 13 13 14 14 15 17 13 13 19 13 13 13 15 15 17 15 15 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	mg/L < 0.03 NA < 0.03 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L co.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41 39 41 40 60 36 36 37	0.001 mg/L (0.001 mg/L (0.001 mg/L (0.001 e).001 e)	mg/L 6 8 9 9 16 12 19 11 16 6 13 9 13 12 13 11 19 12 13 11 14 8 11 11	5.70 6.60 7.20 4.90 7.90 7.76 7.55 8.32 7.7 7.43 7.85 8.84 7.91 8.92 8.37 7.95 8.37 7.95 8.37 7.95 8.36	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 da 20.8 3.6 16.2 16.8	40 30 30 20 20 20 44 44 30 54 38 42 32
PWQO - Units - 5/28/2004 8/19/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2008 6/15/2007 10/18/2007 10/18/2007 10/18/2007 5/19/2008 8/18/2009 10/24/2008 5/19/2008 6/18/2007 10/21/2010 10/21/2010 10/21/2010 10/21/2010 5/31/2011 8/24/2011 10/25/2011		mg/L 1.2	0.003 mg/L  < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	0.02 mg/l 0.021 < 0.005 < 0.005 < 0.005 < 0.001 < 0.001 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.5 < 0.5 < 0.5 0.7 < 1 2 < 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L  <0.2 <0.2 <0.2 <0.2 <0.2 <0.0 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 <1 3.0 3.0 3.0 4.0 6.0 4.0 5.0 5.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 n/a 7.25 7.28 7.18 7.44 7.41 7.40 6.80 7.30 7.00 7.00 7.40 6.80 6.30 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 6.80 7.10 7.40 7.40 6.80 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.00 7.	mg/L 20 16 14 13 13 14 14 14 15 17 13 13 10 15 15 15 10 12 13 11 12 13 12	mg/L < 0.03 NA < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/l <0.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41 40 60 36 46 36 46 37 37 37 37 35 38	0.001 mg/L   < 0.001 c   0	mg/L 6 8 9 9 16 12 19 11 16 6 6 3 13 9 13 12 13 11 19 14 8 11 10 9 9	5.70 6.60 7.20 4.10 7.90 7.76 8.32 7.7 7.43 7.95 8.84 7.91 8.92 7.97 8.93 7.97 8.93 7.96 8.93 7.97 8.93 7.96 8.93 7.96 8.93 7.96 8.93 7.96 8.93 7.96 8.93 7.96 8.93 7.95 8.94 7.95 8	11.0 17.0 10.0 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 via 20.8 3.6 16.2 16.8 8.3 13.7 21 6.9 20	40 30 30 20 20 20 44 44 30 54 38 42 32 65 30 36 90 43
PWQO - Units - 5/28/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2006 10/17/2006 5/15/2007 6/15/2007 10/18/2007 10/24/2008 8/29/2008 8/19/2009 8/19/2009 8/18/2009 10/22/2008 6/19/2009 6/18/2010 8/25/2010 10/21/2010 8/31/2011 8/24/2011 8/24/2011		mg/L 1.2	0.003 mg/L  < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 <0.005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.02 mg/L  0.021 co.005 co.005 co.005 co.005 co.005 co.005 co.005 co.001 co.01	mg/L <0.5 < 0.5 0.7 < 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L  <0.2 <0.2 <0.2 <0.2 <0.2 <0.0 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 < 1 3.0 3.0 3.0 4.0 3.0 4.0 6.0 3.0 4.0 5.0 3.0 4.0 3.0 3.0 4.0 3.0 4.0 3.0 3.0 4.0 3.0 4.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 r/a 7.25 7.26 7.18 7.44 7.41 7.36 7.10 7.40 6.80 7.90 7.	mg/L 20 16 14 13 13 13 14 14 14 15 17 13 13 13 13 13 15 15 15 15 15 15 15 15 15 15 15 15 15	mg/L < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L 20,0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41 40 60 36 46 36 37 37 37 37 37	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9 9 9 16 12 19 11 16 6 13 9 13 12 13 12 13 14 8 8 11 11 9 9	5.70 6.60 7.20 4.90 4.10 7.96 7.96 7.98 7.55 8.32 7.7 7.43 7.82 7.91 8.92 8.97 7.91 8.92 8.97 7.96 8.97 7.96 8.97 7.96 8.97 7.96 8.97 7.96 8.97 7.96 8.97 7.96 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 7.98 8.97 8	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 10.2 12.6 22.3 10.3 0/a 20.8 3.6 16.2 16.8 3.7 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3	40 30 30 20 20 20 44 44 30 54 38 42 32 65 30 30 90
PWQO - Units - 5/28/2004 8/19/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2008 6/15/2007 10/18/2007 10/18/2007 10/18/2007 10/24/2008 6/19/2008 8/20/2008 10/24/2008 6/19/2008 10/24/2008 6/19/2008 10/24/2008 6/19/2008 10/24/2011 6/19/2008 6/19/2008 10/24/2011 6/19/2008 6/1		mg/L 1.2	0.003 mg/L  < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	0.02 mg/L 0.021 0.021 0.021 0.021 0.005 0.005 0.005 0.005 0.001 0.01 0.0	mg/L <0.5 < 0.5 < 0.5 < 0.7 < 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L  <0.2 <0.2 <0.2 <0.2 <0.2 <0.0 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 <.1 3.0 3.0 3.0 3.0 4.0 6.0 5.0 5.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 n/a 7.25 7.26 7.18 7.44 7.41 7.40 6.80 7.30 7.00 7.	mg/L 20 16 14 13 13 14 14 14 15 17 13 13 10 15 15 10 12 13 11 12 13 12 11 12	mg/L < 0.03 NA < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L c0.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 39 35 36 34 38 39 40 41 36 41 40 60 36 46 36 46 37 37 37 37 37 37 38 38 37	0.001 mg/L (0.001 mg/L (0.001 c) (0.	mg/L 6 8 9 9 16 6 12 19 11 16 6 13 9 13 11 19 12 14 8 11 10 9 10 10 11	5.70 6.60 7.20 4.90 7.90 7.79 7.95 8.32 7.7 7.43 7.95 8.89 7.91 8.92 7.97 8.92 7.97 8.92 7.97 8.92 8.93 7.96 8.33 7.96 8.33 7.96 8.33 7.96 8.33 7.96 8.33 7.96 8.33 7.96 8.33 7.96 8.33 7.96 8.33 7.97 8.32 7.97 8.32 8.33 8.33 8.33 8.34 8.35 8	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 04a 20.8 3.8 16.2 16.8 8.3 13.7 21 6.9 20.1 7.9 10.9	30 30 20 20 20 44 44 38 42 32 65 30 36 90 43 75 38
PWQO - Units - 5/28/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 5/16/2008 10/27/2006 5/15/2007 10/18/2007 5/15/2007 10/18/2007 5/15/2007 10/24/2008 8/20/2008 10/22/2008 10/22/2008 10/22/2008 5/18/2010 10/22/2008 10/22/2010 8/28/2011 10/23/2011 8/24/2011 10/23/2011 8/24/2011 8/24/2011 8/24/2011 8/24/2011 8/24/2011 8/24/2011 8/24/2011 8/24/2011		mg/L 1.2	0.003 mg/L  < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 <0.005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.005	0.02 mg/L  0.021 < 0.005 < 0.005 < 0.005 < 0.005 < 0.001 < 0.001 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.011 < 0.0	mg/L <0.5 < 0.5 < 0.5 < 0.7 < 1 2 < 1 1 1 1 < 1 < 1 2 < 1 6 1 < 1 < 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L  <0.2 <0.2 <0.2 <0.2 <0.2 <0.0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0	mg/L 3.1 3.1 3.1 3.1 3.9 10.0 10.8 3.0 < 1 3.0 3.0 4.0 6.0 3.0 4.0 6.0 3.0 4.0 5.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 Na 7.25 7.25 7.26 7.25 7.26 7.18 7.44 7.41 7.40 6.80 7.00 7.40 6.80 6.40 8.10 7.10 7.40 6.80 6.40 8.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7	mg/L 20 16 14 13 13 13 14 14 14 15 17 13 13 13 10 15 15 15 10 12 13 11 12 11 12	mg/L < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L 20,0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 39 41 41 39 41 40 60 36 45 36 47 37 37 37 37 37 38 38 38 38 39 39 39 39 39 39 40 40 40 40 40 40 40 40 40 40 40 40 40	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19 11 16 6 13 9 13 12 13 12 13 11 9 12 14 8 11 10 9 10	5.70 6.60 7.20 4.90 7.90 7.76 7.98 7.55 8.32 7.7 7.43 7.91 8.92 8.37 7.91 8.92 8.37 7.91 8.92 8.37 7.96 8.32 7.76 8.32 7.76 8.32 7.76 8.32 7.76 8.32 7.76 8.32 7.76 8.32 7.76 8.32 7.76 8.32 7.76 8.32 7.76 8.32 7.76 8.32 7.76 8.32 7.76 8.32 7.76 8.32 8.37 7.91 8.37 8	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 6.8 3.6 16.2 16.8 8.3 13.7 21 6.9 20.1 7.9	30 30 20 20 20 20 44 38 42 32 36 65 30 36 90 43 75 38
PWQO - Units - 5/28/2004 8/19/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2006 5/16/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/24/2008 5/19/2008 8/18/2000 10/22/2008 5/19/2008 5/19/2008 10/22/2008 5/19/		mg/L 1.2	0.003 mg/L  < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.005 <0.005 <0.005 <0.005	0.02 mg/L 0.021 0.021 0.021 0.005 0.005 0.005 0.005 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	mg/L <0.5 < 0.5 < 0.7 < 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L  <0.2 <0.2 <0.2 <0.2 <0.2 1.700 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	6.5 - 8.5 Na 7.25 7.26 7.18 7.44 7.41 7.40 6.80 7.30 7.0	mg/L 20 16 14 13 13 14 14 14 15 17 13 19 13 10 15 15 15 10 12 13 11 12 13 12 11 12 13 11 11 12 13 12 11 11 12 13 12	mg/L < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L c0.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41 39 41 40 60 36 46 36 37 37 37 37 38 38 38 39 37 37 37	0.001 mg/L (0.001 mg/L (0.001 mg/L (0.001 c) (	mg/L 6 8 9 9 16 6 12 19 11 16 6 13 9 13 12 13 11 10 9 10 9 10 9 8 10 12 8 11 10	5.70 6.60 7.20 4.90 7.70 4.10 7.90 7.75 8.32 7.7 7.43 7.95 8.84 7.91 8.92 8.92 8.92 8.93 7.97 8.92 8.93 7.95 8.83 7.97 8.92 8.93 7.95 8.94 8.94 8.94 8.95 7.96 8.95 7.96 8.95 7.96 8.95 8	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.4 20.8 8.3 15.5 16.9 20.1 7.9 17.9	40 30 30 20 20 20 20 44 44 30 54 42 32 65 30 36 90 43 75 38 38 65 38 65 38 78
PWQO - Units - 5/28/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2008 10/17/2008 5/15/2007 10/18/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 6/18/2009 6/18/2009 10/22/2008 5/18/2001 10/21/2011 10/21/2011 10/21/2011 5/31/2011 5/31/2011 5/31/2011 8/29/2013		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	0.02 mg/L   0.021   0.021   0.021   0.005   0.005   0.005   0.005   0.001   0.0	mg/L <0.5 < 0.5 < 0.5 < 0.7 < 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L  <0.2 <0.2 <0.2 <0.2 <0.2 <0.0 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 3.1 3.9 10.0 10.8 3.0 3.0 3.0 3.0 4.0 6.0 3.0 4.0 5.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 n/a 7.25 7.26 7.25 7.26 7.18 7.44 7.41 7.36 7.10 7.40 6.80 7.30 7.00 7.00 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7	mg/L 20 16 14 13 13 13 14 14 14 15 17 17 13 13 19 13 10 15 15 15 10 12 13 13 11 12 12 13 12 11 12 12 13 12	mg/L < 0.03 NA < 0.03 (0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.07 < 0.05 < 0.07 < 0.05 < 0.07 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/l <0.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 41 40 60 36 46 47 37 37 35 38 37 37 37	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19 11 16 6 13 9 13 12 13 11 10 9 12 14 8 11 10 9 10 10 12 8 11	5.70 6.60 7.20 4.90 7.90 7.76 8.32 7.7 7.43 7.95 8.83 7.97 8.95 8.97 7.97 8	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 7.8 10.3 10.3 10.3 10.3 10.3 10.6 10.6 10.7 10.8 10.9	30 30 20 20 20 20 44 38 42 32 65 30 36 90 43 75 38 36 65 38
PWQO - Units - 5/26/2004 8/19/2004 8/19/2004 6/31/2011 9/2/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 10/18/2007 10/18/2007 10/24/2008 8/20/2008 8/19/2009 8/18/2009 8/		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.05 < 0.05 < 0.05	0.02 mg/L   0.021   0.021   0.021   0.005   0.005   0.005   0.005   0.001   0.0	mg/L c0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.7 < 1	mg/L	mg/L  <0.2 <0.2 <0.2 <0.2 <0.0 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 3.1 3.1 3.1 3.9 10.0 10.8 3.0 <1 3.0 3.0 3.0 3.0 3.0 4.0 5.0 3.0 4.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 Na 7.25 7.26 7.25 7.26 7.18 7.44 7.41 7.36 7.10 7.40 6.80 7.30 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7	mg/L 20 16 14 13 13 14 14 15 17 13 13 19 13 10 15 15 10 12 13 13 11 12 12 12 13 13 12 11 12 12 13 13 12 11 11 12 12 13 13 14 14 15 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	mg/L < 0.03 NA < 0.03 NA < 0.03 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L mg/L <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 39 41 40 60 36 46 36 37 37 37 37 38 38 38 37 37 37 37 37 37 37 37 37 37 37 37 37	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19 11 16 6 13 9 13 12 13 11 10 9 10 10 9 8 10 10 9 11 11 10 9 11 11 11	5.70 6.60 7.20 4.90 7.70 7.96 7.96 7.98 8.32 7.7 7.82 7.98 8.94 7.91 8.92 8.37 7.80 8.23 7.80 8.23 7.80 8.23 7.80 8.23 7.80 8.23 7.80 8.23 7.80 8.23 7.80 8.23 7.80 8.23 7.80 8.23 7.80 8.23 7.80 8.23 7.80 8.20 8.20 8.20 8.20 8.20 8.20 8.20 8	11.0 17.0 10.0 23.7 7.8 14.3 19.5 8.2 16 10.2 12.6 22.3 10.3 10.3 10.3 10.3 10.6 20.8 3.6 16.2 16.8 8.3 13.7 21 6.9 20.1 7.9 17.9 18.9 19.5	30 30 20 20 20 20 44 31 32 42 32 32 65 30 36 90 43 38 42 32 32 65 36 90 43 38 45 47 47 48 48 48 48 48 48 48 48 48 48 48 48 48
PWQO - Units - 5/28/2004 8/19/2004 8/19/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2008 8/29/2008 10/17/2008 5/15/2007 10/18/2007 5/15/2007 10/24/2008 5/19/2008 8/18/2009 10/24/2008 5/19/2008 10/22/2008 5/19/2008 10/22/2008 10/22/2008 10/22/2008 10/22/2008 10/22/2008 10/22/2008 5/18/2011 10/23/2012 10/23/2012 10/23/2012 10/23/2013 10/23/2013 10/23/2014 8/29/2013 6/29/2013 6/29/2013 6/29/2013 6/29/2013 6/29/2013 6/29/2013		mg/L 1.2	0.003 mg/L < 0.0005 < 0.0002 < 0.0005 < 0.0005 < 0.005 < 0.005 <0.005 <0.005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <	0.02 mg/l 0.021 < 0.005 < 0.005 < 0.005 < 0.001 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.5 < 0.5 < 0.5 < 0.7 < 1	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L  <0.2 <0.2 <0.2 <0.2 <0.2 <0.0 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 3.1 3.9 10.0 10.8 3.0 3.0 3.0 3.0 4.0 6.0 3.0 4.0 5.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 n/a 7.25 7.26 7.18 7.44 7.41 7.40 6.80 7.30 7.00 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.10 7.40 6.80 6.30 7.10 7.40 6.80 6.30 7.10 7.40 6.80 6.30 7.10 7.40 6.80 6.30 7.10 7.40 6.80 6.30 7.10 7.40 6.80 6.30 7.10 7.40 6.80 6.30 7.10 7.10 7.40 6.80 6.30 7.10 7.40 6.80 6.30 7.10 7.10 7.10 7.40 6.80 6.30 7.10 7.	mg/L 20 16 14 13 13 14 14 14 15 17 13 13 13 10 15 15 15 10 12 13 11 12 12 13 12 11 12 12 13 12 11 12 12 13 12 11 12 12 13 12 13 12 11 12 12 13 12 12 13 12 12 13 12 12 13 12 13 12 14 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	mg/L < 0.03 NA < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.07 < 0.05 < 0.07 < 0.05 < 0.07 < 0.05 < 0.07 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/l <0.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41 40 60 60 36 46 36 37 37 37 37 38 38 37 38 37 37 36 37	0.001 mg/L continued to the continued to	mg/L 6 8 9 9 16 6 12 19 11 16 6 13 9 13 12 14 8 11 10 9 10 12 8 11 10 9 11	5.70 6.60 7.20 4.10 7.90 7.76 8.32 7.7 7.43 7.95 8.83 7.7 7.49 8.91 8.92 7.97 8.93 8.91 8.92 7.97 8.93 8.93 7.96 8.91 8.92 7.96 8.91 8.92 7.96 8.91 8.92 8.93 8.94 8.95 8.97 8.	11.0 17.0 10.0 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.4 20.8 3.6 16.8 8.3 13.7 21 6.9 20.1 7.9 17.3 20.1	30 30 20 20 20 20 44 38 42 32 65 30 36 90 43 75 38 65 38 65 38 65 38 65 38 65 38 65 38 65 38 65 38 65 65 65 65 65 65 65 65 65 65 65 65 65
PWQO - Units - 5/26/2004 8/19/2004 8/19/2004 5/31/2011 9/2/2005 5/16/2006 10/17/2006 5/15/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/24/2008 8/20/2008 10/24/2008 10/24/2008 5/19/2009 8/18/2009		mg/L 1.2 1.10	0.003 mg/L < 0.0005 < 0.0002 < 0.0005 < 0.0005 < 0.005 < 0.005 <0.005 <0.005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.02 mg/l 0.021 0.021 0.021 0.021 0.005 0.005 0.005 0.005 0.005 0.005 0.001 0.01 0.	mg/L c0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.7 < 1	mg/L	mg/L  <0.2 <0.2 <0.2 <0.2 <0.2 <0.0 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 3.1 3.1 3.1 3.9 10.0 10.8 3.0 <1 3.0 3.0 3.0 4.0 3.0 4.0 6.0 3.0 4.0 5.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 Na 7.25 7.26 7.25 7.26 7.26 7.18 7.44 7.41 7.36 7.10 7.40 6.80 7.30 7.00 7.40 6.80 6.40 8.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7	mg/L 20 16 14 13 13 13 14 14 14 15 17 13 13 13 13 10 15 15 15 16 10 12 12 11 12 12 11 12 12 13 12 11 12 11 12 11 12 12 13 13 14 14 14 15 17 18 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	mg/L < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L 20,0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 39 40 41 39 40 41 40 36 46 36 37 37 37 37 38 38 38 37 37 37 37 37 37 37 37	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 8 9 9 9 16 12 19 11 16 6 13 9 13 12 13 11 10 9 12 14 8 11 10 9 10 10 9 8 10 10 10 10 10 10 10 10 10 10 10 10 10	5.70 6.60 7.20 4.90 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 8.87 7.91 8.92 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24 6.30	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.3 10.3 40.8 3.6 16.2 10.3 40.8 3.6 16.2 17.8 20.8 3.7 21.8 6.3 17.8 10.3 10	30 30 20 20 20 20 44 38 42 32 65 30 36 90 43 75 38 65 38 65 38 38 65 38 38 38 38 38 38 38 38 38 38 38 38 38
PWQO - Units - 5/28/2004 8/19/2004 8/19/2004 5/31/2011 9/2/2005 5/16/2008 8/29/2008 6/15/2007 10/18/2007 10/18/2007 10/18/2007 10/24/2008 8/20/2008 10/24/2008 8/26/2008 10/22/2009		mg/L 1.2	0.003 mg/L  < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 <0.005 <0.005 <0.005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <	0.02 mg/l 0.021 0.021 0.021 0.021 0.005 0.005 0.005 0.005 0.005 0.005 0.001 0.01 0.	mg/L <0.5 < 0.5 < 0.5 < 0.7 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 <	mg/L < 0.2 < 0.2 < 0.2 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L  <0.2 <0.2 <0.2 <0.2 <0.2 <0.0 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 2.9 10.0 10.8 3.0 <.1 3.0 3.0 3.0 3.0 4.0 6.0 5.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 Na	mg/L 20 16 14 13 13 14 14 14 15 17 13 13 10 15 15 10 12 13 11 12 13 12 11 12 13 12 11 12 13 13 10 11 12 13 13 10 11 11 12 13 13 10 11 11 12 13 13 13 13 14 14 14 14 15 17 18 18 18 18 18 18 18 18 18 18 18 18 18	mg/L < 0.03 NA < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L co.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 39 35 36 34 38 39 40 41 36 41 40 60 60 46 36 46 37 37 37 37 37 37 37 37 37 37 37 37	0.001 mg/L (0.001 mg/L (0.001 mg/L (0.001 c) (	mg/L 6 8 9 9 16 6 12 19 11 16 6 13 9 13 12 13 11 19 9 12 14 8 11 10 9 10 12 8 11 10 9 11 11 10 9	5.70 6.60 7.20 4.90 7.79 7.79 7.79 8.32 7.77 7.43 7.95 8.84 7.91 8.92 7.97 8.92 7.97 8.92 7.97 8.92 7.97 8.12 7.90 8.13 7.90 8.13 7.90 8.13 7.90 8.13 7.90 8.10	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 n/a 20.8 3.8 16.2 16.8 8.3 11.7 21 6.9 20.1 7.9 17.3 20.5 17.8 18.9 18.1 19.5	30 30 20 20 20 20 44 38 42 32 36 54 38 42 32 36 90 36 90 36 90 38 65 38 65 38 65 38 65 38 90 90 90 90 90 90 90 90 90 90 90 90 90
PWQO - Units - 5/26/2004 8/19/2004 8/19/2004 8/19/2004 5/31/2011 9/2/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/24/2008 8/26/		mg/L 1.2 1.10	0.003 mg/L < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.02 mg/l 0.021 0.021 0.021 0.021 0.005 0.005 0.005 0.005 0.005 0.001 0.01 0.	mg/L <0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.7 < 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mg/L	mg/L  <0.2 <0.2 <0.2 <0.2 <0.0 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 3.1 3.1 3.1 3.9 10.0 10.8 3.0 <1 3.0 3.0 4.0 6.0 3.0 4.0 6.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 Na 7.25 7.26 7.25 7.26 7.36 7.44 7.41 7.40 6.80 7.30 7.00 7.40 6.80 7.30 6.40 8.10 7.10 7.40 6.83 6.36 6.40 8.10 7.10 7.10 7.10 7.09 7.59 6.63 6.37 6.76 7.11 6.68 6.76 7.11 6.68 6.76 7.11 6.83 6.46 7.11 6.86 6.81 6.78 7.15 7.26 7.25 7.25 7.25 7.25 7.32	mg/L 20 16 14 13 13 13 14 14 14 15 17 13 13 13 10 15 15 15 10 12 13 11 12 11 12 11 12 11 12 11 12 11 13 12 11 12 11 13 12 11 13 12 11 11 12 11 13 12 11 13 13 12 11 11 12 11 13 13 12 11 11 12 11 13 13 14 15 16 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	mg/L < 0.03 NA < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L 20,0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 41 39 40 60 36 41 41 39 37 37 37 37 37 37 37 37 37 37 37 37 37	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 8 9 9 9 16 12 19 11 16 6 13 9 13 12 13 11 10 9 11 10 9 8 10 10 10 9 11 11 10 9 11 11 10 9 11 11 11 11 11 11 11 11 11 11 11 11 1	5.70 6.60 7.20 4.90 7.70 6.70 7.90 7.76 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 8.31 7.97 8.55 8.31 7.97 8.55 8.32 8.37 7.97 8.55 8.30 8.31 7.57 8.12 8.30 8.30 7.90 8.58 8.69 7.24 8.18 8.18 7.89	11.0 17.0 10.0 23.7 23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.3 10.3	30 30 20 20 20 20 44 38 42 32 32 65 30 36 90 43 75 38 38 65 38 38 65 51 38 38 38 38 38 38 38 38 38 38 38 38 38
PWQO - Units - 5/26/2004 8/19/2004 8/19/2004 10/14/2004 5/31/2011 9/2/2005 5/16/2006 8/29/2006 10/17/2006 5/16/2007 10/18		mg/L 1.2 1.10	0.003 mg/L  < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	0.02 mg/l 0.021 0.021 0.021 0.021 0.005 0.005 0.005 0.005 0.005 0.001 0.01 0.	mg/L c0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.7 < 1	mg/L	mg/L  <0.2 <0.2 <0.2 <0.2 <0.2 <0.0 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 3.1 3.1 3.1 3.1 3.1 3.9 10.0 10.8 3.0 <1 3.0 3.0 3.0 3.0 3.0 4.0 6.0 3.0 4.0 5.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	6.5 - 8.5 Na 7.25 7.26 7.25 7.26 7.18 7.44 7.41 7.36 7.10 7.40 6.80 7.30 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7	mg/L 20 16 14 13 13 14 14 15 17 13 13 19 13 10 15 15 10 12 12 12 11 11 12 12 12 11 13 13 12 11 11 12 12 13 13 12 11 11 12 12 13 13 14 14 15 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	mg/L < 0.03 NA < 0.03 NA < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L co.0003  <0.0003  <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	1000	mg/L 37 36 39 35 36 34 38 39 40 41 36 41 40 36 46 60 36 37 37 37 37 38 38 37 37 37 37 37 37 37 37 37 37 37 38 38 34	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 8 9 9 16 12 19 11 16 6 13 9 13 12 13 11 9 12 13 10 9 10 9 8 10 10 9 11 11 10 9 11 11 10 9 11 11 10 9 11 11 10 9 11 11 10 9 11 11 11 10 10 10 10 10 10 11 11 11 11	5.70 6.60 7.20 4.90 7.70 7.96 7.96 7.96 7.98 8.32 7.7 7.82 7.98 8.44 7.91 8.92 8.37 7.90 8.58 8.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24 6.30 8.41 8.18	11.0 17.0 10.0 23.7 7.8 14.3 19.5 8.2 16 10.2 12.6 22.3 10.3 10.3 10.3 16.2 16.8 3.6 16.2 16.8 3.7 20.8 3.6 16.2 16.9 20.1 7.9 17.9 18.3 19.5 19	40 30 30 30 20 20 20 44 44 30 54 38 42 32 65 30 36 90 43 38 65 38 65 38 65 38 39 40 40 40 40 40 40 40 40 40 40

## Station: SW-5

Parar	noter -	As	В	Ba	Ca	Cd	Cr	Cu	Fo	Hg	K	Mg	Mit	TDS	TKN	Total P	COD	BOD	TSS
PWQO -		0.1	0.2	COLAT	1200	0.0001	0.1	0.005	0.3	0.0002	-	-	036.3	1 1990	AL DOM	0.03		100000	
Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
8/19/2004		< 0.002	< 0.005	0.006	4.50	< 0.0001	< 0.005	0.001	0.17	< 0.0001	1.00			42	0.36	0.011	28	0.6	2
9/1/2005		< 0.001	< 0.010	0.008		< 0.0001	< 0.005	0.024	0.30	< 0.0001				58	0.40	0.019	22	< 2	6
8/29/2006		< 0.001	< 0.010	0.006		< 0.0001	0.006	0.002	0.071	< 0.0001				19	0.50	0.009	17	< 2	1
8/15/2007									0.17				-	37	0.60	0.016	28	< 2	<1
8/20/2008		< 0.001	< 0.01	< 0.001		< 0.0001	< 0.005	< 0.001	0.09	< 0.0001				27	0.60	0.009	24	< 2	1
8/18/2009		< 0.001	< 0.01	< 0.001		< 0.0001	< 0.005	< 0.001	0.17	< 0.0001				25	0.60	0.012	17	< 2	2
8/25/2010	Dry	)				100000	7-7-7-7			10000				-			1 1 20 1		
8/24/2011	_ x1x1x.=	<0.2	< 0.02	<0.02		< 0.005	< 0.01	≺0.02	0.27	< 0.0001				26	0.50	< 0.1	32	<2	<1
8/31/2012		<0.2	< 0.02	< 0.02		< 0.005	< 0.01	<0.02	0.1	<0.0001				38	0.42	0.017	23	<2	1
8/31/2012	Duplicate	< 0.2	< 0.02	< 0.02		< 0.005	< 0.01	< 0.02	0.1	< 0.0001				56	0.63	0.022	25	<2	<1
8/29/2013		< 0.2	< 0.02	0.006		< 0.005	< 0.01	< 0.02	0.05	< 0.0001				42	0.43	0.009	22	<2	<1
8/21/2014		<0.2	< 0.02	0.007	-	< 0.005	< 0.01	< 0.02	0.13	< 0.0001				52	0.40	0.008	22	<2	1
8/25/2015		<0.2	<0.02	0.005		< 0.005	< 0.01	<0.02	0.17	< 0.0001			- 12-1	58	0.35	0.017	23	<2	<1
9/8/2016		0.0003	< 0.05	0.007	3.12	< 0.00001	< 0.001	0.001	0.223	< 0.00001	1.62	1.1	0.006	34	0,40	0.010	28	<6.0	<4
8/29/2017		0.0002	< 0.02	< 0.01	3	<0.00002	< 0.001	0.0004	0.096	0.000002	0.86	1.0	< 0.004	12	0.32	0.007	21	NA.	<4
	120	177			1100	TO DECEMBE	To a version		1000	100000000	100000	Unionized	100				1000000		172 2 2 100
Paran	neter-	Na	Pb	Zn	CI-	NO2-N	NO3-N	504	pH	alk42	NH3-N	NH3-N	DOC	Cond.	Phenois	DO	Field pH	Field T	Field Cond
PWQO -			0.003	0.02	100000	100000000000000000000000000000000000000	100000	10000	6.5 - 8.5			0.02	1000		0.001		100000000000000000000000000000000000000	1000	-
Units -		mg/L	mg/L	mg/L	mg/L	mo/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	mg/L	ma/L	ma/L	mg/L			
8/19/2004	-	2.9	< 0.0005	0.021	2.8	< 0.2	< 0.2	2.2	7.14	12.0	NA		-	41	< 0.001	-			-
9/1/2005	-	-	< 0.0005	0.0066	4.0	< 0.3	1.60	10.4	6.97	8.0	< 0.05	< 0.0005	-	38	< 0.001	13	5.10	21.7	30
8/29/2006		-	< 0.0005	0.013	5.0	< 0.01	< 0.1	1.0	7.80	14.0	< 0.05	< 0.0005		44	< 0.001	13	7.20	22.5	-
8/15/2007			< 0.0005	< 0.01	<1	< 0.01	0.200	2.0	7.00	8.0	0.05	0.00021		41	< 0.001	9	7,30	20.6	36
8/20/2008			< 0.0005	< 0.01	5.0	< 0.01	< 0.1	2.0	7.20	8.0	< 0.05	< 0.0005			< 0.001	10	7.18	26.8	
8/18/2009			< 0.0005	< 0.01	5.0	< 0.01	< 0.1	< 2.0	7.00	9.0	< 0.05	< 0.0005		40	< 0.001	8	8.75	19.8	40
8/25/2010	Dry							-	-			1			11.11				
8/24/2011			< 0.05	< 0.01	4.0	< 0.01	< 0.1	<1	6.98	10.0	< 0.05	< 0.0005		41	< 0.001	9	7.42	23.2	48
8/31/2012			< 0.05	< 0.01	4.0	< 0.01	<0.1	2.0	6.38	7.5	< 0.05	< 0.0005		42	< 0.001	10	7.45	22.6	132
8/31/2012	Duplicate	-	< 0.05	< 0.01	4.0	< 0.01	< 0.1	1.0	6.39	8.3	< 0.05	< 0.0005		41	< 0.001	10	7.45	22.6	132
8/29/2013			< 0.05	< 0.01	5.0	< 0.01	<0.1	1.0	7.11	9.7	<0.05	< 0.0005		46	<0.001	8	7.99	24.1	87
8/21/2014			< 0.05	<0.01	5.0	< 0.05	< 0.5	2.0	6.72	7.3	< 0.05	< 0.0005		43	< 0.001	9	8.85	23.3	62
8/25/2015			< 0.05	<0.01	4.6	< 0.05	<0.5	<1	6.34	10.0	<0.05	<0.0005		47	< 0.001	8	6.68	20.7	43
9/8/2016		3.61	< 0.05		5.6	< 0.002	< 0.02	<0.50	7.11	8.5	0.022	0,00002		45	0.0017				
8/29/2017		3,800	< 0.0002	< 0.003	5.0	<0.010	<0.010	1.5	6.9	8.5	0.038	0.00014		38	<0.002	9	6.64	22.1	52
		-		A PWOD /10	2.07			-		nom than 744 of			_						-

Bold denotes excer NA - Not Analyzed

## **Additional Locations**

Monitor	Parameter -	As	В	Ba	Ca	Cd	Cr	Cu	Fe	Hg	К	Mg	Mn	TDS	TKN	Total P	COD	BOD	TSS
	PWQO -	0.1	0.2			0.0001	0.1	0.005	0.3	0.0002	10 15					0.03			
	Units -	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ma/L	ma/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RW-1	4/11/2017	0.015	3.48	0.125	189	0.00002	0.0093	0.0011	0.14	< 0.00001	526	104	0.279	2560	59	1.80	340	<30	81,3
RW-2	4/11/2017	0.004	1.36	0.047	65	0.00001	0.0025	0.0011	0.17	< 0.00001	175	48	0.225	932	16	0.86	150	24	55
RW-3	10/5/2017	0.001	1.60	0.044	48	-	0.0011	< 0.0002	0.18	< 0.000002	200	37	0.059	798	2.5	0.47	150	12	59
		11000			100.01		THE RESERVE	110000	1000	77.00	00000	Unionized	1000	1000	10000		100000	P200001	No. of Paris
Monitor	Parameter -	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pH	alk42	NH3-N	NH3-N	DOC	Cond.	Phenois	DO	Field pH	Field T	Field Cond
	PWQO -	THE SECTION	0,003	0.02					6.5 - B.5	1		0.02	100		0.001		The same of	1	100000000000000000000000000000000000000
	Units -	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		Later and the same of the same	
RW-1	4/11/2017	182	< 0.0002	0.0053	180	< 0.22	< 0.16	23.0	7.99	2070	70	1.25		4170	0.016				
RW-2	4/11/2017	66	< 0.0002	0.0052	62	0.68	0.09	9.3	8.22	768	14	0.42		1650	0.008				
RW-3	10/5/2017	69	< 0.0002	< 0.003	69	0.039	0.410	10.0	8.31	517	0.13	0.005	39.0	1230					

Bold denotes exceedance of PWQO (1994) criter

NA - Not Analyzed

\* should not be decreased by more than 25% of the natural concentration

Monitor	ODWQS -	QA/QC	0.025	B 5	Ba 1	Ca	0.005	0.05	Cu 1	Fe 0.3	0.001	K	Mg	Mn
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	0,001 mg/L	mg/L	mg/L	0.05 mg/L
74	6/1/2001		mgaz	0.020	0.337	10.7	ingre	mg/L	mgr	1.61	ingre	3.9	3.9	mg/L
	8/1/2001		< 0.001	0.330	0,260	11.1	< 0.001	0.004	0.031	2.45	< 0.001	3.9	5.5	0.168
	5/7/2002		1	< 0.001	0.022	10.6				0.21			3,2	
	8/6/2002		0.002	0.008	0.138	17.6	< 0.001	0.013	0.087	7.58	< 0.001	7.2	6.0	0.282
	5/21/2003			< 0.01	0.023	11.7	(3-(39-4)	-		0.10			3.3	
	8/6/2003		0.022	0.006	0.022	11.0	< 0.0001	< 0.005	< 0.0005	0.05	<0.00005	3.1	3.3	
	5/26/2004		- 0.000	<0.01	0.020	11.2				0.09	- Page		4.0	10000
	8/24/2004 8/3/2005		< 0.002	0.008	0.022	11.7	< 0.0001	< 0.005	0.0017	0.16	0.0001	3.2	3.2	0.198
	9/1/2005		< 0.001	< 0.016	0.026	11.0	< 0.0001	< 0.005	0.0043	0.06 < 0.05	< 0.0004	0.4	3.2	0.045
	5/16/2006		< 0.001	< 0.02	0.02	11.4	< 0.0001	~ 0.005	0.0043	< 0.03	< 0.0001	3.4	3.0	0.045
	8/29/2006			< 0.02	0.02	11.0	< 0.0001	< 0.005	0.003	< 0.05	< 0.0001	3.3	3.2	-
	5/15/2007	-		< 0.02	< 0.02	10.2			0.000	0.03	0.0001	0.0	2.9	
	8/14/2007		< 0.001	< 0.01	0.2	12.0	< 0.0001	< 0.005	0.003	< 0.05	0.0001	3.6	3.5	0.21
	5/21/2008			< 0.01	< 0.02	11.1	1 1 1 1			< 0.05		1	3.0	
	8/19/2008		< 0.001	< 0.01	0.019	11.0	< 0.0001	< 0.005	0.003	< 0.05	< 0.0001	3.2	3.7	0.2
	5/19/2009		- 0.004	<0.02	<0.02	9.0	. 0 0001		0.001	<0.05			2.5	
	8/18/2009 5/18/2010		< 0.001	<0.02	0.02	11.0	< 0.0001	< 0.005	0.004	<0.05		3.2	3.0	0.19
	8/24/2010	-	<0.001	<0.02 <0.01	<0.02 0.022	10.7	<0.0001	<0.005	<0.001	<0.01	<0.0001	2.4	3.0	0.22
	5/31/2011		40,001	<0.01	<0.01	11.4	<0.0001	~0.005	~0.001	<0.05	40.0001	3.4	3.0	0.23
	8/23/2011		< 0.001	<0.01	0.018	11.0	<0.0001	< 0.005	0.003	<0.1	<0.0001	3.0	3.2	0.2
	5/16/2012		1111	<0.02	<0.02	11.9	The same	2,700		<0.02	3,0001	0.0	3.2	J.E
	8/29/2012		<0.001	<0.01	0.02	11.0	< 0.0001	< 0.005	2.8	<0.2	<0.0001	3.2	3.3	0.2
	10/5/2017		0.0003	<0.02	0.017	9.9	< 0.00002	<0.001	0.0034	0.075	<0.000002	2.9	2.9	0.18
Monitor	Date	QA/QC	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pН	alk42	NH3-N	DOC	Th Cor
	ODWQS -		200	0.01	5	250		10	500	6,5 - 8.5	2254/4	Level 1	5.0	1124
7/4	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	µS/cm
	6/1/2001 8/1/2001		4.8 8.1	< 0.001	0.180	2.4	< 0.10	< 0.10	7.5	7.46	45	< 0.10	2.2	116
	5/7/2002		4.3	- 0.001	0.100	6.1	~0.10	< 0.10	5.1	7.13	50	0.04	3.0	115
	8/6/2002		5.9	0.017	0.045	8.9	< 0.05	< 0.03	3.2	6.80	53	0.04	2.5	111.7
	5/21/2003		4.3		1000	< 0.5	1 100	< 0.2	< 0.5	7.01	49	0.06	4.4	127
	8/6/2003		4.7	<0.0005	<0.005	0.6	< 0.2	< 0.2	8.1	7.91	108	0.06	2.8	227
	5/26/2004		4.4	Factor of the Control		<0.5		< 0.2	5.6	6.93	49	< 0.03	3.6	110
	8/24/2004		4.5	0.001	< 0.005	1.0	< 0.2	0.40	5.6	6.98	50	0.08	3.9	125
	8/3/2005		4.8	+ 0 0000	0.005	<1		2.30	8.0	7.53	40	< 0.05	3.3	95
	9/1/2005 5/16/2006		4.8	< 0.0005	0.005	2.0	< 0.3	0.50	7.0 6	7.45	53	< 0.05	3.2	107
	8/29/2006		4.2	< 0.0005	< 0.005	1.0	< 0.01	0.2	6	7.3	55 53	< 0.01	3.7	113
	5/15/2007		4.3	- 0.0000	- 0.000	2.0	30.01	< 0.1	6	7	49	< 0.05	4.8	111
	8/14/2007		4.8	< 0.0005	< 0.005	< 1	< 0.01	0.1	6	7.1	52	< 0.05	3.6	110
	5/21/2008		3.9			< 1		< 0.1	5	7.7	50	< 0.05	3.1	109
	8/19/2008		4.7	< 0.0005	< 0.005	<1	< 0.01	< 0.1	7	7.6	51	< 0.05	3.3	110
	5/19/2009		3.4			<1		<0.1	4	6.6	42	< 0.05	2.8	94
	8/18/2009		4	< 0.0005	< 0.005	<1	< 0.01	<0.1	5	7	53	<0.05	3.6	112
	5/18/2010		4	+0.000E	40.00F	1.0	-0.04	<0.1	5	7.3	49	<0.05	3.3	109
	8/24/2010 5/31/2011		3.9	<0.0005	<0.005	2	<0.01	<0.1	5	7.1	51	<0.05	3.8	116
	8/23/2011	_	4.4	<0.0005	0.006	1	<0.01	<0.1	9 7	7.14 6.74	46 48	<0.05 <0.05	3.3	101 115
	5/16/2012		4.2	40.0000	0.000	<1.0	40.01	<0.1	7	6.99	50	<0.05	3.6	110
	8/29/2012		4.6	<0.0005	< 0.005	<1.0	< 0.01	<0.1	5	6.86	53	<0.05	3.0	110
	10/5/2017		6.5	0.00046	< 0.003	<0.5	< 0.033	0.92	5,4	7.53	53.8	< 0.015	3.3	110
Monitor	Date	QA/QC	Th TDS	TKN	Total P	COD	BOD	TSS	Phenois	Field pH	Field Cond			
	ODWQS -		500							6.5 - 8.5	3.7			
7/4	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μS/cm			
7/4	6/1/2001 8/1/2001		185	0.40	0.07	25	2	- 24	<0.004	7.0	60			
	5/7/2002		730	0.46	0.07	36 195	<1	< 1 13.47	< 0.001	7.2	50 70			
	8/6/2002		146	0.07		< 20	<1	4.55	< 0.001	7.1	100			
	5/21/2003		180	5.07		14	< 0.5	4.00	- 0.001	7.4	90			
	8/6/2003		132	0.18	< 0.05	9	< 0.5	3640	< 0.001	7.3	90			
	5/26/2004		136			11				6.9	20			
	8/24/2004		140	0.32	1.14	13	1-4-1	Landy F	< 0.001	6.2	NA			
	8/3/2005		410			22	< 3	2400	1100	3.3	90			
	9/1/2005		247	0.70	2.99	15		100	< 0.001	4.4	90			
	5/16/2006 8/29/2006	-	68	0.5	10	13	<2	1100	× 0.004	7.0				
	5/15/2007	_	82 72	0.5	1.6	13	<2	_	< 0.001	6.6				
	8/14/2007		69	<1	3.4	19	<2		< 0.001	7.1	105			
	5/21/2008		68		5,4	11	<2	1500	- 0.001	7.5	105			
	8/19/2008		75	1.2	1.3	8	<2	0.00	< 0.001	7.4				
	5/19/2009		60	12.0		16	1 1 1		71775	7.5	100			
	8/18/2009		72	1.6	2.2	34	1		< 0.001	7.6	152			
	5/18/2010		74			13				7.2	85			
	8/24/2010		74	1.6	0.79	19			<0.001	11.0				
	5/31/2011		66	0.0	0.00	18		-	10.00	6.4	118			
	8/23/2011		100	0.6	0.50	11			<0.001	6.3	124			
	5/16/2012 8/29/2012	-	90 158	0.59	1.10	17			<0.004	7.2	112			
	10/5/2017		160	0.89	0.54	17	<3	3890	<0.001	6.9	156			
				V-91	W. W.	1.1	0	0000						

Monitor	Date QA/QC ODWQS -	As 0.025	B	Ba	Ca	Cd	Cr	Cu	Fe	Hg	K
	Units -	0.025	5	1	3.30	0.005	0.05	1	0.3	0.001	7,4
21/7	6/1/2001	mg/L	mg/L 0.062	mg/L 0.297	mg/L 25.7	mg/L	mg/L	mg/L	mg/L	mg/L	mg/
	8/1/2001	< 0.001	0.062	0.029	27.5	< 0.001	< 0.004	4.0.004	0.27	.0.004	2.8
	8/6/2002	0.002	0.023	0.029	35.8	< 0.001	< 0.001	< 0.001	0.45	< 0.001	2.8
	5/21/2003	0,002	0.020	0.043	28.9	< 0.001	0.003	0.0150	1.88 0.03	< 0.001	4.0
	8/6/2003	< 0.002	0.019	0.042	29.4	< 0.0001	< 0.005	< 0.0005	< 0.03	< 0.00005	3.1
	5/26/2004		0.020	0.032	26.0	0.0001	- 0.000	4 0.0000	0.04	< 0.00005	3.1
	8/24/2004	< 0.002	0.021	0.035	30.1	< 0.0001	< 0.005	< 0.0005	< 0.03	< 0.0001	2.9
	8/3/2005		0.022	0.034	27.0	10.0001	- 0.000	4 0.0000	< 0.05	< 0.0001	2.3
	9/1/2005	< 0.001	0.022	0.034	33.0	< 0.0001	< 0.005	0.0016	< 0.05	< 0.0001	3.5
	5/16/2006		< 0.02	0.03	26.3	111111111111111111111111111111111111111	01000	0,00,0	< 0.02	- 0.0001	0,0
	8/29/2006	< 0.001	0.017	0.034	30.0	< 0.0001	< 0.005	< 0.001	< 0.05	< 0.0001	3.2
	5/15/2007		< 0.02	0.04	28.0				< 0.02		0.0
	14/08/2007	0.001	0.018	0.037	33.0	< 0.0001	< 0.005	< 0.001	< 0.02	< 0.0001	3.7
	5/21/2008		< 0.02	0.03	26.8				< 0.02		
	8/19/2008	< 0.001	0.021	0.034	29.0	< 0.0001	< 0.005	< 0.001	< 0.02	< 0.0001	3.2
	5/19/2009		< 0.02	0.03	26.4	100		1000	< 0.02		
	8/18/2009	< 0.001	0.019	0.039	30.0	< 0.0001	< 0.005	0.001	< 0.02		3.2
	5/18/2010	1	< 0.02	0.05	28.6				< 0.02		
	8/24/2010 No Recovery								·		-
	5/31/2011	1	<0.02	0.04	29.2			2000000	< 0.02	AL PIPE	
	8/23/2011	<0.001	0.015	0.041	31.0	<0.0001	<0.005	<0.001	<0.1	<0.0001	3.3
	5/16/2012		<0.02	0.04	31,2				< 0.02		
	8/29/2012	<0.001	0.022	0.039	31.0	<0.0001	<0.005	<0.001	<0.1	<0.0001	3.3
Mante	10/5/2017	0.00058	0.021	0.045	30.0	<0.00002	< 0.001	0.00039	<0.06	<0.000002	3.4
Monitor		Na	Pb	Zn	CI-	NO2-N	NO3-N	S04	pH	alk42	NH3
	ODWQS -	200	0.01	5	250		10	500	6.5 - 8.5		
1/7	Units -	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg
1/7	6/1/2001	10.3			2.7		< 0.10	8.3	8.05	110	< 0.
	8/1/2001	7.8	< 0.001	0.0050		< 0.10	< 0.10	100	7.89	100	< 0.
	8/6/2002	7.7	0.0020	0.0290	< 0.5	< 0.05	< 0.03	3.4	8.12	118	0.0
	5/21/2003	6.5	2000	1445	28.9		< 0.2	7.6	7.90	106	< 0.0
	8/6/2003	7,2	< 0.0005	< 0.005	1.0	< 0.2	< 0.2	8.1	7.91	108	0.0
	5/26/2004	5.5	10000		0.5		0.20	6.6	7.95	93	0.0
	8/24/2004	6.4	0.0006	0.0050	0.6	< 0.2	< 0.2	6.9	8.00	111	0.0
	8/3/2005	5.8			< 1	- La	< 0.2	9.0	8.19	110	0.1
	9/1/2005	6.9	< 0.0005	0.0058	<1	< 0.3	< 0.2	6.0	8.03	120	0.0
	5/16/2006	6.1			1		< 0.1	6.0	8.20	121	< 0.0
	8/29/2006	6.4	< 0.0005	< 0.005	6	< 0.01	< 0.1	7.0	8.10	123	0.0
	5/15/2007	6.3			1	11.00	< 0.1	7.0	8.00	113	< 0.0
	8/14/2007	7			2	< 0.01	< 0.1	7.0	8.00	118	0.0
	5/21/2008	5.8	- 0 0000		4		< 0.1	6.0	8.00	113	< 0.0
	8/19/2008	6.8	< 0.0005	< 0.005	2	< 0.01	< 0.1	6.0	8.20	115	< 0.0
	5/19/2009	5.9	- 0.0005	- 0.005	1		<0.1	5.0	7.10	83	0.0
	8/18/2009	6.2	< 0.0005	< 0.005	1	0.02	<0.1	7.0	7.80	119	0.14
	5/18/2010 8/24/2010 No Recovery	6.1			2		<0.1	9.0	8.10	111	0.1
	5/31/2011 No Recovery			-					5,000	- W	
	8/23/2011	5.8	-0.0005	-0.005	1		<0.1	5.0	8.02	103	0.0
	5/16/2012	6.3	<0.0005	<0.005	2	<0.01	<0.1	7.0	8.02	114	<0.0
	8/29/2012	6.1	<0.000E	40 00E	<1	-0.01	<0.1	6.0	7.84	110	<0.0
	10/5/2017	-	<0.0005	<0.005	1	<0.01	<0.1	6.0	7.76	120	<0.0
Monitor		6.5	<0.0002		0.56	<0.033	1.8	7.1	8.08	98.9	0.0
MOINTOI	ODWQS -	Th TDS 500	TKN	Total P	COD	BOD	TSS	PhenoIs	Field pH	Field Cond	
	Units -	mg/L	mg/L	mall	post!	mad	man II	100.00	6.5 - 8.5	West of	
1/7	6/1/2001	149	mg/L	mg/L	mg/L < 20	mg/L < 1	mg/L	mg/L	mg/L	µS/cm	
7.	8/1/2001	230	0.26	0.01	22	~1	15.00	< 0.001			
	8/6/2002	180	< 0.05	0.01	56	1	The second second	manufacture of the control of the control	0.2	400	
	5/21/2003	192	- 0.00		9	< 0.5	6.52	< 0.001	8.3	180	
	8/6/2003	160	0.19	< 0.05	11	< 0.5	8030		7.9	170	
	5/26/2004	156	0.10	- 0.00	9	~ 0.0	0030		7.7	160	
	8/24/2004	142	0.20	3.54	12			< 0.001	6.9	40	
	8/3/2005	350	0.20	0.04	64	< 3	410	< 0.001	6.7	NA 170	
	9/1/2005	220	0.80	7.50	36	~ 0	410	< 0.001	3.9	170	
	5/16/2006	154	0.00	7,00	< 4	< 2	8000	~ 0.001	6.1	200	
	8/29/2006	147	0.300	2.5	6	<2	6000	< 0.004	8.2		
	5/15/2007	158	0.000	2.0	18	<2		< 0.001	8.23	-	
	8/14/2007	151	0.700	4	17	<2		< 0.001	8.35	224	
	5/21/2008	148	0.700	- "	7	<2	4600	< 0.001	8.11	221	
	8/19/2008	160	1.400	1.3	13	<2	4600	< 0.004	8.39		
	5/19/2009	140	1.400	1,0	28	< 2		< 0.001	8.39	000	
	8/18/2009	155	4.000	40	and the same of th				7.91	230	
	5/18/2010		4.000	12	76	-			8.19	222	
		162			85						
	8/24/2010 No Recovery	404	_		04					1	
	5/31/2011	124	0.000	0.51	20		-		6.8	246	
	8/23/2011	156	0.600	0.54	<4		-	< 0.001	6.25	245	
	5/16/2012	122	0.000	0.05	19				7.53	229	
	8/29/2012	160	0.820	0.37	<8.0			<0.001	7.76	260	
	10/5/2017 Bold denotes exceedance of ODWO	312	0.41	6.90	39	<3	28500				
tos:											

Mg

mg/L 7.2 5.9

9.1

6.5

7.0 6.1

6.5

6.0

5.6

6.8 6.0

7.3 5.6 7.4 5.6

6.8 6.1 6.4 7.2

6.6

6.6

DOC

5.0

mg/L 4,5

2.2

2.3

2,4

2.1

3.1

2.5

2.4 2.4 2.4

1.9 2.6 2.3 2.7 2.1

2.4

2.4 2.5

3.5 1.8

Mn 0.05

mg/L

0.071

0.103

0.056

0.069

0.055

0.046

0.042

0.028

0.040

Th Cond

µS/cm 230

210 220

227 227

187

223

208

217 230

223

229

217 228 230

206 230

234

211

231 230

230 204

Bold denotes exceedance of ODWQS (2006) criteria



# APPENDIX C

**Annual Waste Quantities** 

# **Annual Waste Summaries**

	January	February	March	April	May	June	July	August	September	October	November	December
Garbage	519.16	486.76	545.72	607.323	626.55	635.54	620.93	652.65	563.34	549.07	540.39	506.81
C & D	416.84	327.37	511.66	938.81	966.041	1096.35	1543.23	3028.89	2103.84	1315.5	722.86	338.83
Recycles	126.04	84.14	110.73	101.5	139.77	137.85	143.2	142.41	132.98	118.32	101.82	108.04
Scrap metals	7.71	4.04	5.63	15.16	12.83	16.31	16.52	19.48	14.94	8	11.06	2.59
Contaminated Waste	16.74	15.58	346.21	0.7	0	0	169.4	0.37	16.24	862.66	21.89	3933
Sewere sludge	214.95	149.71	283.79	190.73	221.81	160.86	183.87	162.26	203.44	175.65	191.39	191.29
Ash	298.84	302.38	283.59	362.7	362.7	237.91	210.19	232.15	220.12	324.08	430.9	440.9
Electronics	5	4.817	4.747	4.455	9.344	4.363	13.77	4.811	8.668	13.331	0	9.631
Asbestos	0.41	4.34	0.28	2.24	0.24	0	0.64	0	1.16	0	0	5.32
Woodchips	0	0	0	30.69	54.95	70.09	55.7	105.89	49.66	12.65	9.05	0

2010												
	January	February	March	April	May	June	July	August	September	October	November	December
Garbage	406.9	446.67	586.68	551.85	612.31	579.67	619.89	674.07	547.15	506.82	428.84	463.89
C & D	385.47	420.176	519.97	752.52	1070.07	1220.7	988.98	1026.74	1047.49	889	944.33	347.72
Recycles	97.56	121.46	89.97	121.75	112.59	132.86	149.67	148.74	143.47	142.2	117.42	105.3
Scrap metals	9.76	3.98	5.2	9.62	13.78	17.47	16.95	19.58	12.27	13.74	8.54	1.7
Contaminated Waste	939.95	0	30.15	1.99	32.95	0	805.37	0	0	1945.79	3676.7	13.04
Sewere sludge	215.77	198.96	241.39	199.76	283.98	253.14	183.3	120.16	222.58	134.51	124.89	223.74
Ash	336.33	371.58	339.28	293.7	283.33	247.86	292.85	271.49	266.86	226.62	306.37	322.05
Electronics	4.693	4.855	4.712	4.704	8.64	5.148	8.552	3.998	12.576	4.644	9.402	4.329
Asbestos	1.86	2.35	1.04	65.08	23.11	2.56	1.52	2.59	0.17	0.8	12.67	14.29
Woodchips	7.04	0	0	0	17.21	17.22	56.45	11.77	36.08	54.39	25.15	0

	January	February	March	April	May	June	July	August	September	October	November	December
Garbage	481.43	403.18	442.55	447.48	563.61	558.04	671.52	701.36	602.33	555.22	524.79	479.2
C & D	503.1	296.31	484.9	707.47	1096.8	1230.36	1078.35	1491.06	1190.48	870.1	709.44	270.39
Recycles	130.9	84.28	110.5	70.33	169.45	131.15	129.24	140.6	159.02	97.71	132.23	116.77
Scrap metals	3.58	2.84	6.4	8.87	14.28	15.37	13.53	10.47	9.59	11.8	6.65	0
Contaminated Waste	119.73	0	0	107.2	211.58	599.34	542.42	3038.1	99.78	3688.94	2.24	735.59
Sewere sludge	201.1	222.53	228.82	149.61	228.5	111.35	94.16	51.63	167.03	210.1	189.9	157.28
Ash	362.47	360.96	309.84	308.88	231.2	224.36	195.03	200.18	196.47	187.03	154.23	222.47
Electronics	4.66	9.82	0	4.586	5.6	9.67	0	8.921	9.783	4.988	5.276	0
Asbestos	0.1	0	0.02	0	3.93	12.64	6.49	12.36	1.38	3.59	3.29	1.13
Woodchips	0	0	0	23.39	15.14	0	29.91	54.65	91.4	47.55	22.92	0



# APPENDIX D

**Ground Water Quality Data** 

ODWOS	Monitor	Date	QA/QC	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
197		ODWQS -			5	1				1	0.3	0.001			0.05
Section   Sect				mg/L				mg/L	mg/L	mg/L		mg/L	mg/L		mg/L
S15/2007	1/17					0.03									
R182000				0.002		0.00		< 0.0001	< 0.005	< 0.001		< 0.0001	3.0		
S-182010   Limited Sample   S-182010   Limited Sample   S-202010   Limited Sample   S-202010   S-				رم مرم دم مرم				z0.0001	۵0 00E	رم مرم دم مرم			2.0		
8/25/2010	-			<0.001	<0.01	0.019		<0.0001	<0.005	<0.001	<0.1				
Second   Color   Col			Limited Sample				20.2						2.0	0.0	0.044
S162012			•												
8/28/2012	ŀ	8/23/2011	•	<0.001	<0.01	0.023	32.0	<0.0001	< 0.005	<0.001	<0.1		3.6	7.2	0.034
S22/2013															
B227/2013				<0.001				<0.0001	<0.005	<0.001		<0.0001	7.5		4.1
S20/2014				0.0				0.005	0.04	0.00		0.0004	40.0		0.74
Section   Sect	-			<0.2				<0.005	<0.01	<0.02		<0.0001	10.0		2.74
\$2020016				<0.001				<0.001	<0.005	<0.001		<0.0001	5.5		0.61
S202016   Duplicate   0.38   0.093   120				<b>VO.001</b>				Q0.001	<b>VO.000</b>	V0.001		<b>VO.0001</b>	0.0		0.01
S4102016   no sample			Duplicate												
S31/2016	ŀ	8/18/2015	no sample												
September   Company   Co			no sample												
Monitor   Date   According to   Date   Dat															0.0718
Monitor   Decision	-														
	ŀ		Duplicate												
ODWOS	Monitor		•												Th Cond
Units	HOHIO		47/40					1102-11					14113-14		TH COM
117								mg/L					mg/L		μS/cm
S-15 2007	1/17	5/16/2006								21	8.10		0.08		198
8/18/2009   2.7					< 0.0005	< 0.005		< 0.01							
S/18/2010   3.5   0.016   11   0.0   38   7.90   56   0.06   1.3   242   242   226   22011   0.0 sample   0.0   0.016   0.01															
8/25/2010   9.6   0.0005   0.016   9   0.1   0.1   36   7.40   99   3.1   344     8/23/2011   0.0 sample   3.4   0.0005   0.005   14   0.1   0.1   46   7.78   56   0.05   1.8   263     8/23/2012   20   0.0005   0.0066   19   0.067   0.1   88   6.79   380   1.5   26   910     8/23/2013   23.7   0.36   0.0   0.0066   19   0.067   0.1   88   6.79   380   1.5   26   910     8/27/2013   40.9   0.005   0.0066   19   0.067   0.1   88   6.79   380   1.5   26   910     8/27/2013   40.9   0.005   0.006   0.006   0.01   0.1   0.1   0.1   0.7   0.00   0.3   3.3   80   1400     8/27/2014   84   110   0.0005   0.005   18   0.01   0.1   0.1   0.9   1.00   15   77   2000     8/19/2014   10   0.0005   0.005   18   0.01   0.1   0.1   0.2   0.9   1.0   1.3   5.2   450     8/29/2015   Duplicate   27   36   0.0   0.0   0.0   0.0   0.0   0.0   0.0     8/21/2016   100 sample   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0     8/29/2017   0.0 sample   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0     8/29/2017   0.0 sample   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0     8/29/2017   0.0 publicate   3.4   0.0002   0.003   7   0.010   0.010   0.0	-				<0.0005	<0.005		<0.01	<0.1						
Si31/2011   no sample   no s	-				-0.000E	0.016		-0.1	-0.1				0.06		
String	-		no samplo	9.6	<0.0005	0.016	9	<0.1	<0.1	36	7.40	99		3.1	344
S/16/2012			no sample	3.4	<0.0005	<0.005	14	<0.1	<0.1	46	7 78	56	<0.05	1.8	263
R/29/2012	ļ.				40.0000	40.000		40.1							
B/27/2013	•				<0.0005	0.0066		0.067							910
Sizologidar	Ī	5/22/2013		23.7			36		<0.1	20	7.29	500	3.4	42	1100
8/19/2014					<0.05	<0.01		<0.01							1400
S/20/2015															2000
Size					<0.0005	<0.005		<0.01							
B/18/2015   no sample	-		Duplicato												
S/10/2016   no sample   3.39   < 0.0002   7   < 0.002   < 0.02   64   7.96   65.9   0.12   1.6   293	-		· · · · · · · · · · · · · · · · · · ·	21			30		<0.1	100	0.93	330	5.0	13	940
R/31/2016			•												
8/29/2017				3.39	<0.0002		7	<0.02	<0.02	64	7.96	65.9	0.12	1.6	293
Monitor   Date   QA/QC   Th TDS   TKN   Total P   COD   BOD   TSS   Phenols   Field pH   Field Cond   6.5 · 8.5   mg/L   mg/L	ŀ						8	< 0.033	<0.044			65.8			
Monitor   Date   QA/QC   Th TDS   TKN   Total P   COD   BOD   TSS   Phenols   Field pH   Field Cond   6.5 - 8.5   mg/L   mg/L															
Note													0.03	1.5	277
Units -   mg/L   mg/L	Monitor		QA/QC		IKN	I otal P	COD	ROD	188	Phenois		Field Cond			
1/17					ma/l	ma/l	ma/l	ma/l	ma/l	ma/l		uS/cm			
8/29/2006         135         0.3         18         14         <2	1/17				IIIg/L	mg/L				mg/L		_			
5/15/2007         138         < 4	ŀ				0.3	18			. 555	< 0.001					
8/18/2009         128         0.8         0.7         26         <0.001	ļ	5/15/2007					< 4								
5/18/2010         116         21         7.90           8/25/2010         166         7.40           5/31/2011         10 sample         7.40           8/23/2011         214         0.5         0.07         11         <2			Under water												
8/25/2010         166         7.40           5/31/2011         214         0.5         0.07         11         2         0.001         6.47         276           8/23/2011         214         0.5         0.07         11         2         0.001         6.47         276           5/16/2012         364         69         0.016         6.72         1354           8/29/2013         824         220         6.73         1203           8/27/2013         1140         5.7         0.19         280         69         240         0.27         7.04         1642           5/20/2014         1290         300         6.93         1114           8/19/2014         264         1.5         0.037         35         13         0.012         6.88         2630           5/20/2015         634         64         3         120         7.11         849           8/18/2015         no sample         73         3         130         7.11         849           8/29/2017         174         0.13         0.011         6.2         3         37         0.0043         8.24         226           8/29/2017         10plicate					0.8	0.7				<0.001		204			
5/31/2011         no sample         214         0.5         0.07         11         <2	}						21	-		-					
8/23/2011       214       0.5       0.07       11       <2	}		no cample	166							7.40				
5/16/2012       364       69       689       6.80       818         8/29/2012       800       3.9       0.14       150       0.016       6.72       1354         5/22/2013       824       220       6.73       1203         8/27/2013       1140       5.7       0.19       280       69       240       0.27       7.04       1642         5/20/2014       1290       300       6.93       1114         8/19/2014       264       1.5       0.037       35       13       0.012       6.88       2630         5/20/2015       634       64       3       120       7.11       849         5/20/2015       Duplicate       628       73       3       130       7.11       849         8/18/2015       no sample       73       3       130       7.11       849         8/31/2016       180       0.152       0.0266       10       <6.0	ŀ		no sample	214	0.5	0.07	11	-2		0.001	6 47	276			
8/29/2012       800       3.9       0.14       150       0.016       6.72       1354         5/22/2013       824       220       6.73       1203         8/27/2013       1140       5.7       0.19       280       69       240       0.27       7.04       1642         5/20/2014       1290       300       6.93       1114         8/19/2014       264       1.5       0.037       35       13       0.012       6.88       2630         5/20/2015       634       64       3       120       7.11       849         5/20/2015       Duplicate       628       73       3       130       7.11       849         8/18/2015       no sample       73       3       130       7.11       849         8/31/2016       no sample       73       3       130       7.11       849         8/31/2016       180       0.152       0.0266       10       <6.0	ļ.				0.0	5.57		~_		3.001					
5/22/2013         824         220         6.73         1203           8/27/2013         1140         5.7         0.19         280         69         240         0.27         7.04         1642           5/20/2014         1290         300         6.93         1114           8/19/2014         264         1.5         0.037         35         13         0.012         6.88         2630           5/20/2015         634         64         3         120         7.11         849           5/20/2015         Duplicate         628         73         3         130         7.11         849           8/18/2015         no sample         5/10/2016         no sample         5/10/2016         180         0.152         0.0266         10         <6.0	ţ				3.9	0.14				0.016					
5/20/2014         1290         300         6.93         1114           8/19/2014         264         1.5         0.037         35         13         0.012         6.88         2630           5/20/2015         634         64         3         120         7.11         849           5/20/2015         Duplicate         628         73         3         130         7.11         849           8/18/2015         no sample         5/10/2016         no sample         73         3         130         7.11         849           8/31/2016         no sample         5/10/2016         0.0000         0.0266         10         <6.0	ļ			824			220				6.73	1203			
8/19/2014       264       1.5       0.037       35       13       0.012       6.88       2630         5/20/2015       634       64       3       120       7.11       849         5/20/2015       Duplicate       628       73       3       130       7.11       849         8/18/2015       no sample       5/10/2016       no sample       5/10/2016       180       0.152       0.0266       10       <6.0					5.7	0.19		69	240	0.27					
5/20/2015         634         64         3         120         7.11         849           5/20/2015         Duplicate         628         73         3         130         7.11         849           8/18/2015         no sample         5/10/2016         0.03         7.11         849           8/31/2016         180         0.152         0.0266         10         <6.0					4.5	0.007		40		0.040					
5/20/2015         Duplicate         628         73         3         130         7.11         849           8/18/2015         no sample         5/10/2016         no sample         5/10/2016         180         0.152         0.0266         10         <6.0	ļ				1.5	0.037			120	0.012					
8/18/2015     no sample       5/10/2016     no sample       8/31/2016     180     0.152     0.0266     10     <6.0	}		Dunlicata												
5/10/2016         no sample         6/31/2016         180         0.152         0.0266         10         <0.0         51         <0.0010            5/16/2017         174         0.13         0.011         6.2         <3	}		•	028			13	3	130	-	7.17	049			
8/31/2016     180     0.152     0.0266     10     <6.0	ŀ														
5/16/2017         174         0.13         0.011         6.2         <3         37         0.0043         8.24         226           8/29/2017         138         0.054         0.0063         7.2         <3	ŀ			180	0.152	0.0266	10	<6.0	51	<0.0010					
8/29/2017 Duplicate 194 0.07 0.0074 9.2 9 13.5 <0.002 6.82 250	ļ			174							8.24	226			
N						0.0074	9.2	9	13.5	<0.002	6.82	250	]		

ODWOS -	mg/L 7.0 7.4 6.3 6.4 6.4 6.3 7.4 6.3 7.4 6.2 6.3 6.4 6.3 6.6 6.9 6.7 7.2 7.0 6.9 7.2 6.8 7.0	0.05 mg/L  0.018  0.027  0.025  0.021  0.016
8/3/2005	7.0 7.4 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.7 7.2 7.0 6.9 7.2 6.8	0.027 0.025 0.021 0.016
\$\frac{8762006}{8292006} \qquad < 0.001 & 0.018 & 0.064 & 27.0 & < 0.0001 & < 0.005 & < 0.0001 & 5.86 \\ \frac{8762007}{8762007} \qquad < 0.002 & 0.064 & 27.0 & < 0.0001 & < 0.005 & < 0.0001 & 5.86 \\ \frac{8752007}{8762007} \qquad < 0.002 & 0.06 & 26.2 \\ \frac{8762007}{8762008} \qquad < 0.021 & 0.075 & 30.0 & < 0.0001 & < 0.005 & < 0.0001 & 6.66 \\ \frac{8762008}{8762009} \qquad < 0.022 & 0.07 & 25.9 \\ \frac{8762009}{8762009} \qquad < 0.020 & 0.064 & 26.0 & < 0.0001 & < 0.005 & < 0.0001 & 5.5 \\ \frac{57192009}{8762009} \qquad < 0.020 & 0.06 & 24.9 \\ \qquad < 0.02 & 0.06 & 24.9 \\ \qquad \qquad < 0.001 & 0.018 & 0.071 & 25.0 & < 0.0001 & < 0.005 & < 0.0001 & 5.57 \\ \frac{57182010}{8762010} \qquad < 0.021 & 0.01 & 0.010 & 0.001 & 0.005 & < 0.001 & < 0.001 & < 0.001 \\ \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qqquad \qqqqq \qqqq \qqqqq \qqqq \qqqqq \qqqqq \qqqqq \qqqqq \qqqqq \qqqqq \qqqqq \qqqqq \qqqq \qqqqq \qqqqq \qqqqq \qqqqq \qqqqq \qqqqq \qqqqq \qqqqq \qqqqqq	6.3 6.4 6.4 7.6 6.3 7.4 6.2 6.3 6.4 6.3 6.6 6.9 6.7 7.2 7.0 6.9	0.027 0.025 0.021 0.016
S/15/2007	6.4 7.6 6.3 6.4 6.3 6.4 6.3 6.6 6.9 6.7 7.2 7.0 6.9 7.2 6.8	0.025 0.021 0.016
B/H4/2007	7.6 6.3 7.4 6.2 6.3 6.4 6.3 6.6 6.9 6.7 7.2 7.0 6.9 7.2 6.8	0.025 0.021 0.016
8/19/2008	7.4 6.2 6.3 6.4 6.3 6.6 6.9 6.7 7.2 7.0 6.9 7.2 6.8	0.021
S/18/2009	6.3 6.4 6.3 6.6 6.9 6.7 7.2 7.0 6.9 7.2 6.8	0.016
S/18/2010	6.4 6.3 6.6 6.9 6.7 7.2 7.0 6.9 7.2 6.8	0.016
S/31/2011	6.6 6.9 6.7 7.2 7.0 6.9 7.2 6.8	
B223/2011	6.9 6.7 7.2 7.0 6.9 7.2 6.8	0.026
8/29/2012	7.2 7.0 6.9 7.2 6.8	
5/22/2013	6.9 7.2 6.8	0.022
S/20/2014	7.2 6.8	
S/20/2015   0.0011   0.014   0.085   28.0   <0.0001   <0.005   <0.001   <0.01   5.9		0.03
B/f8/2015   0.0011   0.014   0.085   28.0   0.0001   0.005   0.001   0.01   5.9		0.019
B/31/2016	7.0	0.023
S/16/2017	6.6	0.0053
Nonitor   Date   QA/QC   Na   Pb   Zn   Cl-   NO2-N   NO3-N   SO4   pH   alk42   NH3-N	14.3	0.211
Units -   mg/L   mg/L	6.6 <b>DOC</b>	0.025 <b>Th Cond</b>
Section   Sect	5.0 mg/L	μS/cm
5/16/2006         7         1         < 0.2	0.8	208
8/29/2006         6.9         < 0.0005	0.9	209 226
8/14/2007         7.6         < 0.0005	0.9	216
5/21/2008         6.8         2         0.1         13         8.20         106         0.06           8/19/2008         7.3         < 0.0005	1.2	234 218
5/19/2009         7         <1	0.7	223
5/18/2010         7.2         1         11         8.10         103         0.05           8/25/2010         7.3         <0.0005	1.1 0.8	225 224
8/25/2010         7.3         <0.0005	1.3 0.8	221 225
8/23/2011         7         <0.0005	0.8	228
5/16/2012         7         <1         <0.1         9         7.94         110         <0.05           8/29/2012         7.2         <0.0005	0.9 1.2	224 223
5/22/2013         7.8         1         <0.1	0.95	230
5/20/2014         8.1         3         <0.1	1.8 1.1	230 230
8/19/2014     7.2     <0.0005	1.5 1.1	230 220
8/18/2015 6.9 <0.0005 <0.005 <1 0.035 <0.1 7.9 7.99 120 0.14	3	230
	1.4 0.93	230 230
	0.7	
8/31/2016	0.7	225 219
8/29/2017	<1	221
ODWQS - 500 6.5 - 8.5		
Units -         mg/L         mg/L         mg/L         mg/L         mg/L         mg/L         mg/L         μS/cm           2/9         8/3/2005         105         7         < 3		
9/1/2005 212 0.30 3.72 4 0.0010 7.10 190		
5/16/2006         150         < 4		
5/15/2007         157         < 4         < 2         8.72           8/14/2007         150         0.6         0.43         < 4		
5/21/2008 148 < 4 < 2 4000 8.45		
8/19/2008 150 1.3 1.3 < 4 < 2 < 0.001 8.83 5/19/2009 140 5 8.85 294		
8/18/2009 140 0.5 0.43 12 <0.001 8.52 218		
5/18/2010   156   8.10   8.10   8.25/2010   144   0.5   0.46   5   <0.001   8.20		
5/31/2011         146         <4         8.11         226           8/23/2011         160         <1		
5/16/2012 130 7.2 8.10 230		
8/29/2012         170         0.28         0.38         <8		
8/27/2013 162 0.64 6.1 5.5 <2 12000 <0.001 8.21 236		
5/20/2014         192         15         6.59         220           8/19/2014         186         3.4         6.7         23         <2		
5/20/2015 182 9.3 <2 2300 5.80 210		
8/18/2015 228 0.21 0.7 <4 <2 7.18 203 5/10/2016 could not access		
8/31/2016 122 0.146 3.56 69 <6.0 2900 0.0026 5/16/2017 146 0.27 1.4 38 <3 2300 0.0039 7.88 216		
8/29/2017 166 0.28 1.4 34 <3 3040 <0.002 7.02 203		
Notes: Bold denotes exceedance of ODWQS (2006) criteria NA - Not Analyzed		

Monitor	Date	QA/QC	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
	ODWQS -		0.025	5	1		0.005	0.05	1	0.3	0.001			0.05
2/13	Units - 8/3/2005		mg/L	mg/L 0.024	mg/L 0.029	mg/L 24.0	mg/L	mg/L	mg/L	mg/L < 0.05	mg/L	mg/L	mg/L 7.1	mg/L
2.10	9/1/2005		< 0.001	0.022	0.025	23.0	< 0.0001	< 0.005	0.0020	< 0.05	< 0.0001	6.0	6.9	0.020
	5/16/2006			< 0.02	0.02	23.0				< 0.02			6.7	
	8/29/2006 5/15/2007		< 0.001	0.022	0.028	27.0 23.9	< 0.0001	< 0.005	< 0.001	0.05 < 0.05	<0.0001	5.9	7.0 7.0	
	8/14/2007		< 0.001	0.03	0.024	25.0	< 0.0001	< 0.005	< 0.001	< 0.05	< 0.0001	6.3	7.8	<0.002
	5/21/2008			<0.02	0.03	23.3				<0.05			6.7	
	8/19/2008		< 0.001	0.025	0.025	22.0	< 0.0001	< 0.005	< 0.001	< 0.05 < 0.02	< 0.0001	5.4	8.0 7.0	0.019
	5/19/2009 8/18/2009		< 0.001	0.02	0.03	23.8 25.0	< 0.0001	< 0.005	< 0.001	<0.02		5.7	6.3	0.021
	5/18/2010			<0.02	0.02	23.3				<0.1			7.0	
	8/25/2010		< 0.001	0.022	0.025	24.0	<0.0001	<0.005	<0.001	<0.1		6.0	7.2	0.015
	5/31/2011 8/23/2011		<0.001	0.03 0.018	0.01 0.021	29.0 24.0	<0.0001	<0.005	<0.001	<0.05 <0.1			7.9 6.9	
	5/16/2012		40.001	<0.02	0.03	26.6	40.0001	40.000	40.001	<0.02			7.4	
	8/29/2012		<0.001	0.027	0.024	24.0	<0.0001	<0.005	<0.001	<0.1	<0.0001	6.0	7.7	0.0061
	5/22/2013 8/27/2013		<0.2	0.02	0.026 0.023	26.7 25.9	<0.005	<0.01	<0.02	<0.02 <0.02	<0.0001	6.0	7.6 7.4	0.01
	5/20/2014		<b>VU.2</b>	0.03	0.023	27.0	V0.003	V0.01	<0.02	<0.02	<b>20.0001</b>	0.0	8.1	0.01
	8/19/2014		<0.001	0.024	0.025	24.0	<0.001	<0.005	<0.001	<0.1	<0.0001	5.8	7.3	0.023
	5/20/2015		-0.001	0.02	0.028	26.0	-0.0001	-0.005	-0.001	<0.1		6.0	7.6	0.010
	8/18/2015 5/10/2016	could not access	<0.001	0.016	0.025	24.0	<0.0001	<0.005	<0.001	<0.1		6.0	7.6	0.018
	8/31/2016	. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.00027	<0.050	0.024	26	<0.00001	<0.001	0.00178	<0.005	<0.00001	6.9	7.9	<0.001
	5/16/2017		0.00069	<0.050	0.084	37	0.00008	0.00049	0.0128	3.08	<0.00001	7.0	11.2	0.0125
Monitor	8/29/2017 <b>Date</b>	QA/QC	0.00027 <b>Na</b>	0.023 <b>Pb</b>	0.030 <b>Zn</b>	25 CI-	<0.00002 NO2-N	<0.001 NO3-N	0.00048 <b>SO4</b>	<0.06 <b>pH</b>	<0.000002 alk42	6.4 NH3-N	7.3 <b>DOC</b>	0.13 Th Cond
monitor	ODWQS -	47/4U	200	0.01	5	250	1102-11	10	500	6.5 - 8.5	500	14110-14	5.0	TH Solid
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	μS/cm
2/13	8/3/2005 9/1/2005		13.0 14.0	< 0.0005	< 0.005	< 1 < 1	< 0.3	0.2	12.7 2.0	8.24 8.18	107 111	< 0.05	0.7	211 212
	5/16/2006		8.6	< 0.0005	< 0.005	1	< 0.3	< 0.2	13	8.20	112	< 0.05	0.7	229
	8/29/2006		10	< 0.0005	< 0.005	1	0.02	0.1	10	8.20	114	0.08	0.9	217
	5/15/2007		9			< 1		< 0.1	11	8.10	109	< 0.05	0.8	234
	8/14/2007 5/21/2008		9.4	<0.0005	<0.005	< 1	< 0.01	0.1 < 0.1	14 13	8.10 8.00	104 110	0.07 < 0.05	1.1 0.8	209 240
	8/19/2008		8.3 8.8	< 0.0005	< 0.005	< 1 < 1	< 0.01	< 0.1	13	8.30	102	< 0.05	0.8	223
	5/19/2009		8.7			<1		<0.1	12	7.80	103	<0.05	0.7	234
	8/18/2009		8.2	< 0.0005	< 0.005	<1	< 0.01	<0.1	12	7.60	107	<0.05	1	219
	5/18/2010 8/25/2010		8.8 7.3	<0.0005	<0.005	<1 1	<0.01	0.05	12 12	8.10 8.20	104 103	<0.05 <0.05	0.7 1.3	228 175
	5/31/2011		9.5	<0.0003	V0.003	<1	V0.01	0.03	11	8.10	114	0.37	5.9	253
	8/23/2011		7.9	<0.0005	<0.005	<1	<0.01	<0.1	12	8.14	102	0.21	1.1	221
	5/16/2012 8/29/2012		9.4 8.9	<0.0005	<0.005	<1 <1	<0.01	0.11 <0.1	11 12	7.91 7.78	110 100	0.17 <0.05	2.4 0.58	240 230
	5/22/2013		9.8	<0.0005	<0.005	<1	<0.01	<0.1	12	8.15	100	0.17	0.56	230
	8/27/2013		9.0	< 0.05	<0.01	<1	<0.01	0.11	13	8.07	100	0.058	0.81	230
	5/20/2014		13.0			1		<0.1	13	8.01	110	0.1	0.69	230
	8/19/2014 5/20/2015		9.1 9.8	<0.0005	<0.005	<1 <1	<0.01	<0.1	13 14	8.09 7.59	110 110	0.081 0.056	0.77 0.96	240 240
	8/18/2015		9.0	<0.0005	0.0059	1.2	0.015	<0.1	14	8.00	110	0.07	1.10	230
		could not access												
	8/31/2016		9.51	<0.0002 <b>0.0279</b>	<0.005	-0.5	0.006	0.08	13 12	8.18	111	0.25	0.81	236 225
	5/16/2017 8/29/2017		8.97 8.8	0.0002	<0.003	<0.5 <0.5	<0.033 <0.01	0.42	13	8.18 8.2	107 103	0.12 0.12	<0.5 <1	225
Monitor	Date	QA/QC	Th TDS	TKN	Total P	COD	BOD	TSS	Phenols	Field pH	Field Cond			
	ODWQS -		500	ma/l	ma/l	pp q //	r. a./l	m =/I	po o /1	6.5 - 8.5	u.C./or-			
2/13	Units - 8/3/2005		mg/L 140	mg/L	mg/L	mg/L 10	mg/L < 2	mg/L 1900	mg/L	mg/L 6.50	μS/cm 190			
	9/1/2005		220	0.40	6.60	< 4			< 0.001	7.50	190			
	5/16/2006		141	0.0	0.4	< 4	< 2	2400	.0.001	8.00	230			
	8/29/2006 5/15/2007		151 152	0.2	3.4	< 4 < 4	< 2 <2		< 0.001	8.97 9.00	212			
	8/14/2007		138	0.6	0.21	< 4	<2		< 0.001	8.92				
	5/21/2008		146			< 4	< 2	4500		8.86				
	8/19/2008 5/19/2009		152 145	0.2	0.26	< 4	< 2		< 0.001	8.92 8.04	292			
	8/18/2009		145 139	0.4	0.46	<4 <4			< 0.001	9.10	292			
	5/18/2010		140							8.12	199			
	8/25/2010		144	0.3	0.19	5			<0.001	11.37	200			
	5/31/2011 8/23/2011		160 160	0.6	0.24	16 <4			0.001	7.64 <b>5.60</b>	265 238			
	5/16/2012		112	0.0	J.24	11			3.551	7.69	266			
	8/29/2012		122	0.22	0.27	4.5			<0.001	8.05	297			
	5/22/2013 8/27/2013		152 210	0.36	0.36	5.2 <4	<2	180	<0.001	7.91 8.08	270 237			
	5/20/2014		166	0.30	0.30	<4 <4	~~	100	\U.UU1	6.85	237			
	8/19/2014		150	0.37	0.64	<4	<2		<0.001	8.65	256			
	5/20/2015		144	0.4-	0.00	19	<2	440		5.93	229			
	8/18/2015 5/10/2016	could not access	168	0.17	0.29	<4	<2			6.60	217			
	8/31/2016	101 000000	126	0.294	0.75	60	<6.0	417	0.0032					
	5/16/2017	-	130	0.17	1.2	12	<3	493	0.0036	7.53	196			
Notes:	8/29/2017 Bold denotes ex	coodanaa -f OD	124	0.49	4.5	9	11	658	<0.002	7.24	186	l		

Units	Monitor	Date	QA/QC	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
March   Marc		ODWQS -		0.025	5 mg/l		ma/l	0.005	0.05		0.3	0.001	ma/l	ma/l	0.05
STREAMEN   Color   C	3/8			IIIg/L				IIIg/L	IIIg/L	mg/L		IIIg/L	IIIg/L		HIG/L
March   Color   Colo				< 0.001				< 0.0001	< 0.005	< 0.001		< 0.0001	2.4		0.078
				< 0.001				< 0.0001	< 0.005	< 0.001		< 0.0001	2.6		
SCHOOLD   COLD   COLD				1 0.001				10.0001	1 0.000	10.001		10.0001			
				<0.001				<0.0001	<0.005	<0.001		<0.0001	2.8		0.047
STI-SEGON				< 0.001				< 0.0001	< 0.005	< 0.001		< 0.0001	2.3		0.035
ST-92010		5/19/2009			<0.02	0.020	24.5				<0.02			3.0	
BOSQUETION				< 0.001	<0.02			< 0.0001	< 0.005	< 0.001			2.5		0.009
Best								<0.0001	<0.005	0.001	0.02		2.5		0.021
STREADIZ															
				<0.001				<0.0001	<0.005	<0.001		<0.0001	2.4		0.015
Section   Sect				0.021				<0.0002	<0.005	<0.001		<0.0001	2.6		<0.002
				-0.2				-0.00E	-O O1	-0.03		-0.0001	4.0		-0.01
SCORDING   COUNTY				<0.2				<0.005	<0.01	<0.02		<0.0001	4.0		<0.01
B192016		8/19/2014		<0.001				<0.001	<0.005	0.0014		<0.0001	2.4		0.0065
S-10/2016				<0.001				~0.0001	<0.005	0.0013			2.5		<0.002
S-16/2017												<0.0001			
			could not access		0.05	0.0570	00.4	0.00000	0.0044	0.0440		0.00004	0.0		0.0545
Tigger	Monitor	Date	QA/QC	Na	Pb	Zn	CI-		NO3-N		pН	alk42		DOC	
Units				200	0.01	5			10	500	6.5 - 8.5			5.0	
88/2005				mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	n/a		mg/L	mg/L	μS/cm
S-16/2006   3.5	3/8	8/3/2005		4.0			1.0		0.20	19.9	8.00	65	< 0.05	5.0	160
S229/2006					< 0.0005	< 0.005		<0.3							
SH4/2007					< 0.0005	< 0.005		0.070							
S21/2008					0.0005	0.005		0.040							
Self-special   Self					< 0.0005	< 0.005		0.010							
Self-Second   3.2   c.0.0005   c.0.005   c.0					< 0.0005	< 0.005		< 0.01							
SF18/2010   3.3					0.0005	0.005		2.24							
September   Sept					< 0.0005	< 0.005		< 0.01							
823/2011		8/25/2010		3.3	<0.0005	<0.005		<0.01	1.2	18	8.00	62	< 0.05	3.7	175
September   Sept					-0.000E	-0.00E		-0.01							
S-22/2013					<b>VO.0003</b>	<b>VO.003</b>		X0.01							
8277/2013   3.6					<0.0005	<0.005		<0.01							
S-20/2014   3.8   0.005   2   0.013   0.98   17   7.85   68   0.005   3.5   180					<0.05	<0.01		<0.01							
S20/2015					<0.03	V0.01		Q0.01							
8/18/2015   3.6					<0.0005	<0.005		0.013							
S/10/2016   3.83   0.008   0.02   1.5   0.006   0.47   13   7.85   63   0.06   3.45   156					<0.0005	<0.005		<0.01							
S/16/2017		5/10/2016													
Monitor   Date   QA/QC   ThTDS   TKN   Total P   COD   BOD   TSS   Phenols   Field pH   Field Cond   6.5 - 8.5			could not access	2.07	0.00504		4.0	-0.022	2.4	4.4	0.00	70	0.00	2.0	170
Monitor   Date   QA/QC   Th TDS   TKN   Total P   COD   BOD   TSS   Phenols   Field pH   Field Cond   6.5 - 8.5   Cond   Cond						<0.003									
Trigger Units - mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Monitor		QA/QC		TKN	Total P	COD	BOD	TSS	Phenols		Field Cond			
Units   mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L											6.5 - 8.5				
9/1/2005		Units -			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		μS/cm			
S/16/2006	3/8				1 70	2.02		< 3	4800	0.003					
8/29/2006					1.70	2.92	22	< 2	2400	0.003		300			
8/14/2007		8/29/2006		141	0.40	2.30		< 2		< 0.001	8.37				
S/21/2008					0.80	2 80				< 0.001		163			
5/19/2009         115         41         7.12         196           8/18/2009         110         1.00         37         < 0.001		5/21/2008		128			17		1600		8.01	.50			
8/18/2009					1.00	1.50		< 2		< 0.001		100			
5/18/2010         120         40         6.97         173           8/25/2010         110         1.10         0.54         23         < 0.001					1.00	1.00				< 0.001					
5/31/2011		5/18/2010		120			40				6.97				
8/23/2011					1.10	0.54				< 0.001		105			
5/16/2012   126					1.00	1.30				<0.001					
5/22/2013		5/16/2012		165	0 = :		27				7.29				
8/27/2013					0.71	0.66				<0.001					
8/19/2014		8/27/2013		140	0.73	1.40	7.1	<2	2000	<0.001	7.38	202			
5/20/2015		5/20/2014			0.00	0.00	15			0.000	8.26				
8/18/2015					0.86	0.99			630	<0.001					
8/30/2016 could not access  5/16/2017		8/18/2015		148			12	<2			8.03	166			
5/16/2017         108         0.57         0.47         17         <3         866         0.0034         7.32         135           8/29/2017         118         0.37         0.47         40         <3					0.36	0.89	66	<3	3870	0.0032	6.62	58			
8/29/2017 118 0.37 0.47 40 <3 1060 <0.002 6.25 125  Notes: Bold denotes exceedance of ODWQS (2006) criteria			could not access		0.57	0.47	17	<3	866	0.0034	7.32	135			
		8/29/2017		118	0.37								]		
	Notes:			WQS (2006)	criteria	_	_	_	_	_	· <u> </u>				

91/12006	Monitor	Date	QA/QC	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
40 80/2000					_										
99/2000   0.000	4/6		T	mg/L				mg/L	mg/L	mg/L		mg/L	mg/L		mg/L
Response	4/0			< 0.001				< 0.0001	< 0.005	0.0028		< 0.0001	2.8		< 0.002
## 1918/2007   0,001 0,000 201 0,000 200 0,000 0															
Bell-2007   Bell				< 0.001				0.0002	< 0.005	0.001		< 0.0001	2.7		
				0.001				< 0.0002	< 0.005	< 0.001		< 0.0001	2.8		< 0.002
ST-192010   No Fincewory		5/21/2008			< 0.01	0.020	25.6				< 0.05				
S-242010  No. Recovery   S-122011  No. Recov			M. D.	0.001	< 0.01	0.019	24.0	< 0.0002	< 0.005	< 0.001	< 0.05	< 0.0001	2.4	5.5	< 0.002
SOLIZION   No. Recovery			,												
\$5190012   Out of Service															
SC222013   Out of Services   Colore															
92772019   -															
Secretary   Secr			*	<0.2	0.030	0.030	34 0	<0.005	<0.01	<0.02	<0.02	0.00025	3.0	6.0	0.080
S0002015   Duplicate				10.2				10.000	10.0.	10.02		0.00020	0.0		0.000
Secretary   Secr				0.001				<0.001	<0.005	<0.001		0.00013	2.5		0.033
B182016			Dunlicate												
B312016			Бирисаю	0.014				<0.0001	<0.005	<0.001		<0.0001	2.5		0.018
831/2016   Duplicate   0.002   <0.05   0.056   0.06   0.00001   0.003   0.005   0.109   30   0.00002   0.005   0.000000   0.05   0.000000   0.00000   0.00000   0.00000   0.00000   0.00000   0.00000   0.00000   0.00000   0.00000   0.00000   0.00000   0.00000   0.00000   0.00000   0.00000   0.00000   0.00000   0.0000   0.000000   0.000000   0.00000   0.00000   0.000000   0.00000   0.000000   0.000000   0.000000   0.00000   0.000000   0.000000   0.000000   0.000000   0.000000   0.000000   0.000000   0.00000000															
S162017			Describerto												
Monitor   Date			Duplicate												
ODWGS															
Units	Monitor	Date	QA/QC			Zn						alk42	NH3-N		Th Cond
46 8/3/2005 7.7								mc/l					ma/l		uS/om
91/2006	4/6				Hig/L	mg/L		mg/L							
8/28/2006		9/1/2005			< 0.0005	< 0.005		< 0.3			8.06		< 0.05		
Scheme															
Self-12008					< 0.0005	< 0.005		< 0.01							
Siz1/2008					< 0.0005	< 0.005		< 0.01							
September   Sept															
S24/2010   No Recovery				5.9	< 0.0005	< 0.005	1	< 0.01	< 0.1	8	8.20	97	0.12	1.5	199
S231/2011   No Recovery															
82/32/2011   No Recovery															
September   Sept		8/23/2011	No Recovery												
8/27/2013															
S-			*	4.4	<0.05	<0.01	<1	<0.01	<0.1	9	8.09	110	0.14	22	220
Si/20/2015					10.00	10.01		10.01							
S/20/2015   Duplicate					<0.0005	<0.005		<0.01							
8/18/2015			Dunlicato												
8/31/2016			Бирисаю		<0.0005	<0.005		<0.01							
8/31/2016   Duplicate						0.06									
S/19/2017			Dunlingto												
Monitor   Date   QA/QC   Th TDS   TKN   Total P   COD   BOD   TSS   Photo   Field Cond   6.5 - 8.5   mg/L			Бирпсате												
ODWQS		8/29/2017		4.2	<0.0002		< 0.50	<0.010	0.014	7.4	8.01	96.7			
Units -   mg/L	Monitor		QA/QC		TKN	Total P	COD	BOD	TSS	Phenols	_	Field Cond			
8/3/2005   390   220   <3   7900   3.00   160					ma/l	ma/l	ma/I	ma/l	ma/l	ma/l		uS/cm			
S/16/2006	4/6				g/L	g, L				g/L					
8/29/2006					2.30	5.63			====	< 0.001		160			
S/15/2007					0.300	13			/300	< 0.001					
8/14/2007					0.300	13				< 0.001					
8/19/2008		8/14/2007		134	< 1	1	4	< 2		< 0.001	8.61				
5/18/2010   No Recovery						4.40			10000	.0.001					
8/24/2010   No Recovery				130	6	140	29	< 2		< 0.001	88.8				
5/31/2011   No Recovery															
5/16/2012   Out of Service		5/31/2011	No Recovery										]		
5/22/2013         Out of Service         8/27/2013         * 180         9.5         5.2         340         <2         6300         <0.001         7.73         317           5/20/2014         162         74         7.69         229           8/19/2014         144         7.7         2.5         210         <2															
8/27/2013         *         180         9.5         5.2         340         <2         6300         <0.001         7.73         317           5/20/2014         162         74         7.69         229           8/19/2014         144         7.7         2.5         210         <2															
5/20/2014			*	180	9.5	5.2	340	<2	6300	<0.001	7.73	317			
5/20/2015         174         83         <2		5/20/2014					74				7.69				
5/20/2015         Duplicate         144         51         <2         640         6.29         195           8/18/2015         154         0.1         0.97         25         <2					7.7	2.5			1400	<0.001					
8/18/2015         154         0.1         0.97         25         <2         0.97         6.79         192           5/20/2016         84         0.8         0.39         63         <3															
5/20/2016					0.1	0.97				0.97					
8/31/2016							63				7.17	179			
5/16/2017															
8/29/2017         136         4.2         1.1         120         4         1530         < 0.002         6.75         203           Notes:         Bold denotes exceedance of ODWQS (2006) criteria         * - first sample from newly constructed replacement well			Бирінсаце								8.79	214			
		8/29/2017		136	4.2	1.1	120	4	1530	< 0.002	6.75		]		
				QS (2006) cri	iteria	* - first sa	mple fror	n newly con	structed re	placement	well				

Monitor	Date	QA/QC	As	В	Ba	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
WOINTO	ODWQS -	QA/Q0	0.025	5	1	Oa	0.005	0.05	1	0.3	0.001	- 1	mg	0.05
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
5/17	8/3/2005		mg/ L	< 0.01	0.008	21.0	g/ L	mg/L	mg/L	< 0.05	g/ L	mg/L	4.3	g/ _
0,	9/1/2005		< 0.001	< 0.01	0.008	22.0	< 0.0001	< 0.005	0.003	< 0.05	< 0.0001	0.9	4.3	< 0.002
	5/16/2006	Dry	10.001	10.01	0.000		10.0001	10.000	0.000	1 0.00	10.0001	0.0		10.002
	8/29/2006	Dry												
	5/15/2007	Dry												
	8/14/2007	Diy	< 0.001	< 0.01	0.010	26.0	< 0.0001	< 0.005	0.004	< 0.05	< 0.0001	1.4	5.2	< 0.002
	5/21/2008		10.001	< 0.01	< 0.01	21.7	10.0001	1 0.000	0.001	< 0.05	1 0.0001		4.0	10.002
	8/19/2008		< 0.001	< 0.01	0.008	22.0	< 0.0001	< 0.005	0.005	< 0.05	< 0.0001	1.2	5.1	< 0.002
	5/19/2009		10.001	<0.02	<0.02	20.9	10.0001	10.000	0.000	<0.02	10.0001		4.0	10.002
	8/18/2009		< 0.001	<0.02	0.009	22.0	< 0.0001	< 0.005	0.003	<0.02		1.1	4.4	< 0.002
	5/18/2010		10.001	10.02	0.023	22.7	10.0001	10.000	0.000	<0.02			4.3	10.002
	8/24/2010		<0.001	<0.01	0.023	23.0	<0.0001	< 0.005	0.005	<0.1	<0.0001	1.2	4.8	<0.002
	5/31/2011		10.001	<0.01	<0.01	24.9	40.0001	10.000	0.000	<0.05	10.0001		4.4	10.002
	8/23/2011		<0.001	<0.01	0.009	22.0	<0.0001	<0.005	0.007	<0.1	<0.0001	1.3	4.5	<0.002
	5/16/2012	Dry												
	8/29/2012	Dry												
	5/22/2013	Dry												
	8/27/2013	Dry												
	5/20/2014	Dry												
	8/19/2014		<0.001	<0.01	0.010	25.0	< 0.001	<0.005	0.0038	<0.1	< 0.0001	1.1	5.2	< 0.002
	5/20/2015	Dry												
	8/18/2015		<0.001	<0.01	0.012	23.0	< 0.0001	<0.005	< 0.0061	<0.1	< 0.0001	1.5	4.8	0.0023
	5/10/2016		<0.001	0.050	0.053	32.8	<0.0001	0.005	0.168	5.49	<0.010	2.5	8.0	0.177
	8/31/2016		0.00016	0.050	0.014	27.4	< 0.00001	0.0012	0.0028	<0.0050	<0.00010	1.2	5.5	<0.0010
	5/16/2017	Dry												
	8/29/2017	Dry												
Monitor	Date	QA/QC	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pН	alk42	NH3-N	DOC	Th Cond
	ODWQS -		200	0.01	5	250		10	500	6.5 - 8.5	500		5.0	
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	μS/cm
5/17	8/3/2005		3.4			< 1		< 0.2	3.0	8.24	77	< 0.05	1.4	139
	9/1/2005		3.4	< 0.0005	< 0.005	< 1	< 0.3	< 0.2	10.0	8.15	82	< 0.05	2.0	144
	5/16/2006	Dry												
	8/29/2006	Dry												
	5/15/2007	Dry												
	8/14/2007		3.8	< 0.0005	< 0.005	1	< 0.01	0.4	3	8.00	88	< 0.05	1.4	166
	5/21/2008		3.5			< 1		< 0.2	2	8.00	79	< 0.05	1.3	155
	8/19/2008		3.6	< 0.0005	< 0.005	< 1	< 0.01	< 0.1	2	8.10	85	< 0.05	1.3	163
	5/19/2009		3.9			1		<0.1	2	7.30	86	<0.05	1.2	159
	8/18/2009		3	< 0.0005	< 0.005	< 1	< 0.01	0.1	2	7.90	88	<0.05	1.3	165
	5/18/2010		3.8	0.0005	0.005	1	0.04	<0.1	2	8.00	81	<0.05	1.3	164
	8/24/2010		3.4	<0.0005	<0.005	1	<0.01	0.2	2	8.10	85	<0.05	1.4	167
	5/31/2011		3.7	0.0005	0.005	<1	0.04	<0.1	1	8.05	79	<0.05	1.5	161
	8/23/2011	D=1	3.6	<0.0005	<0.005	1	<0.01	<0.1	2	7.99	81	<0.05	1.4	162
	5/16/2012	Dry												
	8/29/2012 5/22/2013	Dry												
	8/27/2013	Dry												
	5/20/2014	Dry Dry												
	8/19/2014	Diy	3.2	<0.0005	<0.005	<1	<0.01	0.33	2	8.05	90	<0.05	1.1	180
	5/20/2015	Dry	3.2	<0.0003	<0.003		<b>CO.01</b>	0.55		0.00	90	V0.03	1.1	100
	8/18/2015	Diy	4.2	<0.005	0.021	1.2	<0.01	0.47	2.4	7.82	83	<0.05	1.3	170
	5/10/2016		4.6	0.0273	0.035	0.81	0.01	0.29	2.8	8.06	94.5	0.012	2.24	186
	8/31/2016		3.54	<0.00020	0.000	<0.50	0.168	0.168	2.2	8.09	92.1	<0.005	1.64	185
	5/16/2017	Dry	3.04			.5.50	330	250		3.00	J=.1	.3.000		
	8/29/2017													
Monitor	Date	QA/QC	Th TDS	TKN	Total P	COD	BOD	TSS	Phenols	Field pH	Field Cond		•	
	ODWQS -		500							6.5 - 8.5		1		
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μS/cm			
5/17	8/3/2005		150			15	< 3	6000		8.30	130			
	9/1/2005		184	0.40	19.400	< 4			< 0.001	3.40	120			
	5/16/2006	Dry										]		
	8/29/2006	Dry												
	5/15/2007	Dry												
	8/14/2007		122	< 1	1.00	< 4	< 2		< 0.001	8.55	164			
	5/21/2008		104			5	< 2	1100		9.12				
	8/19/2008		110	0.3	0.29	< 4	< 2		< 0.001	8.88				
	5/19/2009		100			51				7.40	192			
	8/18/2009		105	0.4	0.73	13	1		< 0.001	7.71	172			
	5/18/2010		114		,	11	1			7.59	145			
	8/24/2010		106	0.7	1.50	8			<0.001	11.16	101	ļ		
	5/31/2011		98		4 = 0	12			0.004	7.58	161			
	8/23/2011	_	100	<1	1.50	<4			<0.001	6.76	170	1		
	5/16/2012	Dry										l		
	8/29/2012	Dry										l		
	5/22/2013	Dry												
	8/27/2013	Dry												
	5/20/2014	Dry	400	0.44	0.0-	_	_		.0.004	7 70	040	ł		
	8/19/2014	D.m.:	126	0.44	0.37	9	<2	-	<0.001	7.73	216			
	5/20/2015	Dry	104	-0.4	0.25	-1	-0		ZO 004	7.00	161			
	8/18/2015		134	<0.1	0.25	<4	<2	704	<0.001	7.08	161			
	5/10/2016		98	0.147	0.50	29	<3	791 585		7.11	156	ł		
	8/31/2016 5/16/2017	Dny	144	0.155	0.26	17	<6	205	0.0022			ł		
	8/29/2017	Dry												
Notes:	8/29/2017	Dry	<u> </u>	l	l	L	ı	l	l	l		ı		

Notes: Bold denotes exceedance of ODWQS (2006) criteria

Monitor	Date	QA/QC	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
	ODWQS -		0.025	5	1		0.005	0.05	1	0.3	0.001			0.05
0.45	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
6/5	8/3/2005		0.004	< 0.01	0.001	14.0	0.0004	. 0. 005	0.000	< 0.05	0.0004	4.0	3.1	0.004
	9/1/2005 5/16/2006		< 0.001	< 0.01 < 0.02	< 0.013	16.0 15.0	< 0.0001	< 0.005	0.003	< 0.05 < 0.02	< 0.0001	1.8	3.2 2.9	0.004
	8/29/2006		< 0.001	< 0.02	0.030	26.1	< 0.0001	< 0.005	< 0.001	< 0.02	< 0.0001	1.8	5.9	
	5/15/2007		V 0.001	< 0.02	< 0.02	16.4	V 0.0001	1 0.000	V 0.001	< 0.02	V 0.0001	1.0	3.3	
	8/14/2007		< 0.001	< 0.01	0.012	16.0	< 0.0001	< 0.005	0.001	< 0.05	< 0.0001	1.9	3.4	< 0.002
	5/21/2008			< 0.01	< 0.02	14.7				< 0.05			2.9	
	8/19/2008		< 0.001	< 0.01	0.012	15.0	< 0.0001	< 0.005	< 0.001	< 0.05	< 0.0001	1.7	3.4	< 0.002
	5/19/2009			<0.02	<0.02	15.2				<0.02			3.1	
	8/18/2009		< 0.001	<0.02	0.012	15.0	< 0.0001	< 0.005	< 0.001	<0.02		1.8	3.2	< 0.002
	5/18/2010 8/24/2010		<0.001	<0.02	<0.02	14.7 15.0	<0.0001	<0.005	<0.001	<0.02 <0.01	<0.0001	1.8	3.0	0.003
	5/31/2011		<b>CO.001</b>	<0.02	<0.02	17.3	<b>CO.0001</b>	<b>VO.003</b>	<b>CO.001</b>	<0.05	<b>VO.0001</b>	1.0	3.3	0.003
	8/23/2011		<0.001	<0.02	0.013	16.0	<0.0001	<0.005	<0.001	<0.10	<0.0001	1.7	3.1	0.003
	5/16/2012			<0.02	<0.02	17.0				<0.02			3.3	
	8/29/2012		<0.001	<0.01	0.017	18.0	<0.0001	< 0.005	<0.001	<0.10	< 0.0001	2.1	3.8	< 0.002
	5/22/2013			<0.01	0.016	19.9				<0.10			3.9	
	8/27/2013		<0.2	<0.02	0.015	17.7	<0.005	<0.01	<0.02	<0.02	<0.0001	2.0	3.4	<0.01
	5/20/2014			<0.02	0.017	19.0				<0.02			3.7	
	8/19/2014		<0.001	<0.01	0.013	15.0	<0.001	<0.005	<0.001	<0.02	<0.0001	1.7	3.1	0.0023
	5/20/2015 8/18/2015		<0.001	<0.01	0.015 0.015	17.0 15.0	<0.0001	<0.005	<0.001	<0.02	<0.0001	1.7	5.5 3.3	0.0085
	5/10/2016		0.001	0.050	0.015	17.2	0.0001	0.005	0.0101	2.23	0.0001	2.3	4.5	0.0005
	8/31/2016		0.00041	<0.050	0.014	16.1	<0.0001	<0.001	0.00056	0.0069	<0.0001	1.8	3.3	<0.001
	5/16/2017		0.0618	<0.050	0.062	19.4	0.00004	0.0059	0.0129	2.97	<0.00001	2.1	5.1	0.0566
	8/29/2017		0.0004	<0.02	0.015	17.0	<0.00002	<0.001	0.00058	0.087	<0.000002	1.8	3.4	0.0064
Monitor	Date	QA/QC	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pH	alk42	NH3-N	DOC	Th Cond
	ODWQS -		200 mg/l	0.01	5 mg/l	250	m = /!	10 mg/l	500	6.5 - 8.5	500	m = /I	5.0	110/07
6/5	Units - 8/3/2005		mg/L 3.0	mg/L	mg/L	mg/L < 1	mg/L	mg/L 1.3	mg/L 7.0	n/a 8.09	mg/L 53	mg/L < 0.05	mg/L 2.0	μS/cm 106
0,0	9/1/2005		3.1	< 0.0005	< 0.005	< 1	< 0.3	< 0.2	8.0	8.08	58	0.06	2.3	112
	5/16/2006		2.6			1		0.1	7.0	7.90	57	0.08	2.1	119
	8/29/2006		3.4	< 0.0005	< 0.005	57	< 0.01	< 0.1	6.0	8.10	57	< 0.05	1.9	113
	5/15/2007		2.6			2		< 0.1	8.0	7.70	59	< 0.05	2.0	134
	8/14/2007		3.2	< 0.0005	< 0.005	< 1	< 0.01	0.1	6.0	7.90	55	< 0.05	2.0	114
	5/21/2008		2.5			< 1		< 0.1	6.0	7.90	58	< 0.05	1.9	118
	8/19/2008		3.0	< 0.0005	< 0.005	< 1	< 0.01	0.1	6.0	8.10	54	< 0.05	1.9	115
	5/19/2009		2.6	0.0005	0.005	<1	0.04	0.1	6.0	6.90	47	<0.05	1.8	122
	8/18/2009 5/18/2010		2.9	< 0.0005	< 0.005	<1 <1	< 0.01	0.2	6.0	7.90 7.90	56 51	<0.05 <0.05	0.7 1.7	114 116
	8/24/2010		2.7	< 0.0005	< 0.005	<1	<0.01	0.1	6.0	8.00	52	0.09	1.7	118
	5/31/2011		2.6	1 0.0000	1 0.000	<1	10.01	<0.1	5.0	7.81	54	0.05	1.7	119
	8/23/2011		2.7	<0.0005	<0.005	<1	<0.01	<0.1	9.0	7.59	52	< 0.05	1.7	123
	5/16/2012		2.7			<1		0.2	6.0	7.62	56	< 0.05	1.9	130
	8/29/2012		3.1	<0.0005	< 0.005	<1	0.038	0.2	6.0	7.10	65	0.28	2.5	140
	5/22/2013		3.5			<1		0.2	8.0	7.94	63	0.14	1.8	150
	8/27/2013		3.0	<0.05	<0.01	<1	0.014	0.23	6.0	7.88	58	0.08	1.8	140
	5/20/2014 8/19/2014		3.0 2.7	<0.0005	<0.005	<1 <1	<0.01	0.16 0.17	7.0 6.0	7.51 7.82	59 55	<0.05 <0.05	1.5 1.6	130 120
	5/20/2015		2.8	<b>VU.UUU</b>	<b>VO.003</b>	<1	<b>\(\text{0.01}\)</b>	0.17	7.0	6.91	72	<0.05	1.6	120
	8/18/2015		3.5	<0.005	<0.005	<1	<0.01	0.2	7.2	7.62	56	<0.05	1.5	130
	5/10/2016		3.2	< 0.005	0.018	0.05	0.011	0.3	5.3	7.80	52.1	0.043	1.9	118
	8/31/2016		3.3	<0.00002		<0.50	0.003	0.312	4.7	7.99	56.3	0.02	1.8	127
	5/16/2017		3.1	0.00616		<0.50	<0.033	1.7	5.1	8.01	57.8	0.035	1.2	125
NA	8/29/2017	04/00	2.9	<0.0002	<0.003	<0.50	<0.01	0.36	6.6	8.01	56.5	0.015	1.2	126
Monitor	Date ODWQS -	QA/QC	Th TDS 500	TKN	Total P	COD	BOD	TSS	Phenols	<b>Field pH</b> 6.5 - 8.5	Field Cond			
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μS/cm			
6/5	8/3/2005		136	g, <b>_</b>	y-	5	< 2	860	y, <b>-</b>	6.50	100	1		
	9/1/2005		150	0.50	0.710	7			0.003	3.60	100	]		
	5/16/2006		80			9	< 2	1600		8.00	-			
	8/29/2006		70	0.2	0.390	6	< 2		< 0.001	9.03	110			
	5/15/2007		82	. 4	1.400	6	< 2		. 0.001	8.95	400			
	8/14/2007 5/21/2008		77 76	< 1	1.100	< 4 6	< 2 < 2	410	< 0.001	9.47 8.70	106			
	5/21/2008 8/19/2008		80	0.4	0.950	< 4	< 2	410	< 0.001	8.70 8.68				
	5/19/2009		80	0.7	0.000	<4	~ ~ ~		~ 0.001	8.38	132			
	8/18/2009		76	0.7	0.560	12			< 0.001	7.68	140			
	5/18/2010		74			<4				7.54	94			
	8/24/2010		76	0.7	0.480	11			<0.001	11.30				
	5/31/2011		70		0 15 -	5				6.80	132			
	8/23/2011		92	<1	0.400	5			<0.001	6.27	185			
	5/16/2012 8/29/2012		78 96	0.62	0.540	10 18			0.0054	7.38 7.58	172 214			
	5/22/2012 5/22/2013		96	0.02	0.540	18 21			0.0004	7.58	166			
	8/27/2013		122	0.51	0.400	9.1	<2	180	<0.001	7.68	159			
	5/20/2014		108	3.01	5.400	10	~_	100	-0.001	6.77	129			
	8/19/2014		90	0.25	0.250	<4	<2		<0.001	7.55	144			
	5/20/2015		62			4.1	<2	490		6.33	120			
	8/18/2015		102	0.1	0.290	<4	<2		<0.001	6.81	124			
	5/10/2016		56	0.31	0.255	22	<3	336	<0.001	7.45	99			
	8/31/2016		80	0.279	0.316	15	<6	822	<0.001	0 55	105			
	5/16/2017 8/29/2017		76 84	0.24 0.23	0.600 0.520	7.2 19	6 6	671 678	0.0044 <0.002	<b>8.55</b> 7.16	105 126			
Notes:		ceedance of OD\			0.020	13	U	510	~U.UUZ	7.10	120	j		

8/29/2017 84 0.23 0.520 19

Bold denotes exceedance of ODWQS (2006) criteria

Monitor	Date	QA/QC	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
	ODWQS -		0.025	5	1		0.005	0.05	1	0.3	0.001			0.05
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
11/4	8/3/2005			< 0.01	0.025	12.0				< 0.05			3.5	
	9/1/2005			< 0.01	0.026	12.0				< 0.05			3.7	
	8/14/2007			< 0.02	< 0.02	8.2				< 0.05			2.3	
	5/21/2008			< 0.02	< 0.02	7.7				< 0.05			2.2	
	8/19/2008			< 0.02	< 0.02	7.7				< 0.05			2.3	
	5/19/2009			0.09	1.010	8.0				0.52			2.4	
	8/18/2009			< 0.02	< 0.02	8.3				< 0.05			2.4	
	5/18/2010			<0.02	0.02	8.7				0.06			2.5	
	8/24/2010			0.18	0.850	7.6				0.03			2.3	
	5/31/2011			<0.02	<0.02	8.3				<0.05			2.5	
	8/23/2011			<0.02	<0.02	9.0				<0.03			2.5	
	5/16/2012	Dry		<0.02	₹0.02	9.0				<0.02			2.0	
	8/29/2012	Diy		0.00	0.00	0.0				0.00			0.0	
		D		<0.02	<0.02	9.3				0.03			2.6	
	5/22/2013	Dry												
	8/27/2013	Dry												
	5/20/2014			<0.02	0.021	8.8				0.02			2.5	
	8/19/2014		<0.001	<0.01	0.018	6.9	<0.001	<0.005	0.0014	<0.1	<0.0001	1.1	2.0	0.0024
	5/20/2015	Dry												
	8/18/2015		<0.001	<0.01	0.018	5.9	<0.0001	<0.005	0.0023	<0.1	<0.0001	1.2	1.9	0.0021
	5/10/2016		0.001	0.050	1.25	50.8	0.0002	0.05	0.197	29.9	0.0001	10.2	16.0	0.857
	8/31/2016		<0.0001	<0.050	0.0179	7.1	<0.00001	<0.001	0.00168	0.029	<0.00001	1.11	2.0	0.0026
	5/16/2017	Dry	<u> </u>		<u> </u>									
	8/29/2017	Dry												
Monitor	Date	QA/QC	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	рН	alk42	NH3-N	DOC	Th Cond
	ODWQS -		200	0.01	5	250		10	500	6.5 - 8.5	500		5.0	
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	μS/cm
11/4	8/3/2005		9.8	3-	- J -	< 1	J -	1.30	7.0	7.19	51	< 0.05	5.3	104
	9/1/2005		9.2			< 1		0.30	10.4	7.10	53	0.05	5.9	103
	5/16/2006	Dry	0.2			` '		0.00	10.1	7.10		0.00	0.0	100
	5/21/2008	Diy	5.3			< 1		< 0.1	5	7.20	36	< 0.1	4.4	82
	8/19/2008		5.8			< 1			4	7.30	39	< 0.1	6.2	84
								< 0.1						
	5/19/2009		9.1			<1		<0.1	4	6.60	38	0.06	3.5	93
	8/18/2009		5.9			<1		0.1	4	6.60	44	0.07	4.2	91
	5/18/2010		6			<1		<0.1	4	7.00	43	0.12	3.7	96
	8/24/2010		11.3			<1		0.1	4	6.80	43	<0.05	4.2	92
	5/31/2011		5.6			<1		<0.1	3	6.99	41	0.1	3.9	92
	8/23/2011		6.1			<1		<0.1	4	6.73	42	< 0.05	3.9	92
	5/16/2012	Dry												
	8/29/2012		5.8			9		0.14	4	6.92	47	NA	4.6	100
	5/22/2013	Dry												
	8/27/2013	Dry												
	5/20/2014		6.3			<1		<0.1	4	6.74	38	< 0.05	4.0	84
	8/19/2014		5.3	<0.0005	<0.005	9	<0.01	<0.1	4	6.79	35	0.066	4.0	83
	5/20/2015	Dry				-			-					
	8/18/2015	2.,	5.6	<0.0005	<0.005	<1	<0.01	<0.1	4	6.54	34	0.058	5.7	76
	5/10/2016		9.86	0.057	0.188	20	0.003	0.085	60.1	7.27	34.5	0.033	5.4	88.3
	8/31/2016		5.52	<0.0002	0.100	0.73	0.003	0.003	4.1	7.62	34.3	0.0084	5.0	83.6
		Dry	J.JZ	~0.000Z		0.13	0.000	0.073	7.1	7.02	J <del>1</del> .J	0.0004	5.0	55.0
	5/16/2017	Dry	-											
Mousites	8/29/2017	Dry	Th TDC	TIZAL	Tet-I D	000	BOD	TCC	Dharrat	Field at	Field O !			
Monitor	Date	QA/QC	Th TDS	TKN	Total P	COD	BOD	TSS	Phenois	Field pH	Field Cond			
	ODWQS -		500	//		//	//			6.5 - 8.5	0.			
44/4	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μS/cm			
11/4	8/3/2005		175			< 4	< 2	7700		5.40	70			
	9/1/2005		550			14				4.80	90			
	5/16/2006	Dry												
	5/21/2008	-	56			< 4	< 2	27000		7.54				
	. —			1		15	< 2	14000		7.68		l		
	8/19/2008		60											
	8/19/2008 5/19/2009		60			28				6.83	100			
						28 53				6.83 6.63	100 88			
	5/19/2009		60											
	5/19/2009 8/18/2009 5/18/2010		60 57			53 83				6.63 7.52	88			
	5/19/2009 8/18/2009 5/18/2010 8/24/2010		60 57 64 58			53 83 26				6.63 7.52 <b>11.15</b>	88			
	5/19/2009 8/18/2009 5/18/2010 8/24/2010 5/31/2011		60 57 64 58 54			53 83 26 9				6.63 7.52 11.15 6.26	88 91 100			
	5/19/2009 8/18/2009 5/18/2010 8/24/2010 5/31/2011 8/23/2011	Dry	60 57 64 58			53 83 26				6.63 7.52 <b>11.15</b>	88 91			
	5/19/2009 8/18/2009 5/18/2010 8/24/2010 5/31/2011 8/23/2011 5/16/2012	Dry	60 57 64 58 54 74			53 83 26 9 11				6.63 7.52 11.15 6.26 6.51	88 91 100 93			
	5/19/2009 8/18/2009 5/18/2010 8/24/2010 5/31/2011 8/23/2011 5/16/2012 8/29/2012		60 57 64 58 54			53 83 26 9				6.63 7.52 11.15 6.26	88 91 100			
	5/19/2009 8/18/2009 5/18/2010 8/24/2010 5/31/2011 8/23/2011 5/16/2012 8/29/2012 5/22/2013	Dry	60 57 64 58 54 74			53 83 26 9 11				6.63 7.52 11.15 6.26 6.51	100 93 136			
	5/19/2009 8/18/2009 5/18/2010 8/24/2010 5/31/2011 8/23/2011 5/16/2012 8/29/2012 5/22/2013 8/27/2013		60 57 64 58 54 74 NA			53 83 26 9 11 NA				6.63 7.52 11.15 6.26 6.51 6.30	88 91 100 93 136			
	5/19/2009 8/18/2009 5/18/2010 8/24/2010 5/31/2011 8/23/2011 5/16/2012 8/29/2012 5/22/2013 8/27/2013 5/20/2014	Dry	60 57 64 58 54 74 NA			53 83 26 9 11 NA			0.001	6.63 7.52 11.15 6.26 6.51 6.30	88 91 100 93 136 112 78			
	5/19/2009 8/18/2009 5/18/2010 8/24/2010 5/31/2011 8/23/2011 5/16/2012 8/29/2012 5/22/2013 8/27/2013 5/20/2014 8/19/2014	Dry Dry	60 57 64 58 54 74 NA	<1	25	53 83 26 9 11 NA	<2		<0.001	6.63 7.52 11.15 6.26 6.51 6.30	88 91 100 93 136			
	5/19/2009 8/18/2009 5/18/2010 8/24/2010 5/31/2011 8/23/2011 5/16/2012 8/29/2012 5/22/2013 8/27/2013 5/20/2014 8/19/2014 5/20/2015	Dry	60 57 64 58 54 74 NA 1270 562			53 83 26 9 11 NA				6.63 7.52 11.15 6.26 6.51 6.30 6.99 7.56 7.24	88 91 100 93 136 112 78 105			
	5/19/2009 8/18/2009 5/18/2010 8/24/2010 5/31/2011 8/23/2011 5/16/2012 8/29/2012 5/22/2013 8/27/2013 5/20/2014 8/19/2014 5/20/2015 8/18/2015	Dry Dry	60 57 64 58 54 74 NA 1270 562	0.24	12	53 83 26 9 11 NA 21 11	<2		<0.001	6.63 7.52 11.15 6.26 6.51 6.30 6.99 7.56 7.24	88 91 100 93 136 112 78 105			
	5/19/2009 8/18/2009 5/18/2010 8/24/2010 5/31/2011 5/16/2012 8/29/2012 5/22/2013 8/27/2013 5/20/2014 8/19/2014 5/20/2015 8/18/2015 5/10/2016	Dry Dry	60 57 64 58 54 74 NA 1270 562	0.24 0.505	12 14.5	53 83 26 9 11 NA 21 11 4.7	<2 <6	N/A	<0.001 0.001	6.63 7.52 11.15 6.26 6.51 6.30 6.99 7.56 7.24	88 91 100 93 136 112 78 105			
	5/19/2009 8/18/2009 5/18/2010 8/24/2010 5/31/2011 8/23/2011 5/16/2012 8/29/2012 5/22/2013 8/27/2013 5/20/2014 8/19/2014 5/10/2015 8/18/2015 5/10/2016 8/31/2016	Dry Dry	60 57 64 58 54 74 NA 1270 562	0.24	12	53 83 26 9 11 NA 21 11	<2	N/A	<0.001	6.63 7.52 11.15 6.26 6.51 6.30 6.99 7.56 7.24	88 91 100 93 136 112 78 105			
	5/19/2009 8/18/2009 5/18/2010 8/24/2010 5/31/2011 5/16/2012 8/29/2012 5/22/2013 8/27/2013 5/20/2014 8/19/2014 5/20/2015 8/18/2015 5/10/2016	Dry Dry	60 57 64 58 54 74 NA 1270 562	0.24 0.505	12 14.5	53 83 26 9 11 NA 21 11 4.7	<2 <6		<0.001 0.001	6.63 7.52 11.15 6.26 6.51 6.30 6.99 7.56 7.24	88 91 100 93 136 112 78 105			

8/29/2017 Dry Bold denotes exceedance of ODWQS (2006) criteria Notes:

COMMONS   COMMON	Monitor	Doto	04/00	۸۵	D	Da	Cc	C4	٠.	C:	Eo	Ua	V	Me	Mar
Units	Monitor	Date ODWQS -	QA/QC	<b>As</b> 0.025	<b>B</b> 5	<b>Ba</b>	Ca	<b>Cd</b> 0.005	<b>Cr</b> 0.05	Cu 1	<b>Fe</b> 0.3	<b>Hg</b> 0.001	K	Mg	Mn 0.05
91/2002   C.000   C.		Units -			mg/L	mg/L					mg/L		mg/L		
\$150000	16/15			0.004				0.0004	0.005	0.0040		0.0004	4.40		0.000
REGISTROON				< 0.001				< 0.0001	< 0.005	0.0018		< 0.0001	1.10		< 0.002
Ministration   Color   Color								< 0.0001	< 0.005	< 0.0001		< 0.0001	1.10		
Section   Color   Co															
Part			1	< 0.001				< 0.0001	< 0.005	< 0.0001		< 0.0001	1.20		< 0.002
STREETING   A. PROCESSON   Company   Company				< 0.001				< 0.0001	< 0.005	< 0.0001		< 0.0001	1.20		< 0.002
STREAM   S															
BAYADOTO   ADRIGOMENT															
Secretary   Secr															
Officiaries   Color			Noncovery		<0.02	<0.02	17.5				<0.02			3.0	
STREAM   Color   Col				<0.001				<0.0001	<0.005	<0.0001		<0.0001	1.10		<0.002
Big   282-2012															
S227011				<0.001				<0.0001	<0.005	<0.0001		<0.0001	1.00		<0.002
\$6000014				10.001				10.0001	40.000	40.0001		10.0001			10.002
R1920014				<0.2				<0.005	<0.01	<0.02		<0.0001	1.00		<0.01
				-0.004				-0.004	-0.005	0.0044		-0.0004	1.10		0.000
Britago   1				<0.001				<0.001	<0.005	0.0011		<0.0001	1.10		0.006
B-0122016   0.000021   0.0000   0.0004   0.0001   0.00				<0.001				<0.0001	<0.005	<0.001		<0.0001	1.10		<0.002
Singent		5/10/2016	6	<0.001	0.050	0.050	23.6	0.0001	< 0.005	0.009	2.36		2.13	5.4	
8/29/2017															
Montroor   Date   OA/OC   No   Pb   Zn   Ch   NO2-N   NO3-N   SO4   pt   slake2   NH3-N   DOC   Th Cond															
Units	Monitor														
BISS   83/2005   2.9		ODWQS -		200	0.01	5			10	500	6.5 - 8.5			5.0	
9/1/2005	16/15				mg/L	mg/L		mg/L							
9/12/2006   2.8															

Monitor	Date	QA/QC	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
	ODWQS -		0.025	5	1		0.005	0.05	1	0.3	0.001			0.05
17/15	Units - 8/3/2005		mg/L	mg/L < 0.010	mg/L 0.037	mg/L 28.0	mg/L	mg/L	mg/L	mg/L < 0.05	mg/L	mg/L	mg/L 6.5	mg/L
17/15	9/1/2005			< 0.010	0.037	25.0				< 0.05			5.9	
	5/16/2006			< 0.02	0.030	24.2				< 0.02			5.4	
	8/29/2006			< 0.02	0.030	26.1				< 0.02			5.9	
	5/15/2007			< 0.02	0.030	22.6				< 0.02			4.9	
	8/14/2007 8/19/2008			< 0.02 < 0.02	0.020 0.030	23.0 25.8				< 0.02 < 0.02			4.7 5.8	
	5/19/2009			<0.02	0.030	24.7				< 0.02			5.5	
	8/18/2009													
	8/24/2010	No Recovery												
	5/31/2011			<0.02	0.040	26.3				<0.02			5.8	
	8/23/2011 5/16/2012			<0.02 <0.02	0.030	24.5 26.3				<0.02 <0.02			5.5 5.7	
	8/29/2012			<0.02	0.030	22.4				<0.02			4.8	
	5/22/2013			<0.02	0.024	22.4				<0.02			4.8	
	8/27/2013		<0.2	<0.02	0.030	23.8	<0.005	<0.01	<0.02	<0.02	<0.0001	2	5.2	<0.01
	5/20/2014 8/19/2014		0.001	<0.02	0.027 0.033	23.0 24.0	-0.001	<0.005	0.0012	<0.02 <0.1	<0.0001	1.8	5.0	ND
	5/20/2015		0.001	<0.01 <0.01	0.033	27.0	<0.001	<0.005	0.0012	<0.1	<0.0001	1.0	5.6 6.0	ND
	8/18/2015		0.0013	<0.01	0.035	25.0	<0.0001	<0.005	0.0012	<0.1	<0.0001	2.1	6.1	<0.002
	5/10/2016		0.0014	0.050	0.382	26.6	0.0003	<0.005	0.0039	0.23	<0.0001	2.4	6.8	0.007
	8/31/2016	D	0.0011	<0.050	0.038	28.2	0.00003	<0.001	0.00119	<0.005	<0.00001	2.2	6.5	<0.001
	8/31/2016 5/16/2017	Duplicate	0.0016 0.0111	<0.050 <0.050	0.035 0.040	26.4 25.6	0.000053	<0.001	0.00094 0.00504	<0.005 0.29	<0.00001 <0.00001	2.0	6.2 6.5	<0.001 0.0082
	8/29/2017	1	0.00074	<0.050	0.040	26.0	0.000094	<0.0012	0.00504	0.29	<0.00001	2.1	5.9	<0.0082
Monitor	Date	QA/QC	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pH	alk42	NH3-N	DOC	Th Cond
	ODWQS -		200	0.01	5	250		10	500	6.5 - 8.5	500		5.0	
47/45	Units -	1	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	µS/cm
17/15	8/3/2005 9/1/2005		7.6 3.8			< 1 < 1	1	0.2	12.8	8.08 8.06	82 88	< 0.05 < 0.05	2.4	177 183
	5/16/2006		3.5			1		0.4	13.0	8.00	90	< 0.05	2.5	193
	8/29/2006		3.4			1		0.2	14.0	8.10	90	< 0.05	2.4	188
	5/15/2007		3.5			< 1		0.3	9.0	7.60	78	< 0.05	3.5	178
	8/14/2007		3.3			< 1		0.1	14.0	8.00	80	< 0.05	2.7	172
	8/19/2008 5/19/2009		3.4			3		0.1 <0.1	14.0 12.0	8.10 7.10	85 76	< 0.05 < 0.05	2.6	193 200
	8/18/2009		5.5			3		ζ0.1	12.0	7.10	70	<b>V</b> 0.03	2.5	200
	8/24/2010	No Recovery												
	5/31/2011		3.3			<1		0.1	11.0	7.98	83	<0.05	2.4	191
	8/23/2011 5/16/2012		3.1			<1 <1		0.1	11.0 10.0	7.76 7.74	83 84	<0.05 <0.05	2.3	188 190
	8/29/2012		3.3			<1		<0.1 0.15	7.0	7.74	78	<0.05	3.3	170
	5/22/2013		3.9			<1		0.11	5.0	8.06	73	0.07	2.7	150
	8/27/2013		3.5	<0.05	<0.01	<1	<0.01	<0.1	7.0	8.11	80	<0.05	3.0	170
	5/20/2014		3.7	0.000		<1		0.1	5.0	7.76	74	<0.05	2.3	150
	8/19/2014 5/20/2015		3.6	<0.0005	<0.005	<1 <1	<0.01	<0.1 <0.1	13.0 12.0	7.97 7.20	86 85	<0.05 <0.05	2.1	200 190
	8/18/2015		3.3	<0.0005	<0.005	<1	<0.01	<0.1	14.0	8.02	87	<0.05	2.5	190
	5/10/2016		3.9	0.005	0.007	0.96	<0.01	0.1	10.4	7.88	81.2	<0.05	2.33	187
	8/31/2016		3.5	<0.0002		<0.50	0.004	0.065	14.0	8.16	90.3	0.018	2.64	205
	8/31/2016		3.6	<0.0002		<0.50	<0.002	0.091	11.0	8.13	85	0.013	2.73	190
	5/16/2017 8/29/2017		3.6 3.4	0.00093 <0.0002	0.0037	<0.50 0.62	<0.010 <0.010	0.14 0.088	12.0 11.0	8.03 8.03	87.1 83.3	<0.015 0.016	1.6 1.9	191 188
Monitor	Date	QA/QC	Th TDS	TKN	Total P	COD	BOD	TSS	Phenois	Field pH	Field Cond	0.010	1.0	100
	ODWQS -		500							6.5 - 8.5				
47/45	Units -	1	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μS/cm			
17/15	8/3/2005 9/1/2005		149 151			7 10	< 2	230		6.1 3.9	140 160			
	5/16/2006		121			9	< 2	57		7.9	100			
	8/29/2006		111				< 2			8.71				
	5/15/2007		113			6	< 2			8.9				
	8/14/2007 8/19/2008		115 130			12 < 4	< 2	110 77		8.97 9.06	128			
	5/19/2008		120			8	< 2	11		7.4	240			
		No Recovery	120			J				17	2-10			
	8/24/2010													
	5/31/2011		138			17				6.79	223			
	8/23/2011 5/16/2012		128 110			8 16				<b>6.44</b> 7.96	197 233			
	8/29/2012		104			15				7.99	240			
	5/22/2013		92			7.9				8.1	163			
	8/27/2013		130	0.2	0.064	4.7	<2	110	<0.001	7.72	183			
	5/20/2014		110	0.45	0.054	10			-0.004	8.15	132			
	8/19/2014 5/20/2015		110 118	0.15	0.054	8.2 6.3	<2 <2	65	<0.001	7.71 <b>5.81</b>	189 180			
	8/18/2015		128	<0.1	0.044	4.1	<2	- 00	<0.001	8.48	165			
	5/10/2016		76	0.11	0.040	<10	<3	67.8	0.001	7.4	149			
	8/31/2015		126	0.069	0.132	22	<6.0	140	<0.001					
	8/31/2015	Duplicate	148 80	0.147 0.095	0.020 0.048	15 17	<6.0	91.5 81.8	<0.001 0.0037	0.24	150			
	5/16/2017 8/29/2017	1	80	0.095	0.048	17	<3 18	30.3	<0.0037	8.24 7.38	152 169			
Notes:		ceedance of ODWQS			0			30.0	.5.002					

Monitor	Date	QA/QC	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
WIOTIILOI	ODWQS -	Q/VQ0	0.025	5	1	- Oa	0.005	0.05	1	0.3	0.001	IX.	mg	0.05
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
19/16	8/3/2005			< 0.010	0.016	39.0				0.64			9.0	
	9/1/2005			< 0.01	0.014	40.0				< 0.05			9.1	
	5/16/2006 8/29/2006			< 0.02 < 0.02	< 0.02 < 0.02	36.5 39.6				< 0.02 < 0.02			8.2 9.0	
	5/15/2007			< 0.02	< 0.02	41.1				< 0.02			9.1	
	8/14/2007			< 0.02	< 0.02	40.4				< 0.02			9.0	
	5/21/2008			< 0.02	< 0.02	40.7				< 0.02			9.0	
	8/19/2008			< 0.02	< 0.02	40.6				< 0.02			9.1	
	5/19/2009			<0.02	<0.02	38.5				<0.02			8.7	
	5/18/2009 5/18/2010	No Recovery		<0.02	<0.02	39.5				<0.02			8.7	
	8/24/2010			<0.02	<0.02	37.5				<0.02			8.8	
	5/31/2011			<0.02	<0.02	39.8				<0.02			9.0	
	8/23/2011			<0.02	< 0.02	39.6				< 0.02			8.9	
	5/16/2012			< 0.02	< 0.02	41.5				< 0.02			9.0	
	8/29/2012			<0.02	<0.02	41.7				<0.02			9.1	
	5/22/2013		<0.2	<0.02	0.014 0.017	45.3	<0.005	<0.01	<0.02	<0.02 <0.02	<0.0001	2.00	10.2 10.4	<0.01
	8/27/2013 5/20/2014		<0.2	<0.02 <0.02	0.017	45.8 49.0	<0.005	<0.01	<0.02	<0.02	<0.0001	2.00	11.0	<0.01
	8/19/2014		<0.001	<0.02	0.016	43.0	<0.001	<0.005	<0.001	<0.02	<0.0001	2.20	10.0	<0.01
	5/20/2015			<0.01	0.018	45.0				<0.02			10.0	
	8/18/2015		<0.001	<0.01	0.016	41.0	<0.0001	<0.005	<0.001	<0.1	<0.0001	2.10	9.9	<0.002
	5/10/2016		0.001	0.050	0.042	49.6	0.0002	<0.005	0.006	1.55	<0.0001	2.99	12.0	0.031
	8/31/2016		0.00073	<0.05	0.0157	41.9	<0.00001	0.0019	0.00038	<0.005	<0.00001	2.02	9.3 10.9	<0.001
	5/16/2017 8/29/2017		0.00081	<0.05 <0.02	0.0358 0.016	24.9 41.0	0.017	0.0034 <0.001	0.00487 0.00031	1.04 <0.060	<0.00001 <0.000002	2.37 4.30	9.3	0.025 <0.004
Monitor	0/29/2017 Date	QA/QC	Na	<0.02 <b>Pb</b>	2n	CI-	NO2-N	NO3-N	SO4	<0.060 <b>pH</b>	alk42	4.30 NH3-N	DOC	Th Cond
	ODWQS -	2,020	200	0.01	5	250		10	500	6.5 - 8.5	500		5.0	
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	μS/cm
19/16	8/3/2005		8.2			1.0		1.30	8.0	8.23	137	< 0.05	2.1	252
	9/1/2005		4.8			< 1		< 0.2	7.0	8.09	142	< 0.05	2.0	252
	5/16/2006 8/29/2006		4.1 4.4			2		< 0.1	6	8.20 8.10	143 150	< 0.05 < 0.05	2.1	270 267
	5/15/2007		4.4			1		0.2	7	8.10	150	< 0.05	2.5	298
	8/14/2007		4.2			< 1		0.1	8	8.10	149	< 0.05	1.9	271
	5/21/2008		4.5			1		< 0.1	6	8.20	142	< 0.05	2.0	278
	8/19/2008		4.3			1		< 0.1	6	8.30	159	< 0.05	1.8	287
	5/19/2009		4.2			2		0.1	6	7.80	141	<0.05	1.7	285
	8/18/2009 5/18/2010	No Recovery	4.3			2		0.1	5	8.20	137	<0.05	1.7	273
	8/24/2010		4.3			1		0.1	5	8.10	135	<0.05	1.7	275
	5/31/2011		4			1		0.1	4	8.11	138	<0.05	1.9	278
	8/23/2011		4.1			1		0.1	4	7.99	142	<0.05	1.6	279
	5/16/2012		4.3			<1		0.12	4	8.04	140	<0.05	1.9	280
	8/29/2012		4.1			<1		0.15	5	8.02	150	<0.05	2.9	290
	5/22/2013 8/27/2013		5.3 4.8	<0.05	<0.01	<1 <1	<0.01	0.12 <0.1	5 5	8.22 8.28	150 160	0.06 0.05	1.7 1.6	300 310
	5/20/2014		5.1	<0.03	₹0.01	2	<0.01	<0.1	5	8.17	160	<0.05	1.5	300
	8/19/2014		4.4	<0.0005	<0.005	1	<0.01	0.1	5	8.15	160	<0.05	2.3	310
	5/20/2015		4.7			1		<0.1	6	7.75	160	< 0.05	1.7	160
	8/18/2015		4.3	<0.0005	< 0.005	1.2	<0.01	<0.1	6.7	8.12	150	< 0.05	1.4	300
	5/10/2016		5.08	0.002	0.01	1.2	0.005	0.14	5.79	8.12	149	0.03	2.3	291
	8/11/2016 5/16/2017		4.11 4.61	<0.0002		<0.50 1	<0.002 <0.010	0.127 0.24	5.5 7.8	8.29 8.16	139 141	0.0069 <0.015	1.8 0.9	281 278
	8/29/2017		4.01	<0.0002	<0.003	0.79	<0.010	0.24	7.8	8.25	140	0.015	<1.0	287
Monitor	Date	QA/QC	Th TDS	TKN	Total P	COD	BOD	TSS	Phenois	Field pH	Field Cond	0.0.0	11.0	
	ODWQS -		500							6.5 - 8.5				
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μS/cm			
19/16	8/3/2005		164 183			< 4 9	< 3	580		6.40	240 220			
	9/1/2005 5/16/2006		189			5	< 2	360		<b>5.00</b> 7.90	220			
	8/29/2006		165			< 4	< 2	300		8.63				
	5/15/2007		184			<4	<2			8.74				
	8/14/2007		175			< 4	< 2	700		8.48				
	5/21/2008		176			10	< 2	350		8.66				
	8/19/2008		200			< 4	< 2	760		8.73				
	5/19/2009	No Recovery	180			<4	-			7.86	334			
	5/18/2009	ino itecovery	186			6	-			8.07	274			
	8/24/2010		180			8				11.42	<b>4</b> 17			
	5/31/2011		172			7				6.83	302			
	8/23/2011		190		_	<4				7.05	304			
	5/16/2012		142			10				7.95	320			
	8/29/2012 5/22/2013		156 180			8 4.3	-			7.92 7.86	374 317			
	8/27/2013		310	0.110	0.32	4.3 <4	<2	290	<0.001	7.86	317			
	5/20/2014		186	0.110	0.32	6.3	\ <u>\</u>	230	<u> </u>	8.08	253			
	8/19/2014		176	0.380	0.19	<4	<2		<0.001	8.33	300			
	5/20/2015		160			<4	<2	390		7.60	279	]		
	8/18/2015		198	0.120	0.16	<4	<2		<0.001	6.86	272			
1	5/10/2016		124	0.110	0.29	17	<3	276	0.004	7.71	216			
	8/31/2016 5/16/2017		166 142	0.054	0.216 <0.015	44 27	<6 <3	222 221	<0.0010	8.32	237			
	8/29/2017		158	0.093	0.42	10	6	422	<0.003	6.93	216			
Notes:		ceedance of ODW			J.74			766	-5.002	5.55	2.0	ı		

				_	_				_	_				
Monitor	Date	QA/QC	As	В	Ba	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
	ODWQS - Units -		0.025	5 mg/l	1 mg/L	mg/L	0.005 mg/L	0.05	1 mg/L	0.3 mg/L	0.001	mg/L	ma/l	0.05
23/3	8/3/2005		mg/L	mg/L < 0.01	0.013	26.0	mg/L	mg/L	mg/L	< 0.05	mg/L	mg/L	mg/L 5.9	mg/L
23/3	9/1/2005			< 0.01	0.013	25.0				< 0.05			5.7	
	5/16/2006			< 0.02	< 0.02	23.7				< 0.02			5.4	
	8/29/2006			< 0.02	< 0.02	24.6				< 0.02			5.6	
	5/15/2007			< 0.02	< 0.02	24.7				< 0.02			5.8	
	8/14/2007			< 0.02	< 0.02	23.5				< 0.02			5.4	
	5/21/2008			< 0.02	< 0.02	22.8				< 0.02			5.1	
	8/19/2008			< 0.02	< 0.02	24.6				< 0.02			5.5	
	8/18/2009			< 0.02	< 0.02	24.3				< 0.02			5.4	
	5/18/2010			< 0.02	< 0.02	24.0				< 0.02			5.5	
	8/24/2010			< 0.02	< 0.02	22.0				< 0.02			5.4	
	5/31/2011			<0.02	<0.02	29.4				<0.02			6.3	
	8/23/2011			<0.02	<0.02	24.7				<0.02			5.5	
	5/16/2012			<0.02	<0.02	26.6				<0.02			5.8	
	8/29/2012			<0.02	<0.02	25.3				<0.02			5.5	
	5/22/2013		.0.0	<0.02	0.016	27.8	.0.005	.0.04	.0.00	<0.02	0.0004	_	6.3	.0.01
	8/27/2013		<0.2	<0.02	0.014	27.4	<0.005	<0.01	<0.02	<0.02	<0.0001	2	6.3	<0.01
	5/20/2014 8/19/2014		0.001	1.90 0.13	0.54 0.045	190.0 39.0	<0.001	<0.005	<0.001	<b>34</b> <0.1	<0.0001	14	81.0 11.0	0.22
			0.001	0.13	0.045	40.0	<0.001	<0.005	<0.001	<0.02	<0.0001	14	13.0	0.22
	5/20/2015 8/18/2015		0.012	0.12	0.046	34.0	<0.0001	<0.005	<0.001	<0.02	0.00058	8.8	9.1	0.18
	5/10/2016		0.012	1.28	0.042	132.0	0.0004	0.027	0.0383	<0.1 <b>56.5</b>	<0.00058	76.1	52.2	1.29
	8/31/2016		0.012	0.37	0.0653	48.4	0.0004	<0.027	0.0363	0.0146	<0.0001	23	14.1	0.071
	5/16/2017		0.064	0.37	0.00643	46.9	0.00002	0.0123	0.00197	14.9	<0.00001	14	16.7	0.071
	8/29/2017		0.004	0.17	0.00043	68.0	<0.00020	<0.001	0.0005	0.082	<0.00001	32	24.0	0.28
Monitor	Date	QA/QC	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pH	alk42	NH3-N	DOC	Th Cond
	ODWQS -	2,722	200	0.01	5	250		10	500	6.5 - 8.5	500		5.0	
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	μS/cm
23/3	8/3/2005		7.4			< 1		0.70		8.05	75	0.08	3.2	147
	9/1/2005		6.0			< 1		< 0.2	5.0	8.05	91	0.11	5.0	172
	5/16/2006		3.4			2		0.1	9	8.1	93	< 0.05	2.1	180
	8/29/2006		3.5			2		0.1	10	8.10	95	< 0.05	1.9	179
	5/15/2007		3.6			1		< 0.01	7	7.70	93	0.22	5.5	194
	8/14/2007		3.4			10		< 0.1	< 1	8.30	199	0.11	3.7	339
	5/21/2008		3.2			5		0.1	8	8.10	85	0.26	3.0	178
	8/19/2008		3.5			1		0.1	8	8.20	88	0.1	3.1	185
	8/18/2009		3.4			< 1		0.2	7	7.60	89	0.15	1.8	179
	5/18/2010		3.5			2		0.1	8	8.10	85	0.5	1.3	184
	8/24/2010		3.3			1		0.2	8	8.10	86	0.3	2.1	186
	5/31/2011		3.5			1		0.1	9	8.06	87	0.43	1.4	189
	8/23/2011		3.4			2		0.1.	9	7.70	89	<0.05	1.5	189
	5/16/2012		3.7			1		<0.1	8	7.93	95	<0.05	1.4	200
	8/29/2012 5/22/2013		3.4 4.7			<1 2		0.12 <0.1	8 11	7.36 8.04	90 93	0.14 0.22	2.2	190 200
	8/27/2013		4.7	<0.05	<0.01	2	<0.01	<0.1	6	7.89	93	< 0.05	1.8	200
	5/20/2014		72	<b>V</b> 0.03	<b>VO.01</b>	110	<0.01	<0.1	300	7.30	750	11	97.0	2200
	8/19/2014		7.4	<0.0005	<0.005	9	<0.01	<0.1	25	7.78	150	0.54	4.6	360
	5/20/2015		8.9	<b>VO.0003</b>	70.000	10	Q0.01	<0.1	22	7.35	150	0.47	4.5	268
	8/18/2015		6.5	<0.0005	<0.005	5.1	<0.01	<0.1	27	7.53	120	0.77	4.2	290
	5/10/2016		31.9	0.02	0.188	27	<0.002	<0.2	15.3	7.67	577	5.4	15.2	1150
	8/31/2016		10	<0.00002		6.7	0.006	0.042	22	8.15	194	1.2	8.1	439
	5/16/2017		8.53	0.0115		4.3	<0.010	0.068	14	7.66	203	0.7	3.7	422
	8/29/2017		14	<0.0002	<0.003	8.6	0.015	0.048	35	7.88	280	3.1	<13	626
Monitor	Date	QA/QC	Th TDS	TKN	Total P	COD	BOD	TSS	Phenols	Field pH	Field Cond			
	ODWQS -		500							6.5 - 8.5				
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μS/cm			
23/3	8/3/2005		420			320	< 2	5600		7.00	130			
	9/1/2005		390			880				8.10	370			
	5/16/2006		126			190	< 2	7700		7.80				
	8/29/2006		113			120	< 2			8.36				
	5/15/2007		130			520	< 2	00000		8.55				
	8/14/2007		120			89	< 2	36000		8.13				
	5/21/2008		124 130			250 170	< 2	6400		8.40				
	8/19/2008 8/18/2009		130			360	< 2	4900		8.80 8.96	156			
	5/18/2010		122			1800				7.92	170			
	8/24/2010		120			310	<b> </b>			8.07	170			
	5/31/2011		118			740				7.01	209			
	8/23/2011		136			25				6.44	204			
	5/16/2012		110			45				7.82	223			
	8/29/2012		142			100				7.73	250			
	5/22/2013		216			220		0=0-	0.000	7.92	226			
	8/27/2013		182	2.2	1.8	52	<2	2700	<0.001	7.41	246			
	5/20/2014 8/19/2014		1560 222	1.2	0.69	380 34	<2		0.0052	6.99 7.32	1130 331			
	5/20/2015		268	1.2	0.09	29	<2	740	0.0032	6.10	522			
	8/18/2015		200	1	2.5	69	<2	, 10	0.095	6.22	375			
	5/10/2016		624	7.53	1.86	189	23	2660	0.0208	6.89	549			
	8/31/2016		222	4.77	2.38	221	<6	1580	0.0016			1		
	5/16/2017		264	2	1.1	56	10	2250	0.004	7.68	263			
i	8/29/2017		344	1 Q	2.1	46	62	3960	~0 001	6 38	485	1		

4.9

2.1

62

<0.001

Monitor	Data	QA/QC	٨٥	В	Ва	Са	Cd	Cr	Cu	Fe	Uа	K	Ma	Mn
WIOTIILOT	ODWQS -	QA/QC	<b>As</b> 0.025	5	1	Ca	0.005	0.05	1 1	0.3	<b>Hg</b> 0.001	, r	Mg	0.05
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
24/5	8/3/2005			< 0.01	0.026	18.0				0.44			7.1	
	9/1/2005			< 0.01	0.021	16.0				< 0.05			6.7	
	5/16/2006 8/29/2006			< 0.02 < 0.02	0.02	14.9 17.7				< 0.02 < 0.02			6.2	
	5/15/2006			< 0.02	0.03	17.7				< 0.02			6.7	
	8/14/2007			< 0.02	0.03	17.3				< 0.02			6.6	
	5/21/2008			< 0.02	0.03	16.8				< 0.02			6.3	
	8/19/2008			< 0.02	0.03	17.0				< 0.02			6.7	
	5/19/2009			<0.02	0.02	13.2				<0.02			5.5	
	8/18/2009			<0.02	0.03	17.4				<0.02			6.5	
	5/18/2010			<0.02	0.03	16.1				<0.02			6.7	
	8/24/2010 5/31/2011			<0.02 <0.02	0.03	16.0 15.7				<0.02 0.03			6.6	
	8/23/2011			<0.02	0.03	16.0				<0.03			6.4	
	5/16/2012			<0.02	0.03	16.4				<0.02			6.7	
	8/29/2012			<0.02	0.03	17.0				0.02			6.5	
	5/22/2013			<0.02	0.03	17.2				0.06			7.1	
		Tubing Damaged												
		Tubing Damaged	0.004	0.04	0.000	45.0	0.004	0.005	0.0044	0.4	0.0004	0.0	0.5	0.04
	8/19/2014 5/20/2015		<0.001	<0.01 <0.01	0.026 0.026	15.0 15.0	<0.001	<0.005	0.0041	<0.1 <0.02	<0.0001	2.3	6.5 6.7	0.24
	8/18/2015		<0.001	<0.01	0.026	15.0	<0.0001	<0.005	0.0046	<0.02	<0.0001	2.1	7.0	0.24
	5/10/2016		0.002	0.075	0.020	21.7	0.0001	0.006	0.0040	9.7	<0.0001	5.2	8.9	0.41
	8/31/2016		0.00043	0.092	0.0435	18.4	0.000046	<0.001	0.00639	0.0223	<0.00001	5.6	7.7	0.172
	5/16/2017		0.0012	<0.05	0.0562	16.5	0.000072	0.0039	0.0202	3.18	<0.00001	3.73	7.6	0.352
	8/29/2017		0.00059	0.075	0.039	18.0	<0.00002	<0.001	0.0064	0.081	<0.000002	6.5	7.0	0.3
Monitor	Date	QA/QC	Na 200	Pb	Zn	CI-	NO2-N	NO3-N	SO4	<b>рН</b>	alk42	NH3-N	DOC	Th Cond
	ODWQS - Units -		200 mg/L	0.01 mg/L	5 mg/L	250 mg/L	mg/L	10 mg/L	500 mg/L	6.5 - 8.5 n/a	500 mg/L	mg/L	5.0 mg/L	μS/cm
24/5	8/3/2005	1	6.3	mg/L	mg/L	< 1	mg/L	< 0.2	5.0	7.85	88	< 0.05	4.4	148
	9/1/2005		7.1			< 1		< 0.2	8.0	7.64	90	< 0.05	4.2	164
	5/16/2006		5.5			2		< 0.01	7	7.70	88	< 0.05	4.4	169
	8/29/2006		6			2		< 0.01	6	7.60	89	< 0.05	4.1	167
	5/15/2007		5.7			1		< 0.01	6	7.40	81	< 0.05	5.0	168
	8/14/2007		5.7			1		< 0.01	8	7.60	83	< 0.05	4.3	163
	5/21/2008 8/19/2008		5.7 5.9			3 1		< 0.01 < 0.01	7 6	7.80 7.80	81 81	< 0.05 < 0.05	3.7	163 166
	5/19/2009		5.9			1		0.2	5	6.90	68	< 0.05	4.6 3.7	142
	8/18/2009		5.9			< 1		0.2	6	7.00	84	<0.05	4.6	169
	5/18/2010		5.8			1		< 0.01	5	7.60	78	0.07	4.0	164
	8/24/2010		5.9			<1		0.4	5	7.50	78	< 0.05	4.4	106
	5/31/2011		5.3			1		<0.1	7	7.44	73	<0.05	0.5	156
	8/23/2011		5.7			<1		<0.1	5	7.25	78	<0.05	4.1	166
	5/16/2012		6.1			<1		<0.1	6	7.21 6.96	77	<0.05	4.9	170
	8/29/2012 5/22/2013		5.8 6.9			<1 7		<0.1 <0.1	5 5	7.56	80 75	0.16 0.10	<b>5.8</b> 4.3	160
		Tubing Damaged	0.0			,		٧٥.١		7.00	70	0.10	1.0	100
		Tubing Damaged												
	8/19/2014		6.1	<0.0005	< 0.005	<1	<0.01	<0.1	5	7.33	75	0.065	6.2	160
	5/20/2015		7.1			<1		<0.1	5	6.64	90	<0.05	4.4	160
	8/18/2015		6.8	<0.0005	0.0052	<1	<0.01	<0.1	5.6	7.16	75	<0.05	4.1	160
	5/10/2016 8/31/2016		13.7 12.8	0.006 <0.0002	0.004	2.7 1.8	<0.01 <0.002	0.1	10.6 11	7.53 7.91	92 98.9	0.15 0.22	5.0 6.9	214 223
	5/16/2017		8.78	0.00403		1.0	<0.002	0.03	5.3	7.36	83.7	0.22	4.5	177
	8/29/2017		37	<0.0002	0.011	2.4	<0.010	0.35	8.6	7.56	128	0.21	5.8	282
Monitor	Date	QA/QC	Th TDS	TKN	Total P	COD	BOD	TSS	Phenols	Field pH	Field Cond			
	ODWQS -		500	_				_	_	6.5 - 8.5				
0.4/5	Units -	ı	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μS/cm			
24/5	8/3/2005 9/1/2005		460 154			9	< 2	2100		5.00 7.40	140 170			
	5/16/2006		117			< 4	< 2	190		7.40	170			
	8/29/2006		106			< 4	< 2	150		6.88				
	5/15/2007		100			< 4	< 2			7.95				
	8/14/2007		131			6	< 2	860		7.72				
	5/21/2008		102			10	< 2	670		8.22				
	8/19/2008		110			20	< 2	1500		8.16	400			
	5/19/2009 8/18/2009		95 110			15 29				7.67 8.36	162 158			
	5/18/2010		112			17				7.45	103			
	8/24/2010		106			15				11.08	.50			
	5/31/2011		102			9				6.90	196			
	8/23/2011		138			5				6.45	172			
	5/16/2012		232			22	<u> </u>			7.51	155			
	8/29/2012		184			11				7.19	229			
	5/22/2013	Tubing Damaged	162			10				7.59 7.26	132 226			
		Tubing Damaged Tubing Damaged								1.20	220			
	8/19/2014	g Damaget	288	3.4	1.6	7.5	< 2		< 0.001	7.33	160			
	5/20/2015		236			6.7	<2	980		6.05	145			
	8/18/2015		228	0.15	0.64	8.1	<2		<0.001	7.0	155			
	5/10/2016		146	0.77	0.48	45	<6	1180	0.0026	7.3	183			
	8/31/2016		178 144	0.731	1.4 0.39	108 24	<6	1410 928	<0.001 0.0041	77	166			
	5/16/2017 8/29/2017		204	0.59	0.39	47	<3 9	798	<0.0041	7.7 <b>6.1</b>	270			
Notes:		L ceedance of ODW			5.55			750	¬∪.∪∪∠	0.1	210	İ		
	NA - Not Analyze	a .												

Monitor	Date	QA/QC	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
WIOTIILOT	ODWQS -	QA/QC	0.025	5	1 1	Ca	0.005	0.05	1	0.3	0.001	, ,	IVIG	0.05
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
KGS-2	8/3/2005			< 0.01	0.021	30.0				< 0.05			6.7	
VCC 0	9/1/2005			< 0.01	0.026	31.0				< 0.05			6.9	
KGS-2	5/16/2006 8/29/2006			< 0.02 < 0.02	0.030	32.3 29.4				< 0.02 < 0.02			7.1 6.4	
	5/15/2007			< 0.02	0.030	38.8				< 0.02			7.8	
	8/14/2007	under water		V 0.02	0.010	00.0				1 0.02			1.0	
	5/21/2008	no access												
	8/19/2008	no access												
	5/19/2009	no access												
	8/18/2009			< 0.02	0.040	47.2				< 0.02			10.1	
	5/18/2010 8/24/2010			< 0.02 < 0.02	0.030 0.040	39.0 35.3				< 0.02 < 0.02			8.5 8.2	
	5/31/2011			<0.02	0.050	45.4				< 0.02			8.8	
	8/23/2011			<0.02	0.040	41.0				<0.03			8.2	
	5/16/2012			<0.02	0.060	60.5				<0.02			12.6	
	5/16/2012	Duplicate		<0.02	0.060	58.9				<0.02			12.2	
	5/22/2013			<0.02	0.051	51.8				<0.02			10.9	
	8/27/2013		<0.2	<0.02	0.039	46.9	<0.005	<0.01	<0.02	<0.02	<0.0001	4	10.0	0.34
	5/20/2014 8/19/2014		<0.001	<0.02 <0.01	0.037 0.037	46.0 44.0	<0.001	<0.005	<0.001	<0.02 <0.1	<0.0001	4.2	9.7 9.7	0.24
	5/20/2015		₹0.001	<0.01	0.037	54.0	<0.001	<0.003	<0.001	<0.02	<0.0001	4.2	11.0	0.24
	8/18/2015		<0.001	<0.02	0.042	53.0	<0.001	<0.005	<0.001	<0.02	<0.0001	4.5	1.2	0.28
	5/10/2016		0.001	0.050	0.128	53.8	<0.001	0.015	0.024	14.8	<0.0001	7.1	15.0	0.63
	8/31/2016		<0.001	0.050	0.049	69.3	< 0.00005	<0.001	0.00044	< 0.005	<0.00005	5.1	14.3	0.109
	5/16/2017		0.00102	<0.050	0.188	36.6	0.00013	0.0138	0.025	13.6	<0.00001	6.5	13.8	0.603
	8/29/2017	0.1:	<0.0002	<0.02	0.036	36.0	<0.00002	<0.001	0.00028	<0.06	<0.000002	4.0	7.4	0.073
Monitor	Date	QA/QC	Na 200	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pH	alk42	NH3-N	DOC	Th Cond
	ODWQS - Units -		200 mg/l	0.01 mg/L	5 mg/L	250 mg/l	mg/L	10 mg/L	500	6.5 - 8.5 n/a	500 mg/l	ma/l	5.0 mg/l	μS/cm
KGS-2	8/3/2005		mg/L 4.4	mg/L	mg/L	mg/L < 1	IIIg/L	< 0.2	mg/L 17.8	8.10	mg/L 93	mg/L < 0.05	mg/L 2.0	196
1100 2	9/1/2005		6.3			< 1		0.50	4.0	8.10	101	0.07	1.9	211
	5/16/2006		3.6			3		< 0.01	25.0	8.10	102	0.11	3.9	249
	8/29/2006		3.9			2		< 0.01	20.0	8.10	105	0.06	1.9	220
	5/15/2007		6.9			14		< 0.01	18.0	7.50	126	0.21	10.8	318
	8/14/2007	under water												
	5/21/2008	no access												
	8/19/2008 5/19/2009	no access												
	8/18/2009	no access	4.5			12		< 0.01	70.0	7.30	87	0.05	2.3	346
	5/18/2010		3.8			9		< 0.01	52.0	8.00	82	0.14	1.7	303
	8/24/2010		9.6			7		< 0.01	40.0	8.00	85	< 0.05	2.2	291
	5/31/2011		3.9			5			34.0	7.97	108	0.12	2.0	306
	8/23/2011		4.2			9		<0.01	43.0	7.92	93	<0.05	2.2	288
	5/16/2012	D!'	5.4			11		<0.01	67.0	7.49	130	0.09	3.5	420
	5/16/2012 5/22/2013	Duplicate	5.3 5.6			11 11		<0.01 <0.10	70.0 67.0	7.48 8.03	120 97	0.14 0.26	3.1 2.4	410 370
	8/27/2013		4.5	<0.05	<0.01	10	<0.01	<0.10	67.0	7.89	83	<0.05	2.4	340
	5/20/2014		4.7	V0.00	V0.01	7	V0.01	<0.10	46.0	7.76	100	0.07	2.4	310
	8/19/2014		4.1	<0.0005	<0.005	7	<0.01	<0.1	53.0	8.02	94	0.12	2.0	320
	5/20/2015		4.7			13		<0.1	89.0	7.17	88	< 0.05	2.2	390
	8/18/2015		4.7	<0.0005	<0.005	14	<0.01	<0.1	97.0	7.86	83	0.11	2.8	390
	5/10/2016		4.83	0.02	0.044	6.7	<0.002	<0.020	50.8	8.03	101	0.05	2.3	306
	8/31/2016		4.72	<0.0002		7.8	<0.00002	<0.00002	25.0	8.35	204	0.04	3.0	445
	5/16/2017 8/29/2017		4.51 3.6	<b>0.0243</b> < 0.0002	<0.003	3 1.7	<0.033 <0.010	0.1 0.017	25.0 22.0	8.21 8.31	104 99.9	0.07 0.04	2.5 1.3	259 251
Monitor	Date	QA/QC	Th TDS	TKN	Total P	COD	BOD	TSS	Phenois	Field pH	Field Cond	0.04	1.3	231
inomico	ODWQS -	u, u, u	500		Totali	002	505	100	THORIOIO	6.5 - 8.5	ricia cona			
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μS/cm			
KGS-2	8/3/2005		140			38	< 2	9200		6.70	180			
	9/1/2005		450			49		====		3.90	190			
	5/16/2006		150			30	< 2	5600		8.10				
	8/29/2006 5/15/2007		162 207			8 37	< 2 6			8.38 7.87				
	8/14/2007	under water	201			- 51				7.01				
	5/21/2008	no access												
	8/19/2008	no access												
	5/19/2009	no access												
	8/18/2009		230			20				8.33	344			
	5/18/2010		204			10				7.79	404			
	8/24/2010		184 192			16 15				8.00	264			
	5/31/2011 8/23/2011		20			15 <4				6.99 6.32	364 301			
	5/16/2012		262			32				7.33	491			
	5/16/2012	Duplicate	256			44				00				
	5/22/2013	,	306			48				7.36	448			
	8/27/2013		256	0.49	0.75	<4	<2	1400	<0.001	7.66	413			
	5/20/2014		292			10				7.69	284			
	8/19/2014		234	2.60	1.2	11	<2		<0.001	7.21	337			
	5/20/2015		266	0.0-	4 -	13	<2	570	0.001	8.22	348			
	8/18/2015		286	0.27	1.7	20	<2	1150	<0.001	6.85	359			
	5/10/2016 8/31/2016		154 264	0.39 0.31	0.742 0.97	41 62	<3 <6.0	1150	0.0023	7.50	240			
	5/16/2017		160	0.62	1.1	25	<3	2060	0.001	8.40	214			
	8/29/2017		190	0.39	1.8	59	<3	4570	<0.0027	6.60	240			
Notes:		ceedance of ODV					•		-	-		•		

8/29/2017 190 0

Bold denotes exceedance of ODWQS (2006) criteria

### **Ground Water Monitoring Data**

Monitor		QA/QC	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
	ODWQS -		0.025	5	1		0.005	0.05	1	0.3	0.001			0.05
7/4	Units - 6/1/2001		mg/L	mg/L 0.020	mg/L 0.337	mg/L 10.7	mg/L	mg/L	mg/L	mg/L 1.61	mg/L	mg/L 3.9	mg/L 3.9	mg/L
.,-	8/1/2001		< 0.001	0.330	0.260	11.1	< 0.001	0.004	0.031	2.45	< 0.001	3.9	5.5	0.168
	5/7/2002			< 0.001	0.022	10.6				0.21			3.2	
	8/6/2002 5/21/2003		0.002	0.008	0.138 0.023	17.6 11.7	< 0.001	0.013	0.087	<b>7.58</b> 0.10	< 0.001	7.2	6.0 3.3	0.282
	8/6/2003		0.022	0.006	0.023	11.7	< 0.0001	< 0.005	< 0.0005	0.10	<0.00005	3.1	3.3	
	5/26/2004		0.022	<0.01	0.020	11.2	1 0.0001	1 0.000	1 0.0000	0.09	10.00000	0	4.0	
	8/24/2004		< 0.002	0.008	0.022	11.7	< 0.0001	< 0.005	0.0017	0.16	0.0001	3.2	3.2	0.198
	8/3/2005		0.004	0.016	0.026	11.0			0.0040	0.06	0.0004		3.2	0.045
	9/1/2005 5/16/2006		< 0.001	< 0.01 < 0.02	0.017	11.0 11.4	< 0.0001	< 0.005	0.0043	< 0.05 < 0.02	< 0.0001	3.4	3.0	0.045
	8/29/2006			< 0.02	0.02	11.0	< 0.0001	< 0.005	0.003	< 0.02	< 0.0001	3.3	3.2	
	5/15/2007			< 0.02	< 0.02	10.2				0.03			2.9	
	8/14/2007		< 0.001	< 0.01	0.2	12.0	< 0.0001	< 0.005	0.003	< 0.05	0.0001	3.6	3.5	0.21
	5/21/2008 8/19/2008		< 0.001	< 0.01	< 0.02	11.1 11.0	< 0.0001	< 0.005	0.003	< 0.05 < 0.05	< 0.0001	3.2	3.0	0.2
	5/19/2009		< 0.001	<0.01	<0.019	9.0	< 0.0001	< 0.005	0.003	< 0.05	< 0.0001	3.2	2.5	0.2
	8/18/2009		< 0.001	< 0.02	0.02	11.0	< 0.0001	< 0.005	0.004	<0.05		3.2	3.0	0.19
	5/18/2010			<0.02	<0.02	10.7				0.03			3.0	
	8/24/2010 5/31/2011		<0.001	<0.01	0.022 <0.01	11.0 11.4	<0.0001	<0.005	<0.001	<0.01 <0.05	<0.0001	3.4	3.2	0.23
	8/23/2011		<0.001	<0.01	0.018	11.4	<0.0001	<0.005	0.003	<0.05	<0.0001	3.0	3.2	0.2
	5/16/2012			<0.02	<0.02	11.9				<0.02			3.2	
	8/29/2012		<0.001	<0.01	0.02	11.0	<0.0001	<0.005	2.8	<0.2	<0.0001	3.2	3.3	0.2
Monitor	10/5/2017 Date	QA/QC	0.0003 <b>Na</b>	<0.02 <b>Pb</b>	0.017 <b>Zn</b>	9.9 <b>CI-</b>	<0.00002 NO2-N	<0.001 NO3-N	0.0034 <b>SO4</b>	0.075 <b>pH</b>	<0.000002 alk42	2.9 NH3-N	2.9 <b>DOC</b>	0.18 Th Con
WOTHER	ODWQS -	QA/QC	200	0.01	5	250	1402-14	10	500	6.5 - 8.5	aik42	14113-14	5.0	111 CO11
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	μS/cm
7/4	6/1/2001		4.8	0.004	0.400	2.4	0.40	< 0.10	7.5	7.46	45	< 0.10	2.2	116
	8/1/2001 5/7/2002		8.1 4.3	< 0.001	0.180	6.1	< 0.10	< 0.10 < 0.10	5.1	7.13	50	0.10 0.04	2.8 3.0	115
	8/6/2002		5.9	0.017	0.045	8.9	< 0.05	< 0.10	3.2	6.80	53	0.04	2.5	111.7
	5/21/2003		4.3			< 0.5		< 0.2	< 0.5	7.01	49	0.06	4.4	127
	8/6/2003		4.7	<0.0005	<0.005	0.6	< 0.2	< 0.2	8.1	7.91	108	0.06	2.8	227
	5/26/2004 8/24/2004		4.4 4.5	0.001	< 0.005	<0.5 1.0	< 0.2	<0.2 0.40	5.6 5.6	6.93 6.98	49 50	<0.03	3.6	110 125
	8/3/2005		4.8	0.001	< 0.003	< 1	< 0.2	2.30	8.0	7.53	40	< 0.05	3.3	95
	9/1/2005		4.8	< 0.0005	0.005	< 1	< 0.3	0.50	7.0	7.45	53	< 0.05	3.2	107
	5/16/2006		4.3			2.0			6	7.3	55	< 0.01	3.7	113
	8/29/2006 5/15/2007		4.2	< 0.0005	< 0.005	1.0 2.0	< 0.01	0.2 < 0.1	6	7.3	53 49	< 0.05	3.8 4.8	107 111
	8/14/2007		4.8	< 0.0005	< 0.005	< 1	< 0.01	0.1	6	7.1	52	< 0.05	3.6	110
	5/21/2008		3.9			< 1		< 0.1	5	7.7	50	< 0.05	3.1	109
	8/19/2008		4.7	< 0.0005	< 0.005	< 1	< 0.01	< 0.1	7	7.6	51	< 0.05	3.3	110
	5/19/2009 8/18/2009		3.4	< 0.0005	< 0.005	<1 <1	< 0.01	<0.1 <0.1	4 5	6.6	42 53	<0.05 <0.05	2.8 3.6	94 112
	5/18/2010		4	< 0.0005	< 0.005	1.0	< 0.01	<0.1	5	7.3	49	<0.05	3.3	109
	8/24/2010		4.7	<0.0005	<0.005	1	<0.01	<0.1	5	7.1	51	<0.05	3.8	116
	5/31/2011		3.9			2	2.24	<0.1	9	7.14	46	<0.05	2.9	101
	8/23/2011 5/16/2012		4.4 4.2	<0.0005	0.006	1 <1.0	<0.01	<0.1 <0.1	7	6.74 6.99	48 50	<0.05 <0.05	3.3	115 110
	8/29/2012		4.6	<0.0005	<0.005	<1.0	<0.01	<0.1	5	6.86	53	<0.05	3.0	110
	10/5/2017		6.5	0.00046	<0.003	<0.5	<0.033	0.92	5.4	7.53	53.8	<0.015	3.3	110
Monitor	Date	QA/QC	Th TDS	TKN	Total P	COD	BOD	TSS	Phenols	Field pH	Field Cond			
	ODWQS - Units -		500 mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	6.5 - 8.5 mg/L	μS/cm			
7/4	6/1/2001		185			25	2							
	8/1/2001 5/7/2002		218 <b>730</b>	0.46	0.07	36 195	< 1	< 1 13.47	< 0.001	7.2 7.0	50 70			
	8/6/2002		146	0.07		< 20	< 1	4.55	< 0.001	7.0	100			
	5/21/2003		180			14	< 0.5			7.4	90			
	8/6/2003		132	0.18	< 0.05	9	< 0.5	3640	< 0.001	7.3	90			
	5/26/2004 8/24/2004		136 140	0.32	1.14	11 13			< 0.001	6.9 <b>6.2</b>	20 NA			
	8/3/2004		410	0.32	1.14	22	< 3	2400	< 0.001	3.3	90			
i			247	0.70	2.99	15			< 0.001	4.4	90			
	9/1/2005		271	<u> </u>			- 2	1100	1	7.0				
	5/16/2006		68			13	< 2			-				
	5/16/2006 8/29/2006		68 82	0.5	1.6	13	< 2	1100	< 0.001	6.6				
	5/16/2006 8/29/2006 5/15/2007		68 82 72	0.5		13 5	< 2 < 2	1100		6.9	105			
	5/16/2006 8/29/2006		68 82		1.6	13	< 2	1500	< 0.001		105			
	5/16/2006 8/29/2006 5/15/2007 8/14/2007 5/21/2008 8/19/2008		68 82 72 69 68 75	0.5		13 5 19 11 8	< 2 < 2 < 2			6.9 7.1 7.5 7.4				
	5/16/2006 8/29/2006 5/15/2007 8/14/2007 5/21/2008 8/19/2008 5/19/2009		68 82 72 69 68 75	0.5	3.4	13 5 19 11 8 16	< 2 < 2 < 2 < 2		< 0.001 < 0.001	6.9 7.1 7.5 7.4 7.5	100			
	5/16/2006 8/29/2006 5/15/2007 8/14/2007 5/21/2008 8/19/2008 5/19/2009 8/18/2009		68 82 72 69 68 75 60 72	0.5	3.4	13 5 19 11 8 16 34	< 2 < 2 < 2 < 2		< 0.001	6.9 7.1 7.5 7.4 7.5 7.6	100 152			
	5/16/2006 8/29/2006 5/15/2007 8/14/2007 5/21/2008 8/19/2008 5/19/2009		68 82 72 69 68 75	0.5	3.4	13 5 19 11 8 16	< 2 < 2 < 2 < 2		< 0.001 < 0.001	6.9 7.1 7.5 7.4 7.5	100			
	5/16/2006 8/29/2006 5/15/2007 8/14/2007 5/21/2008 8/19/2009 8/18/2009 5/18/2010 8/24/2010 5/31/2011		68 82 72 69 68 75 60 72 74 74	0.5 < 1 1.2 1.6 1.6	3.4 1.3 2.2 0.79	13 5 19 11 8 16 34 13 19	< 2 < 2 < 2 < 2		< 0.001 < 0.001 < 0.001	6.9 7.1 7.5 7.4 7.5 7.6 7.2 11.0 6.4	100 152 85			
	5/16/2006 8/29/2006 5/15/2007 8/14/2007 5/21/2008 8/19/2008 5/19/2009 8/18/2009 5/18/2010 8/24/2010 5/31/2011		68 82 72 69 68 75 60 72 74 74 66	0.5	3.4 1.3 2.2	13 5 19 11 8 16 34 13 19 18	< 2 < 2 < 2 < 2		< 0.001 < 0.001 < 0.001	6.9 7.1 7.5 7.4 7.5 7.6 7.2 11.0 6.4 6.3	100 152 85 118 124			
	5/16/2006 8/29/2006 5/15/2007 8/14/2007 5/21/2008 8/19/2009 8/18/2009 5/18/2010 8/24/2010 5/31/2011		68 82 72 69 68 75 60 72 74 74	0.5 < 1 1.2 1.6 1.6	3.4 1.3 2.2 0.79	13 5 19 11 8 16 34 13 19	< 2 < 2 < 2 < 2		< 0.001 < 0.001 < 0.001	6.9 7.1 7.5 7.4 7.5 7.6 7.2 11.0 6.4	100 152 85			

Notes: Bold denotes exceedance of ODWQS (2006) criteria

NA - Not Analyzed

### **Ground Water Monitoring Data**

Monitor	Date	QA/QC	As	В	Ba	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn
WOIIIO	ODWQS -	QA/Q0	0.025	5	1	- Ou	0.005	0.05	1	0.3	0.001	IX.	- III g	0.05
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
21/7	6/1/2001		IIIg/L	0.062	0.297	25.7	mg/L	mg/L	IIIg/L	0.27	IIIg/L	2.80	7.2	IIIg/L
21/1	8/1/2001		< 0.001	0.002	0.029	27.5	< 0.001	< 0.001	< 0.001	0.45	< 0.001	2.80	5.9	0.071
	8/6/2002		0.002	0.014	0.029	35.8	< 0.001	0.003	0.0150	1.88	< 0.001	4.02	9.1	0.103
			0.002	0.023	0.034	28.9	< 0.001	0.003	0.0150		< 0.001	4.02		0.103
	5/21/2003		< 0.002	0.020	0.043	29.4	. 0.0004	. 0.005	. 0 0005	0.03	. 0 00005	2.40	6.5 7.0	
	8/6/2003		< 0.002				< 0.0001	< 0.005	< 0.0005		< 0.00005	3.10		
	5/26/2004		0.000	0.020	0.032	26.0	0.0004	0.005	0.0005	0.04	0.0004	0.00	6.1	0.050
	8/24/2004		< 0.002	0.021	0.035	30.1	< 0.0001	< 0.005	< 0.0005	< 0.03	< 0.0001	2.90	6.5	0.056
	8/3/2005			0.022	0.034	27.0				< 0.05			6.0	
	9/1/2005		< 0.001	0.022	0.034	33.0	< 0.0001	< 0.005	0.0016	< 0.05	< 0.0001	3.50	7.4	0.069
	5/16/2006			< 0.02	0.03	26.3				< 0.02			5.6	
	8/29/2006		< 0.001	0.017	0.034	30.0	< 0.0001	< 0.005	< 0.001	< 0.05	< 0.0001	3.20	6.8	
	5/15/2007			< 0.02	0.04	28.0				< 0.02			6.0	
	14/08/2007		0.001	0.018	0.037	33.0	< 0.0001	< 0.005	< 0.001	< 0.02	< 0.0001	3.70	7.3	
	5/21/2008			< 0.02	0.03	26.8				< 0.02			5.6	
	8/19/2008		< 0.001	0.021	0.034	29.0	< 0.0001	< 0.005	< 0.001	< 0.02	< 0.0001	3.20	7.4	0.055
	5/19/2009			< 0.02	0.03	26.4				<0.02			5.6	
	8/18/2009		< 0.001	0.019	0.039	30.0	< 0.0001	< 0.005	0.001	< 0.02		3.20	6.8	0.046
	5/18/2010			< 0.02	0.05	28.6				< 0.02			6.1	
	8/24/2010	No Recovery												
	5/31/2011			<0.02	0.04	29.2				<0.02			6.4	
	8/23/2011		<0.001	0.015	0.041	31.0	<0.0001	<0.005	<0.001	<0.1	<0.0001	3.30	7.2	0.042
	5/16/2012			<0.02	0.04	31.2				<0.02			6.6	
	8/29/2012		<0.001	0.022	0.039	31.0	<0.0001	<0.005	<0.001	<0.1	<0.0001	3.30	7.3	0.028
	10/5/2017		0.00058	0.021	0.045	30.0	<0.00002	<0.001	0.00039	<0.06	<0.000002	3.40	6.6	0.040
Monitor	Date	QA/QC	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pH	alk42	NH3-N	DOC	Th Cond
	ODWQS -		200	0.01	5	250		10	500	6.5 - 8.5			5.0	53114
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	μS/cm
21/7	6/1/2001	1	10.3	mg/L	mg/L	2.7	g/L	< 0.10	8.3	8.05	110	< 0.10	4.5	230
21//	8/1/2001		7.8	< 0.001	0.0050	2.1	< 0.10	< 0.10	0.0	7.89	100	< 0.10	2.2	210
	8/6/2002		7.7	0.0020	0.0290	< 0.5	< 0.10	< 0.10	3.4	8.12	118	0.08	1.6	220
	5/21/2003			0.0020	0.0290	28.9	< 0.05		7.6					227
			6.5	0.0005	0.005		0.0	< 0.2		7.90	106	< 0.03	2.3	
	8/6/2003		7.2	< 0.0005	< 0.005	1.0	< 0.2	< 0.2	8.1	7.91	108	0.06	2.8	227
	5/26/2004		5.5			0.5		0.20	6.6	7.95	93	0.03	2.4	187
	8/24/2004		6.4	0.0006	0.0050	0.6	< 0.2	< 0.2	6.9	8.00	111	0.07	2.1	223
	8/3/2005		5.8			< 1		< 0.2	9.0	8.19	110	0.11	3.1	208
	9/1/2005		6.9	< 0.0005	0.0058	< 1	< 0.3	< 0.2	6.0	8.03	120	0.07	2.5	217
	5/16/2006		6.1			1		< 0.1	6.0	8.20	121	< 0.05	1.9	230
	8/29/2006		6.4	< 0.0005	< 0.005	6	< 0.01	< 0.1	7.0	8.10	123	0.09	2.4	223
	5/15/2007		6.3			1		< 0.1	7.0	8.00	113	< 0.05	2.4	229
	8/14/2007		7			2	< 0.01	< 0.1	7.0	8.00	118	0.08	2.4	217
	5/21/2008		5.8			4		< 0.1	6.0	8.00	113	< 0.05	1.9	228
	8/19/2008		6.8	< 0.0005	< 0.005	2	< 0.01	< 0.1	6.0	8.20	115	< 0.05	2.6	230
	5/19/2009		5.9			1		<0.1	5.0	7.10	83	0.06	2.3	206
	8/18/2009		6.2	< 0.0005	< 0.005	1	0.02	<0.1	7.0	7.80	119	0.14	2.7	230
	5/18/2010		6.1			2		<0.1	9.0	8.10	111	0.16	2.1	234
		No Recovery				_			0.0					
	5/31/2011		5.8			1		<0.1	5.0	8.02	103	0.09	2.4	211
	8/23/2011		6.3	<0.0005	<0.005	2	<0.01	<0.1	7.0	8.02	114	<0.05	2.4	231
	5/16/2012		6.1	10.0000	40.000	<1	40.01	<0.1	6.0	7.84	110	<0.05	2.5	230
	8/29/2012		6.3	<0.0005	<0.005	1	<0.01		6.0	7.76	120	<0.05	3.5	230
	10/5/2017		6.5	<0.0005	<0.003	0.56	<0.01	<0.1 1.8	7.1	8.08	98.9	0.06	1.8	204
M:-												0.06	1.8	204
Monitor	Date	QA/QC	Th TDS	TKN	Total P	COD	BOD	TSS	Phenois	Field pH	Field Cond			
	ODWQS -		500	wa /1	m /I	w/1	w /I	m/1	wa /1	6.5 - 8.5	0/			
21/7	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μS/cm			
21/7	6/1/2001		149	0.00	0.04	< 20	< 1	45.00	. 0 001					
	8/1/2001		230	0.26	0.01	22		15.00	< 0.001	0.0	100			
	8/6/2002		180	< 0.05		56	1	6.52	< 0.001	8.3	180			
	5/21/2003		192			9	< 0.5			7.9	170			
	8/6/2003		160	0.19	< 0.05	11	< 0.5	8030		7.7	160			
	5/26/2004		156			9				6.9	40			
	8/24/2004		142	0.20	3.54	12			< 0.001	6.7	NA			
	8/3/2005		350			64	< 3	410		3.9	170			
	9/1/2005		220	0.80	7.50	36			< 0.001	6.1	200			
	5/16/2006		154			< 4	< 2	8000		8.2	-			
	8/29/2006		147	0.300	2.5	6	< 2		< 0.001	8.23				
	5/15/2007		158			18	< 2			8.35				
	8/14/2007		151	0.700	4	17	< 2		< 0.001	8.11	221			
	5/21/2008		148			7	< 2	4600		8.39				
	8/19/2008		160	1.400	1.3	13	< 2		< 0.001	8.39				
	5/19/2009		140			28	1-		. 5.551	7.91	230			
	8/18/2009		155	4.000	12	76				8.19	222			
	5/18/2010		162	7.000	12	85				0.10	<i>LLL</i>			
		No Recovery	102			00								
		NO NECOVERY	104			20				6.0	246			
	5/31/2011		124	0.000	0.54				.0.004	6.8				
	8/23/2011		156	0.600	0.54	<4			<0.001	6.25	245			
	5/16/2012		122	0.00-		19			0.000	7.53	229			
	8/29/2012		160	0.820	0.37	<8.0		00500	<0.001	7.76	260			

312 Bold denotes exceedance of ODWQS (2006) criteria

0.41

6.90

39

<3

28500

NA - Not Analyzed

10/5/2017



# APPENDIX E

## **Ground Water Levels**

		Surface	Trigger	Background				Groun	d Water Ele	vations			
		Elevation	Elevation										
Monitor	Target Zone	(masl)	(masl)	Fenco (10/96)	1-May-02	1-Jun-02	1-Jul-02	1-Aug-02	1-Sep-02	1-Oct-02	1-May-03	1-May-04	1-Aug-04
1/17	Till	351.44		350.87	350.66			350.23			350.74	350.74	NA
2/9	Till	351.07		350.08	350.32	350.26	350.17	350.16	350.32	349.62	349.62	350.62	350.36
2/13	Bedrock	350.85		350.06	350.10			349.93			350.18	350.35	350.15
3/8	Till	351.51		350.44	349.86	350.17	350.06	350.06	350.36	350.30	350.34	350.51	350.21
4/6	Till	351.48		350.36	350.13			349.93			349.79	350.18	350.08
5/17	Till / Bedrock	370.13	361.75	355.57	353.08	352.82	352.63	N/A	352.43	352.58	353.59	353.83	357.10
6/5	Till	351.09		349.90	349.77			349.55			349.71	349.97	349.87
11/4	Till	366.45	366.45		361.36	361.34	361.41	N/A	361.34	362.11	361.95	363.85	363.19
13/6	Till	355.02			348.62	348.90	348.90	348.81	349.09	349.58		350.37	350.26
13/14	??	354.72			349.27	350.00	349.15	348.72	349.62	349.87		351.22	350.63
14/6	Till	348.91			346.07	346.50	346.48	346.33	346.91	347.66		348.19	347.92
14/21	??	348.68			345.18	345.50	345.45	345.30	345.92	346.53		347.18	346.91
15/5	Till	352.17			350.50	349.80	350.37	350.38	349.80	350.88		351.42	350.73
15/17	??	352.08			350.58	350.60	350.47	350.47	350.85	350.83		351.99	350.80
16/15	??	362.25	362.25		350.37	350.07	349.95	349.94		350.27	350.51	350.55	351.04
17/15	??	359.99			350.37			350.14			350.72	350.99	351.79
19/6	Till	364.15	364.15		357.60	357.54	364.15	N/A			357.54	357.45	dry
23/3	Peat	351.19			350.33			350.12			350.46	350.39	351.00
24/5	Till	352.01			350.56			350.80			350.89	351.01	350.91
KGS-2	??	351.38		350.37	349.93			349.66			350.08	350.08	350.08

	Water Bever	Surface	Trigger	Background				Groun	d Water Ele	vations			
		Elevation	Elevation										
Monitor	Target Zone	(masl)	(masl)	Fenco (10/96)	1-Aug-05	1-Sep-05	1-Oct-05	1-May-06	1-Aug-06	1-May-07	1-Aug-07	1-May-08	1-Aug-08
1/17	Till	351.44		350.87	NA	NA	NA	350.66	350.04	350.38	351.44	349.37	no access
2/9	Till	351.07		350.08	350.23	350.32	349.62	349.95	349.77	349.82	349.85	349.88	349.79
2/13	Bedrock	350.85		350.06	350.13	350.13	350.14	350.10	349.93	350.06	350.02	350.14	350.07
3/8	Till	351.51		350.44	350.19	350.13	350.16	350.17	349.80	350.12	350.26	350.28	350.11
4/6	Till	351.48		350.36	350.06	350.00	350.39	350.05	349.73	350.13	350.16	350.29	350.23
5/17	Till / Bedrock	370.13	361.75	355.57	357.77	357.18	356.10	dry	dry	Dry	354.91	353.54	354.88
6/5	Till	351.09		349.90	349.79	349.75	349.79	349.73	349.02	349.65	349.75	349.81	349.55
11/4	Till	366.45	366.45		363.41	363.01	362.05	dry	dry	Dry	362.75	362.26	362.82
13/6	Till	355.02			350.22	349.90	349.52	349.41	348.67	348.56	350.50	349.50	350.10
13/14	??	354.72			350.78	350.27	350.22	350.07	348.39	349.09	350.35	349.69	350.16
14/6	Till	348.91			347.81	347.57	347.41	347.31	346.32	345.05	347.32	346.86	347.27
14/21	??	348.68			346.72	346.32	346.37	346.33	345.33	344.20	346.30	345.91	346.26
15/5	Till	352.17			350.69	350.51	350.52	350.57	350.12	349.45	350.87	350.77	350.58
15/17	??	352.08			358.59	358.57	359.53	350.66	350.26	350.56	350.82	350.78	350.67
16/15	??	362.25	362.25		352.05	352.13	351.56	350.50	350.19	349.60	350.63	350.44	350.91
17/15	??	359.99			352.47	352.09	351.53	350.58	350.23	349.72	351.40	350.55	350.99
19/6	Till	364.15	364.15		dry	353.02	dry	dry	dry	Dry	Dry	Dry	Dry
23/3	Peat	351.19			350.27	350.25	350.30	350.22	349.85	350.17	350.32	350.39	350.32
24/5	Till	352.01			350.79	350.79	351.01	350.79	350.53	350.52	350.75	350.83	350.89
KGS-2	??	351.38		350.37	350.20	350.20	349.34	349.98	349.79	349.84	no access	348.87	no access

		Surface	Trigger	Background				Ground	l Water Ele	vations			
		Elevation	Elevation										
Monitor	Target Zone	(masl)	(masl)	Fenco (10/96)	1-May-09	1-Aug-09	10-May-10	10-Aug-10	9-Jun-11	23-Aug-11	16-May-12	29-Aug-12	21-May-13
1/17	Till	351.44		350.87	no access	349.99	349.47	350.00	349.50	351.44	349.02	349.22	349.02
2/9	Till	351.07		350.08	349.86	349.84	349.74	349.74	349.72	349.67	349.57	349.57	349.57
2/13	Bedrock	350.85		350.06	350.12	350.15	350.08	350.18	350.16	350.07	350.07	350.06	350.07
3/8	Till	351.51		350.44	350.38	350.31	350.22	350.26	350.25	350.13	350.09	350.08	350.09
4/6	Till	351.48		350.36	350.85	350.58	350.52	350.54	350.52	N/A	N/A	N/A	NA
5/17	Till / Bedrock	370.13	361.75	355.57	353.28	356.27	353.65	356.05	353.58	354.68	352.43	352.73	352.43
6/5	Till	351.09		349.90	349.87	349.84	349.74	349.84	349.80	349.48	349.62	349.30	349.62
11/4	Till	366.45	366.45		362.61	363.45	362.22	363.57	362.53	362.58	361.24	361.59	361.24
13/6	Till	355.02			349.77	350.62	349.48	350.57	349.63	349.62	348.73	349.33	348.73
13/14	??	354.72			350.02	350.77	350.22	350.76	350.26	349.63	348.96	349.28	348.96
14/6	Till	348.91			347.50	348.08	347.41	347.91	347.61	346.98	346.11	346.46	346.11
14/21	??	348.68			346.55	347.03	346.43	347.86	347.56	346.00	345.16	345.49	345.16
15/5	Till	352.17			351.07	350.97	350.71	350.88	350.73	350.56	350.62	350.53	350.62
15/17	??	352.08			350.95	350.92	350.73	350.90	350.75	350.66	350.53	350.59	350.53
16/15	??	362.25	362.25		350.46	351.41	350.62	356.58	350.70	350.93	349.71	350.41	349.71
17/15	??	359.99			350.62	351.64	350.59	351.84	350.83	351.05	350.04	350.29	350.04
19/6	Till	364.15	364.15		Dry	Dry	dry	357.56	dry	dry	dry	dry	350.31
23/3	Peat	351.19			350.44	350.63	349.79	350.48	350.57	350.50	350.46	350.45	350.46
24/5	Till	352.01			341.74	351.04	350.61	351.01	351.01	350.79	350.69	350.84	350.69
KGS-2	??	351.38		350.37	351.38	no access	348.45	349.08	349.97	348.95	348.74	348.83	348.74

		Surface	Trigger	Background				Ground	Water Ele	vations			
		Elevation	Elevation										
Monitor	Target Zone	(masl)	(masl)	Fenco (10/96)	26-Aug-13	20-May-14	19-Aug-14	19-May-15	25-Aug-15	10-May-16	30-Aug-16	15-May-17	29-Aug-17
1/17	Till	351.44		350.87	349.22	348.00	348.19	347.66	347.76			350.27	348.49
2/9	Till	351.07		350.08	349.57	349.77	349.60	349.58	349.57	inacce	essible	349.67	349.65
2/13	Bedrock	350.85		350.06	350.06	350.34	350.17	350.17	350.16			350.30	350.25
3/8	Till	351.51		350.44	350.08	350.45	350.19	350.22	350.16	350.30	350.23	350.28	350.26
4/6	Till	351.48		350.36	350.08	349.90	348.94	348.98	348.98	349.43	349.41	349.37	349.34
5/17	Till / Bedrock	370.13	361.75	355.57	352.73	352.44	355.79	352.83	353.07	355.06	358.76	354.91	355.94
6/5	Till	351.09		349.90	349.30	349.93	349.67	349.75	349.54	349.86	350.08	349.89	349.81
11/4	Till	366.45	366.45		361.59	361.95	362.93	dry	361.75	363.38	363.50	362.90	362.87
13/6	Till	355.02			349.33	349.57	350.07	348.58	349.34	350.03	349.96	349.82	349.82
13/14	??	354.72			349.28	349.88	350.11	348.93	349.61	350.11	349.97	349.89	349.79
14/6	Till	348.91			346.46	346.99	347.12	345.94	346.76	347.87	347.75	347.88	347.38
14/21	??	348.68			345.49	346.10	346.07	345.04	345.73	346.80	346.73	346.84	346.38
15/5	Till	352.17			350.53	351.34	350.68	350.59	350.59	350.91	350.68	350.78	350.72
15/17	??	352.08			350.59	351.11	349.75	350.69	350.69	350.08	350.77	350.89	350.84
16/15	??	362.25	362.25		350.41	350.35	350.95	350.27	350.42	351.05	353.17	351.24	351.49
17/15	??	359.99			350.29	350.47	351.52	350.17	350.17	350.91	352.62	351.14	351.35
19/6	Till	364.15	364.15		350.75	350.57	351.84	350.52	350.73	351.55	353.88	351.95	352.24
23/3	Peat	351.19			350.45	350.14	349.28	349.06	349.23	349.68	349.95	349.74	349.77
24/5	Till	352.01			350.84	350.40	349.65	349.41	349.66	350.11	350.23	349.99	350.07
KGS-2	??	351.38		350.37	348.83	347.91	347.56	347.38	347.44	347.77	348.00	348.78	347.79

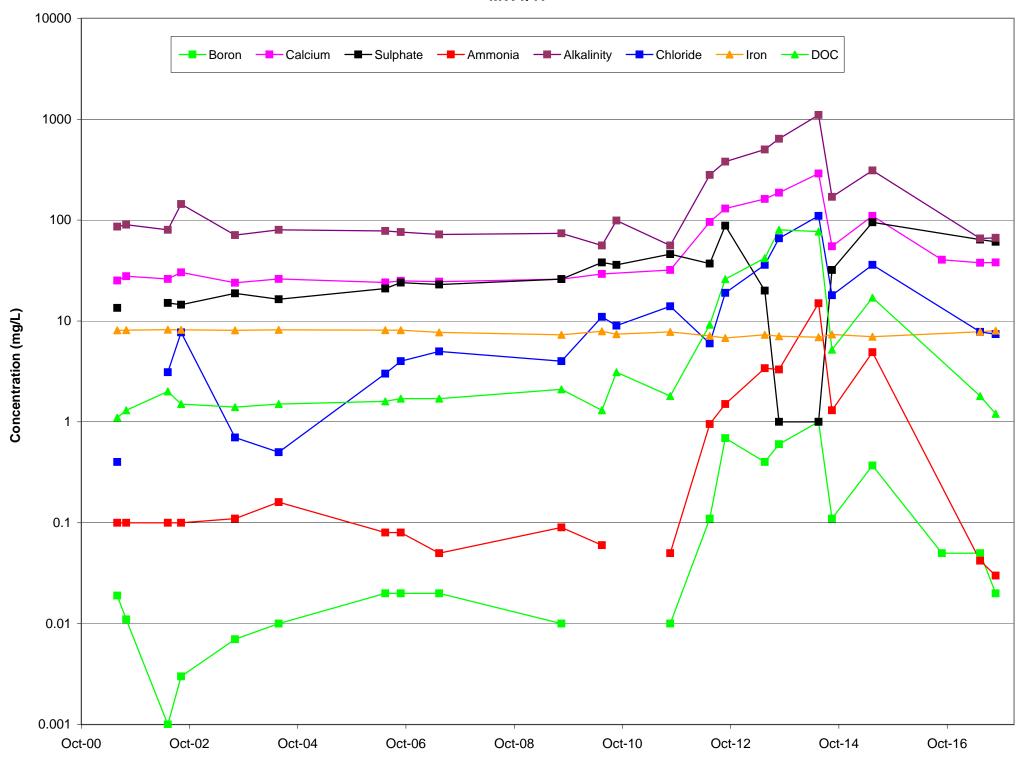
		Surface Elevation	Trigger Elevation	Background	Maximum	Minimum (masl)	Fluctuation
Monitor	Target Zone	(masl)	(masl)	Fenco (10/96)	(masl)	(Illasi)	(m)
1/17	Till	351.44		350.87	351.44	347.66	3.78
2/9	Till	351.07		350.08	350.62	349.57	1.05
2/13	Bedrock	350.85		350.06	350.35	349.93	0.42
3/8	Till	351.51		350.44	350.51	349.80	0.71
4/6	Till	351.48		350.36	350.85	348.94	1.91
5/17	Till / Bedrock	370.13	361.75	355.57	358.76	352.43	6.33
6/5	Till	351.09		349.90	350.08	349.02	1.06
11/4	Till	366.45	366.45		363.85	361.24	2.61
13/6	Till	355.02			350.62	348.56	2.06
13/14	??	354.72			351.22	348.39	2.83
14/6	Till	348.91			348.19	345.05	3.14
14/21	??	348.68			347.86	344.20	3.66
15/5	Till	352.17			351.42	349.45	1.97
15/17	??	352.08			359.53	349.75	9.78
16/15	??	362.25	362.25		356.58	349.60	6.98
17/15	??	359.99			352.62	349.72	2.90
19/6	Till	364.15	364.15		364.15	350.31	13.84
23/3	Peat	351.19			351.00	349.06	1.94
24/5	Till	352.01			351.04	341.74	9.30
KGS-2	??	351.38		350.37	351.38	347.38	4.00

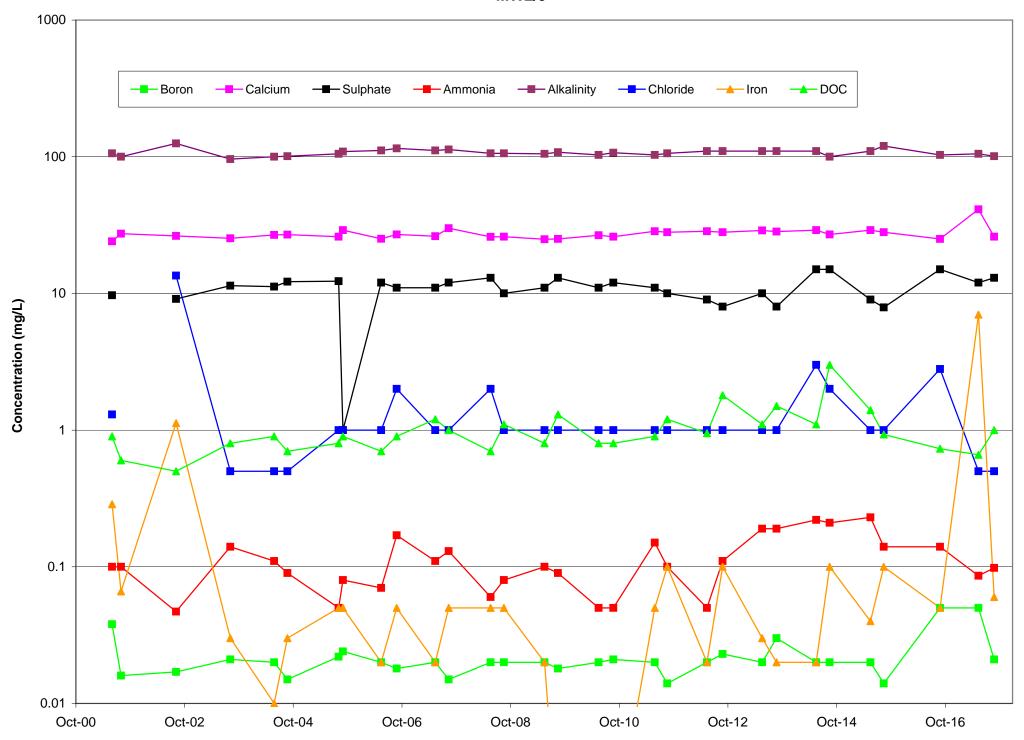


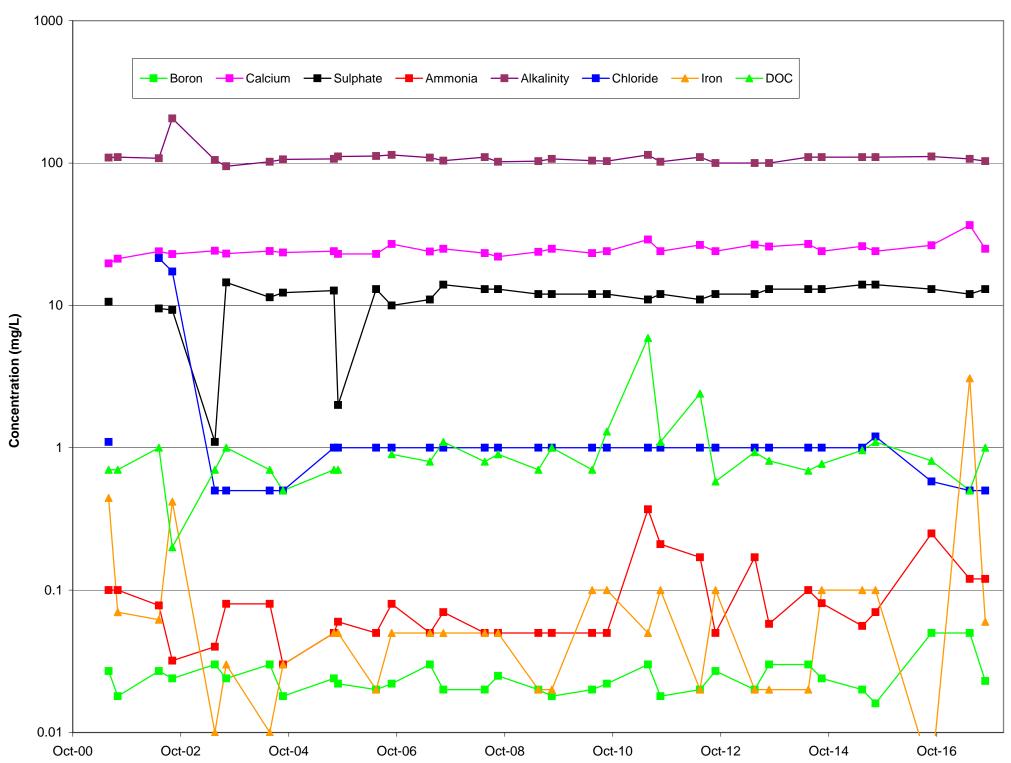
## APPENDIX F

**Ground Water Chemistry Over Time** 

MW1/17







Oct-08

Oct-06

Oct-10

Oct-12

Oct-14

Oct-16

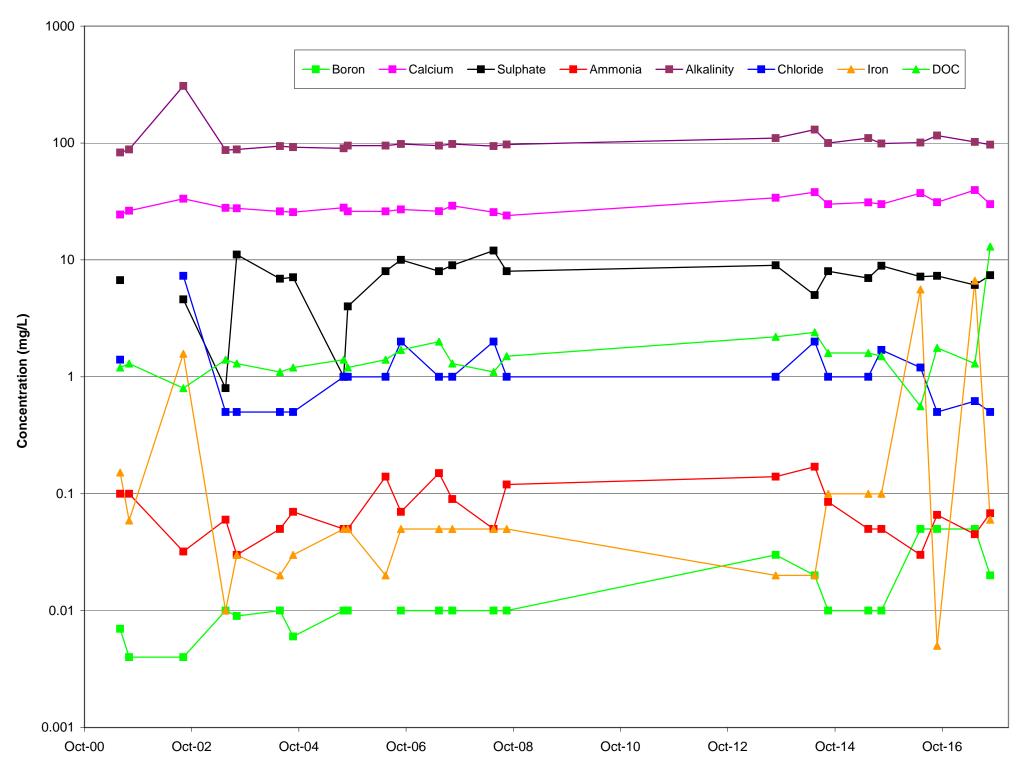
Concentration (mg/L)

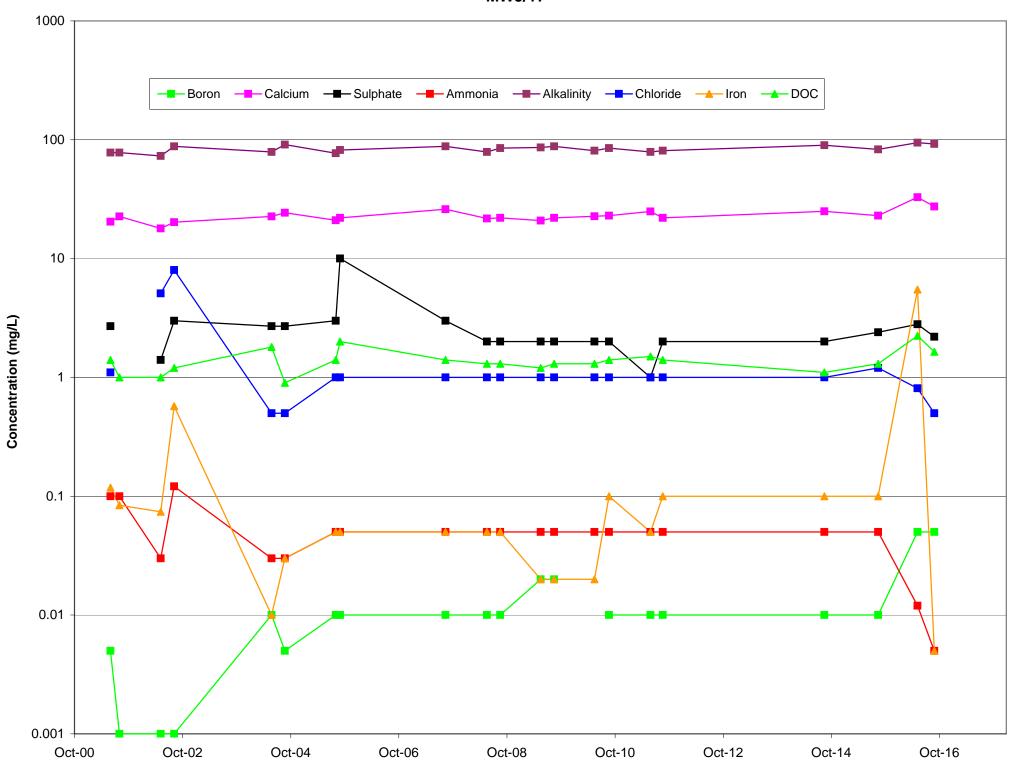
0.001

Oct-00

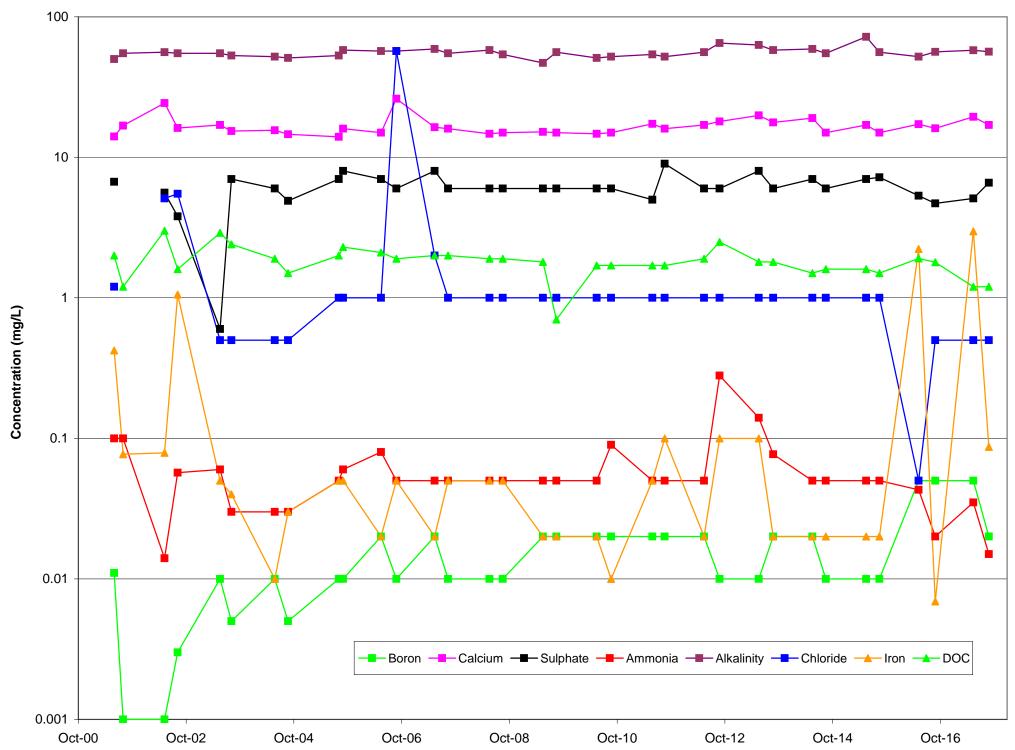
Oct-02

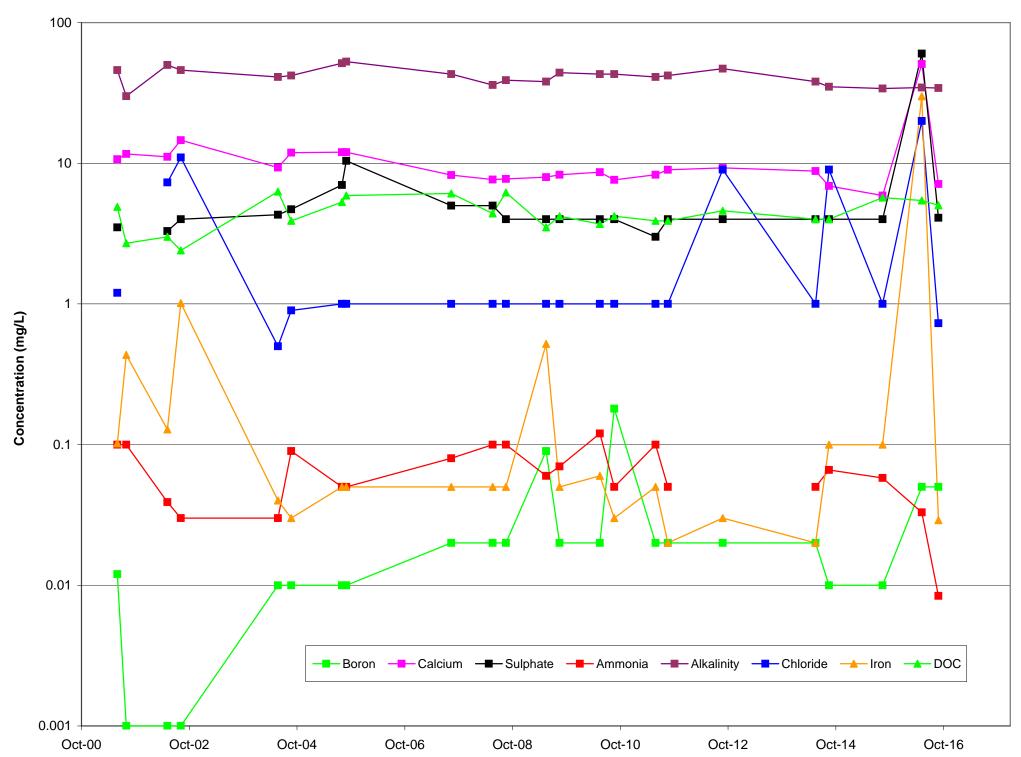
Oct-04

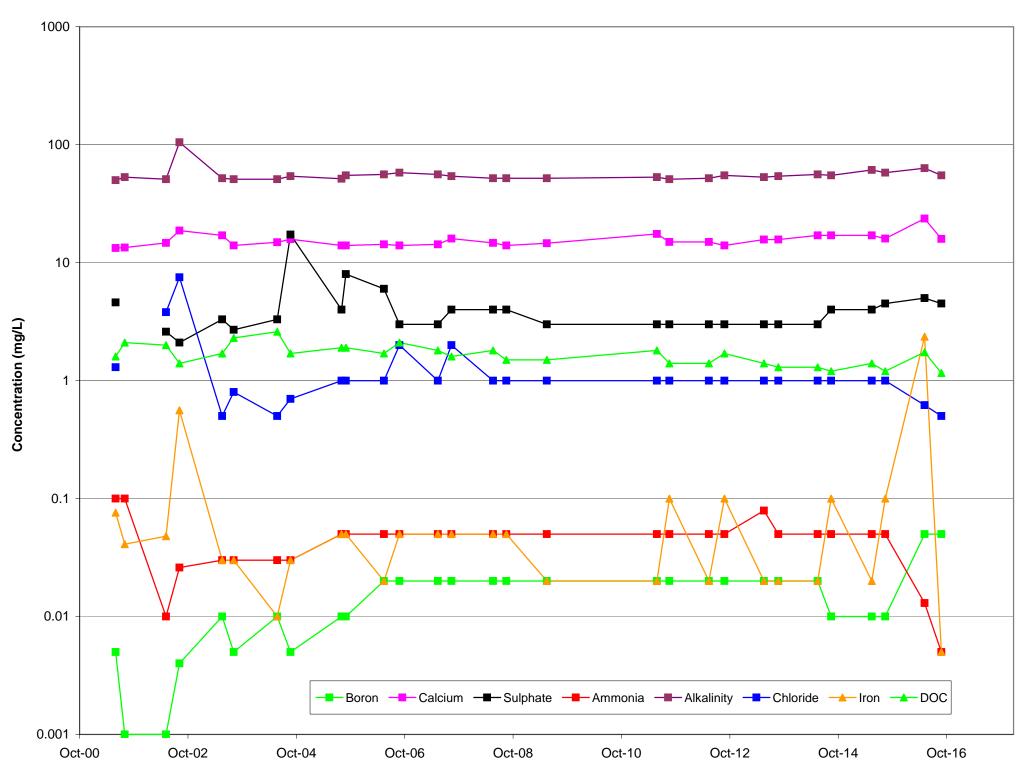


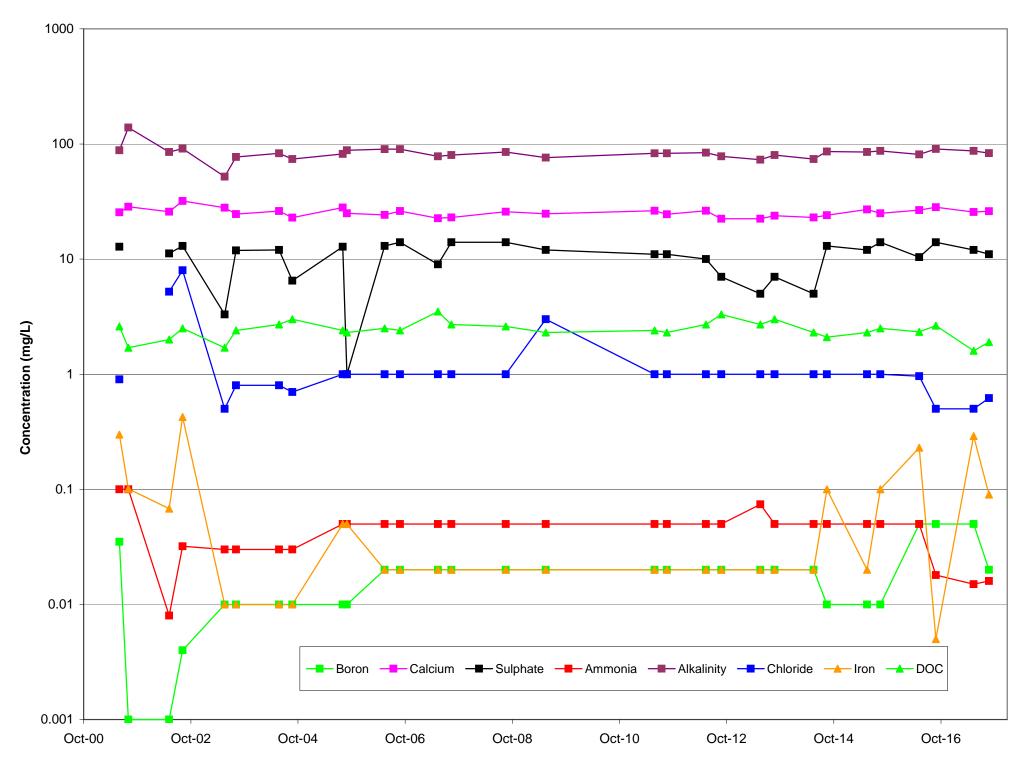


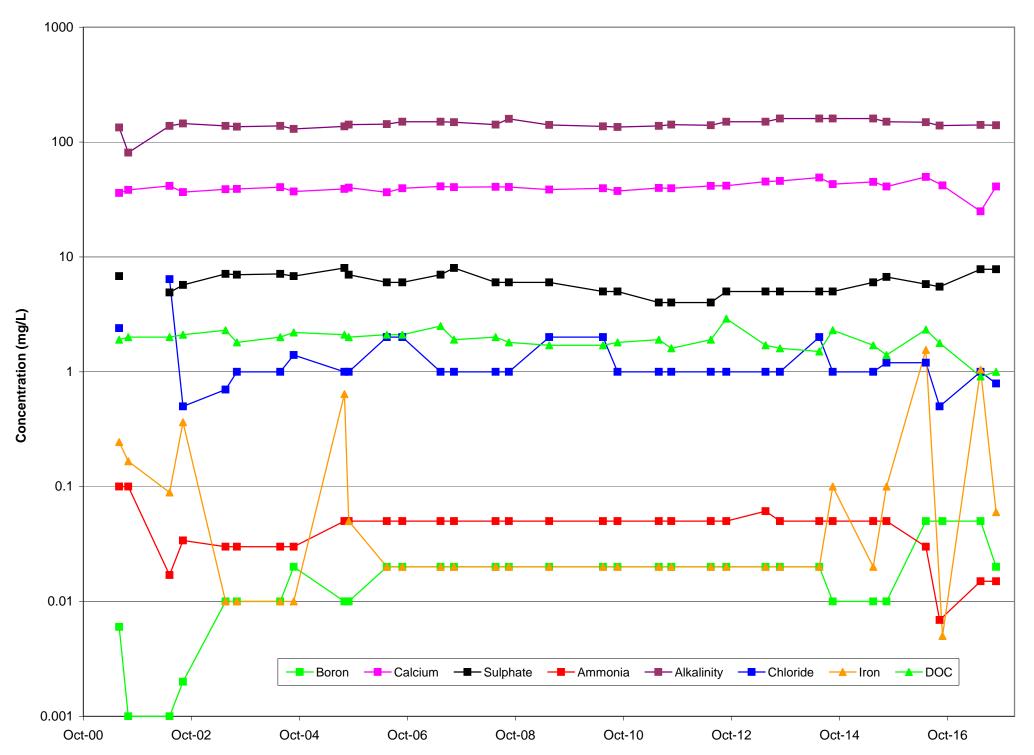


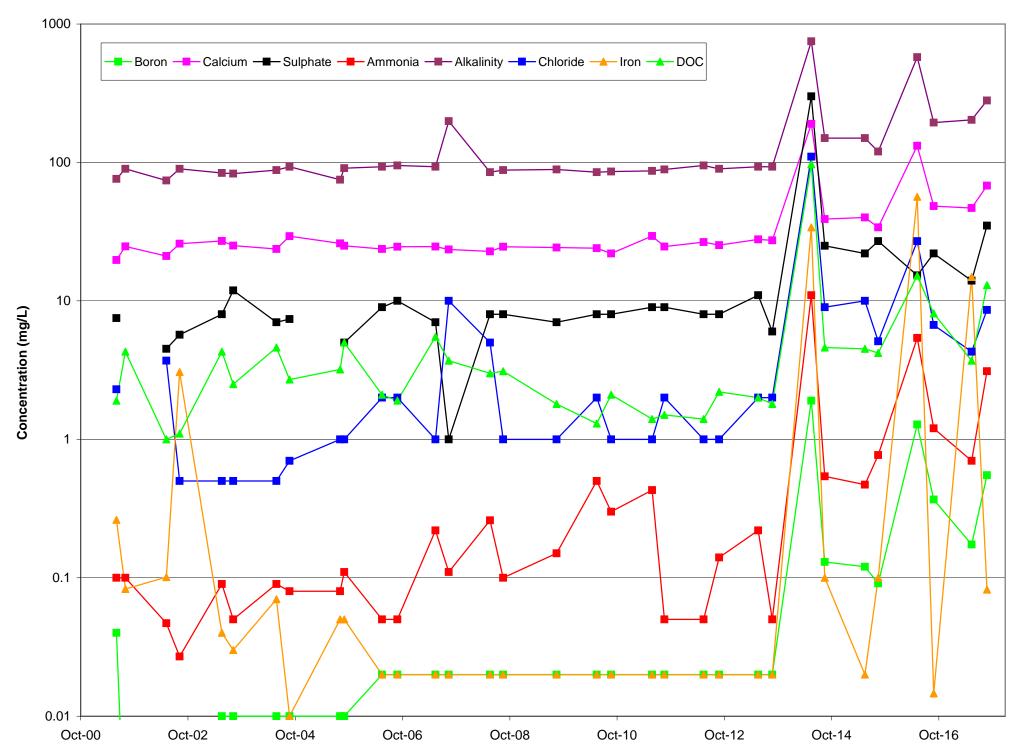


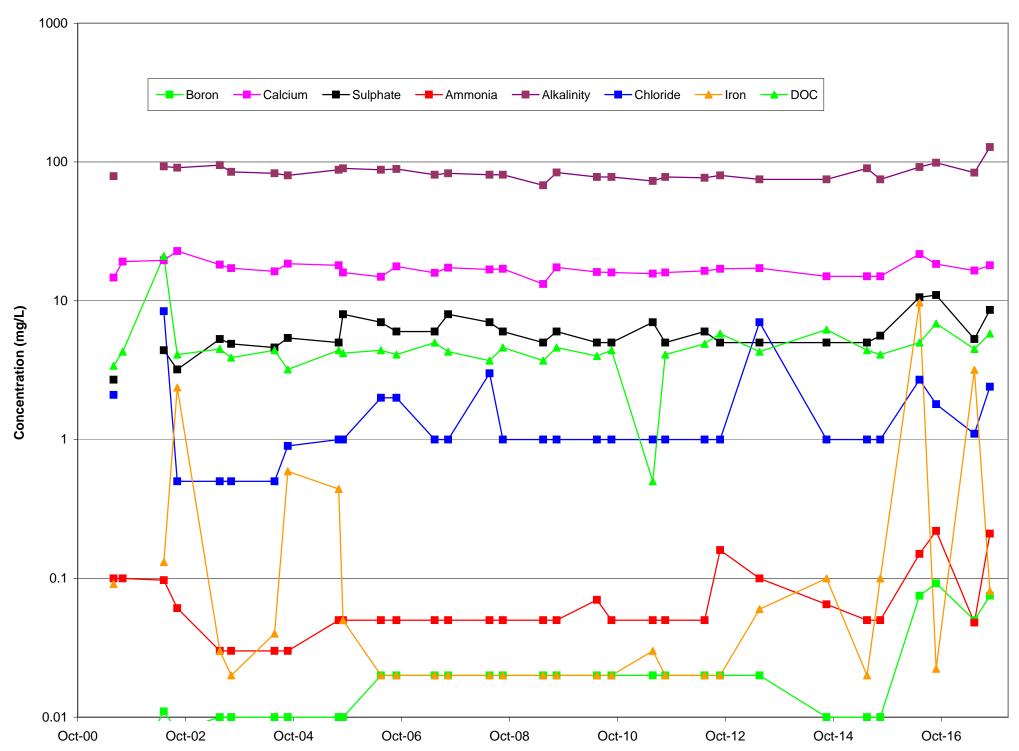


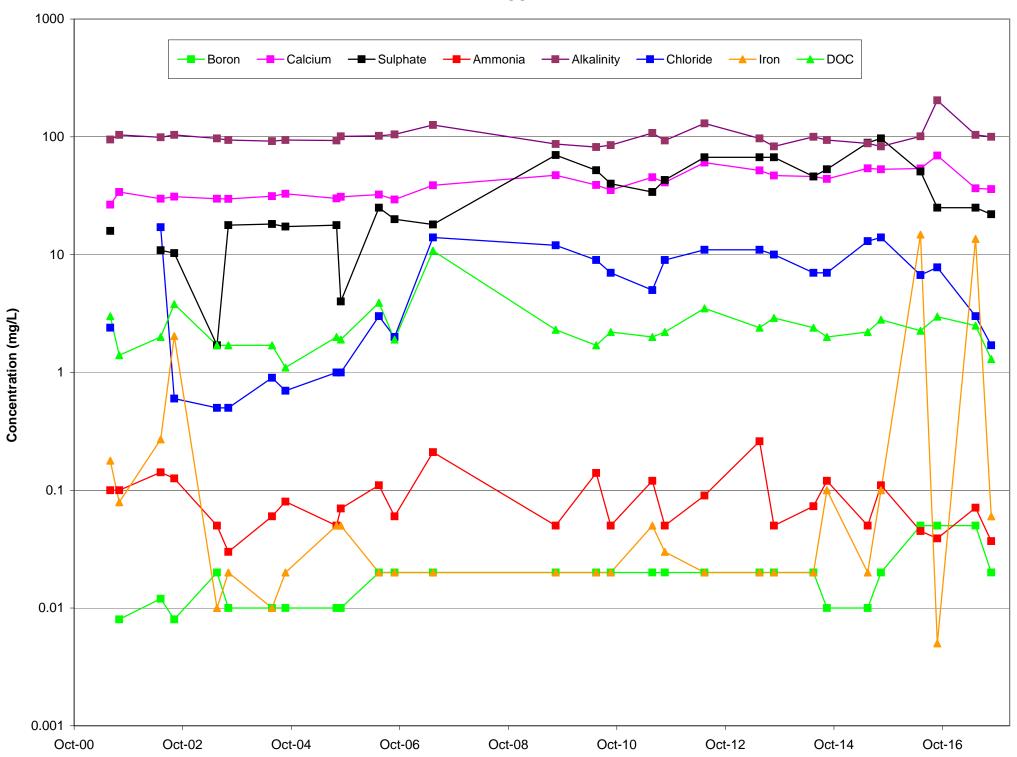














## APPENDIX G

**Detected Volatile Organic Compounds** 

# **Summary Table of Detected Volatile Organic Compounds**

Monitor	Date	<b>Toluene (mg/L)</b> 0.024 (ODWQS, 2006)	1,4 dichloro-benzene (mg/L) 0.001 (ODWQS, 2006)
4/18	August, 2001	-	0.001
1/17	August, 2002	0.001	-
2/9	August, 2002	0.0006	-
3/8	August, 2002	0.0026	-
4/6	August, 2002	0.0013	-
4/18	August, 2002	0.003	-
5/17	August, 2002	0.0005	-
6/5	August, 2002	0.0021	-
20/4	August, 2004	0.0002	-
4/6-II	August, 2008	0.0004	-
SW-2	August, 2010	0.001	-

All results for all other required sampling parameters were below laboratory detection limits.

In 2006, VOC samples were collected at monitors: 1/17, 2/9, 2/13, 3/8, 4/6, 4/18, 6/14, 7/4,16/15, 20/4, 21/7 and SW-2

In 2007, VOC samples were collected at monitors: 2/9, 2/13, 3/8, 4/6, 4/18, 5/17, 6/5, 6/5 II, 6/14, 7/4, 16/15, 20/4, 21/7 and SW-2 In 2008, VOC samples were collected at monitors: 2/9, 2/13, 3/8, 4/6, 4/6-II, 4/18, 5/17, 6/5, 6/14, 7/4, 16/15, 20/4, 21/7 and SW-2

In 2009, VOC samples were collected at monitors: 1/17, 2/9, 2/13, 3/8, 5/17, 6/5, 6/14, 7/4, 20/4, 21/7 and SW-2

In 2010, VOC samples were collected at monitors: 2/9, 2/13, 3/8, 5/17, 6/5, 6/14, 7/4 and SW-2

In 2011, VOC samples were collected at monitors: 2/9, 2/13, 3/8, 5/17, 6/5, 6/14, 7/4, 16/15, 21/7 and SW-2 In 2012, VOC samples were collected at monitors: 2/9, 2/13, 3/8, 5/17, 6/5, 6/14, 7/4, 16/15, 21/7 and SW-2

In 2013, VOC samples were collected at monitors: 2/9 and SW-2 In 2014, VOC samples were collected at monitors: 2/9 and SW-2

In 2015, VOC samples not collected



# APPENDIX H

**Surface Water Quality Data** 

Parame PWQO -			_			_									
PWQO -	eter -	As	В	Ba	Cd	Cr	Cu	Fe	Hg	TDS	TKN	Total P	BOD	TSS	CI-
		0.1	0.2		0.0001	0.1	0.005	0.3	0.0002			0.03			
Action**	QA/QC		0.8												158
Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
8/3/2005		0.002	0.065	0.029	< 0.0001	< 0.005	0.004	3.20	mg/L	mg/L	2.40	0.228	< 2	110	17
									0.0004	004					
9/2/2005		0.0012	0.058	0.03	< 0.0001	< 0.005	0.0015	11	< 0.0001	304	1.70	0.114	5.0	26	10
10/21/2005		< 0.001	0.090	0.034	< 0.0001	< 0.005	< 0.001	2.30	< 0.0001	258	1.30	0.055	< 2	14	8
5/16/2006								0.35		98	1.40	0.009	< 2	< 1	21
8/29/2006		< 0.001	0.060	0.039	< 0.0001	< 0.005	0.002	17	< 0.0001	216	1.90	0.130	10.0	75	30
5/15/2007								0.43		183	2.00	0.043	<2	<1	21
		0.0	0.470	0.070	0.005	0.04	0.00		0.0004						
8/15/2007		<0.2	0.170	0.070	<0.005	<0.01	<0.02	4.7	<0.0001	418	3.00	0.320	5.0	7	14
10/18/2007		<0.2	0.080	0.050	< 0.005	< 0.01	< 0.02	1.7	< 0.0001	246	3.00	0.120	3.0	5	10
5/21/2008								0.67			1.30	0.052	< 2	< 1	<1
8/20/2008		<0.2	0.230	0.050	< 0.005	< 0.01	< 0.02	1.8	< 0.0001	270	3.30	0.530	6.0	14	17
10/24/2008		<0.2	0.130	0.030	<0.005	<0.01	<0.02	1.5	<0.0001	420	2.50	0.210	3.0	6	12
		<0.Z	0.130	0.030	<b>VU.UU</b> 3	<b>VU.U1</b>	₹0.02		<0.0001	420					
5/19/2009								0.29			1.30	0.096	2.0	< 1	<1
8/18/2009		<0.2	0.120	0.050	< 0.005	<0.01	< 0.02	1.6	< 0.0001	266	2.40	0.740	5.0	10	20
10/22/2009		< 0.2	0.160	0.040	< 0.005	< 0.01	< 0.02	1.2	< 0.0001	335	1.90	0.130	< 2	5	19
5/18/2010								0.32			1.90	0.092	5.0	3	
10/21/2010		<0.2	0.130	0.040	<0.005	<0.01	<0.02	0.38	<0.0001	506	1.50	0.210	<2	1	19
		<0.Z	0.130	0.040	<b>VU.UU</b> 3	<b>VU.U1</b>	₹0.02		<0.0001	300					
5/31/2011								0.39			1.50	0.210	<2	4	27
6/9/2011		< 0.2	0.040	0.040	< 0.005	< 0.01	< 0.02	8.2	< 0.0001	213	1.40	0.061	5.0	9	14
8/24/2011		< 0.2	0.330	0.040	< 0.005	< 0.01	< 0.02	0.51	< 0.0001	470	2.00	0.400	<2	3	24
10/25/2011		<0.2	0.130	0.030	< 0.005	< 0.01	< 0.02	0.88	< 0.0001	344	2.00	0.200	<2	2	26
5/18/2012		10.2	000	0.000	10.000	40.01	10.02	0.29	10.0001	011	1.80	0.150	<2	3	61
				0.070	0.005	0.04	0.00		0.0004	750					
8/30/2012		<0.2	0.250	0.070	< 0.005	<0.01	<0.02	2.5	<0.0001	752	3.40	0.810	4.0	54	62
10/23/2012		<0.2	0.230	0.040	< 0.005	<0.01	<0.02	0.26	<0.0001	696	1.80	0.370	<2	2	31
5/24/2013	· · · · ·					1		0.24	·		2.80	0.004	<2	2	68
8/29/2013		<0.2	0.470	0.470	< 0.005	<0.01	<0.02	7.3	<0.0001	780	4.70	0.830		56	60
10/17/2013		<0.2	0.390	0.070	<0.005	<0.01	<0.02	1.9	<0.0001	680	2.10	0.370	2.0	7	29
		<b>~∪.∠</b>	0.030	0.070	\U.UUJ	\U.U1	\U.UZ		\0.0001	000					
5/23/2014								0.4			2.40	0.150	<2	5	90
8/21/2014		<0.2	<u>0.810</u>	0.150	<0.005	<0.01	< 0.02	6.8	<0.0001	1230	4.40	0.940	11.0	55	71
10/9/2014		<0.2	0.610	0.075	< 0.005	<0.01	< 0.02	1.9	< 0.0001	788	2.30	0.290	<2	3	39
5/21/2015								0.5			1.60	0.170	<2	5	43
8/25/2015		<0.2	0.750	0.027	<0.005	<0.01	<0.02	0.57	<0.0001	762	1.60	0.600	<2	<1	100
10/20/2015		<0.2	0.820	0.053	< 0.005	<0.01	<0.02	0.33	<0.001	1040	1.80	0.260	2.0	3	47
5/10/2016								0.48			4.15	0.161		19.3	60
9/8/2016		0.002	0.995	0.036	< 0.00001	0.0002	0.001	0.46	< 0.00001	676	2.58	0.480	<6	<4.0	44
11/1/2016		0.001	0.730	0.031	<0.00001	0.001	0.0004	0.246	<0.00001	414	1.58	0.171	<6	<4.0	48
11/18/2016		0.001	0.836	0.051	<b>VO.00001</b>	0.001	0.0004	0.240	<0.00001	717	1.50	0.171	<b>~</b> 0	V4.0	48
	5 " .														
11/18/2016	Duplicate		0.828												34
5/17/2017			0.860					0.46			1.60	0.170	<3	<4	35
5/17/2017	Duplicate		0.882												50
8/29/2017		0.001	0.990	0.038	<0.00002	< 0.001	0.0002	0.47	0.0000035	602	2.00	0.043	NA	6	42
															72
10/24/2017		0.001	0.820	0.030	<0.00002	<0.001	<0.0002	0.31	<0.000002	522	1.40	0.120	<3	<4.0	
										Unionized					
Parame	eter -	Pb	Zn	NO2-N	NO3-N	SO4	pН	alk42	NH3-N	NH3-N	Cond.	Phenois	Field pH	Field T	Field Cond
PWQO -		0.003	0.02				6.5 - 8.5	*		0.02		0.001			
Action**										0.8					
Units -		mg/L	mg/L	mg/L	mg/L	mg/L	2/0	ma/l	ma/l	mg/L	ma/l	ma/l			
Units -							n/a	mg/L	mg/L		mg/L	mg/L			
8/3/2005		0.0022	0.036	< 0.3	< 0.2	11.1	7.58	75	0.09	0.00114	175	0.002	4.50	17.8	170
8/3/2005 9/2/2005							7.58 7.49	75 133	0.09 0.26	0.00114 0.00197	175 294	0.002 < 0.001	4.50 6.00	17.8 13.7	170 270
9/2/2005		0.0022 < 0.0005	0.036 0.072	< 0.3 < 0.3	< 0.2 1.6	11.1 10.4	7.49	133	0.26	0.00197	294	< 0.001		13.7	
9/2/2005 10/21/2005		0.0022	0.036	< 0.3 < 0.3 < 0.01	< 0.2 1.6 < 0.1	11.1 10.4 11.0	7.49 7.78	133 115	0.26 0.08	0.00197 0.00079	294 230	< 0.001 < 0.001	6.00 3.70	13.7 8.5	270
9/2/2005 10/21/2005 5/16/2006		0.0022 < 0.0005 < 0.0005	0.036 0.072 0.092	< 0.3 < 0.3 < 0.01 < 0.01	< 0.2 1.6 < 0.1 < 0.1	11.1 10.4 11.0 14.0	7.49 7.78 7.70	133 115 85	0.26 0.08 < 0.05	0.00197 0.00079 <0.0005	294 230 221	< 0.001 < 0.001 < 0.001	6.00 3.70 7.30	13.7 8.5 17.2	270
9/2/2005 10/21/2005 5/16/2006 8/29/2006		0.0022 < 0.0005 < 0.0005	0.036 0.072 0.092 0.100	< 0.3 < 0.3 < 0.01 < 0.01 < 0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0	7.49 7.78 7.70 7.10	133 115 85 117	0.26 0.08 < 0.05 0.14	0.00197 0.00079 <0.0005 0.00057	294 230 221 291	< 0.001 < 0.001 < 0.001 0.001	6.00 3.70 7.30 6.71	13.7 8.5 17.2 17.4	270
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006		0.0022 < 0.0005 < 0.0005	0.036 0.072 0.092	< 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0	7.49 7.78 7.70 7.10 7.60	133 115 85 117 113	0.26 0.08 < 0.05 0.14 0.46	0.00197 0.00079 <0.0005 0.00057 0.00310	294 230 221 291 353	< 0.001 < 0.001 < 0.001 0.001 0.001	6.00 3.70 7.30 6.71 6.24	13.7 8.5 17.2 17.4 8.9	270
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007		0.0022 < 0.0005 < 0.0005	0.036 0.072 0.092 0.100	< 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 0.020	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.7	11.1 10.4 11.0 14.0 1.0 30.0 105.0	7.49 7.78 7.70 7.10 7.60 7.40	133 115 85 117 113 66	0.26 0.08 < 0.05 0.14 0.46 0.05	0.00197 0.00079 <0.0005 0.00057 0.00310 0.00034	294 230 221 291 353 417	< 0.001 < 0.001 < 0.001 0.001 0.001 < 0.001	6.00 3.70 7.30 6.71	13.7 8.5 17.2 17.4 8.9 14.8	270 20
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.02	0.036 0.072 0.092 0.100	< 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 0.020	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.7	11.1 10.4 11.0 14.0 1.0 30.0 105.0	7.49 7.78 7.70 7.10 7.60 7.40	133 115 85 117 113 66	0.26 0.08 < 0.05 0.14 0.46 0.05	0.00197 0.00079 <0.0005 0.00057 0.00310 0.00034	294 230 221 291 353 417	< 0.001 < 0.001 < 0.001 0.001 0.001 < 0.001	6.00 3.70 7.30 6.71 6.24 6.93	13.7 8.5 17.2 17.4 8.9 14.8	270 20
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007		0.0022 < 0.0005 < 0.0005	0.036 0.072 0.092 0.100 0.250	< 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 0.020 < 0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0	7.49 7.78 7.70 7.10 7.60	133 115 85 117 113	0.26 0.08 < 0.05 0.14 0.46	0.00197 0.00079 <0.0005 0.00057 0.00310	294 230 221 291 353	< 0.001 < 0.001 < 0.001 0.001 0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6	13.7 8.5 17.2 17.4 8.9	270
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.02	0.036 0.072 0.092 0.100 0.250	< 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 0.020 < 0.01 < 0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 0.7 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 33.0	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90	133 115 85 117 113 66 306 181	0.26 0.08 < 0.05 0.14 0.46 0.05 0.58 0.09	0.00197 0.00079 <0.0005 0.00057 0.00310 0.00034 0.01745 0.00141	294 230 221 291 353 417 624 458	<0.001 <0.001 <0.001 0.001 0.001 <0.001 <0.001 0.005 0.004	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21	13.7 8.5 17.2 17.4 8.9 14.8 16.7	270 20
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.02 <0.05 <0.05	0.036 0.072 0.092 0.100 0.250 0.200 0.010	< 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 0.020 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 0.7 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 33.0 52.0	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80	133 115 85 117 113 66 306 181	0.26 0.08 < 0.05 0.14 0.46 0.05 0.58 0.09 < 0.05	0.00197 0.00079 <0.0005 0.00057 0.00310 0.00034 0.01745 0.00141 <0.0005	294 230 221 291 353 417 624 458 370	< 0.001 < 0.001 < 0.001 0.001 0.001 0.001 0.005 0.004	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11	270 20
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.02 <0.05 <0.05 <0.05	0.036 0.072 0.092 0.100 0.250 0.200 0.010	< 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.020 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1  < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 33.0 52.0 23.0	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.00	133 115 85 117 113 66 306 181 121	0.26 0.08 < 0.05 0.14 0.46 0.05 0.58 0.09 < 0.05 0.23	0.00197 0.00079 <0.0005 0.00057 0.00310 0.00034 0.01745 0.00141 <0.0005	294 230 221 291 353 417 624 458 370 402	< 0.001 < 0.001 < 0.001 0.001 0.001 0.001 <0.001 0.005 0.004 0.001 <0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4	270 20 687
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.02 <0.05 <0.05	0.036 0.072 0.092 0.100 0.250 0.200 0.010	< 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 0.020 < 0.01 < 0.01 < 0.01 < 0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 0.7 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 33.0 52.0 23.0 < 2	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.00 8.20	133 115 85 117 113 66 306 181 121 181 280	0.26 0.08 < 0.05 0.14 0.46 0.05 0.58 0.09 < 0.05 0.23 0.05	0.00197 0.00079 <0.0005 0.00057 0.00310 0.0034 0.01745 0.00141 <0.0005 0.00901 0.00126	294 230 221 291 353 417 624 458 370 402 656	< 0.001 < 0.001 < 0.001 0.001 0.001 0.001 0.005 0.004 0.001 <0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4	270 20 687
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.02 <0.05 <0.05 <0.05	0.036 0.072 0.092 0.100 0.250 0.200 0.010 <0.005	< 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.020 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1  < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 33.0 52.0 23.0	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.00	133 115 85 117 113 66 306 181 121	0.26 0.08 < 0.05 0.14 0.46 0.05 0.58 0.09 < 0.05 0.23	0.00197 0.00079 <0.0005 0.00057 0.00310 0.00034 0.01745 0.00141 <0.0005 0.00901 0.00126 <0.0005	294 230 221 291 353 417 624 458 370 402	< 0.001 < 0.001 < 0.001 0.001 0.001 0.001 <0.001 0.005 0.004 0.001 <0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4	270 20 687
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.02 <0.05 <0.05 <0.05	0.036 0.072 0.092 0.100 0.250 0.200 0.010	< 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 0.020 < 0.01 < 0.01 < 0.01 < 0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 0.7 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 33.0 52.0 23.0 < 2	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.00 8.20	133 115 85 117 113 66 306 181 121 181 280	0.26 0.08 < 0.05 0.14 0.46 0.05 0.58 0.09 < 0.05 0.23 0.05	0.00197 0.00079 <0.0005 0.00057 0.00310 0.0034 0.01745 0.00141 <0.0005 0.00901 0.00126	294 230 221 291 353 417 624 458 370 402 656	< 0.001 < 0.001 < 0.001 0.001 0.001 0.001 0.005 0.004 0.001 <0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4	270 20 687
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2009		0.0022 < 0.0005 < 0.0005 < 0.002 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.036 0.072 0.092 0.100 0.250 0.200 0.010 <0.005 <0.005	< 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 0.020 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 0.7 <0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 52.0 23.0 < 2 48.0 < 2	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.00 8.20 7.00 7.40	133 115 85 117 113 66 306 181 121 181 280 99	0.26 0.08 < 0.05 0.14 0.46 0.05 0.58 0.09 < 0.05 0.23 0.05 < 0.05 < 0.05	0.00197 0.00079 <0.0005 0.00057 0.000310 0.00034 0.01745 0.00141 <0.0005 0.00901 0.00126 <0.0005 0.00133	294 230 221 291 353 417 624 458 370 402 656 322 438	< 0.001 < 0.001 < 0.001 0.001 0.001 0.001 0.001 0.005 0.004 0.001 <0.001 <0.001 0.005 0.004 0.001 0.005	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 n/a 16.9	270 20 687 309 326 480
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 10/22/2009		0.0022 < 0.0005 < 0.0005 < 0.002 < 0.05 < 0.05 < 0.05 < 0.05	0.036 0.072 0.092 0.100 0.250 0.200 0.010 <0.005	<0.3 <0.0 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 0.7 <0.1 <0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 33.0 52.0 23.0 < 2 48.0 < 2 74.0	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.00 8.00 7.90 7.80 8.00 7.90 7.40	133 115 85 117 113 66 306 181 121 181 280 99 188 147	0.26 0.08 < 0.05 0.14 0.46 0.05 0.58 0.09 < 0.05 0.23 0.05 < 0.05 0.17 0.09	0.00197 0.00079 -0.0005 0.00057 0.000310 0.00034 0.01745 0.00141 -0.0005 0.00901 0.00126 -0.0005 0.000133	294 230 221 291 353 417 624 458 370 402 656 322 438 514	< 0.001 < 0.001 < 0.001 < 0.001 0.001 0.001 0.001 0.005 0.004 0.001 <0.001 <0.001 0.005 <0.001 <0.001 <0.001 <0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 n/a 16.9 7.4	270 20 687 309 326 480 498
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 10/22/2009 5/18/2010		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.036 0.072 0.092 0.100 0.250 0.010 <0.005 <0.005 0.020 0.030	<0.3 <0.3 <0.01 <0.01 <0.01 <0.01 <0.020 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 52.0 23.0 < 2 48.0 < 2 74.0	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.00 8.20 7.00 7.40 7.50 8.10	133 115 85 117 113 66 306 181 121 181 280 99 188 147	0.26 0.08 < 0.05 0.14 0.46 0.05 0.58 0.09 < 0.05 0.23 0.05 < 0.05 0.17 0.09	0.00197 0.00079 -0.00057 0.00057 0.000310 0.00141 -0.0005 0.00901 0.00126 -0.0005 0.00133 0.00043	294 230 221 291 353 417 624 458 370 402 656 322 438 514	< 0.001 < 0.001 < 0.001 0.001 0.001 0.001 0.005 0.004 0.001 <0.001 <0.001 0.005 0.004 0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 n/a 16.9 7.4 20.2	270 20 687 309 326 480 498 430
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 10/18/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 10/22/2009 10/22/2009 5/18/2010		0.0022 < 0.0005 < 0.0005 < 0.002 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.036 0.072 0.092 0.100 0.250 0.200 0.010 <0.005 <0.005	<0.3 <0.03 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 52.0 23.0 < 2 48.0 < 2 74.0 35.0 85.0	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.00 8.20 7.00 7.40 7.50 8.10 8.01	133 115 85 117 113 66 306 181 121 181 280 99 188 147 159 254	0.26 0.08 < 0.05 0.14 0.46 0.05 0.58 0.09 < 0.05 0.23 0.05 < 0.05 < 0.05 0.17 0.09 0.16 < 0.05	0.00197 0.00079 -0.0005 0.00057 0.00310 0.0034 0.01745 0.00141 -0.0005 0.00901 0.00126 -0.0005 0.00133 0.00043 0.000771 -0.0005	294 230 221 291 353 417 624 458 370 402 656 322 438 514 455 779	<.0.001 <.0.001 <.0.001 0.001 0.001 0.001 0.005 0.004 0.001 <0.001 0.001 0.005 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 n/a 16.9 7.4 20.2 5.1	270 20 687 309 326 480 498 430 784
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2009 10/22/2009 5/18/2010 5/31/2011		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.02 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.036 0.072 0.092 0.100 0.250 0.010 <0.005 <0.005 0.020 0.030	<0.3 <0.3 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 52.0 23.0 23.0 248.0 274.0 35.0 85.0 54.0	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.00 8.20 7.00 7.40 7.50 8.10 8.01 7.88	133 115 85 117 113 66 306 181 121 181 280 99 188 147 159 254	0.26 0.08 < 0.05 0.14 0.46 0.05 0.58 0.09 < 0.05 0.23 0.05 < 0.05 < 0.05	0.00197 0.00079 <0.0005 0.00057 0.000310 0.00034 0.01745 0.00141 <0.0005 0.00901 0.00126 <0.0005 0.000133 0.00043 0.00771 <0.0005 <0.0005	294 230 221 291 353 417 624 458 370 402 656 322 438 514 455 779 552	<.0.001 <.0.001 <.0.001 0.001 0.001 0.001 0.005 0.004 0.001 <0.001 <0.001 0.005 0.004 0.001 <0.001 <0.001 0.005 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74 7.72	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 16.9 7.4 20.2 5.1	270 20 687 309 326 480 498 430 784 490
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 10/18/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 10/22/2009 10/22/2009 5/18/2010		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.036 0.072 0.092 0.100 0.250 0.010 <0.005 <0.005 0.020 0.030	<0.3 <0.03 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 52.0 23.0 < 2 48.0 < 2 74.0 35.0 85.0	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.00 8.20 7.00 7.40 7.50 8.10 8.01	133 115 85 117 113 66 306 181 121 181 280 99 188 147 159 254	0.26 0.08 < 0.05 0.14 0.46 0.05 0.58 0.09 < 0.05 0.23 0.05 < 0.05 < 0.05 0.17 0.09 0.16 < 0.05	0.00197 0.00079 -0.0005 0.00057 0.00310 0.0034 0.01745 0.00141 -0.0005 0.00901 0.00126 -0.0005 0.00133 0.00043 0.000771 -0.0005	294 230 221 291 353 417 624 458 370 402 656 322 438 514 455 779	<.0.001 <.0.001 <.0.001 0.001 0.001 0.001 0.005 0.004 0.001 <0.001 0.001 0.005 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 n/a 16.9 7.4 20.2 5.1	270 20 687 309 326 480 498 430 784
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 10/24/2008 8/18/2009 5/18/2010 10/21/2010 5/31/2011 8/24/2011		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.036 0.072 0.092 0.100 0.250 0.010 <0.005 <0.005 0.020 0.030 <0.01	<0.3 <0.3 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 0.7 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 52.0 23.0 < 2 48.0 < 2 74.0 35.0 85.0 54.0 27.0	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.20 7.90 7.40 7.50 8.10 8.10 8.01 7.88	133 115 85 117 113 66 306 181 121 181 280 99 188 147 159 254 182 262	0.26 0.08 < 0.05 0.14 0.46 0.05 0.58 0.09 < 0.05 0.23 0.05 < 0.05 < 0.05 0.17 0.09 0.16 < 0.05 < 0.05 < 0.05	0.00197 0.00079 -0.0005 0.00057 0.00310 0.001745 0.00141 -0.0005 0.00126 -0.0005 0.00133 0.00074 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005	294 230 221 291 353 417 624 458 370 402 656 322 438 514 455 779 552 691	<.0.001 <.0.001 <.0.001 0.001 0.001 0.001 0.005 0.004 0.001 <0.001 <0.001 0.005 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74 7.72 7.94 7.42 8.14	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 n/a 16.9 7.4 20.2 5.1 11.8	270 20 687 309 326 480 498 430 784 490 699
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 10/22/2009 5/18/2010 10/21/2010 5/31/2011		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.02 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.036 0.072 0.092 0.100 0.250 0.010 <0.005 <0.005 0.020 0.030	<0.3 <0.0 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 52.0 23.0 < 2 48.0 < 2 74.0 35.0 85.0 85.0 54.0 27.0	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.80 8.00 8.20 7.00 7.40 7.50 8.10 8.01 7.88 8.02 7.71	133 115 85 117 113 66 306 181 121 181 280 99 188 147 159 254 182 262	0.26 0.08 <0.05 0.14 0.46 0.05 0.58 0.09 <0.05 0.23 0.05 <0.05 0.17 0.09 0.16 <0.05 <0.05 <0.05 0.20	0.00197 0.00079 -0.0005 0.00057 0.00310 0.001745 0.00141 -0.0005 0.00901 0.00126 -0.0005 0.000133 0.00043 0.00771 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.000139	294 230 221 353 417 624 458 370 402 656 322 438 514 455 779 552 691 502	< 0.001 < 0.001 < 0.001 0.001 0.001 0.001 0.005 0.004 0.001 <0.001 <0.001 0.005 <0.001 <0.001 <0.001 <0.001 0.005 <0.001 0.005 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74 7.72 7.94 7.42 8.14	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 n/a 16.9 7.4 20.2 5.1 11.8 18.1 4.9	270 20 687 309 326 480 498 430 784 490 699 509
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 5/21/2008 8/20/2008 8/20/2008 8/20/2008 5/19/2009 10/22/2009 10/22/2009 10/22/2009 5/18/2011 8/24/2011 8/24/2011		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.02 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.036 0.072 0.092 0.100 0.250 0.010 <0.005 <0.005 <0.005 <0.002 0.030 <0.01	<0.3 <0.3 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 33.0 52.0 23.0 < 2 48.0 < 2 74.0 35.0 85.0 54.0 27.0 13.0 31.0	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.20 7.00 7.40 7.50 8.11 8.01 7.88 8.02 7.71 7.76	133 115 85 117 113 66 306 181 121 181 280 99 188 147 159 254 182 262 185 170	0.26 0.08 < 0.05 0.14 0.46 0.05 0.09 < 0.05 0.23 0.05 < 0.05 0.17 0.09 0.16 < 0.05 < 0.05 < 0.05 < 0.05	0.00197 0.00079 -0.0005 0.00057 0.000310 0.001745 0.00141 -0.0005 0.00901 0.00126 -0.0005 0.00043 0.00043 0.000771 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005	294 230 221 291 353 417 624 458 370 402 656 322 438 514 455 779 552 691 502 510	<.0.001 <.0.001 .0.001 .0.001 .0.001 .0.001 .0.005 .0.004 .0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74 7.72 7.94 7.42 8.14	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 16.9 7.4 20.2 5.1 11.8 18.1 4.9	270 20 687 309 326 480 498 430 784 490 699 509 540
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2009 10/22/2009 5/18/2010 5/31/2011 8/24/2011 10/25/2011		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.036 0.072 0.092 0.100 0.250 0.200 0.010 <0.005 <0.005 <0.005 <0.001 <0.01 <0.01 <0.01 <0.01	<0.3 <0.3 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 52.0 23.0 < 2 48.0 < 2 74.0 35.0 85.0 54.0 27.0 13.0 13.0 13.0	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.20 7.40 7.50 8.10 8.01 7.88 8.02 7.71 7.76 8.18	133 115 85 117 113 66 306 181 121 181 280 99 188 147 159 254 182 262 185 170 400	0.26 0.08 <0.05 0.14 0.46 0.05 0.58 0.09 <0.05 0.23 0.05 <0.07 0.07 0.09 0.16 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.00197 0.00079 -0.0005 0.00057 0.000310 0.00034 0.01745 0.00141 -0.0005 0.00901 0.00126 -0.0005 0.000133 0.00043 0.00771 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005	294 230 221 291 353 417 624 458 370 402 656 322 438 514 455 779 552 691 502 510	<.0.001 <.0.001 <.0.001 0.001 0.001 0.001 0.005 0.004 0.001 <0.001 <0.001 0.005 <0.001 0.005 0.001 0.005 0.001 0.007 0.007 0.007	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74 7.72 7.94 7.42 8.14 7 6.6 6.6	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 16.9 7.4 20.2 5.1 11.8 18.1 4.9 18	270 20 687 309 326 480 498 430 699 509 540 1259
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/22/2009 5/18/2010 10/21/2010 5/31/2011 8/24/2011 10/25/2011 5/18/2012 10/23/2012		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.02 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.036 0.072 0.092 0.100 0.250 0.010 <0.005 <0.005 <0.005 <0.002 0.030 <0.01	<0.3 <0.3 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 52.0 23.0 < 2 48.0 < 2 74.0 35.0 85.0 85.0 27.0 13.0 13.0 13.0 71.0	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.00 7.90 7.80 8.10 7.50 8.10 7.50 8.10 7.88 8.02 7.71 7.76 8.18 7.84	133 115 85 117 113 66 306 181 121 181 280 99 188 147 159 254 182 262 185 170 400 310	0.26 0.08 < 0.05 0.14 0.46 0.05 0.58 0.09 < 0.05 0.23 0.05 < 0.05 0.17 0.09 0.16 <0.05 <0.05 <0.05 0.22 <0.05 0.22 <0.05 0.23	0.00197 0.00079 -0.0005 0.00057 0.000310 0.001745 0.00141 -0.0005 0.00126 -0.0005 0.00133 0.000771 -0.0005	294 230 221 291 353 417 624 458 370 402 656 322 438 514 455 779 552 691 502 510 1000 960	<.0.001 <.0.001 <.0.001 0.001 0.001 0.001 0.005 0.004 0.001 <0.001 <0.001 0.005 <0.001 0.005 <0.001 0.005 <0.001 0.0001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74 7.72 7.94 7.42 8.14 7	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 n/a 16.9 7.4 20.2 5.1 11.8 18.1 4.9 18	270 20 20 687 309 326 480 498 430 784 490 699 509 540 1259 694
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2009 10/22/2009 5/18/2010 5/31/2011 8/24/2011 10/25/2011		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.036 0.072 0.092 0.100 0.250 0.200 0.010 <0.005 <0.005 <0.005 <0.001 <0.01 <0.01 <0.01 <0.01	<0.3 <0.3 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 52.0 23.0 < 2 48.0 < 2 74.0 35.0 85.0 54.0 27.0 13.0 13.0 13.0	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.20 7.40 7.50 8.10 8.01 7.88 8.02 7.71 7.76 8.18	133 115 85 117 113 66 306 181 121 181 280 99 188 147 159 254 182 262 185 170 400	0.26 0.08 <0.05 0.14 0.46 0.05 0.58 0.09 <0.05 0.23 0.05 <0.07 0.07 0.09 0.16 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.00197 0.00079 -0.0005 0.00057 0.000310 0.00034 0.01745 0.00141 -0.0005 0.00901 0.00126 -0.0005 0.000133 0.00043 0.00771 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005	294 230 221 291 353 417 624 458 370 402 656 322 438 514 455 779 552 691 502 510	<.0.001 <.0.001 <.0.001 0.001 0.001 0.001 0.005 0.004 0.001 <0.001 <0.001 0.005 <0.001 0.005 0.001 0.005 0.001 0.007 0.007 0.007	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74 7.72 7.94 7.42 8.14 7 6.6 6.6	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 16.9 7.4 20.2 5.1 11.8 18.1 4.9 18	270 20 687 309 326 480 498 430 699 509 540 1259
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2007 8/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 10/22/2009 5/18/2010 10/21/2010 10/21/2011 5/31/2011 5/31/2011 5/18/2012 8/30/2012 5/24/2013		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.036 0.072 0.092 0.100 0.250 0.200 0.010 <0.005 <0.005 <0.0030 <0.01 <0.01 <0.01 <0.01 <0.01	<0.3 <0.0 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 52.0 23.0 < 2 48.0 < 2 74.0 35.0 85.0 85.0 54.0 27.0 13.0 31.0 9.0	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.00 7.90 7.80 8.01 7.50 8.10 8.01 7.88 8.02 7.71 7.76 8.18 7.84 7.94	133 115 85 117 113 66 306 181 121 181 280 99 188 147 159 254 182 262 185 170 400 310 220	0.26 0.08 <0.05 0.14 0.46 0.05 0.58 0.09 <0.05 0.23 0.05 <0.05 0.17 0.09 0.16 <0.05 <0.05 0.23 0.05 0.17 0.09 0.16 <0.05 0.20 0.05 0.20 0.05 0.20 0.05	0.00197 0.00079 -0.0005 0.00057 0.00310 0.001745 0.00141 -0.0005 0.00126 -0.0005 0.00133 0.00043 0.00771 -0.0005 -0.0005 -0.0005 -0.00139 -0.0005 0.001628 0.00083 0.00083 0.00083 0.00083	294 230 221 291 353 417 624 458 370 402 656 322 438 514 455 779 552 691 502 510	<ul> <li>&lt; 0.001</li> <li>&lt; 0.001</li> <li>&lt; 0.001</li> <li>&lt; 0.001</li> <li>&lt; 0.001</li> <li>&lt; 0.001</li> <li>&lt; 0.005</li> <li>&lt; 0.004</li> <li>&lt; 0.001</li> <li>&lt; 0.004</li> </ul>	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74 7.72 7.94 7.42 8.14 7 6.6 7.66 7.76 9.51	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 n/a 16.9 7.4 20.2 5.1 11.8 18.1 4.9 18 19.1	270 20 687 309 326 480 498 430 784 490 699 509 540 1259 694 604
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 5/21/2008 8/20/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2009 10/22/2009 10/21/2010 5/31/2011 8/24/2011 5/18/2012 8/30/2012 10/23/2012 10/23/2012 5/24/2013 8/29/2013		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.036 0.072 0.092 0.100 0.250 0.200 0.010 <0.005 <0.005 <0.005 <0.001 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	<0.3 <0.3 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 33.0 52.0 23.0 < 2 48.0 < 2 74.0 35.0 85.0 54.0 27.0 13.0 31.0 13.0 48.0 < 2 48.0 < 2 74.0 35.0 85.0 56.0 85.0 57.0 86.0 87.0	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.00 7.90 7.80 8.00 7.40 7.50 8.11 8.01 7.88 8.02 7.71 7.76 8.18 7.84 7.94 7.76	133 115 85 117 113 66 306 181 121 181 280 99 188 147 159 254 182 262 185 170 400 310 220 440	0.26 0.08 <0.05 0.14 0.46 0.05 0.58 0.09 <0.05 0.23 0.05 <0.05 0.17 0.09 0.16 <0.05 <0.05 <0.05 0.09 <0.05 0.09 1.0	0.00197 0.00079 0.00079 <0.0005 0.00057 0.00310 0.0034 0.01745 0.00141 <0.0005 0.00901 0.00126 <0.0005 0.00133 0.000771 <0.0005 <0.0005 0.00139 <0.0005 0.01628 0.00083 0.01628 0.00083 0.01628 0.00083 0.01050 0.00843	294 230 221 291 353 417 624 458 370 402 656 322 438 514 455 779 552 691 502 510 1000 960 620 1100	<.0.001 <.0.001 .0.001 .0.001 .0.001 .0.001 .0.005 .0.004 .0.001 .0.004	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74 7.72 7.94 7.42 8.14 7.66 6.6 7.76 9.51	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 16.9 7.4 20.2 5.1 11.8 18.1 4.9 18.1 19.4 5.7 10.6 18.8	270 20 687 309 326 480 498 430 784 490 699 540 1259 694 604 1297
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 10/24/2009 5/18/2009 5/18/2010 10/21/2010 5/31/2011 8/24/2011 10/25/2011 10/25/2011 10/23/2012 5/34/2012 10/23/2012 5/34/2013		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.036 0.072 0.092 0.100 0.250 0.200 0.010 <0.005 <0.005 <0.0030 <0.01 <0.01 <0.01 <0.01 <0.01	<0.3 <0.3 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 11.0 30.0 105.0 33.0 33.0 52.0 23.0 < 2 48.0 < 2 74.0 35.0 85.0 54.0 27.0 13.0 13.0 13.0 13.0 48.0 27.0 13.0 27.0 13.0 13.0 27.0 13.0 1	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.00 7.90 7.80 8.20 7.00 7.40 7.50 8.10 8.01 7.88 8.02 7.71 7.76 8.18 7.84 7.94 7.76 7.96	133 115 85 117 113 66 306 181 121 181 280 99 188 147 159 254 182 262 185 170 400 310 220 440 340	0.26 0.08 <0.05 0.14 0.46 0.05 0.58 0.09 <0.05 0.23 0.05 <0.05 <0.05 0.17 0.09 0.16 <0.05 <0.05 0.22 0.05 0.22 0.05 0.3 0.092 0.63 1.0 0.16	0.00197 0.00079 0.00079 -0.0005 0.00057 0.00310 0.00034 0.01745 0.00141 -0.0005 0.00901 0.00126 -0.0005 0.00133 0.00043 0.00771 -0.0005 -0.0005 -0.0005 0.00139 -0.0005 0.001628 0.00083 0.01050 0.00843 0.00110	294 230 221 291 353 417 624 458 370 402 656 322 438 514 455 779 552 691 502 510 1000 960 620 1100 940	<.0.001 <.0.001 .0.001 .0.001 .0.001 .0.001 .0.005 .0.004 .0.001 .0.001 .0.005 .0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74 7.72 7.94 7.42 8.14 7 6.6 7.68 7.76 7.76 7.72 7.74 7.72 7.72 7.74 7.75 7.76	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 16.9 7.4 20.2 5.1 11.8 18.1 4.9 18.1 4.9 18.1 4.9 19.4 5.7 10.6 18.8 18.7	270 20 687 309 326 480 498 430 699 509 540 1259 694 604 1297 801
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 5/18/2010 5/31/2011 8/24/2011 10/25/2011 5/18/2012 10/23/2012 5/24/2013 8/29/2013 8/29/2013		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.036 0.072 0.092 0.100 0.250 0.200 0.010 <0.005 <0.005 <0.001 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	<0.3 <0.3 <0.0 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 52.0 23.0 < 2 48.0 < 2 74.0 35.0 85.0 85.0 27.0 13.0 31.0 13.0 31.0 31.0 31.0 31.0 31.0 31.0 31.0 35.0 36.0 36.0 36.0 37	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.00 7.90 7.80 8.10 7.50 8.10 7.88 8.02 7.71 7.76 8.18 7.84 7.94 7.76 7.96 7.87	133 115 85 117 113 66 306 181 121 181 280 99 188 147 159 254 182 262 185 170 400 310 220 440 210	0.26 0.08 < 0.05 0.14 0.46 0.05 0.58 0.09 < 0.05 0.23 0.05 < 0.05 0.17 0.09 0.16 <0.05 <0.05 <0.05 0.22 <0.05 0.22 <0.05 0.23 0.05 1.0 0.16 1.5	0.00197 0.00079 0.00079 0.0005 0.00057 0.00310 0.00034 0.01745 0.00141 0.00126 0.00133 0.00043 0.00771 0.0005 0.0005 0.0005 0.00139 0.0005 0.00139 0.0005 0.00139 0.0005 0.00139 0.0005 0.00139 0.0005 0.00139 0.0005 0.00139 0.0005 0.01628 0.000843 0.00140	294 230 221 291 353 417 624 458 370 402 656 322 438 514 455 779 552 691 502 510 1000 960 620 1100 940 580	<.0.001 <.0.001 .0.001 .0.001 .0.001 .0.001 .0.001 .0.005 .0.004 .0.001 .0.001 .0.005 .0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74 7.72 7.94 7.42 8.14 7 6.6 7.68 7.76 9.51 7.37 7.65 7.61	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 n/a 16.9 7.4 20.2 5.1 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 7.7	270 20 20 687 309 326 480 498 430 784 490 699 509 540 1259 694 604 1297 801 566
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 10/24/2009 5/18/2009 5/18/2010 10/21/2010 5/31/2011 8/24/2011 10/25/2011 10/25/2011 10/23/2012 5/34/2012 10/23/2012 5/34/2013		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.036 0.072 0.092 0.100 0.250 0.200 0.010 <0.005 <0.005 <0.005 <0.001 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	<0.3 <0.3 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 11.0 30.0 105.0 33.0 33.0 52.0 23.0 < 2 48.0 < 2 74.0 35.0 85.0 54.0 27.0 13.0 13.0 13.0 13.0 48.0 27.0 13.0 27.0 13.0 13.0 27.0 13.0 1	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.00 7.90 7.80 8.20 7.00 7.40 7.50 8.10 8.01 7.88 8.02 7.71 7.76 8.18 7.84 7.94 7.76 7.96	133 115 85 117 113 66 306 181 121 181 280 99 188 147 159 254 182 262 185 170 400 310 220 440 340	0.26 0.08 <0.05 0.14 0.46 0.05 0.58 0.09 <0.05 0.23 0.05 <0.05 <0.05 0.17 0.09 0.16 <0.05 <0.05 0.22 0.05 0.22 0.05 0.3 0.092 0.63 1.0 0.16	0.00197 0.00079 0.00079 -0.0005 0.00057 0.00310 0.00034 0.01745 0.00141 -0.0005 0.00901 0.00126 -0.0005 0.00133 0.00043 0.00771 -0.0005 -0.0005 -0.0005 0.00139 -0.0005 0.001628 0.00083 0.01050 0.00843 0.00110	294 230 221 291 353 417 624 458 370 402 656 322 438 514 455 779 552 691 502 510 1000 960 620 1100 940	<.0.001 <.0.001 .0.001 .0.001 .0.001 .0.001 .0.005 .0.004 .0.001 .0.001 .0.005 .0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74 7.72 7.94 7.42 8.14 7 6.6 7.68 7.76 7.76 7.72 7.74 7.72 7.72 7.74 7.75 7.76	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 16.9 7.4 20.2 5.1 11.8 18.1 4.9 18.1 4.9 18.1 4.9 19.4 5.7 10.6 18.8 18.7	270 20 687 309 326 480 498 430 699 509 540 1259 694 604 1297 801
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9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 10/24/2008 10/22/2009 10/22/2009 10/22/2009 10/21/2010 5/31/2011 8/24/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 10/23/2012 10/23/2013 10/17/2013 5/23/2014 10/17/2013		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.036 0.072 0.092 0.100 0.250 0.200 0.010 <0.005 <0.005 <0.001 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	<0.3 <0.3 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 33.0 52.0 23.0 < 2 48.0 < 2 74.0 35.0 85.0 54.0 27.0 13.0 31.0 13.0 71.0 9.0 < 1 20.0 30.0 < 1 20.0	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.80 8.00 7.80 8.20 7.00 7.40 7.50 8.11 8.01 7.88 8.02 7.71 7.76 8.18 7.84 7.76 7.96 7.87	133 115 85 117 113 66 306 181 121 181 280 99 188 147 159 254 182 262 185 170 400 310 220 440 340 210 570 380	0.26 0.08 <0.05 0.14 0.46 0.05 0.58 0.09 <0.05 0.23 0.05 0.17 0.09 0.16 <0.05 <0.05 <0.05 0.16 1.0 0.16 1.5 0.32 0.33	0.00197 0.00079 0.00079 <0.0005 0.00057 0.00310 0.00314 <0.01745 0.00141 <0.0005 0.00901 0.00133 0.00043 0.00771 <0.0005 <0.0005 <0.0005 0.00139 <0.0005 0.01628 0.0083 0.01628 0.00843 0.00110 0.01625 0.01626 0.01625 0.016626 0.016626 0.01666	294 230 221 291 353 417 624 458 370 402 656 322 438 514 455 5779 552 691 500 960 620 1100 940 580 1400	<.0.001 <.0.001 .0.001 .0.001 .0.001 .0.001 .0.005 .0.004 .0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.74 7.72 7.94 7.42 8.14 7.66 7.68 7.76 7.66 7.67 7.76 7.	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 16.9 7.4 20.2 5.1 11.8 18.1 4.9 18.1 4.9 18.1 4.9 19.4 5.7 10.6 18.8 7.7	270 20 20 309 326 480 498 430 784 490 699 509 540 1259 694 604 1297 801 566 1290 886
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2007 8/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2009 10/22/2009 5/18/2010 10/21/2010 5/31/2011 8/24/2011 10/25/2011 10/25/2011 10/23/2012 5/24/2013 10/17/2013 5/23/2014 8/21/2014 8/21/2014		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.036 0.072 0.092 0.100 0.250 0.200 0.010 <0.005 <0.005 <0.005 <0.001 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	<0.3 <0.3 <0.03 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 11.0 14.0 1.0 30.0 105.0 33.0 33.0 52.0 23.0 < 2 48.0 < 2 74.0 35.0 85.0 54.0 27.0 13.0 31.0 13.0 71.0 9.0 <1 20.0 30.0 <1 20.0 18.0	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.00 7.90 7.80 8.10 8.20 7.00 7.40 7.50 8.11 7.88 8.02 7.71 7.76 8.18 7.84 7.94 7.76 7.96 7.87 7.94 7.72	133 115 85 117 113 66 306 181 121 181 280 99 188 147 159 254 182 262 185 170 400 310 220 440 340 210 570 380 200	0.26 0.08 <0.05 0.14 0.46 0.05 0.58 0.09 <0.05 0.17 0.09 0.16 <0.05 <0.05 <0.05 0.22 0.05 0.22 0.05 0.22 0.05 0.22 0.05 0.3 0.092 0.63 1.0 0.16 1.5 0.32 0.33 <0.05	0.00197 0.00079 0.00079 -0.0005 0.00057 0.00310 0.00034 0.01745 0.00141 -0.0005 0.00901 0.00126 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 0.00139 -0.0005 0.001628 0.00083 0.01050 0.00843 0.00110 0.01625 0.016625 0.016625 0.01060	294 230 221 291 353 417 624 458 370 402 656 552 322 438 514 455 779 552 691 500 960 620 11000 940 580 1400 600	<.0.001 <.0.001 .0.001 .0.001 .0.001 .0.001 .0.005 .0.004 .0.001 .0.005 .0.001 .0.005 .0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74 7.72 8.14 7 6.6 7.68 7.76 9.51 7.37 7.65 7.61 8.37 7.54 8.17	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 16.9 7.4 20.2 5.1 11.8 18.1 4.9 18.1 4.9 18.5 7.7 10.6 18.8 7.7 14.8 19.4 5.7	270 20 20 687 309 326 480 498 430 784 490 699 509 540 1259 694 604 1297 801 566 1290 886 537
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 10/24/2008 10/24/2009 5/18/2010 10/21/2010 10/21/2011 5/31/2011 5/31/2011 5/24/2013 8/29/2013 8/29/2013 5/24/2014 8/21/2014 10/9/2014 8/21/2014 10/9/2014		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.036 0.072 0.092 0.100 0.250 0.200 0.010 <0.005 <0.005 <0.0030 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	<0.3 <0.3 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 11.0 14.0 1.0 30.0 105.0 33.0 33.0 52.0 23.0 < 2 48.0 < 2 74.0 35.0 85.0 54.0 27.0 13.0 31.0 13.0 71.0 9.0 <1 20.0 30.0 <1 20.0 18.0 <<1	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.80 8.00 7.80 8.20 7.00 7.40 7.50 8.10 8.80 7.50 8.11 7.88 8.02 7.71 7.76 8.18 7.84 7.94 7.76 7.96 7.87 7.92	133 115 85 117 113 66 306 181 121 181 280 99 188 147 159 254 182 262 185 170 400 310 220 440 210 570 380 200 280	0.26 0.08 <0.05 0.14 0.46 0.05 0.58 0.09 <0.05 0.17 0.09 0.16 <0.05 <0.05 <0.05 0.23 0.05 0.17 0.09 0.16 1.00 0.16 1.5 0.32 0.32 0.33 0.092 0.63 1.0 0.16 1.5 0.32 0.33 0.092	0.00197 0.00079 0.00079 0.0005 0.00057 0.00310 0.00034 0.01745 0.00141 0.0005 0.000133 0.00043 0.00771 0.0005 0.0005 0.00139 0.0005 0.00139 0.0005 0.01628 0.00083 0.01050 0.00843 0.00161 0.01625 0.01606 0.00161 0.00161 0.00161	294 230 221 291 353 417 624 458 370 402 656 322 438 514 455 779 552 691 502 510 960 620 1100 940 580 1400 1000 740	<.0.001 <.0.001 <.0.001 0.001 0.001 0.001 0.005 0.004 0.001 <0.001 <0.001 0.005 <0.001 <0.001 0.005 <0.001 0.005 0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74 7.72 7.94 7.42 8.14 7 6.6 7.68 7.76 9.51 7.37 7.65 7.61 8.37 7.54 8.17 6.89	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 n/a 16.9 7.4 20.2 5.1 11.8 18.1 4.9 18 19.4 5.7 10.6 18.8 19.9 6.6 16.1	270 20 20 687 309 326 480 498 430 784 490 699 509 540 1259 694 604 1259 801 566 1290 886 537 626
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2007 8/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2009 10/22/2009 5/18/2010 10/21/2010 5/31/2011 8/24/2011 10/25/2011 10/25/2011 10/23/2012 5/24/2013 10/17/2013 5/23/2014 8/21/2014 8/21/2014		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.036 0.072 0.092 0.100 0.250 0.200 0.010 <0.005 <0.005 <0.005 <0.001 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	<0.3 <0.3 <0.03 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	11.1 10.4 11.0 11.0 14.0 1.0 30.0 105.0 33.0 33.0 52.0 23.0 < 2 48.0 < 2 74.0 35.0 85.0 54.0 27.0 13.0 31.0 13.0 71.0 9.0 <1 20.0 30.0 <1 20.0 18.0	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.00 7.90 7.80 8.10 8.20 7.00 7.40 7.50 8.11 7.88 8.02 7.71 7.76 8.18 7.84 7.94 7.76 7.96 7.87 7.94 7.72	133 115 85 117 113 66 306 181 121 181 280 99 188 147 159 254 182 262 185 170 400 310 220 440 340 210 570 380 200	0.26 0.08 <0.05 0.14 0.46 0.05 0.58 0.09 <0.05 0.17 0.09 0.16 <0.05 <0.05 <0.05 0.22 0.05 0.22 0.05 0.22 0.05 0.22 0.05 0.3 0.092 0.63 1.0 0.16 1.5 0.32 0.33 <0.05	0.00197 0.00079 0.00079 -0.0005 0.00057 0.00310 0.00034 0.01745 0.00141 -0.0005 0.00901 0.00126 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 -0.0005 0.00139 -0.0005 0.001628 0.00083 0.01050 0.00843 0.00110 0.01625 0.016625 0.016625 0.01060	294 230 221 291 353 417 624 458 370 402 656 552 322 438 514 455 779 552 691 500 960 620 11000 940 580 1400 600	<.0.001 <.0.001 .0.001 .0.001 .0.001 .0.001 .0.005 .0.004 .0.001 .0.005 .0.001 .0.005 .0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74 7.72 8.14 7 6.6 7.68 7.76 9.51 7.37 7.65 7.61 8.37 7.54 8.17	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 16.9 7.4 20.2 5.1 11.8 18.1 4.9 18.1 4.9 18.5 7.7 10.6 18.8 7.7 14.8 19.4 5.7	270 20 20 687 309 326 480 498 430 784 490 699 509 540 1259 694 604 1297 801 566 1290 886 537
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0.01625 0.01060 0.00161 <0.0005 0.0005 0.001625 0.0005 0.001625 0.01060 0.00161 <0.0005 0.00020 0.00140 0.001663	294 230 221 291 353 417 624 458 370 402 656 322 438 514 455 5779 552 691 500 960 620 1100 940 580 1400 600 740 1600 853	<.0.001 <.0.001 .0.001 .0.001 .0.001 .0.001 .0.005 .0.004 .0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74 7.72 7.94 7.42 8.14 7 6.6 7.68 7.76 9.51 7.37 7.65 7.61 8.37 7.54 8.17 6.89	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 16.9 7.4 11.8 18.1 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.4 6.6	270 20 20 687 309 326 480 498 430 784 490 699 509 540 1259 694 604 1259 801 566 1290 886 537 626
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0.01050 0.00843 0.00161 0.01625 0.01628 0.00161 0.00161 0.00161 0.00160 0.00161 0.00020 0.00140	294 230 221 291 353 417 624 458 370 402 656 322 438 514 455 5779 552 691 500 960 620 1100 940 580 1400 600 740 1600 853	<.0.001 <.0.001 .0.001 .0.001 .0.001 .0.001 .0.005 .0.004 .0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74 7.72 7.94 7.42 8.14 7 6.6 7.68 7.76 9.51 7.37 7.65 8.37 7.54 8.17 6.89 8.01	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 16.9 7.4 11.8 18.1 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.4 6.6	270 20 20 309 326 480 498 430 784 490 699 540 1259 694 604 1297 801 566 1290 886 537 626 1146
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9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 8/20/2008 8/20/2008 10/24/2008 5/19/2009 10/22/2009 10/22/2009 10/21/2010 5/31/2011 8/24/2011 5/18/2012 8/30/2012 10/23/2012 10/23/2012 10/23/2014 5/21/2015 5/24/2013 8/29/2013 10/17/2013 5/23/2014 10/9/2014 5/21/2015 5/10/2016 9/8/2016 11/18/2016 11/18/2016 5/17/2017 8/29/2017		0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.0002 < 0.0002	0.036 0.072 0.092 0.100 0.250 0.200 0.010 <0.005 <0.005 <0.001 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	<0.3 <0.3 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.10 < 0.10 < 0.10 < 0.094 <	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 33.0 52.0 2.2 48.0 <.2 48.0 <.2 7.4.0 35.0 85.0 54.0 27.0 13.0 31.0 13.0 13.0 13.0 13.0 13.0 13	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.00 8.20 7.00 7.40 7.50 8.11 8.01 7.88 8.02 7.71 7.76 8.18 7.84 7.94 7.76 7.96 7.87 7.94 7.87 7.92 8.09 7.99 8.26 8.12	133 115 85 117 113 66 306 181 121 181 280 99 188 147 159 254 182 262 262 185 170 400 310 220 440 340 210 380 200 288 288	0.26 0.08 <0.05 0.14 0.46 0.05 0.58 0.09 <0.05 0.23 0.05 <0.05 0.17 0.09 0.16 <0.05 <0.05 <0.05 0.22 <0.05 0.3 0.092 0.63 1.0 0.16 1.5 0.32 0.33 <0.05 0.33 0.092 0.63 1.0 0.16 0.16 0.16 0.16 0.16 0.16 0.16	0.00197 0.00079 0.00079 0.0005 0.00057 0.00310 0.00341 0.01745 0.00141 <0.0005 0.00901 0.00133 0.00133 0.00043 0.00174 0.0005 0.0005 0.00133 0.000771 <0.0005 0.00139 0.001628 0.0005 0.001628 0.00083 0.01105 0.001625 0.01628 0.00063 0.001609 0.001625 0.01625 0.01060 0.00161 0.00063 0.000140 0.00063 0.000020 0.00140 0.00022 0.00022 0.00022 0.00022 0.00022 0.00022 0.00022 0.00022 0.00025	294 230 221 291 353 417 624 488 370 402 656 322 438 514 455 779 552 691 502 510 1000 960 1100 940 580 1400 1400 1000 600 740 1600 853 976 758	<.0.001 <.0.001 .0.001 .0.001 .0.001 .0.001 .0.005 .0.004 .0.001 .0.0001 .0.001 .0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74 7.72 7.94 7.42 8.14 7 6.6 7.68 7.76 7.61 8.37 7.54 8.17 6.89 8.01 8.53 7.56	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 16.9 7.4 20.2 5.1 11.8 18.1 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.9 6.6 16.1 14.6 8	270 20 20 309 326 480 498 430 784 490 699 540 1259 694 1297 801 566 1290 886 537 626 1146 542 317
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 10/18/2007 10/18/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 10/22/2009 10/22/2009 5/18/2010 10/21/2010 5/31/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 5/24/2013 10/17/2013 10/17/2013 5/23/2014 10/9/2014 5/21/2015 5/10/2016 11/18/2016 11/18/2016 11/18/2016 11/18/2016 11/18/2016 5/17/2017 5/17/2017	Duplicate	0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.0001 < 0.05 < 0.005 < 0.0001 < 0.05 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.0002 < 0.0002 < 0.0002	0.036 0.072 0.092 0.100 0.250 0.200 0.010 <0.005 <0.005 <0.001 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	<0.3 <0.3 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1   0.24 < 0.5 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10	11.1 10.4 11.0 11.0 14.0 1.0 30.0 105.0 33.0 33.0 52.0 23.0 <2 48.0 <2 74.0 35.0 85.0 85.0 54.0 27.0 13.0 31.0 13.0 71.0 9.0 <1 20.0 30.0 <1 20.0 18.0 <1 45.0 18.4 7.5 30.2	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.00 8.20 7.00 7.40 7.50 8.11 8.01 7.88 8.02 7.71 7.76 8.18 7.94 7.76 7.96 7.96 7.87 7.94 7.87 7.92 8.09 7.99 8.26 8.12	133 115 85 117 113 66 181 121 181 280 99 188 147 159 254 182 262 185 170 400 340 220 440 340 210 570 380 200 590 330 590 390 590 390 590 590 590 590 590 590 590 590 590 5	0.26 0.08 <0.05 0.14 0.46 0.05 0.09 <0.05 0.23 0.05 <0.05 0.17 0.09 0.16 <0.05 <0.05 <0.05 0.22 <0.05 0.33 0.063 1.0 0.16 1.5 0.32 0.33 <0.05 0.33 0.036 0.047 0.097 0.098 2.4 0.097 0.097 0.098 2.4 0.027 <0.027 <0.02	0.00197 0.00079 0.00079 0.0005 0.00057 0.00310 0.00034 0.01745 0.00141	294 230 221 353 417 624 458 370 402 656 322 438 514 455 779 552 691 1000 940 580 1400 1000 600 1400 600 853 976 758	< 0.001 < 0.001 < 0.001 0.001 0.001 0.001 0.005 0.004 0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.007 <0.001 0.007 <0.001 0.007 <0.001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74 7.72 7.94 7.42 8.14 7 6.6 7.68 7.76 9.51 7.37 7.65 7.61 8.37 7.54 8.17 6.89 8.01 8.53 7.56	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 16.9 7.4 20.2 5.1 11.8 18.1 4.9 18.1 4.9 18.1 19.4 5.7 10.6 18.8 19.9 6.6 8	270 20 20 309 326 480 498 430 784 490 699 509 540 1259 694 604 1259 801 566 1290 886 537 626 1146 542
9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 8/20/2008 8/20/2008 10/24/2008 5/19/2009 10/22/2009 10/22/2009 10/21/2010 5/31/2011 8/24/2011 5/18/2012 8/30/2012 10/23/2012 10/23/2012 10/23/2014 5/21/2015 5/24/2013 8/29/2013 10/17/2013 5/23/2014 10/9/2014 5/21/2015 5/10/2016 9/8/2016 11/18/2016 11/18/2016 5/17/2017 8/29/2017	Duplicate	0.0022 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.0001 < 0.05 < 0.005 < 0.0001 < 0.05 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.0002 < 0.0002 < 0.0002	0.036 0.072 0.092 0.100 0.250 0.200 0.010 <0.005 <0.005 <0.001 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	<0.3 <0.3 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010 <0.010	< 0.2 1.6 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1   0.24 < 0.5 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10	11.1 10.4 11.0 14.0 1.0 30.0 105.0 33.0 33.0 52.0 2.2 48.0 <.2 48.0 <.2 7.4.0 35.0 85.0 54.0 27.0 13.0 31.0 13.0 13.0 13.0 13.0 13.0 13	7.49 7.78 7.70 7.10 7.60 7.40 8.00 7.90 7.80 8.00 7.90 7.80 8.10 8.20 7.00 7.40 7.50 8.11 8.01 7.88 8.02 7.71 7.76 8.18 7.84 7.76 7.96 7.87 7.94 7.87 7.92 8.09 7.99 8.26 8.12	133 115 85 117 113 66 306 181 121 181 280 99 188 147 159 254 182 262 185 170 400 310 220 440 340 210 570 380 200 280 590 330 390 288	0.26 0.08 <0.05 0.14 0.46 0.05 0.18 0.09 <0.05 0.23 0.05 0.17 0.09 0.05 <0.05 <0.05 <0.05 0.17 0.09 0.16 0.05 0.05 0.3 0.092 0.063 1.0 0.16 1.5 0.092 0.092 0.092 0.092 0.092 0.092 0.092 0.093 0.092 0.092 0.092 0.095 0.33 0.092 0.092 0.092 0.092 0.095 0.097 0.097 0.097 0.098 0.097 0.098 0.002 0.002 0.002 0.002 0.002 0.002 0.002	0.00197 0.00079 0.00079 0.0005 0.00057 0.00310 0.00341 0.01745 0.00141 <0.0005 0.00901 0.00133 0.00133 0.00043 0.00174 0.0005 0.0005 0.00133 0.000771 <0.0005 0.00139 0.001628 0.0005 0.001628 0.00083 0.01105 0.001625 0.01628 0.00063 0.001609 0.001625 0.01625 0.01060 0.00161 0.00063 0.000140 0.00063 0.000020 0.00140 0.00022 0.00022 0.00022 0.00022 0.00022 0.00022 0.00022 0.00022 0.00025	294 230 231 231 231 353 417 624 458 370 402 656 322 438 514 455 5779 552 691 502 510 1000 960 620 1100 940 580 1400 1000 600 740 1600 758 976 758	<.0.001 <.0.001 <.0.001 0.001 0.001 0.001 0.005 0.004 0.001 <.0.001 0.005 0.004 0.001 0.001 0.007 0.001 0.007 0.001	6.00 3.70 7.30 6.71 6.24 6.93 7.6 7.21 7.5 7.37 7.06 7.35 7.52 7.74 7.72 7.94 7.42 8.14 7 6.6 7.68 7.76 7.61 8.37 7.54 8.17 6.89 8.01 8.53 7.56	13.7 8.5 17.2 17.4 8.9 14.8 16.7 11 10.9 20.4 8.4 16.9 7.4 20.2 5.1 11.8 18.1 19.4 5.7 10.6 18.8 7.7 14.8 19.9 6.6 16.1 14.9 6.6 16.1 14.6 8	270 20 20 309 326 480 498 430 784 490 699 540 1259 694 1297 801 566 1290 886 537 626 1146 542 317

<sup>\*\* -</sup> action level according to trigger mechanism

Station: S	SW-2
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Station: 500-2															
Parameter -	As	В	Ba	Cd	Cr	Cu	Fe	Hg	TDS	TKN	Total P	COD	BOD	TSS	CI-
PWQO -	0.1	0.2		0.0001	0.1	0.005	0.3	0.0002			0.03				
Trigger -		0.2													187
Units -	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
8/3/2005	0.001	0.016	0.020	< 0.0001	< 0.005	0.003	1.1			1.10	0.033	77	< 2	3	7.0
9/2/2005	< 0.001	0.019	0.019	< 0.0001	< 0.005	0.001	0.94	0.0001	194	1.10	0.035	64	< 2	8	7.0
10/21/2005	< 0.001	0.019	0.017	< 0.0001	< 0.005	0.001	0.71	< 0.0001	198	0.90	0.024	73	< 2	8	7
5/16/2006							0.25		50	1.50	0.006	61	< 2	1	7
8/29/2006	0.001	0.018	0.020	< 0.0001	0.012	0.001	1.7	< 0.0001	105	1.50	0.081	60	< 2	< 1	14
10/17/2006	< 0.2	< 0.02	< 0.02	< 0.005	< 0.1	< 0.02	0.19	< 0.0001	113	0.60	0.009	33	< 2	<1	7
5/31/2007	< 0.2	< 0.02	< 0.02	< 0.003	< 0.1	< 0.02	0.19	< 0.0001	69	1.50	0.017	72	<2	<1	6
	0.0	0.05	0.00	0.005	0.04	0.00		0.0004							
8/15/2007	<0.2	0.05	0.03	< 0.005	<0.01	<0.02	1.6	<0.0001	146	1.70	0.050	110	<2	3.0	9
10/18/2007	<0.2	0.05	0.02	< 0.005	<0.01	<0.02	0.37	<0.0001	124	1.20	0.021	78	<2	<1	9
5/21/2008							0.41			1.00	0.010	63	<2	<10	7
8/20/2008	<0.2	0.05	0.05	< 0.005	< 0.01	< 0.02	4.2	< 0.0001	150	2.10	0.076	110	<2	40	10
10/24/2008	<0.2	0.04	< 0.02	< 0.005	< 0.01	< 0.02	0.33	0.0003	325	1.60	0.190	83	<2	<1	6
5/19/2009							0.17			0.80	0.020	71	<2	<1	<1
8/18/2009	<0.2	0.05	0.03	< 0.005	< 0.01	< 0.02	2.1	< 0.0001	155	1.70	0.044	120	<2	2	10
10/22/2009	<0.2	0.03	<0.02	< 0.005	<0.01	<0.02	0.36	<0.0001	140	1.10	0.014	72	<2	1	8
5/18/2010	10.2	0.00	10.02	10.005	40.01	10.02	0.58	10.0001		1.40	0.019	75	<2	4	14
8/25/2010	<0.2	0.04	0.03	< 0.005	<0.01	<0.02	1.8	<0.0001	200	1.70	0.073	97	<2	2	14
10/21/2010	<0.2	0.03	0.03	< 0.005	<0.01	<0.02	0.36	<0.0001	192	0.70	0.016	64	<2	<1	14
5/31/2011							0.51			1.30	0.050	72	<2	3	13
8/24/2011	<0.2	0.05	0.03	< 0.005	<0.01	< 0.02	0.97	<0.0001	228	1.30	0.090	91	<2	228	13
10/25/2011	<0.2	0.03	0.02	< 0.005	< 0.01	< 0.02	0.4	< 0.0001	224	7.30	0.042	68	<2	2	13
5/18/2012							0.44			1.10	0.081	72	<2	2	16
8/30/2012	<0.2	0.05	0.03	< 0.005	< 0.01	< 0.02	0.89	< 0.0001	180	1.70	0.099	96	<2	11	13
10/23/2012	<0.2	0.03	< 0.02	< 0.005	<0.01	< 0.02	0.37	< 0.0001	184	1.30	0.011	78	<2	<1	14
5/24/2013							0.30		<u> </u>	1.50	0.043	69	<2	<1	26
8/29/2013	<0.2	0.06	0.048	< 0.005	<0.01	<0.02	1.5	<0.0001	334	1.90	0.130	110	_	6	23
10/17/2013	<0.2	0.05	0.048	< 0.005	<0.01	<0.02	0.9	<0.0001	272	1.40	0.130	96	2	<1	15
	<0.2	0.05	0.020	<0.003	₹0.01	<b>₹</b> 0.02		<0.0001	212		0.049				
5/23/2014	.0.0	0.4	0.005	-0.00~	.0.04	-0.00	0.26	40.0004	202	1.20		79	<2	<1	25
8/21/2014	<0.2	0.1	0.065	<0.005	<0.01	<0.02	3.8	<0.0001	382	2.20	0.310	120	2	10	26
10/9/2014	<0.2	0.09	0.038	< 0.005	<0.01	< 0.02	1.4	<0.0001	292	1.30	0.065	75	2	9	13
5/21/2015							0.45			1.10	0.042	68	<2	<1	21
8/25/2015	<0.2	0.14	0.035	< 0.005	<0.01	< 0.02	2.6	<0.0001	348	1.60	0.140	98	2	5	28
10/20/2015	<0.2	0.14	0.034	< 0.005	< 0.01	< 0.02	2.3	< 0.001	322	1.00	0.110	95	<2	4	18
5/10/2016							0.704			1.18	0.050	82		6	25
9/8/2016	0.0009	0.297	0.025	<0.00001	< 0.001	0.0003	0.544	<0.00001	292	1.53	0.097	104	<6	<4.0	28
11/1/2016	0.0005	0.210	0.028	<0.00001	<0.001	0.0004	0.236	<0.00001	276	1.21	0.030	89	<6	<4.0	26
11/18/2016	0.0000	0.202	0.020	<b>40.00001</b>	Q0.001	0.0004	0.200	<b>40.00001</b>	210	1.21	0.000	- 00		٦٠.0	27
	-	0.202													
11/18/2016 Duplica	е									4.00					16.8
5/17/2017		0.233					0.38			1.20	0.053	72	<3	<4	16.9
5/17/2017 Duplicate		0.199													17
8/29/2017	0.0008	0.360	0.035	<0.00002	<0.001	0.0002	2.1	0.000003	276	1.90	0.042	110	NA	<4	20
10/24/2017	0.0010	0.320	0.030	<0.00002	<0.001	0.0002	1	0.000002	274	1.40	0.050	94	8.0	<4	
									Unionized						
Parameter -	Ph	<i>7</i> n	NO2-N	NO3-N	SO4	рН	alk42	NH3-N		Cond.	Phenois	DO	Field pH	Field T	Field Cond
Parameter -	Pb 0.003	<b>Zn</b>	NO2-N	NO3-N	SO4	pH 65-85	alk42	NH3-N	NH3-N	Cond.	Phenols 0.001	DO	Field pH	Field T	Field Cond
PWQO -	<b>Pb</b> 0.003	<b>Zn</b> 0.02	NO2-N	NO3-N	SO4	<b>pH</b> 6.5 - 8.5		NH3-N	NH3-N 0.02	Cond.	Phenols 0.001	DO	Field pH	Field T	Field Cond
PWQO - Trigger -	0.003	0.02				6.5 - 8.5	*		NH3-N 0.02 0.02		0.001		Field pH	Field T	Field Cond
PWQO - Trigger - Units -	0.003 mg/L	0.02 mg/L	mg/L	mg/L	mg/L	6.5 - 8.5 n/a	* mg/L	mg/L	0.02 0.02 mg/L	mg/L	0.001 mg/L	mg/L			
PWQO - Trigger - Units - 8/3/2005	0.003 mg/L 0.0003	0.02 mg/L < 0.005	mg/L < 0.3	mg/L < 0.2	mg/L 3.0	6.5 - 8.5 n/a 7.55	* mg/L 54	mg/L < 0.05	NH3-N 0.02 0.02 mg/L <0.0005	mg/L 126	0.001 mg/L 0.002	mg/L	5.20	22.1	110
PWQO - Trigger - Units - 8/3/2005 9/2/2005	0.003 mg/L 0.0003 < 0.0005	0.02 mg/L < 0.005 < 0.005	mg/L < 0.3 < 0.3	mg/L < 0.2 < 0.2	mg/L 3.0 15.3	6.5 - 8.5 n/a 7.55 7.56	* mg/L 54 50	mg/L < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005	mg/L 126 116	0.001 mg/L 0.002 < 0.001	mg/L 9 13	5.20 6.00	22.1 14.2	110 110
PWQO - Trigger - Units - 8/3/2005 9/2/2005 10/21/2005	0.003 mg/L 0.0003	0.02 mg/L < 0.005	mg/L < 0.3 < 0.3 < 0.01	mg/L < 0.2 < 0.2 < 0.1	mg/L 3.0 15.3 < 1	n/a 7.55 7.56 7.57	* mg/L 54 50 44	mg/L < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005	mg/L 126 116 102	0.001 mg/L 0.002 < 0.001 < 0.001	mg/L 9 13	5.20 6.00 3.90	22.1 14.2 7.1	110
PWQO - Trigger - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006	0.003 mg/L 0.0003 < 0.0005 < 0.0005	0.02 mg/L < 0.005 < 0.005 < 0.005	mg/L < 0.3 < 0.3 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1	mg/L 3.0 15.3 < 1	n/a 7.55 7.56 7.57 7.40	* mg/L 54 50 44 37	mg/L < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 116 102 109	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001	mg/L 9 13 11	5.20 6.00 3.90 6.20	22.1 14.2 7.1 16.4	110 110
PWQO - Trigger - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006	0.003 mg/L 0.0003 < 0.0005 < 0.0005	0.02 mg/L < 0.005 < 0.005 < 0.005	mg/L < 0.3 < 0.3 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 < 1 2	n/a 7.55 7.56 7.57 7.40 7.50	* mg/L 54 50 44 37 55	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 0.0005 0.00098	mg/L 126 116 102 109	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001	mg/L 9 13 11 9	5.20 6.00 3.90 6.20 6.90	22.1 14.2 7.1 16.4 18.3	110 110
PWQO - Trigger - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006	0.003 mg/L 0.0003 < 0.0005 < 0.0005	0.02 mg/L < 0.005 < 0.005 < 0.005	mg/L < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 < 1 2 2 5	n/a 7.55 7.56 7.57 7.40 7.50 7.80	* mg/L 54 50 44 37 55 48	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 0.09 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 0.00098 <0.0005	mg/L 126 116 102 109 134 154	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001	mg/L 9 13 11 9 6	5.20 6.00 3.90 6.20 6.90 7.42	22.1 14.2 7.1 16.4 18.3 7.5	110 110
PWQO - Trigger - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006	0.003 mg/L 0.0003 < 0.0005 < 0.0005	0.02 mg/L < 0.005 < 0.005 < 0.005	mg/L < 0.3 < 0.3 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 < 1 2	n/a 7.55 7.56 7.57 7.40 7.50	* mg/L 54 50 44 37 55	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 0.0005 0.00098 <0.0005 <0.0005	mg/L 126 116 102 109 134	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001	mg/L 9 13 11 9	5.20 6.00 3.90 6.20 6.90	22.1 14.2 7.1 16.4 18.3	110 110 10
PWQO - Trigger - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006	0.003 mg/L 0.0003 < 0.0005 < 0.0005	0.02 mg/L < 0.005 < 0.005 < 0.005	mg/L < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 < 1 2 2 5	n/a 7.55 7.56 7.57 7.40 7.50 7.80	* mg/L 54 50 44 37 55 48	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 0.09 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 0.00098 <0.0005	mg/L 126 116 102 109 134 154	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001	mg/L 9 13 11 9 6	5.20 6.00 3.90 6.20 6.90 7.42	22.1 14.2 7.1 16.4 18.3 7.5	110 110
PWQO - Trigger - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007	0.003 mg/L 0.0003 < 0.0005 < 0.0005 < 0.0005	0.02 mg/L < 0.005 < 0.005 < 0.005	mg/L < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 < 1 2 2 5 30	6.5 - 8.5 n/a 7.55 7.56 7.57 7.40 7.50 7.80 7.00	* mg/L 54 50 44 37 55 48 26	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 0.09 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 0.0005 0.00098 <0.0005 <0.0005	mg/L 126 116 102 109 134 154 152	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  0.004	mg/L 9 13 11 9 6 12 13	5.20 6.00 3.90 6.20 6.90 7.42 6.77	22.1 14.2 7.1 16.4 18.3 7.5 12.1	110 110 10
PWQO - Trigger - Units -  8/3/2005  9/2/2005  10/21/2005  5/16/2006  8/29/2006  10/17/2006  5/15/2007  8/15/2007	0.003 mg/L 0.0003 < 0.0005 < 0.0005 < 0.005	0.02 mg/L < 0.005 < 0.005 < 0.005 0.008 0.020	mg/L < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 < 1 2 5 30 <1	6.5 - 8.5 n/a 7.55 7.56 7.57 7.40 7.50 7.80 7.00 7.90	* mg/L 54 50 44 37 55 48 26 88	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 0.09 < 0.05 < 0.05	NH3-N  0.02  0.02  mg/L  <0.0005  <0.0005  <0.0005  0.00098  <0.0005  0.0005  0.0005  0.0005  0.0005	mg/L 126 116 102 109 134 154 152 201	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  0.004  0.002	mg/L 9 13 11 9 6 12 13 7	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7	110 110 10
PWQO - Trigger - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008	0.003 mg/L 0.0003 < 0.0005 < 0.0005 < 0.005	0.02 mg/L < 0.005 < 0.005 < 0.005 0.008 0.020	mg/L < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 < 1 2 5 30 <1 22 5 30 <1 28	6.5 - 8.5 n/a 7.55 7.56 7.57 7.40 7.50 7.80 7.00 7.90 7.70	* mg/L 54 50 44 37 55 48 26 88 49	mg/L < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0009 <0.0009 <0.0009 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 116 102 109 134 154 152 201 187	0.001  mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 0.004 0.002 <0.001	mg/L 9 13 11 9 6 12 13 7 5	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8	110 110 10
PWQO - Trigger - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007	0.003 mg/L 0.0003 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05 < 0.05	0.02  mg/L  < 0.005  < 0.005  < 0.005  0.008  0.020  <0.01  <0.01	mg/L < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 < 1 2 2 5 30 <1 28 19 <1	6.5 - 8.5 n/a 7.55 7.56 7.57 7.40 7.50 7.80 7.00 7.90 7.70 7.40 8.00	* mg/L 54 50 44 37 55 48 26 88 49 43 98	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 0.09 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 0.00098 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 116 102 109 134 154 152 201 187 150 223	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  0.004  0.002  < 0.001  < 0.001  0.004  0.002  < 0.001  < 0.001  < 0.001	mg/L 9 13 11 9 6 12 13 7 5 7	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8	110 110 110 10
PWQO - Trigger - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008	0.003 mg/L 0.0003 < 0.0005 < 0.0005 < 0.0005 < 0.005 < 0.05	0.02  mg/L  < 0.005  < 0.005  < 0.008  0.008  0.020  <0.01  <0.01	mg/L < 0.3 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 < 1 2 2 5 30 <1 28 19 <1	n/a 7.55 7.56 7.57 7.40 7.50 7.80 7.00 7.90 7.70 7.40 8.00 8.20	mg/L 54 50 44 37 55 48 26 88 49 43 98 195	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 0.09 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 0.00098 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 116 102 109 134 154 152 201 187 150 223 516	0.001  mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.55 7.45	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3	110 110 110 10 212
PWQO - Trigger - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009	0.003  mg/L 0.0003 < 0.0005 < 0.0005 < 0.0005 < 0.005  < 0.05  < 0.05	0.02  mg/L  < 0.005  < 0.005  < 0.008  0.008  0.020  <0.01  <0.01  <0.01	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 < 1 2 2 5 30 <128 19 <<1 1 1	n/a 7.55 7.56 7.57 7.80 7.80 7.70 7.40 8.00 8.20 6.90	mg/L 54 50 44 37 55 48 26 88 49 43 98 195 47	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.09 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 0.00098 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 1116 102 109 134 154 152 201 187 150 223 516	0.001  mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.56 7.37	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a	110 110 10 10 212 166 242
PWQO - Trigger - Units -  8/3/2005  9/2/2005  10/21/2005  5/16/2006  8/29/2006  10/17/2006  5/15/2007  8/15/2007  10/18/2007  10/18/2007  5/21/2008  8/20/2008  10/24/2008  5/19/2009  8/18/2009	0.003  mg/L 0.0003 <0.0005 <0.0005 <0.0005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02  mg/L < 0.005 < 0.005 < 0.005  0.008  0.020	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 5 30 <1 22 5 30 <1 11 41 11 <11 <11	6.5 - 8.5 n/a 7.55 7.56 7.57 7.40 7.80 7.00 7.90 7.70 7.40 8.00 8.20 6.90 7.40	** mg/L 54 50 44 37 55 48 26 88 49 43 98 195 47	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05  0.09 < 0.05  0.01 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 0.00098 <0.0005 0.0006 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 116 102 109 134 154 152 201 187 150 223 516 161 232	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.37 7.74	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1	110 110 10 10 212 166 242 244
PWQO - Trigger - Units -  8/3/2005  9/2/2005  10/21/2005  5/16/2006  8/29/2006  10/17/2006  5/15/2007  8/15/2007  10/18/2007  5/21/2008  8/20/2008  10/24/2008  5/19/2009  8/18/2009  10/24/2009	0.003  mg/L 0.0003 < 0.0005 < 0.0005 < 0.0005 < 0.005  < 0.05  < 0.05	0.02  mg/L  < 0.005  < 0.005  < 0.008  0.008  0.020  <0.01  <0.01  <0.01	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 5 5 30 <1 28 19 <1 1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.55 7.56 7.57 7.40 7.50 7.80 7.70 7.90 7.70 8.00 8.20 6.90 7.40	** mg/L 54 50 44 37 55 48 26 88 49 98 195 47 102 84	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.005 < 0.009 < 0.05 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 0.00098 0.00098 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 116 102 109 134 154 152 201 187 150 223 516 161 232 213	0.001  mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.55 7.45 7.56 7.37 7.74	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1	110 110 10 10 212 166 242 244 196
PWQO - Trigger - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2009 10/22/2009 5/18/2009 5/18/2010	0.003  mg/L 0.0003  < 0.0005 < 0.0005 < 0.0005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.02  mg/L < 0.005 < 0.005 < 0.005  0.008 0.020	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 2 5 30 <1 28 19 <1 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.55 7.56 7.57 7.40 7.50 7.80 7.90 7.70 7.40 8.00 6.90 7.40 7.40 7.40	mg/L 54 50 44 37 55 48 26 88 49 43 98 195 47 102 84 67	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 0.09 < 0.05 0.01 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 116 102 109 134 154 152 201 187 150 223 516 161 232 213	0.001  mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11 8	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.37 7.74 7.74	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17	110 110 10 10 212 166 242 244
PWQO - Trigger - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2009 10/22/2009 5/18/2010 8/25/2010	0.003  mg/L 0.0003 <0.0005 <0.0005 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02  mg/L < 0.005 < 0.005 < 0.005  0.008 0.020	mg/L < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 5 30 41 28 19 <1 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	6.5 - 8.5 n/a 7.55 7.56 7.57 7.40 7.80 7.00 7.70 7.40 8.00 8.20 6.90 7.40 7.40 7.40 7.70	* mg/L 54 50 44 37 55 48 26 88 49 43 98 195 47 102 84 67 123	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.09 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 1116 102 134 154 152 201 187 150 223 516 161 232 213 177 301	0.001  mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 9 13 11 9 6 12 13 7 7 6 11 8 9 11 8	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.37 7.74 7.74 7.74 7.73	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17	110 110 10 10 212 166 242 244 196
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2009 10/22/2009 5/18/2010 18/25/2010 10/21/2010	0.003  mg/L 0.0003  < 0.0005 < 0.0005 < 0.0005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.02  mg/L < 0.005 < 0.005 < 0.005  0.008 0.020	mg/L < 0.3 < 0.03 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 2 5 30 <1 28 11 11 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.90  7.70  7.40  8.00  8.20  6.90  7.40  7.40  7.40  7.40  7.50	** mg/L 54 50 44 37 55 48 26 88 49 43 195 47 102 84 67 123 109	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.005 < 0.05  0.09 < 0.05  0.11 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 116 102 109 134 154 152 201 187 223 516 161 161 232 213 177 301 587	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  0.004  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11 8 7 7	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.56 7.37 7.74 7.74 7.63 7.30 8.17	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7	110 110 10 10 212 166 242 244 196 171
PWQO - Trigger - Units -  8/3/2005  9/2/2005  10/21/2005  10/21/2005  5/16/2006  8/29/2006  10/17/2006  5/15/2007  10/18/2007  10/18/2007  5/21/2008  8/29/2008  10/24/2008  5/19/2009  8/18/2009  5/18/2010  10/21/2010  5/31/2011	0.003  mg/L 0.0003  <0.0005  <0.0005  <0.005  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05	0.02  mg/L  < 0.005  < 0.005  < 0.005  0.008  0.020  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 2 5 30 <1 28 19 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.55 7.56 7.57 7.40 7.50 7.80 7.90 7.70 7.40 8.20 6.90 7.40 7.40 7.40 7.50 7.70 7.40 8.00 7.70 7.40 8.00 7.40 8.00 7.40 7.50 7.50 7.50 7.70 7.40 8.00 7.40 7.40 7.40 7.40 7.40 7.40 7.40 7.40 7.40 7.40 7.40 7.40 7.40 7.40 7.40 7.40 7.40 7.40 7.40 7.50 7.40 7.50 7.	mg/L 54 50 44 37 55 48 26 88 49 43 195 47 102 84 67 123 109 74	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	NH3-N  0.02  0.02  mg/L  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005  <0.0005	mg/L 126 116 102 109 134 154 152 201 187 150 223 516 161 232 213 177 301 301 199	0.001  mg/L 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11 8 9 7 7	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.56 7.37 7.74 7.63 7.30 8.17 7.18	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6,7	110 110 10 10 212 212 166 242 244 196 171
PWQO - Trigger - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2009 10/22/2009 5/18/2010 10/21/2010 5/31/2011 8/24/2011	0.003  mg/L 0.0003  <0.0005 <0.0005 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02  mg/L < 0.005 < 0.005 < 0.005  0.008 0.020	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 5 5 30 <1 28 19 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.90  7.70  7.40  8.00  6.90  7.40  7.40  7.40  7.50  7.40  7.50  7.50  7.80  7.70  7.70  7.40  8.70  7.70  7.40  7.70  7.40  7.70  7.55  7.63	mg/L 54 50 44 37 55 48 26 88 49 43 98 195 47 102 84 67 123 109 74	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 0.09 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 116 102 109 134 154 152 201 187 150 223 516 161 232 213 177 301 587 199	0.001  mg/L 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11 8 5 7 6 6 6	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.74 7.74 7.63 7.30 8.17 7.18 8.19	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4	110 110 110 10 212 212 166 242 244 196 171
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 10/18/2007 10/18/2008 8/20/2008 10/24/2008 10/24/2008 5/19/2009 5/18/2010 8/25/2010 10/21/2010 5/31/2011 10/25/2011	0.003  mg/L 0.0003  <0.0005  <0.0005  <0.005  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05	0.02  mg/L  < 0.005  < 0.005  < 0.005  0.008  0.020  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 2 5 30 <1 28 11 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.90  7.70  7.40  8.00  8.20  6.90  7.40  7.40  7.40  7.40  7.55  7.55  7.59  7.59  7.59  7.39	** mg/L 54 50 44 37 55 48 26 88 49 195 47 102 84 67 123 109 74 122 111	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 0.0005 0.0005 0.00265 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 116 1102 109 134 154 155 201 187 150 223 516 223 516 232 213 177 301 587 199 292	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  0.004  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11 8 5 7 7 6 11 8 9 11 11 11 11 11 11 11 11 11	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.56 7.37 7.74 7.63 7.30 8.17 7.18 8.19 7.66	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.1	110 110 10 10 212 212 166 242 244 196 171 199 306 337
PWQO - Trigger - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2009 10/22/2009 5/18/2010 10/21/2010 5/31/2011 8/24/2011	0.003  mg/L 0.0003  <0.0005 <0.0005 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02  mg/L < 0.005 < 0.005 < 0.005  0.008 0.020	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 5 5 30 <1 28 19 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.90  7.70  7.40  8.00  6.90  7.40  7.40  7.40  7.50  7.40  7.50  7.50  7.80  7.70  7.70  7.40  8.70  7.70  7.40  7.70  7.40  7.70  7.55  7.63	mg/L 54 50 44 37 55 48 26 88 49 43 98 195 47 102 84 67 123 109 74	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05  0.09 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 116 102 109 134 154 152 201 187 150 223 516 161 232 213 177 301 587 199	0.001  mg/L 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11 8 5 7 6 6 6	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.74 7.74 7.63 7.30 8.17 7.18 8.19	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4	110 110 110 10 212 212 166 242 244 196 171
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 10/18/2007 10/18/2008 8/20/2008 10/24/2008 10/24/2008 5/19/2009 5/18/2010 8/25/2010 10/21/2010 5/31/2011 10/25/2011	0.003  mg/L 0.0003  <0.0005 <0.0005 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02  mg/L < 0.005 < 0.005 < 0.005  0.008 0.020	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 2 5 30 <1 28 11 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.90  7.70  7.40  8.00  8.20  6.90  7.40  7.40  7.40  7.40  7.55  7.55  7.59  7.59  7.59  7.39	** mg/L 54 50 44 37 55 48 26 88 49 195 47 102 84 67 123 109 74 122 111	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 0.0005 0.0005 0.00265 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 116 1102 109 134 154 155 201 187 150 223 516 223 516 232 213 177 301 587 199 292	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  0.004  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11 8 5 7 7 6 11 8 9 11 11 11 11 11 11 11 11 11	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.56 7.37 7.74 7.63 7.30 8.17 7.18 8.19 7.66	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.1	110 110 10 10 212 212 166 242 244 196 171 199 306 337
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 5/18/2010 10/22/2009 5/18/2010 8/25/2010 10/21/2010 5/31/2011 8/24/2011 5/18/2012	0.003  mg/L 0.0003  <0.0005 <0.0005 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02  mg/L  < 0.005  < 0.005  < 0.005  0.008  0.020  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 2 5 30 <1 28 19 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.00  7.70  7.40  8.00  8.20  6.90  7.40  7.40  7.40  7.50  7.40  7.70  7.55  7.63  7.93  7.48  7.74	mg/L 54 50 44 37 55 48 26 88 49 43 98 195 47 102 84 67 123 109 74 122 111 100 130	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 116 102 109 134 154 152 201 187 150 223 516 161 232 213 177 301 177 301 199 292 292 292 260 320	0.001  mg/L 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11 8 5 7 6 10 10 8 7	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.56 7.37 7.74 7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.1 4.3	110 110 110 10 212 212 166 242 244 196 171 199 306 337 540 435
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 10/18/2007 10/18/2007 10/24/2008 8/20/2008 10/24/2008 10/24/2008 5/19/2009 5/18/2010 10/22/2009 5/18/2010 10/21/2010 5/31/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012	0.003  mg/L 0.0003  <0.0005 <0.0005 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02  mg/L  < 0.005  < 0.005  < 0.008  0.020  - 0.01  - 0.01  - 0.01  - 0.01  - 0.01  - 0.01  - 0.01  - 0.01  - 0.01  - 0.01  - 0.01  - 0.01  - 0.01  - 0.01	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 5 30 <1 28 19 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.90  7.90  7.70  7.40  8.00  8.20  6.90  7.40  7.70  7.55  7.59  7.63  7.93  7.48  7.74	** mg/L 54 50 44 37 55 48 88 49 98 195 47 102 84 67 123 109 74 122 111 100 130 72	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 116 1102 109 134 154 155 201 187 150 223 516 161 232 213 777 301 587 199 292 292 260 320 210	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11 8 9 11 8 9 11 10 10 10 10 10 10 10 10 10	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.74 7.74 7.74 7.73 8.17 7.18 8.19 7.66 6.29 7.50	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.1 18.1 18.3 18.3 18.1 18.3 18.3 18.3	110 110 110 10 212 212 166 242 244 196 171 199 306 337 540 435 216
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2009 10/22/2009 5/18/2010 10/21/2010 10/21/2010 5/31/2011 8/24/2011 10/25/2011 5/18/2012 8/30/2012 8/30/2012 10/23/2012 5/24/2013	0.003  mg/L  0.0003  <0.0005  <0.0005  <0.005  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05	0.02  mg/L  < 0.005  < 0.005  < 0.005  0.008  0.020  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L  < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 2 5 30 <1 28 19 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.90  7.70  7.40  8.20  6.90  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.55  7.59  7.63  7.66	**  mg/L  54  50  44  37  55  48  49  43  98  195  47  102  84  67  123  109  74  122  88  88	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05  0.09 < 0.05  0.01 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.07 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 0.0005	mg/L 126 116 102 109 134 154 152 201 187 223 516 161 232 213 177 301 587 199 292 292 260 320 210 250	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  0.004  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  0.003	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11 8 7 7 6 11 8 9 11 11 8 9 11 11 11 11 11 11 11 11 11	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.56 7.37 7.74 7.63 8.17 7.18 8.19 7.66 6.29 7.50	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.1 4 18.1 4 17 11.6	110 110 110 10 212 212 166 242 244 196 171 199 306 337 540 435 216 278
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 10/22/2009 5/18/2010 10/21/2010 8/25/2010 10/21/2010 5/31/2011 8/24/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 5/24/2013 8/29/2013	0.003  mg/L 0.0003  <0.0005 <0.0005 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02  mg/L  < 0.005  < 0.005  < 0.005  0.008  0.020  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 2 5 5 30 <1 11 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.00  7.70  7.40  8.00  8.20  6.90  7.40  7.40  7.40  7.55  7.59  7.63  7.93  7.48  7.74  7.37  7.37	** mg/L 54 50 44 37 55 48 26 88 49 43 195 47 102 84 67 123 110 1100 130 72 88 160	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 0.0005 0.0005 0.00098 0.0005	mg/L 126 116 102 109 134 154 1552 201 187 150 223 516 161 232 213 177 301 177 301 199 292 292 260 320 210 250 420	0.001  mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11 8 5 7 7 6 11 8 9 11 11 11 11 11 11 11 11 11	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.56 7.37 7.74 7.63 7.30 8.17 7.18 8.19 7.60 6.29 7.50 7.74	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.1 4.3 18.3 5.3 11.6 18.3	110 110 110 10 212 212 166 242 244 196 171 199 306 337 540 435 216 278 545
PWQO - Trigger - Units - 8/3/2005 9/2/2005 10/21/2005 10/21/2006 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 10/24/2008 5/19/2009 10/22/2009 5/18/2010 10/21/2010 10/21/2011 10/25/2011 5/18/2011 5/18/2012 8/30/2012 10/23/2012 5/24/2013 8/29/2013 10/17/2013	0.003  mg/L  0.0003  <0.0005  <0.0005  <0.005  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05  <0.05	0.02  mg/L  < 0.005  < 0.005  < 0.005  0.008  0.020  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01	mg/L	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 2 5 30 <1 28 19 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.90  7.70  7.40  8.00  6.90  7.40  7.40  7.40  7.55  7.63  7.93  7.48  7.70  7.66  7.70	mg/L 54 50 44 37 55 48 26 88 49 43 98 195 47 102 84 67 122 111 100 130 72 88 160 120	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 116 102 109 134 154 1552 201 187 150 223 516 161 232 213 177 301 587 199 292 292 292 292 292 292 210 250 420 340	0.001  mg/L 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11 8 5 7 6 10 8 7 9 8 5 7	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.37 7.74 7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.1 4.3 18.1 4.3 18.1 4.3 18.1 4.3 18.3 5.3	110 110 110 10 212 212 166 242 244 196 171 199 306 337 540 435 216 278 545 314
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 10/18/2007 10/18/2007 5/21/2008 10/24/2008 10/24/2008 10/24/2008 5/19/2009 5/18/2010 10/22/2009 5/18/2010 10/21/2010 5/31/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 10/23/2012 10/23/2012 5/24/2013 8/29/2013 10/17/2013 5/23/2014	0.003   mg/L   0.0003   0.0003   0.0003   0.0005   0.0005   0.005   0.	0.02  mg/L  < 0.005  < 0.005  < 0.005  0.008  0.020  - 0.01	mg/L	mg/L  < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 2 5 30 <1 28 19 11 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.90  7.70  7.40  8.00  8.20  6.90  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.55  7.59  7.65  7.69  7.63  7.70  7.66  7.80  7.70  7.46	** mg/L 54 50 44 37 55 48 88 49 49 43 195 47 102 84 67 123 109 74 122 111 100 130 72 88 160 120 96	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 0.0005	mg/L 126 116 102 109 134 154 155 201 187 201 187 223 516 161 232 213 177 301 587 199 292 260 320 210 250 420 270	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001   0.005  < 0.001  0.005  < 0.001  0.005	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11 8 9 11 8 7 7 6 11 8 9 11 11 8 9 11 11 11 11 11 11 11 11 11	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.55 7.74 7.74 7.74 7.74 7.74 7.78 8.17 7.18 8.17 7.66 6.29 7.57 7.49 7.70	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.1 4 17 11.4 18.3 18.3 5.3 11.6 18.3 18.3	110 110 110 10 212 212 166 242 244 196 171 199 306 337 540 435 216 278 545 314 313
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 5/18/2010 10/22/2009 5/18/2010 8/25/2010 10/21/2010 8/25/2011 5/31/2011 8/24/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 5/24/2013 8/29/2013 10/17/2013 5/23/2014 8/21/2014	0.003   mg/L   0.0003   0.0003   0.0003   0.0005   0.0005   0.005   0.	0.02  mg/L  < 0.005  < 0.005  < 0.005  0.008  0.020	mg/L	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 2 5 5 30 <1 28 19 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.70  7.90  7.70  8.00  8.20  6.90  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.55  7.59  7.63  7.93  7.48  7.74  7.37  7.66  7.80  7.70  7.46  7.70	** mg/L 54 50 44 37 55 48 26 88 49 43 195 47 102 84 67 123 1109 74 122 111 100 130 72 88 160 120 98 160	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	NH3-N 0.02 0.02 mg/L <0.0005 0.0005	mg/L 126 116 102 109 134 154 1552 201 187 150 223 516 161 232 213 177 301 587 199 292 260 320 210 250 420 340 270 410	0.001  mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11 8 5 7 7 6 10 8 7 9 8 5 7 7 8	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.56 7.37 7.74 7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.74 9.57 7.49	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.1 4.3 5.3 11.6 18.3 5.5 14.1 17	110 110 110 10 212 212 166 242 244 196 171 199 306 337 540 435 216 278 545 314 314 313 468
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 10/18/2007 10/18/2007 5/21/2008 8/29/2008 10/24/2008 5/19/2009 8/18/2009 10/22/2009 5/18/2010 10/21/2010 8/25/2010 10/21/2011 5/31/2011 8/24/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 5/24/2013 8/29/2013 10/17/2013 5/23/2014 10/27/2014	0.003   mg/L   0.0003   0.0003   0.0003   0.0005   0.0005   0.005   0.	0.02  mg/L  < 0.005  < 0.005  < 0.005  0.008  0.020  - 0.01	mg/L	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 2 5 30 <1 28 19 41 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.00  7.70  7.40  8.00  8.20  6.90  7.40  7.55  7.63  7.93  7.48  7.74  7.37  7.66  7.70  7.46  7.71  7.64	mg/L 54 50 44 37 55 48 26 88 49 43 98 195 47 102 81 122 111 100 130 72 88 160 120 96	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.096 0.096	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 116 102 109 134 154 1552 201 187 150 223 516 161 232 213 177 301 177 301 199 292 292 292 292 292 292 290 210 250 420 340 270 340 270	0.001  mg/L 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.003 0.005 <0.001 0.005 <0.001 0.006 0.009 0.006	mg/L 9 13 111 9 6 12 13 7 5 7 6 111 8 9 11 11 8 5 7 7 6 10 8 7 9 8 7 9	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.56 7.37 7.74 7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 7.80 8.83 7.49	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.1 4.3 5.3 11.6 18.3 5.5 14.1 17 18.3	110 110 110 10 212 212 166 242 244 196 171 199 306 337 540 435 216 278 545 314 313 488 352
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2008 8/20/2008 10/24/2008 10/24/2008 5/19/2009 5/18/2010 10/22/2009 5/18/2010 10/21/2010 5/31/2011 10/21/2010 5/31/2011 5/31/2011 5/31/2011 5/31/2012 8/30/2012 10/33/2012 5/24/2013 8/29/2013 10/17/2013 5/23/2014 8/21/2014 5/21/2014	0.003   mg/L   0.0003   0.0003   0.0003   0.0005   0.0005   0.005   0.	0.02  mg/L  < 0.005  < 0.005  < 0.005  < 0.005  0.008  0.020  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L  < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 2 5 30 <1 28 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.90  7.70  7.40  8.00  8.20  6.90  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.55  7.59  7.63  7.93  7.48  7.74  7.66  7.80  7.70  7.46  7.80  7.70  7.66  7.80  7.70  7.66  7.80  7.70  7.66  7.80  7.70  7.46  7.80  7.70  7.46  7.80	**  **  **  **  **  **  **  **  **  **	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 116 102 109 134 154 155 201 187 150 223 516 161 232 213 177 301 587 199 292 260 320 210 250 420 340 270 410 370 200	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11 8 5 7 7 6 11 8 9 11 8 9 11 8 9 11 11 8 9 11 11 11 11 11 11 11 11 11	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.56 7.37 7.74 7.74 7.73 8.17 7.66 6.29 7.50 7.71 9.57 7.49 7.70 9.57 7.80 8.35 7.49 6.52	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.1 18.1 18.1 18.1 18.1 18.1 19.2	110 110 110 10 212 212 166 242 244 196 171 199 306 337 540 435 216 278 545 314 313 468 352 197
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 10/18/2007 10/18/2007 5/21/2008 8/29/2008 10/24/2008 5/19/2009 8/18/2009 10/22/2009 5/18/2010 10/21/2010 8/25/2010 10/21/2011 5/31/2011 8/24/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 5/24/2013 8/29/2013 10/17/2013 5/23/2014 10/27/2014	0.003   mg/L   0.0003   0.0003   0.0003   0.0005   0.0005   0.005   0.	0.02  mg/L  < 0.005  < 0.005  < 0.005  0.008  0.020	mg/L	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 2 5 30 <1 28 19 41 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.00  7.70  7.40  8.00  8.20  6.90  7.40  7.55  7.63  7.93  7.48  7.74  7.37  7.66  7.70  7.46  7.71  7.64	mg/L 54 50 44 37 55 48 26 88 49 43 98 195 47 102 81 122 111 100 130 72 88 160 120 96	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.096 0.096	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 116 102 109 134 154 1552 201 187 150 223 516 161 232 213 177 301 177 301 199 292 292 292 292 292 292 290 210 250 420 340 270 340 270	0.001  mg/L 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.003 0.005 <0.001 0.005 <0.001 0.006 0.009 0.006	mg/L 9 13 111 9 6 12 13 7 5 7 6 111 8 9 11 11 8 5 7 7 6 10 8 7 9 8 7 9	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.56 7.37 7.74 7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 7.80 8.83 7.49	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.1 4.3 5.3 11.6 18.3 5.5 14.1 17 18.3	110 110 110 10 212 212 166 242 244 196 171 199 306 337 540 435 216 278 545 314 313 488 352
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2008 8/20/2008 10/24/2008 10/24/2008 5/19/2009 5/18/2010 10/22/2009 5/18/2010 10/21/2010 5/31/2011 10/21/2010 5/31/2011 5/31/2011 5/31/2011 5/31/2012 8/30/2012 10/33/2012 5/24/2013 8/29/2013 10/17/2013 5/23/2014 8/21/2014 5/21/2014	0.003   mg/L   0.0003   0.0003   0.0003   0.0005   0.0005   0.005   0.	0.02  mg/L  < 0.005  < 0.005  < 0.005  < 0.005  0.008  0.020  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L  < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 2 5 30 <1 28 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.90  7.70  7.40  8.00  8.20  6.90  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.55  7.59  7.63  7.93  7.48  7.74  7.66  7.80  7.70  7.46  7.80  7.70  7.66  7.80  7.70  7.66  7.80  7.70  7.66  7.80  7.70  7.46  7.80  7.70  7.46  7.80	**  **  **  **  **  **  **  **  **  **	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 116 102 109 134 154 155 201 187 150 223 516 161 232 213 177 301 587 199 292 260 320 210 250 420 340 270 410 370 200	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11 8 5 7 7 6 11 8 9 11 8 9 11 8 9 11 11 8 9 11 11 11 11 11 11 11 11 11	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.56 7.37 7.74 7.74 7.73 8.17 7.66 6.29 7.50 7.71 9.57 7.49 7.70 9.57 7.80 8.35	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.1 18.1 18.1 18.1 18.1 18.1 19.2	110 110 110 10 212 212 166 242 244 196 171 199 306 337 540 435 216 278 545 314 313 468 352 197
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 10/22/2009 5/18/2010 10/21/2010 8/25/2010 10/21/2010 5/31/2011 8/24/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 10/23/2012 10/23/2012 5/24/2013 8/29/2013 10/17/2013 5/23/2014 8/21/2014 10/9/2014 5/21/2015	0.003   mg/L   0.0003   0.0003   0.0003   0.0005   0.0005   0.005   0.	0.02  mg/L  < 0.005  < 0.005  < 0.005  0.008  0.020	mg/L	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 5.3 <1 2 2 2 5 5 30 <1 28 19 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.00  7.70  7.40  8.00  8.20  6.90  7.40  7.55  7.59  7.63  7.93  7.93  7.93  7.94  7.74  7.37  7.66  7.80  7.70  7.46  6.88  7.31  7.74	**  mg/L  54  50  44  37  55  48  26  88  49  43  195  47  102  84  67  123  109  74  122  111  100  130  72  88  160  120  140  75  110	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.006 < 0.005 < 0.006 < 0.005	NH3-N 0.02 0.02 mg/L <0.0005 0.0005 0.0005 0.00098 0.0005	mg/L 126 116 102 109 134 154 155 152 201 187 150 223 516 161 232 213 177 301 177 301 292 292 292 210 210 320 210 320 210 340 270 410 370 200 310 400	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001	mg/L 9 13 111 9 6 12 13 7 5 7 6 111 8 9 111 8 5 7 7 6 10 8 7 9 8 5 7 9 9 6 6 6	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.55 7.37 7.74 7.63 7.37 7.74 7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 8.19 7.50 7.74 7.70 7.70 7.74 7.74 7.74 7.70 7.70	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.1 4.3 5.3 18 18.3 5.5 14.1 17 6.1 9.2 13.5 5.4	110 110 110 10 212 212 166 242 244 196 171 199 306 337 540 435 216 216 2278 545 314 313 468 352 197 295 367
PWQO - Trigger - Units -  8/3/2005  9/2/2005  10/21/2005  5/16/2006  8/29/2006  10/17/2006  5/15/2007  8/15/2007  10/18/2007  10/18/2007  5/21/2008  8/20/2008  10/24/2008  10/24/2008  5/19/2009  5/18/2010  10/22/2009  5/18/2010  10/21/2010  5/31/2011  5/31/2011  5/31/2011  5/32/2012  10/23/2012  10/23/2014  10/25/2013  8/29/2013  10/17/2013  5/23/2014  8/21/2014  10/9/2014  5/21/2015  8/25/2015  10/20/2015  5/10/2016	0.003   mg/L   0.0003   0.0003   0.0003   0.0005   0.0005   0.005   0.	0.02  mg/L  < 0.005  < 0.005  < 0.005  0.008  0.020	mg/L	mg/L  < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <11 2 2 2 5 30 <1 28 9 19 1 1 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.90  7.90  7.70  7.40  8.00  8.20  6.90  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.70  7.55  7.59  7.63  7.93  7.48  7.74  7.90	* mg/L 54 50 44 37 55 48 88 49 98 195 47 102 84 67 123 109 74 122 111 100 130 72 88 160 96 160 75 110 140 129	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L  126  116  102  109  134  154  155  201  187  150  223  516  161  232  213  177  301  587  199  292  260  320  210  250  420  340  270  410  370  200  310  400  330	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11 8 7 7 6 10 8 7 7 8 7 8 7 9 9 6	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.74 7.74 7.74 7.74 7.74 7.74 7.18 8.17 7.18 8.17 7.50 6.29 7.50 7.71 9.57 7.49 7.70 8.35 7.49 7.78 8.35 7.49 7.78 8.35 7.49 7.50 8.35 7.49 7.50 8.35 7.49 7.50 8.35 7.49 7.50 8.35 7.49 7.50 7.50 7.74 7.60 8.37 7.49 7.50 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.7	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.1 18.3 5.5 14.1 17 6.1 19.2 13.5	110 110 110 10 212 212 166 242 244 196 171 199 306 337 540 435 216 278 545 314 313 468 352 197 295
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 10/22/2009 5/18/2010 10/21/2010 10/21/2010 10/21/2010 10/21/2010 5/31/2011 8/24/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 5/33/2014 8/29/2013 10/17/2013 5/33/2014 8/21/2014 10/9/2014 5/21/2015 8/25/2015 10/20/2015 5/10/2016 9/8/2016	0.003   mg/L   0.0003   c 0.0003   c 0.0005   c 0.005   c 0.05	0.02  mg/L  < 0.005  < 0.005  < 0.005  0.008  0.020	mg/L     < 0.3     < 0.3     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     <	mg/L  < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 2 5 30 <1 28 19 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.90  7.70  7.40  8.20  6.90  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.55  7.59  7.65  7.69  7.66  7.80  7.70  7.66  7.80  7.70  7.66  7.80  7.71  7.66  7.80  7.71  7.66  7.80  7.71  7.66  7.80  7.71  7.66  7.80  7.71  7.66  7.80  7.70  7.93	** mg/L 54 50 44 37 55 48 88 49 43 195 47 102 84 67 123 109 74 122 88 160 120 96 160 140 140 140 140 149 155	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 0.0005	mg/L 126 116 102 109 134 154 155 201 187 150 223 516 161 232 213 177 301 587 199 292 260 320 210 250 420 340 370 410 370 200 310 400 330 388	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11 8 9 11 8 7 7 6 11 8 9 11 11 8 9 11 11 11 11 11 11 11 11 11	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.55 7.45 7.56 7.37 7.74 7.74 7.74 7.63 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.30 7.70 7.70 8.30 7.70 8.30 7.70 7.70 8.30 7.70 7.70 8.30 7.70 7.70 7.70 8.30 7.70 7.70 7.70 7.70 8.30 7.70 7.70 7.70 7.70 8.30 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.1 18.3 5.5 11.6 18.3 5.5 14.1 17 6.1 17 6.1 19.2 13.5 5.4	110 110 110 10 212 212 166 242 244 196 171 199 306 337 540 435 216 278 545 314 313 488 352 197 295 367 297
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 10/18/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 5/18/2010 10/24/2009 5/18/2010 8/25/2010 10/21/2010 5/31/2011 8/24/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 10/23/2012 10/23/2013 10/17/2013 8/29/2013 10/17/2013 8/29/2013 10/17/2014 8/21/2014 10/9/2014 5/21/2015 5/25/2015 10/20/2015 5/10/2016 9/8/2016	0.003   mg/L   0.0003   0.0003   0.0003   0.0005   0.0005   0.005   0.	0.02  mg/L  < 0.005  < 0.005  < 0.005  0.008  0.020	mg/L	mg/L  < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <11 2 2 2 5 30 <1 28 9 19 1 1 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.90  7.90  7.70  7.40  8.00  8.20  6.90  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.70  7.55  7.59  7.63  7.93  7.48  7.74  7.90	* mg/L 54 50 44 37 55 48 88 49 98 195 47 102 84 67 123 109 74 122 111 100 130 72 88 160 96 160 75 110 140 129	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.062	NH3-N 0.02 0.02 mg/L <0.0005 0.0005	mg/L  126  116  102  109  134  154  155  201  187  150  223  516  161  232  213  177  301  587  199  292  260  320  210  250  420  340  270  410  370  200  310  400  330	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001	mg/L 9 13 111 9 6 12 13 7 5 7 6 111 8 9 111 8 5 7 7 6 10 8 7 9 8 5 7 9 9 6 6 6	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.55 7.37 7.74 7.63 7.37 7.74 7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 8.19 7.50 7.74 7.70 7.70 7.74 7.74 7.70 7.70 7.7	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.1 4.3 5.3 18 18.3 5.5 14.1 17 6.1 9.2 13.5 5.4	110 110 110 10 212 212 166 242 244 196 171 199 306 337 540 435 216 278 545 314 313 468 352 197 295 367
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2009 10/24/2008 8/20/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2009 5/18/2010 10/21/2009 5/18/2010 10/21/2010 5/31/2011 5/18/2012 10/23/2012 10/23/2012 10/23/2012 5/24/2013 8/29/2013 10/17/2013 5/23/2014 8/21/2014 10/9/2014 5/21/2015 8/25/2015 10/20/2015 5/10/2016 9/8/2016 11/1/2016 11/18/2016	0.003  mg/L 0.0003  <0.0005 <0.0005 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02  mg/L  < 0.005  < 0.005  < 0.005  0.008  0.020	mg/L     < 0.3     < 0.3     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     <	mg/L  < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 2 5 30 <1 28 19 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.90  7.70  7.40  8.20  6.90  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.55  7.59  7.65  7.69  7.66  7.80  7.70  7.66  7.80  7.70  7.66  7.80  7.71  7.66  7.80  7.71  7.66  7.80  7.71  7.66  7.80  7.71  7.66  7.80  7.71  7.66  7.80  7.70  7.93	** mg/L 54 50 44 37 55 48 88 49 43 195 47 102 84 67 123 109 74 122 88 160 120 96 160 140 140 140 140 149 155	mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.062 <0.05 <0.063 <0.086 <0.044 <0.02	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 116 102 109 134 154 155 201 187 150 223 516 161 232 213 177 301 587 199 292 260 320 210 250 420 340 370 410 370 200 310 400 330 388	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11 8 9 11 8 7 7 6 11 8 9 11 11 8 9 11 11 11 11 11 11 11 11 11	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.55 7.45 7.56 7.37 7.74 7.74 7.74 7.63 8.17 7.18 8.19 7.66 6.29 7.50 7.71 9.57 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.30 7.70 7.70 8.30 7.70 8.30 7.70 7.70 8.30 7.70 7.70 8.30 7.70 7.70 7.70 8.30 7.70 7.70 7.70 7.70 8.30 7.70 7.70 7.70 7.70 8.30 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.1 18.3 5.5 11.6 18.3 5.5 14.1 17 6.1 17 6.1 19.2 13.5 5.4	110 110 110 10 10 212 212 166 242 244 196 171 199 306 337 540 435 216 278 545 314 313 488 352 197 295 367 297
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 5/19/2009 10/22/2009 5/18/2010 10/21/2010 5/31/2011 10/25/2011 10/25/2011 5/31/2011	0.003  mg/L 0.0003  <0.0005 <0.0005 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02  mg/L  < 0.005  < 0.005  < 0.005  0.008  0.020	mg/L	mg/L  < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 2 5 30 <1 28 19 41 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.90  7.70  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.55  7.59  7.66  7.80  7.70  7.66  7.80  7.70  7.66  7.80  7.71  7.66  7.80  7.71  7.66  7.80  7.71  7.66  7.80  7.71  7.66  7.80  7.71  7.66  7.80  7.71  7.66  8.80  7.71  7.96  8.02	**  mg/L  54  50  44  37  55  48  48  26  88  49  195  47  102  84  67  123  109  74  122  111  100  130  72  88  160  160  140  75  110  140  129  155  186	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 0.02 mg/L <0.0005 0.0005	mg/L 126 116 102 109 134 154 155 201 187 150 223 516 161 232 213 1777 301 587 199 292 260 320 210 250 420 340 270 410 310 400 330 388 467	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001   0.005  < 0.001   0.006  0.009  < 0.001  < 0.001  0.0001  0.0001  0.0001  0.0001  0.0001  0.0001	mg/L 9 13 11 9 6 12 13 7 7 6 11 8 9 11 8 5 7 7 6 10 8 7 7 6 10 8 7 7 7 6 10 10 10 10 10 10 10 10 10 10	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.56 7.37 7.74 7.74 7.74 7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.57 7.49 7.70 7.80 8.35 7.49 7.80 8.35 7.49 7.80 8.35 7.49 7.80 8.35 7.49 7.70 7.80 8.35 7.49 7.70 7.80 8.35 7.49 7.70 7.80 8.35 7.49 7.70 7.80 8.35 7.70 7.70 7.80 8.35 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.7	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18 18.3 18 18 18 19.3 11.6 18.3 15.5 14.1 17 6.1 19.2 13.5 5.4	110 110 110 10 10 212 212 244 196 171 199 306 337 540 435 216 278 545 314 313 468 352 197 295 367 297
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 10/18/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 5/18/2010 8/25/2010 10/21/2010 8/25/2011 10/21/2010 5/31/2011 8/24/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 10/23/2012 5/24/2013 8/29/2013 10/17/2013 5/23/2014 8/21/2014 10/9/2014 5/21/2015 5/25/2015 10/20/2015 5/10/2016 9/8/2016 11/18/2016	0.003   mg/L   0.0003   0.0003   0.0003   0.0005   0.0005   0.005   0.0002   0.0002	0.02  mg/L  < 0.005  < 0.005  < 0.005  0.008  0.020	mg/L     < 0.3     < 0.3     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     <	mg/L  < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 2 5 30 <1 28 19 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.90  7.70  7.40  8.20  6.90  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.55  7.59  7.65  7.69  7.66  7.80  7.70  7.66  7.80  7.70  7.66  7.80  7.71  7.66  7.80  7.71  7.66  7.80  7.71  7.66  7.80  7.71  7.66  7.80  7.71  7.66  7.80  7.70  7.93	** mg/L 54 50 44 37 55 48 88 49 43 195 47 102 84 67 123 109 74 122 88 160 120 96 160 140 140 140 140 149 155	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.062 < 0.05 < 0.062 < 0.063  0.086  0.044 < 0.02  0.081	NH3-N 0.02 0.02 mg/L <0.0005 0.0005	mg/L 126 116 102 109 134 154 155 201 187 150 223 516 161 232 213 177 301 587 199 292 260 320 210 250 420 340 370 410 370 200 310 400 330 388	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11 8 5 7 7 6 10 8 7 7 6 11 8 9 9 11 11 11 11 11 11 11 11	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.74 7.63 7.37 7.74 7.74 7.74 7.74 7.74 7.74 7.80 8.17 7.70 9.57 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 7.80 8.35 7.40 8.35 7.40 7.70 7.80 8.35 7.40 7.70 7.80 7.70 7.70 7.70 7.70 7.70 7.7	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.3 5.3 11.6 18.3 5.5 14.1 17 6.1 17 6.1 13.5 5.4 11	110 110 110 10 212 212 166 242 244 196 171 199 306 337 540 435 216 278 545 314 313 468 352 197 295 367 297
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/15/2007 10/18/2008 8/20/2008 10/24/2008 5/19/2009 10/22/2009 5/18/2010 10/21/2010 8/25/2010 10/21/2010 5/31/2011 8/24/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 10/23/2012 10/23/2012 5/24/2013 8/29/2013 10/17/2013 5/23/2014 8/21/2014 10/9/2014 5/21/2015 5/21/2015 5/21/2015 5/10/2016 9/8/2016 11/18/2016 11/18/2016 11/18/2016 11/18/2016 11/18/2016 11/18/2016 11/18/2016 11/18/2017 Duplicae 5/17/2017 Duplicae	0.003   mg/L   0.0003   0.0003   0.00003   0.00005   0.0005   0.0002   0.00002   0.00002   0.00002   0.00002   0.00002   0.00002   0.00002   0.00002   0.000002   0.000002   0.000002   0.0000000000	0.02  mg/L  < 0.005  < 0.005  < 0.005  0.008  0.020	mg/L	mg/L  < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 5.3 <1 2 2 2 5 30 <1 28 19 41 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.00  7.70  7.40  8.00  8.20  6.90  7.40  7.55  7.59  7.63  7.93  7.93  7.93  7.94  7.74  7.37  7.66  6.88  7.77  7.64  6.88  7.71  7.64  6.88  7.74  7.90  7.96  8.02	**  mg/L  54  50  44  37  55  48  26  88  49  43  98  195  47  102  31  100  130  72  111  100  130  72  111  100  130  72  111  100  120  96  160  140  75  110  140  129  155  186	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.006 < 0.005 < 0.006 < 0.005 < 0.006 < 0.005 < 0.008 < 0.005 < 0.008 < 0.005 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 116 102 109 134 154 1552 201 187 150 223 516 161 161 232 213 177 301 587 199 292 292 260 320 210 250 420 340 270 410 370 200 310 400 330 388 467	0.001  mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 9 13 111 9 6 12 13 7 5 7 6 111 8 9 111 8 5 7 7 6 10 8 7 9 9 9 9 10 10	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.56 7.37 7.74 7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 8.19 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 7.80 8.35 7.49 7.70 7.80 7.70 7.80 7.70 7.70 7.70 7.70	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.1 4.3 5.3 11.6 18.3 5.5 14.1 17 6.1 9.2 13.5 5.4 11 5.7	110 110 110 10 212 212 166 242 244 196 171 199 306 337 540 435 216 278 545 314 313 468 352 197 295 367 297
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2009 8/20/2008 10/24/2008 10/24/2008 5/19/2009 5/18/2010 10/22/2009 5/18/2010 10/22/2009 5/18/2010 10/21/2010 5/31/2011 5/31/2011 10/25/2011 10/25/2011 5/18/2012 8/30/2012 10/33/2012 5/24/2013 8/29/2013 10/17/2013 5/23/2014 8/21/2014 10/9/2014 5/21/2015 5/10/2016 9/8/2016 11/18/2016 11/18/2016 11/18/2016 11/18/2016 5/17/2017 5/17/2017 5/17/2017 5/17/2017	0.003   mg/L   0.0003   c.0.0003   c.0.0005   c.0.005   c.0.05   c.0.0002	0.02  mg/L  < 0.005  < 0.005  < 0.005  < 0.005  0.008  0.020  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01  <0.01	mg/L	mg/L  < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 3.0 15.3 <1 2 2 2 5 30 <1 28 19 41 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.90  7.70  7.40  8.00  8.20  6.90  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.55  7.59  7.63  7.93  7.48  7.74  7.66  7.80  7.70  7.46  6.88  7.31  7.74  7.90  7.96  8.02	**  mg/L  54  50  44  37  55  48  48  26  88  49  195  47  102  84  67  123  109  74  122  111  100  130  72  88  160  160  140  175  110  140  140  155  186	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.062 < 0.063  0.086  0.096	NH3-N 0.02 0.02 mg/L <0.0005 0.0005	mg/L  126  116  119  109  134  154  155  201  187  150  223  516  233  516  233  517  301  587  199  292  260  320  210  250  420  340  270  410  330  388  467	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001   0.003  0.005  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11 8 5 7 7 6 10 8 8 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.56 7.37 7.74 7.74 7.73 8.17 7.66 6.29 7.50 7.71 9.57 7.49 7.70 9.57 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 7.70 7.70 8.35 7.49 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.7	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.1 18.1 18.1 19.2 13.5 5.5 14.1 17 6.1 17 6.1 19.2 13.5 5.7	110 110 110 10 212 212 244 196 171 199 306 337 540 435 216 278 545 314 313 468 352 197 295 367 297 290
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/15/2007 10/18/2008 8/20/2008 10/24/2008 5/19/2009 10/22/2009 5/18/2010 10/21/2010 8/25/2010 10/21/2010 5/31/2011 8/24/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 10/23/2012 10/23/2012 5/24/2013 8/29/2013 10/17/2013 5/23/2014 8/21/2014 10/9/2014 5/21/2015 5/21/2015 5/21/2015 5/10/2016 9/8/2016 11/18/2016 11/18/2016 11/18/2016 11/18/2016 11/18/2016 11/18/2016 11/18/2016 11/18/2017 Duplicae 5/17/2017 Duplicae	0.003   mg/L   0.0003   c.0.0003   c.0.0005   c.0.005   c.0.05   c.0.0002	0.02  mg/L  < 0.005  < 0.005  < 0.005  0.008  0.020	mg/L     < 0.3     < 0.3     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     <	mg/L  < 0.2  < 0.2  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1    0.10  0.20°	mg/L 3.0 15.3 <1 5.3 <1 2 2 2 5 30 <1 28 19 41 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.00  7.70  7.40  8.00  8.20  6.90  7.40  7.55  7.59  7.63  7.93  7.93  7.93  7.94  7.74  7.37  7.66  6.88  7.77  7.64  6.88  7.71  7.64  6.88  7.74  7.90  7.96  8.02	**  mg/L  54  50  44  37  55  48  26  88  49  43  98  195  47  102  31  100  130  72  111  100  130  72  111  100  130  72  111  100  120  96  160  140  75  110  140  129  155  186	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.006 < 0.005 < 0.006 < 0.005 < 0.006 < 0.005 < 0.008 < 0.005 < 0.008 < 0.005 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008 < 0.008	NH3-N 0.02 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 126 116 102 109 134 154 1552 201 187 150 223 516 161 161 232 213 177 301 587 199 292 292 260 320 210 250 420 340 270 410 370 200 310 400 330 388 467	0.001  mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 9 13 111 9 6 12 13 7 5 7 6 111 8 9 111 8 5 7 7 6 10 8 7 9 9 9 9 10 10	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.56 7.37 7.74 7.63 7.30 8.17 7.18 8.19 7.66 6.29 7.50 7.71 8.19 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 7.80 8.35 7.49 7.70 7.80 7.70 7.80 7.70 7.70 7.70 7.70	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.1 4.3 5.3 11.6 18.3 5.5 14.1 17 6.1 9.2 13.5 5.4 11 5.7	110 110 110 10 212 212 166 242 244 196 171 199 306 337 540 435 216 278 545 314 313 468 352 197 295 367 297
PWQO - Trigger - Units -  8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2007 10/18/2009 8/20/2008 10/24/2008 10/24/2008 5/19/2009 5/18/2010 10/22/2009 5/18/2010 10/22/2009 5/18/2010 10/21/2010 5/31/2011 5/31/2011 10/25/2011 10/25/2011 5/18/2012 8/30/2012 10/33/2012 5/24/2013 8/29/2013 10/17/2013 5/23/2014 8/21/2014 10/9/2014 5/21/2015 5/10/2016 9/8/2016 11/18/2016 11/18/2016 11/18/2016 11/18/2016 5/17/2017 5/17/2017 5/17/2017 5/17/2017	0.003   mg/L   0.0003   c.0.0003   c.0.0005   c.0.005   c.0.05   c.0.0002	0.02  mg/L  < 0.005  < 0.005  < 0.005  0.008  0.020	mg/L     < 0.3     < 0.3     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     < 0.01     <	mg/L  < 0.2  < 0.2  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1    0.10  0.20°	mg/L 3.0 15.3 <1 2 2 2 5 30 <1 28 19 41 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5  n/a  7.55  7.56  7.57  7.40  7.50  7.80  7.90  7.70  7.40  8.00  8.20  6.90  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.40  7.55  7.59  7.63  7.93  7.48  7.74  7.66  7.80  7.70  7.46  6.88  7.31  7.74  7.90  7.96  8.02	**  mg/L  54  50  44  37  55  48  26  88  49  43  195  47  102  84  67  123  109  74  122  88  160  140  138  138	mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.06 < 0.05 < 0.06 < 0.05 < 0.06 < 0.05 < 0.06 < 0.05 < 0.06 < 0.06 < 0.073   0.088   0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.096 < 0.036 < 0.044 < 0.02 < 0.02 < 0.081 < 0.081	NH3-N 0.02 0.02 mg/L <0.0005 0.0005	mg/L 126 116 102 109 134 154 1552 201 187 150 223 516 161 161 232 213 177 301 587 199 292 260 320 210 250 420 340 270 410 370 400 310 400 310 400 3388 467	0.001  mg/L  0.002  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001  < 0.001   0.003  0.005  < 0.001  0.006  0.001  0.007  0.001	mg/L 9 13 11 9 6 12 13 7 5 7 6 11 8 9 11 8 5 7 7 6 10 8 8 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9	5.20 6.00 3.90 6.20 6.90 7.42 6.77 7.55 7.04 7.53 7.45 7.56 7.37 7.74 7.74 7.73 8.17 7.66 6.29 7.50 7.71 9.57 7.49 7.70 9.57 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 8.35 7.49 7.70 7.70 7.70 8.35 7.49 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.7	22.1 14.2 7.1 16.4 18.3 7.5 12.1 16.7 11.4 8 22.9 7.3 n/a 18.1 4 17 18.6 6.7 11.4 18.1 18.1 18.1 19.2 13.5 5.5 14.1 17 6.1 17 6.1 19.2 13.5 5.7	110 110 110 10 212 212 244 196 171 199 306 337 540 435 216 278 545 314 313 468 352 197 295 367 297 290

Bold denotes exceedance of PWQO (1994) criteria NA - Not Analyzed Underline indicates exceedance of Trigger Criteria

\*Nitrate plus Nitrite

Param	otor	As	В	Ва	Cd	Cr	Cu	Eo	Hg	TDS	TKN	Total P	COD	BOD	TSS	CI-
PWQO -	leter -	0.1	0.2	Ба	0.0001	0.1	0.005	<b>Fe</b> 0.3	0.0002	103	INN	0.03	СОБ	БОР	133	CI-
Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
8/3/2005		0.0012	< 0.01	0.016	< 0.0001	< 0.005	0.0025	1.1			1.4	0.14	86	< 2	21	2
9/2/2005		< 0.0001	0.011	0.017	< 0.0001	< 0.005	0.002	1.9	< 0.0001	92	1.9	0.18	73	9	10	2
10/21/2005 5/16/2006		< 0.001	0.017	0.016	< 0.0001	< 0.005	< 0.001	0.55 12	< 0.0001	126 22	1.1 1.6	0.02 0.14	76 91	2 < 2	14 110	7 2
5/15/2007								0.72		32	3	0.14	85	<2	8	1
8/15/2007		<0.2	<0.02	0.04	<0.005	<0.01	<0.02	12	<0.0001	62	18	2.10	320	4.0	1100	<10
10/18/2007		<0.2	<0.02	0.03	<0.005	<0.01	<0.02	0.13	<0.0001	47	2.1	0.08	82	<2	1	2
5/21/2008		0.0	0.00		0.005	0.05		1.7	0.0004	440	1	0.05	66	<2	<1	1
8/20/2008 5/19/2009		<0.2	0.02	0.44	<0.005	0.05	0.06	7.7 0.76	<0.0001	110	40 1.1	3.00 0.03	1000 78	12 3	6400 4	<1 <1
8/18/2009		<0.2	<0.02	0.03	<0.005	<0.01	<0.02	1.5	<0.0001	60	1.5	0.03	91	2	16	<1
10/22/2009		<0.2	<0.02	<0.03	<0.005	<0.01	<0.02	2.1	<0.0001	35	1.3	0.06	76	<2	3	<1
5/18/2010								5.7			4.3	0.67	190	2	95	1
8/25/2010		<0.2	<0.02	<0.02	<0.005	<0.01	<0.02	9.1	<0.0001	46	1.7	0.097	110	3	21	2
10/21/2010 5/31/2011		<0.2	<0.02	<0.02	<0.005	<0.01	<0.02	1.5 2.1	<0.0001	36	1.0 2.6	0.035 0.190	60 110	<2 <2	43 5	1
8/24/2011		<0.2	<0.02	0.03	<0.005	<0.01	<0.02	12	<0.0001	80	3.0	0.360	120	7	25	2
10/25/2011		<0.2	<0.02	<0.02	<0.005	<0.01	<0.02	0.86	<0.0001	58	1.3	0.058	52	<2	15	<1
5/18/2012								3.7			3.5	0.038	150	18	84	2
8/30/2012	Dry															
10/23/2012 5/24/2013		<0.2	<0.02	<0.02	<0.005	<0.01	<0.02	1.5 1.2	<0.0001	122	1.5 1.5	0.032 0.070	84 76	<2	<1 4	1
8/29/2013								1.2			1.3	0.070	76	<2	4	1
10/17/2013		<0.2	<0.02	0.065	<0.005	<0.01	<0.02	7.3	<0.0001	132	4.4	0.340	220	3	190	2
5/23/2014								1.7			1.4	0.250	67	3	26	2
8/21/2014	Dry															
10/9/2014 5/21/2015		<0.2	<0.02	0.025	<0.005	<0.01	<0.02	2.3 1.6	<0.0001	118	1.3 1.2	0.056 0.200	80 110	2 <2	6 87	1
8/25/2015		<0.2	<0.02	0.021	<0.005	<0.01	<0.02	1.0	<0.0001	122	1.2	0.200	85	<2	<1	1.6
10/20/2015		<0.2	<0.02	0.058	<0.005	<0.01	<0.02	8	<0.0001	126	1.00	0.400	210	<2	180	1
5/10/2016								1.7			1.17	0.097	84		17	2.2
9/8/2016		0.0006	< 0.05	0.014	<0.00001	0.0017	0.004	0.96	<0.00001	68	1.43	0.083	98	<6	74	3
11/1/2016		0.0003	<0.05	0.015	<0.00001	0.0011	0.003	0.45	<0.00001	24	1.68 1.30	0.149	113	<6	109	2.7
5/17/2017 8/29/2017		0.0007	<0.02 <0.02	0.013	<0.00002	<0.001	0.001	1.60 1.90	0.000004	66	1.50	0.084 0.018	95 97	9.0 NA	31.3 38.5	<0.5 0.53
10/24/2017		0.0007	<0.02	0.014	<0.00002	0.0014	0.002	0.90	0.000007	94	1.20	0.080	88	12.0	47	0.65
										Unionized						
Param	neter -	Pb	Zn	NO2-N	NO3-N	SO4	pH	alk42	NH3-N	NH3-N	Cond.	Phenois	DO	Field pH	Field T	Field Cond
PWQO -	neter -	0.003	0.02				6.5 - 8.5	*		<b>NH3-N</b> 0.02		0.001		Field pH	Field T	Field Cond
PWQO - Units -	neter -	0.003 mg/L	0.02 mg/L	mg/L	mg/L	SO4 mg/L 4	6.5 - 8.5 n/a	* mg/L	mg/L	NH3-N	mg/L		mg/L	Field pH		
PWQO -		0.003	0.02			mg/L	6.5 - 8.5	*		NH3-N 0.02 mg/L		0.001 mg/L	mg/L		19.4 13.1	Field Cond  90 70
PWQO - Units - 8/3/2005 9/2/2005 10/21/2005		0.003 mg/L 0.0007	0.02 mg/L 0.022	mg/L < 0.3 < 0.3 < 0.01	mg/L < 0.2 < 0.2 < 0.1	mg/L 4	6.5 - 8.5 n/a 7.10 6.95 7.45	* mg/L 40.6 36.1 43	mg/L < 0.05 < 0.05 0.05	NH3-N 0.02 mg/L <0.0005 <0.0005 0.00021	mg/L 86 92 103	0.001 mg/L 0.002 < 0.001 < 0.001	mg/L 6 10	4.40 5.20 4.00	19.4 13.1 7.3	90
PWQO - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006		0.003 mg/L 0.0007 < 0.0005 < 0.0005	0.02 mg/L 0.022 0.0067 0.005	mg/L < 0.3 < 0.3 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1	mg/L 4 15.6 < 1	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10	* mg/L 40.6 36.1 43 25	mg/L < 0.05 < 0.05 0.05 < 0.05	NH3-N 0.02 mg/L <0.0005 <0.0005 0.00021 <0.0005	mg/L 86 92 103 55	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001	mg/L 6 10 12	4.40 5.20 4.00 6.60	19.4 13.1 7.3 17.5	90 70 10
PWQO - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/15/2007		0.003 mg/L 0.0007 < 0.0005 < 0.0005	0.02 mg/L 0.022 0.0067 0.005	mg/L < 0.3 < 0.3 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1	mg/L 4 15.6 < 1	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 7.20	* mg/L 40.6 36.1 43 25 43	mg/L < 0.05 < 0.05 0.05 < 0.05 0.27	NH3-N 0.02 mg/L <0.0005 <0.0005 0.00021 <0.0005 0.00114	mg/L 86 92 103 55 90	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001 0.003	mg/L 6 10 12 12 6	4.40 5.20 4.00 6.60 6.79	19.4 13.1 7.3 17.5 14.7	90 70
PWQO - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/15/2007 10/18/2007		0.003 mg/L 0.0007 < 0.0005 < 0.0005	0.02 mg/L 0.022 0.0067 0.005	mg/L < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 4 15.6 < 1	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 7.20 7.00	* mg/L 40.6 36.1 43 25 43	mg/L < 0.05 < 0.05 0.05 < 0.05 0.27 <0.05	NH3-N 0.02 mg/L <0.0005 <0.0005 0.00021 <0.0005 0.00114 <0.0005	mg/L 86 92 103 55 90 75	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001 0.003 <0.001	mg/L 6 10 12 12 6 5	4.40 5.20 4.00 6.60 6.79 6.12	19.4 13.1 7.3 17.5 14.7	90 70 10
PWQO - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/15/2007		0.003 mg/L 0.0007 < 0.0005 < 0.0005	0.02 mg/L 0.022 0.0067 0.005	mg/L < 0.3 < 0.3 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1	mg/L 4 15.6 < 1	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 7.20	* mg/L 40.6 36.1 43 25 43	mg/L < 0.05 < 0.05 0.05 < 0.05 0.27	NH3-N 0.02 mg/L <0.0005 <0.0005 0.00021 <0.0005 0.00114	mg/L 86 92 103 55 90	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001 0.003	mg/L 6 10 12 12 6	4.40 5.20 4.00 6.60 6.79	19.4 13.1 7.3 17.5 14.7	90 70 10
PWQO - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008		0.003 mg/L 0.0007 < 0.0005 < 0.0005 <0.05 <0.05	0.02 mg/L 0.022 0.0067 0.005	mg/L < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 0.01 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 4 15.6 < 1 < 1 13 1	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 7.20 7.00 6.70 7.30 6.90	* mg/L 40.6 36.1 43 25 43 17 9 83 17	mg/L < 0.05 < 0.05 0.05 < 0.05 0.27 < 0.05 < 0.05 0.41 < 0.05	NH3-N 0.02 mg/L <0.0005 0.00021 <0.0005 0.00114 <0.0005 0.00015 0.0005 0.00363 <0.0005	mg/L 86 92 103 55 90 75 38 166 57	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001 0.003 < 0.001 0.008 < 0.001	mg/L 6 10 12 12 6 5 16 8	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.46 6.76	19.4 13.1 7.3 17.5 14.7 11 5.5	90 70 10 65
PWQO - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/15/2007 10/18/2007 5/21/2008 10/24/2008 5/19/2009		0.003 mg/L 0.0007 < 0.0005 < 0.0005 <0.05 <0.05	0.02 mg/L 0.022 0.0067 0.005 0.01 0.19 <0.02	mg/L < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.0 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 4 15.6 < 1 <1 13 1 < 1 < 1 < 1 < 1 < 1	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 7.20 7.00 6.70 7.30 6.90 6.60	* mg/L 40.6 36.1 43 25 43 17 9 83 17 9	mg/L < 0.05 < 0.05 0.05 < 0.05 0.27 <0.05 <0.05 0.41 <0.05 <0.05	NH3-N 0.02 mg/L <0.0005 0.00051 0.0005 0.00014 <0.0005 0.00114 <0.0005 0.0005 0.0005 <0.0005 <0.0005	mg/L 86 92 103 55 90 75 38 166 57	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001 0.003 <0.001 <0.001 0.008 <0.001	mg/L 6 10 12 12 6 5 16 8 9	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.76 6.91	19.4 13.1 7.3 17.5 14.7 11 5.5 21.7 6.7 n/a	90 70 10 65 50 58
PWQO - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/15/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2009		0.003 mg/L 0.0007 < 0.0005 < 0.0005 <0.005 <0.05 <0.05 <0.05	0.02 mg/L 0.022 0.0067 0.005 0.01 0.19 <0.02	mg/L < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 4 15.6 <1 13 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 7.20 7.00 6.70 7.30 6.90 6.60 6.70	* mg/L 40.6 36.1 43 25 43 17 9 83 17 9 43	mg/L < 0.05 < 0.05 0.05 0.05 < 0.05 0.27 < 0.05 0.41 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0005 <0.0005 0.00021 <0.0005 <0.00114 <0.0005 <0.0005 0.00363 <0.0005 <0.0005 <0.0005	mg/L 86 92 103 55 90 75 38 166 57 39 89	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 10 12 12 6 5 16 8 9	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.46 6.76 6.91 7.08	19.4 13.1 7.3 17.5 14.7 11 5.5 21.7 6.7 n/a 16.6	90 70 10 65 50 58 76
PWQO - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/15/2007 5/21/2008 8/20/2008 10/24/2008 8/18/2009 8/18/2009		0.003 mg/L 0.0007 < 0.0005 < 0.0005 <0.05 <0.05	0.02 mg/L 0.022 0.0067 0.005 0.01 0.19 <0.02	mg/L < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 4 15.6 <1 13 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 7.20 7.00 6.70 7.30 6.90 6.60 6.70 6.50	mg/L 40.6 36.1 43 25 43 17 9 83 17 9 43 23	mg/L < 0.05 < 0.05 < 0.05 0.05 < 0.05 < 0.05 0.27 < 0.05 < 0.05 < 0.05 < 0.05 0.41 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0005 <0.0005 0.00021 <0.0005 0.00114 <0.0005 <0.0005 0.00363 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 86 92 103 55 90 75 38 166 57 39 89 54	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 10 12 12 6 5 16 8 9 10 5	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.76 6.76 6.91 7.08 7.68	19.4 13.1 7.3 17.5 14.7 11 5.5 21.7 6.7 n/a 16.6 3.2	90 70 10 65 50 58 76 48
PWQO - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/15/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2009		0.003 mg/L 0.0007 < 0.0005 < 0.0005 <0.005 <0.05 <0.05 <0.05	0.02 mg/L 0.022 0.0067 0.005 0.01 0.19 <0.02	mg/L < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 4 15.6 <1 13 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 7.20 7.00 6.70 7.30 6.90 6.60 6.70	* mg/L 40.6 36.1 43 25 43 17 9 83 17 9 43	mg/L < 0.05 < 0.05 0.05 0.05 < 0.05 0.27 < 0.05 0.41 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0005 <0.0005 0.00021 <0.0005 <0.00114 <0.0005 <0.0005 0.00363 <0.0005 <0.0005 <0.0005	mg/L 86 92 103 55 90 75 38 166 57 39 89	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 10 12 12 6 5 16 8 9	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.46 6.76 6.91 7.08	19.4 13.1 7.3 17.5 14.7 11 5.5 21.7 6.7 n/a 16.6	90 70 10 65 50 58 76
PWQO - Units - 8/3/2005 9/2/2005 5/16/2006 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 10/22/2009 5/18/2010 8/25/2010		0.003 mg/L 0.0007 < 0.0005 < 0.0005 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L 0.022 0.0067 0.005 0.02 0.01 0.19 <0.02 <0.02	mg/L < 0.3 < 0.3 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 4 15.6 <1 13 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 7.20 6.70 7.30 6.90 6.60 6.70 6.50 6.70 6.70 6.70	mg/L 40.6 36.1 43 25 43 17 9 83 17 9 43 23 6 34 28	mg/L < 0.05 < 0.05 0.05 0.05 0.05 0.27 < 0.05 0.27 < 0.05 < 0.05 < 0.05 0.41 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0005 0.0005 0.00021 <0.0005 0.00114 <0.0005 0.00363 0.00363 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L  86 92 103 55 90 75 38 166 57 39 89 54 43 75 59	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001  0.008 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 6 10 12 12 6 5 16 8 9 10 5 7	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.46 6.76 6.91 7.08 7.68 7.25 6.30 8.48	19.4 13.1 7.3 17.5 14.7 11 5.5 21.7 6.7 n/a 16.6 3.2 16.3 16.5 6.8	90 70 10 65 50 58 76 48 41
PWQO - Units - 8/3/2005 9/2/2005 5/16/2006 8/15/2007 5/21/2008 8/20/2008 10/24/2008 8/20/2008 10/24/2009 5/18/2010 8/25/2010 8/25/2010 5/31/2011		0.003 mg/L 0.0007 < 0.0005 < 0.005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05	0.02 mg/L 0.022 0.0067 0.005 0.001 0.019 <0.002 <0.002 <0.001 <0.001	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L  4  15.6  <1  13  1  <1  <1  <1  <1  <1  <1  <1	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 7.20 6.70 7.30 6.90 6.60 6.70 6.50 6.00 6.70 6.50 6.00 6.79	mg/L 40.6 36.1 43 25 43 17 9 83 17 9 43 23 6 34 28	mg/L < 0.05 < 0.05 0.05 0.05 0.05 0.07 0.05 0.07 0.05 0.07 0.05 0.07 0.05 0.07 0.05	NH3-N 0.02 mg/L <0.0005 <0.0005 0.00021 <0.0005 0.00114 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.00005 0.00005 0.00005 0.00005	mg/L 86 92 103 55 90 75 38 166 57 39 89 54 43 75 59 35	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001  0.008 < 0.001  0.001 < 0.001  0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 10 12 6 5 16 8 9 10 5 7 10	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.46 6.76 6.91 7.08 7.68 7.25 6.30 8.48 6.87	19.4 13.1 7.3 17.5 14.7 11 5.5 21.7 6.7 n/a 16.6 3.2 16.3 16.5 6.8	90 70 10 65 50 58 76 48 41
PWQO - Units - 8/3/2005 9/2/2005 10/21/2005 5/16/2006 8/15/2007 10/18/2008 8/20/2008 10/24/2008 5/19/2009 5/18/2010 8/25/2010 10/21/2010 8/25/2010 10/21/2010		0.003 mg/L 0.0007 <0.0005 <0.0005 <0.005 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L 0.022 0.0067 0.0067 0.005 0.01 0.19 <0.02 <0.02 <0.01 <0.01 <0.01 <0.01	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L  4 15.6 <1 <1 13 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 7.20 7.00 6.70 7.30 6.90 6.60 6.70 6.	mg/L 40.6 36.1 43 25 43 17 9 83 17 9 43 23 6 34 28 9	mg/L < 0.05 < 0.05 0.05 0.05 0.05 0.27 < 0.05 0.41 < 0.05 < 0.05 0.07 < 0.05 0.07 < 0.05 0.07	NH3-N 0.02 mg/L <0.0005 <0.0005 0.00021 <0.0005 0.00114 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	mg/L  86 92 103 55 90 75 38 166 57 39 54 43 75 59 35 104	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 10 12 12 6 5 16 8 9 10 5 7 10 13 7 6 3	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.46 6.76 6.91 7.08 7.68 7.25 6.30 8.48 6.87 7.43	19.4 13.1 7.3 17.5 14.7 11 5.5 21.7 6.7 n/a 16.6 3.2 16.3 16.5 6.8 13	90 70 10 65 50 58 76 48 41 80 34
PWQO - Units - 8/3/2005 9/2/2005 5/16/2006 8/15/2007 5/21/2008 8/20/2008 10/24/2008 8/20/2008 10/24/2009 5/18/2010 8/25/2010 8/25/2010 5/31/2011		0.003 mg/L 0.0007 < 0.0005 < 0.005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05	0.02 mg/L 0.022 0.0067 0.005 0.001 0.019 <0.002 <0.002 <0.001 <0.001	mg/L < 0.3 < 0.3 < 0.01 < 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L  4  15.6  <1  13  1  <1  <1  <1  <1  <1  <1  <1	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 7.20 7.00 6.70 7.30 6.60 6.70 6.50 6.70 6.70 6.70 6.70 6.70 6.70 6.70 6.70	mg/L 40.6 36.1 43 25 43 17 9 83 17 9 43 23 6 34 28	mg/L < 0.05 < 0.05 < 0.05 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0005 <0.0005 0.00021 <0.0005 0.00114 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 86 92 103 55 90 75 38 166 57 39 89 54 43 75 59 35 104 84	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001  0.008 < 0.001  0.001 < 0.001  0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 10 12 6 5 16 8 9 10 5 7 10	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.46 6.76 6.91 7.08 7.68 7.25 6.30 8.48 6.87 7.43	19.4 13.1 7.3 17.5 14.7 11 5.5 21.7 6.7 n/a 16.6 3.2 16.3 16.5 6.8 13 17.9 2.8	90 70 10 65 50 58 76 48 41
PWQO - Units - 18/3/2005 9/2/2005 5/16/2006 5/16/2006 8/15/2007 10/18/2007 5/21/2008 8/20/2008 5/19/2009 8/18/2009 10/22/2009 5/18/2010 10/21/2010 5/31/2011 10/25/2011		0.003 mg/L 0.0007 <0.0005 <0.0005 <0.005 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L 0.022 0.0067 0.0067 0.005 0.01 0.19 <0.02 <0.02 <0.01 <0.01 <0.01 <0.01	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 4 15.6 <1 13 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 7.20 7.00 6.70 7.30 6.90 6.60 6.70 6.	mg/L 40.6 36.1 43 25 43 17 9 83 17 9 43 23 6 34 28 9 40	mg/L < 0.05 < 0.05 0.05 0.05 0.05 0.27 < 0.05 0.41 < 0.05 < 0.05 0.07 < 0.05 0.07 < 0.05 0.07	NH3-N 0.02 mg/L <0.0005 <0.0005 0.00021 <0.0005 0.00114 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.0005 0.0005 0.0005 0.0005 0.0005	mg/L  86 92 103 55 90 75 38 166 57 39 54 43 75 59 35 104	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 10 12 12 6 5 16 8 9 10 5 7 10 13 7 6 3 10	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.46 6.76 6.91 7.08 7.68 7.25 6.30 8.48 6.87 7.43	19.4 13.1 7.3 17.5 14.7 11 5.5 21.7 6.7 n/a 16.6 3.2 16.3 16.5 6.8 13	90 70 10 65 50 58 76 48 41 80 34 100 97
PWQO - Units - 8/3/2005 9/2/2005 5/16/2006 8/15/2007 10/18/2007 5/21/2008 8/20/2008 8/20/2008 5/19/2009 8/18/2009 10/22/2009 5/18/2010 10/21/2010 10/21/2010 8/25/2010 10/25/2011 5/18/2012 8/30/2012 8/30/2012	Dry	0.003 mg/L 0.0007 <0.0005 <0.0005 <0.005 <0.005 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	0.02 mg/L 0.022 0.0067 0.0067 0.005 0.01 0.19 <0.02 <0.02 <0.01 <0.01 <0.01 <0.01	mg/L < 0.3 < 0.3 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 4 15.6 <1 13 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 6.95 7.45 7.10 7.20 7.00 6.70 7.30 6.90 6.60 6.70 6.70 6.70 6.70 6.70 6.70 6.7	mg/L 40.6 36.1 43 25 43 17 9 83 17 9 43 23 6 6 34 28 9 40 15 26	mg/L < 0.05 < 0.05 < 0.05 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.07 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.07 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L <0.0005 <0.0005 0.00021 <0.0005 0.00114 <0.0005 0.0005 0.0005 0.0005 <0.0005 <0.0005 <0.0005 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.0005 0.0005 0.0005 0.0005	mg/L 86 92 103 55 90 75 38 166 57 39 89 54 43 75 59 35 104 84 84	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001   0.001 < 0.001   0.001   0.001   0.001   0.001   0.001   0.001   0.001   0.001   0.001   0.001   0.001   0.001   0.001   0.001   0.001	mg/L 6 10 12 12 6 5 16 8 9 10 5 7 10 13 7 6 3 10 11	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.46 6.76 6.91 7.08 7.68 7.25 6.30 8.48 6.87 7.43 6.94 6.50	19.4 13.1 7.3 17.5 14.7 11 5.5 21.7 n/a 16.6 3.2 16.3 16.5 6.8 13 17.9 2.8 24.7	90 70 10 65 50 58 76 48 41 80 34 100 97 99
PWQO - Units - 9/2/2005 9/2/2005 5/16/2006 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2009 10/22/2009 5/18/2010 10/21/2010 5/31/2011 5/31/2011 5/18/2012 8/30/2012 8/30/2012 5/18/2012	Dry	0.003 mg/L 0.0007 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.02 mg/L 0.022 0.0067 0.005 0.001 0.019 <0.002 <0.002 <0.001 <0.001 <0.001 <0.001	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L  4  15.6  <1  13  1  <1  <1  <1  <1  <1  <1  <1	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 7.20 6.70 7.30 6.70 6.50 6.70 6.70 6.70 6.70 6.70 6.70 6.70 6.7	mg/L 40.6 36.1 43 25 43 17 9 83 17 9 43 23 6 34 28 9 40 15 26	mg/L < 0.05 < 0.05 0.05 0.05 0.05 0.05 0.07 0.05 0.05	NH3-N 0.02 mg/L <0.0005 <0.0005 0.00021 <0.0005 0.00114 <0.0005 <0.0005 0.00363 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 86 92 103 55 90 75 38 166 57 39 89 54 43 75 59 35 104 84 84	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001  0.008 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 10 12 12 6 5 16 8 9 10 5 7 10 13 7 6 3 10 11	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.46 6.76 6.91 7.08 7.68 7.25 6.30 8.48 6.87 7.43 6.94 6.50	19.4 13.1 7.3 17.5 14.7 11 5.5 21.7 6.7 n/a 16.6 3.2 16.3 16.3 17.9 2.8 24.7	90 70 10 65 50 58 76 48 41 80 34 100 97 99
PWQO - Units - 8/3/2005 9/2/2005 5/16/2006 10/21/2005 5/16/2006 8/20/2008 10/24/2008 10/22/2009 8/18/2009 10/22/2009 5/19/2009 5/19/2009 5/19/2010 10/21/2010 5/31/2011 8/25/2010 5/18/2010 5/18/2010 5/31/2011 8/25/2010 5/18/2010 5/18/2010 5/31/2011 8/25/2010 5/31/2011 8/30/2012 8/30/2012	Dry	0.003 mg/L 0.0007 <0.0005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	0.02 mg/L 0.022 0.0067 0.005 0.002 0.01 0.19 <0.02 <0.02 <0.02 <0.01 <0.01 <0.01 <0.01	mg/L < 0.3 < 0.01 < 0.01 < 0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 4 15.6 <1 13.1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 7.20 6.70 7.30 6.70 6.70 6.50 6.70 6.70 6.70 6.70 6.70 6.70 6.70 6.7	mg/L 40.6 36.1 43 25 43 17 9 83 17 9 43 23 6 34 28 9 40 15 26	mg/L < 0.05 < 0.05 0.05 0.05 0.05 0.07 0.05 0.07 0.05 0.07 0.05 0.07 0.05 0.07 0.05 0.07 0.05 0.07	NH3-N 0.02 mg/L <0.0005 0.0005 0.00021 <0.0005 0.00114 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L  86 92 103 55 90 75 38 166 57 39 89 54 43 75 59 35 104 84 84	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.004 <0.001 0.009 0.0006	mg/L 6 10 12 12 6 5 16 8 9 10 5 7 10 13 7 6 3 10 11	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.46 6.76 6.91 7.08 7.68 7.25 6.30 8.48 6.87 7.43 6.94 6.50	19.4 13.1 7.3 17.5 14.7 11 5.5 21.7 6.7 n/a 16.6 3.2 16.3 17.9 2.8 24.7	90 70 10 65 50 58 76 48 41 80 34 100 97 99
PWQO - Units - 8/3/2005 9/2/2005 5/16/2006 8/15/2007 5/21/2008 8/20/2008 10/24/2008 8/20/2008 10/24/2009 8/18/2009 10/22/2009 5/18/2010 10/21/2010 5/31/2011 8/24/2011 10/25/2011 10/23/2012 5/30/2012 10/23/2012 10/23/2012	Dry Dry	0.003 mg/L 0.0007 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.02 mg/L 0.022 0.0067 0.005 0.001 0.019 <0.002 <0.002 <0.001 <0.001 <0.001 <0.001	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L  4  15.6  <1  13  1  <1  <1  <1  <1  <1  <1  <1	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 7.20 6.70 7.30 6.70 6.50 6.60 6.70 6.79 6.48 6.61 6.80 6.47 6.55 6.65	mg/L 40.6 36.1 43 25 43 17 9 83 17 9 43 23 6 34 28 9 40 15 26	mg/L < 0.05 < 0.05 0.05 0.05 0.05 0.01 0.05 0.05 0.01 0.05 0.05	NH3-N 0.02 mg/L <0.0005 <0.0005 0.00014 <0.0005 0.0005 0.0005 <0.0005 <0.0005 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 0.0005 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 86 92 103 55 90 75 38 166 57 39 89 54 43 75 59 35 104 84 84 59 37	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.002 0.006	mg/L 6 10 12 12 6 5 16 8 9 10 5 7 10 13 7 6 3 10 11 9 12	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.76 6.91 7.08 7.68 7.25 6.30 8.48 6.87 7.43 6.94 6.50	19.4 13.1 7.3 17.5 14.7 11 5.5 21.7 6.7 n/a 16.6 3.2 16.3 16.3 17.9 2.8 24.7 6.3 12.5	90 70 10 65 50 58 76 48 41 100 97 99
PWQO - Units - 8/3/2005 9/2/2005 5/16/2006 10/21/2005 5/16/2006 8/20/2008 10/24/2008 10/22/2009 8/18/2009 10/22/2009 5/19/2009 5/19/2009 5/19/2010 10/21/2010 5/31/2011 8/25/2010 5/18/2010 5/18/2010 5/31/2011 8/25/2010 5/18/2010 5/18/2010 5/31/2011 8/25/2010 5/31/2011 8/30/2012 8/30/2012	Dry Dry	0.003 mg/L 0.0007 <0.0005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	0.02 mg/L 0.022 0.0067 0.005 0.002 0.01 0.19 <0.02 <0.02 <0.02 <0.01 <0.01 <0.01 <0.01	mg/L < 0.3 < 0.01 < 0.01 < 0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 4 15.6 <1 13.1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 7.20 6.70 7.30 6.70 6.70 6.50 6.70 6.70 6.70 6.70 6.70 6.70 6.70 6.7	mg/L 40.6 36.1 43 25 43 17 9 83 17 9 43 23 6 34 28 9 40 15 26	mg/L < 0.05 < 0.05 0.05 0.05 0.05 0.07 0.05 0.07 0.05 0.07 0.05 0.07 0.05 0.07 0.05 0.07 0.05 0.07	NH3-N 0.02 mg/L <0.0005 0.0005 0.00021 <0.0005 0.00114 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L  86 92 103 55 90 75 38 166 57 39 89 54 43 75 59 35 104 84 84	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.004 <0.001 0.009 0.0006	mg/L 6 10 12 12 6 5 16 8 9 10 5 7 10 13 7 6 3 10 11	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.46 6.76 6.91 7.08 7.68 7.25 6.30 8.48 6.87 7.43 6.94 6.50	19.4 13.1 7.3 17.5 14.7 11 5.5 21.7 6.7 n/a 16.6 3.2 16.3 17.9 2.8 24.7	90 70 10 65 50 58 76 48 41 80 34 100 97 99
PWQO - Units - 8/3/2005 9/2/2005 5/16/2006 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2010 10/22/2009 5/19/2010 5/31/2011 8/25/2010 10/21/2010 5/31/2011 5/18/2012 8/30/2012 10/23/2012 10/23/2012 10/17/2013 8/29/2013 10/17/2013	Dry Dry	0.003 mg/L 0.0007 <0.0005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	0.02 mg/L 0.022 0.0067 0.005 0.002 0.01 0.19 <0.02 <0.02 <0.02 <0.01 <0.01 <0.01 <0.01	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L  4 15.6 <1 13.1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 7.20 6.70 7.30 6.70 6.70 6.50 6.70 6.70 6.70 6.70 6.75 6.00 6.70 6.75 6.48 6.61 6.80 6.47 6.55 6.44 6.44	mg/L 40.6 36.1 43 25 43 17 9 83 17 9 43 23 6 34 28 9 40 15 26 8.4 8.9 9	mg/L < 0.05 < 0.05 0.05 0.05 0.05 0.05 0.07 0.05 0.07 0.05 0.07 0.05 0.07 0.05 0.07 0.05 0.07 0.05 0.07 0.07	NH3-N 0.02 mg/L <0.0005 0.0005 0.00014 <0.0005 <0.0005 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L  86 92 103 55 90 75 38 166 57 39 89 54 43 75 59 35 104 84 84 84  59 37	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.0001 < 0.0001 < 0.0001	mg/L 6 10 12 12 6 5 16 8 9 10 5 7 10 13 7 6 3 10 11 9 12 6 11 5 5	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.46 6.76 6.91 7.08 7.68 7.25 6.30 8.48 6.87 7.43 6.94 6.50 7.06 7.06 7.06 7.06	19.4 13.1 7.3 17.5 14.7 11 5.5 21.7 6.7 n/a 16.6 3.2 16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5	90 70 10 65 50 58 76 48 41 100 97 99 65 45
PWQO - Units - 8/3/2005 9/2/2005 5/16/2006 8/15/2007 5/21/2008 8/20/2008 10/24/2008 8/20/2008 10/24/2009 5/18/2010 10/21/2010 5/31/2011 8/25/2010 10/21/2010 5/31/2011 8/24/2011 10/23/2012 5/24/2013 8/29/2013 10/17/2013 5/23/2014 8/21/2014	Dry Dry	0.003 mg/L 0.0007 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.02 mg/L 0.022 0.0067 0.005 0.001 0.019 <0.002 <0.001 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L  4  15.6  <1  13.1  <1  <1  <1  <1  <1  <1  <1  <1  <1	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 6.70 6.70 6.70 6.70 6.70 6.70 6.70 6.7	mg/L 40.6 36.1 43 25 43 17 9 83 17 9 43 23 6 34 28 9 40 15 26 8.4 8.9	mg/L < 0.05 < 0.05 0.05 0.05 0.05 0.01 0.05 0.05 0.01 0.05 0.05	NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 86 92 103 55 90 75 38 166 57 39 89 54 43 75 59 35 104 84 84 59 37	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 6 10 12 12 6 5 16 8 9 10 5 7 10 13 7 6 3 10 11 9 12 6 11 5 10	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.46 6.76 7.08 7.68 7.25 6.30 8.48 6.87 7.43 6.94 6.50 6.84 9.67 7.06 7.52	19.4 13.1 7.3 17.5 14.7 11 5.5 21.7 6.7 n/a 16.6 3.2 16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5	90 70 10 65 50 58 76 48 41 100 97 99 65 45 51 61
PWQO - Units - 10/21/2005 9/2/2005 5/16/2006 8/15/2007 10/18/2007 10/18/2007 5/21/2008 8/20/2008 8/20/2008 5/18/2010 10/21/2010 8/25/2010 10/21/2010 5/38/2011 10/25/2011 5/18/2012 10/23/2012 5/24/2013 8/29/2013 8/29/2013 8/29/2014 10/23/2014 5/21/2014 10/9/2014 8/21/2014 10/9/2014 8/21/2014	Dry Dry	0.003 mg/L 0.0007 0.0007 <0.0005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	0.02 mg/L 0.020 0.0067 0.005 0.01 0.01 0.02 0.01 0.02 0.01 0.01 0.01	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L <0.2 <0.2 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	mg/L 4 15.6 <1 13 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 6.95 7.45 7.10 7.20 7.00 6.70 7.30 6.90 6.60 6.70 6.70 6.70 6.70 6.70 6.70 6.7	mg/L 40.6 36.1 43 25 43 17 9 83 17 9 43 23 6 34 28 9 40 15 26 8.4 8.9	mg/L <0.05 <0.05 <0.05 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	NH3-N 0.02 mg/L <0.0005 <0.0005 0.000114 <0.0005 0.00014 <0.0005 <0.0005 0.0005 0.0005 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 86 92 103 55 90 75 38 166 57 39 89 54 43 75 59 35 104 84 84 59 37	0.001 mg/L 0.002 < 0.0001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 10 12 12 12 6 5 16 8 9 10 5 7 10 13 7 6 3 10 11 9 12 6 11 5 10 6	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.46 6.76 6.91 7.08 7.68 7.25 6.30 8.48 6.87 7.43 6.94 6.50 7.06 7.52	19.4 13.1 7.3 17.5 14.7 11 5.5 21.7 n/a 16.6 3.2 16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5 5.2	90 70 10 65 50 58 76 48 41 100 97 99 65 45 51 61 61 61 38 36
PWQO - Units - 9/2/2005 9/2/2005 5/16/2006 8/15/2007 10/18/2007 5/21/2008 8/20/2008 8/20/2008 10/22/2009 8/18/2009 10/22/2009 8/18/2010 10/21/2010 5/31/2011 5/31/2011 5/38/2012 8/30/2012 10/23/2012 10/23/2014 10/25/2011 5/24/2013 8/25/2015 10/25/2015 10/25/2015 10/25/2015 10/25/2015 10/25/2015 10/25/2015 10/25/2015	Dry Dry	0.003 mg/L 0.0007 < 0.0005 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.02 mg/L 0.022 0.0067 0.005 0.001 0.019 <0.002 <0.001 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L < 0.3 < 0.01 < 0.01 < 0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L 4 15.6 <1 13 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 6.95 7.45 7.10 7.20 7.00 6.70 7.30 6.60 6.70 6.70 6.70 6.70 6.75 6.48 6.61 6.80 6.47 6.48 6.65 6.55 6.44 6.03 6.66	* mg/L 40.6 40.6 36.1 43 25 43 177 9 83 177 9 43 23 6 6 34 28 9 9 15 26 25 9 15 7.8 6.6 6 27	mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	NH3-N 0.02 mg/L <0.0005 <0.0005 0.00021 <0.0005 0.00014 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L  86 92 103 55 90 75 38 166 57 39 89 54 43 75 59 35 104 84 84  59 37 62 35 59 37 33 66	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.0001 < 0.001 < 0.001	mg/L 6 10 12 12 6 5 16 8 9 10 5 7 10 13 7 6 3 10 11 9 12 6 11 15 6 8	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.46 6.76 6.91 7.08 7.68 7.25 6.30 8.48 6.87 7.43 6.94 6.50 7.65 7.65 7.743 6.94 6.50 7.66 7.52 7.66 7.66 7.66 7.69 7.66 7.69 7.43 6.64 6.74 6.74 6.76 6.76 7.76 7.76 7.76	19.4 13.1 7.3 17.5 14.7 11 5.5 21.7 6.7 6.7 16.6 3.2 16.3 16.5 6.8 13 17.9 2.8 24.7 5.2 20.6	90 70 10 65 50 58 76 48 41 80 34 41 97 99 65 45 51 61 61 38 36 53
PWQO - Units - 8/3/2005 9/2/2005 5/16/2006 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/22/2009 8/18/2009 10/22/2009 8/18/2010 10/21/2010 5/31/2011 8/25/2010 10/25/2011 5/18/2010 10/25/2011 5/18/2010 10/25/2011 5/18/2010 8/25/2013 10/17/2013 8/25/2014 10/25/2014 5/25/2015 5/25/2016 10/25/2015 5/25/2016 10/25/2015 5/25/2015 5/25/2015 5/25/2015 8/25/2015 8/25/2015 8/25/2015 8/25/2015	Dry Dry	0.003 mg/L 0.0007 <0.0005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	0.02 mg/L 0.020 0.0067 0.005 0.01 0.01 0.02 0.01 0.02 0.01 0.01 0.01	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L  4  15.6  <1  13.1  <1  <1  <1  <1  <1  <1  <1  <1  <1	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 7.20 6.70 7.30 6.70 6.70 6.70 6.70 6.70 6.70 6.70 6.7	mg/L 40.6 36.1 43 25 43 17 9 83 17 9 43 23 6 34 28 9 40 15 26 8.9 25 9 40 17 18 18 18 18 18 18 18 18 18 18	mg/L < 0.05 < 0.05 0.05 0.05 0.05 0.05 0.05 0.27 0.05 0.41 0.05 0.05 0.05 0.05 0.05 0.05 0.07 0.05 0.07 0.05 0.08 0.05 0.07 0.05 0.07 0.07 0.05 0.07 0.07	NH3-N 0.02 mg/L <0.0005 0.0005 0.00014 <0.0005 <0.0005 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L  86 92 103 55 90 75 38 166 57 39 89 54 43 75 59 35 104 84 84  59 37 62 35 59 37 33 66 31	0.001 mg/L 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 6 10 12 12 12 6 5 16 8 9 10 5 7 10 13 7 6 3 10 11 9 12 6 11 5 10 6	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.46 6.76 6.91 7.08 7.68 7.25 6.30 8.48 6.87 7.43 6.94 6.50 7.06 7.52	19.4 13.1 7.3 17.5 14.7 11 5.5 21.7 n/a 16.6 3.2 16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5 5.2	90 70 10 65 50 58 76 48 41 100 97 99 65 45 51 61 61 61 38 36
PWQO - Units - 8/3/2005 9/2/2005 5/16/2006 8/15/2007 5/16/2008 8/20/2008 10/24/2008 8/20/2008 10/24/2009 8/18/2009 10/22/2009 5/18/2010 10/21/2010 5/31/2011 8/24/2011 5/38/2012 10/23/2012 10/23/2012 5/23/2014 8/25/2010 5/23/2014 8/25/2010 5/23/2014 8/25/2010 5/23/2014 8/25/2015 5/23/2014 8/25/2015 5/25/2015 8/25/2015 10/20/2015 5/20/2016 9/8/2016	Dry Dry	0.003 mg/L 0.0007 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.02 mg/L 0.020 0.0067 0.005 0.01 0.01 0.02 0.01 0.02 0.01 0.01 0.01	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L  < 0.2  < 0.2  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1	mg/L  4  15.6  <1  13  1  <1  <1  <1  <1  <1  <1  <1	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 6.95 7.45 7.10 7.20 6.70 7.30 6.90 6.60 6.70 6.50 6.00 6.70 6.55 6.48 6.61 6.80 6.47 6.55 6.44 6.03 6.08 6.66 6.43 6.58	mg/L 40.6 36.1 43 25 43 17 9 83 17 9 43 23 6 34 28 9 40 15 26 8.4 8.9 25 9 15 7.8 6.6 27 7.53	mg/L < 0.05 < 0.05 0.05 0.05 0.05 0.01 0.05 0.05 0.01 0.05 0.05	NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 86 92 103 55 90 75 38 166 57 39 89 54 43 75 59 35 104 84 84 59 37 62 35 59 37 33 66 31	0.001 mg/L 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 6 10 12 12 6 5 16 8 9 10 5 7 10 13 7 6 3 10 11 11 9 12 6 11 5 10 6 8 6	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.46 6.76 6.91 7.08 7.68 7.25 6.30 8.48 6.87 7.43 6.94 6.50 7.52 7.06 7.52 7.45 6.21 6.86 6.96 8.29	19.4 13.1 7.3 17.5 14.7 11 5.5 21.7 6.7 n/a 16.6 3.2 16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5 5.2 20.6	90 70 10 65 50 58 76 48 41 100 97 99 65 45 51 61 38 36 53 31
PWQO - Units - 8/3/2005 9/2/2005 5/16/2006 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/22/2009 8/18/2009 10/22/2009 8/18/2010 10/21/2010 5/31/2011 8/25/2010 10/25/2011 5/18/2010 10/25/2011 5/18/2010 10/25/2011 5/18/2010 8/25/2013 10/17/2013 8/25/2014 10/25/2014 5/25/2015 5/25/2016 10/25/2015 5/25/2016 10/25/2015 5/25/2015 5/25/2015 5/25/2015 8/25/2015 8/25/2015 8/25/2015 8/25/2015	Dry Dry	0.003 mg/L 0.0007 <0.0005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	0.02 mg/L 0.020 0.0067 0.005 0.01 0.01 0.02 0.01 0.02 0.01 0.01 0.01	mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L < 0.2 < 0.2 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	mg/L  4  15.6  <1  13.1  <1  <1  <1  <1  <1  <1  <1  <1  <1	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 7.20 6.70 7.30 6.70 6.70 6.70 6.70 6.70 6.70 6.70 6.7	mg/L 40.6 36.1 43 25 43 17 9 83 17 9 43 23 6 34 28 9 40 15 26 8.9 25 9 40 17 18 18 18 18 18 18 18 18 18 18	mg/L < 0.05 < 0.05 0.05 0.05 0.05 0.05 0.05 0.27 0.05 0.41 0.05 0.05 0.05 0.05 0.05 0.05 0.07 0.05 0.07 0.05 0.08 0.05 0.07 0.05 0.07 0.07 0.05 0.07 0.07	NH3-N 0.02 mg/L <0.0005 0.0005 0.00014 <0.0005 <0.0005 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L  86 92 103 55 90 75 38 166 57 39 89 54 43 75 59 35 104 84 84  59 37 62 35 59 37 33 66 31	0.001 mg/L 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 6 10 12 12 6 5 16 8 9 10 5 7 10 13 7 6 3 10 11 9 12 6 11 15 6 8	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.46 6.76 6.91 7.08 7.68 7.25 6.30 8.48 6.87 7.43 6.94 6.50 7.65 7.65 7.743 6.94 6.50 7.66 7.52 7.66 7.66 7.66 7.69 7.66 7.69 7.43 6.64 6.74 6.74 6.76 6.76 7.76 7.76 7.76	19.4 13.1 7.3 17.5 14.7 11 5.5 21.7 6.7 6.7 16.6 3.2 16.3 16.5 6.8 13 17.9 2.8 24.7 5.2 20.6	90 70 10 65 50 58 76 48 41 80 34 100 97 99 65 45 51 61 61 63 36 53
PWQO - Units - 10/21/2005 9/2/2005 5/16/2006 8/15/2007 10/18/2007 10/18/2007 5/21/2008 8/20/2008 8/20/2008 5/19/2009 8/18/2010 8/25/2010 10/21/2010 5/31/2011 10/25/2011 5/18/2012 10/23/2012 5/24/2013 8/29/2013 8/29/2013 8/29/2013 5/23/2014 10/23/2012 5/24/2013 8/29/2013 8/29/2013 5/23/2014 10/23/2012 5/24/2014 10/9/2014 5/21/2015 5/10/2016 8/25/2015 10/20/2015 5/10/2016	Dry Dry	0.003 mg/L 0.0007 < 0.0005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	0.02 mg/L 0.020 0.0067 0.005 0.01 0.01 0.02 0.01 0.02 0.01 0.01 0.01	mg/L < 0.3 < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L  < 0.2  < 0.2  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1  < 0.1	mg/L 4 15.6 <1 13 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	6.5 - 8.5 n/a 7.10 6.95 7.45 7.10 6.95 7.45 7.10 6.70 7.20 6.70 6.70 6.70 6.70 6.70 6.70 6.70 6.7	mg/L 40.6 36.1 43 25 43 17 9 83 17 9 43 23 6 6 34 28 9 40 15 26 8.4 8.9 25 40 15 26 8.9 40 40 40 40 40 40 40 40 40 40	mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	NH3-N 0.02 mg/L <0.0005 <0.0005 0.000114 <0.0005 <0.0005 0.00114 <0.0005 <0.0005 0.0005 0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 86 92 103 55 90 75 38 166 57 39 89 54 43 75 59 35 104 84 84  59 37 62 35 59 37 33 66 31 37 38	0.001 mg/L 0.002 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 6 10 12 12 12 6 8 9 10 5 7 10 13 7 6 3 10 11 9 12 6 11 5 10 6 8 9 9	4.40 5.20 4.00 6.60 6.79 6.12 6.64 6.46 6.76 6.91 7.08 7.68 7.25 6.30 8.48 6.87 7.43 6.94 6.50 7.43 6.94 6.50 7.66 7.52 7.52 7.66 7.66 7.66 7.66 7.74 7.74 7.74 7.74	19.4 13.1 7.3 17.5 14.7 11 5.5 21.7 n/a 16.6 3.2 16.3 16.5 6.8 13 17.9 2.8 24.7 6.3 12.5 5.2 20.6 7.7 8.4 13.5 3.4 4.5	90 70 10 65 50 58 76 48 41 100 97 99 65 45 51 61 61 61 63 38 36 53 31

\* should not be decreased by more than 25% of the natural concentration

Parameter -	As	В	Ba	Cd	Cr	Cu	Fe	Hg	TDS	TKN	Total P	COD	BOD	TSS	CI-
PWQO -	0.1	0.2		0.0001	0.1	0.005	0.3	0.0002			0.03				
nits -	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
8/3/2005	< 0.001	< 0.010	0.0059	< 0.0001	< 0.005	0.0053	< 0.050			0.40	0.025	12	< 2	1	< 1
9/2/2005	< 0.001	< 0.010	0.006	< 0.0001	< 0.005	< 0.0011	< 0.050	< 0.0001	64	0.40	0.009	8	< 2	4	2
10/21/2005	< 0.001	< 0.010	0.006	< 0.0001	< 0.005	< 0.001	0.058	< 0.0001	40	0.30	0.006	12	< 2	4	< 1
5/16/2006							0.091		73	0.50	0.007	11	< 2	3	1
8/29/2006	< 0.001	< 0.010	0.005	< 0.0001	< 0.005	< 0.001	< 0.050	< 0.0001	21	0.40	0.011	10	< 2	1	1
10/17/2006	< 0.2	< 0.02	< 0.02	< 0.005	< 0.01	< 0.02	0.06	< 0.0001	29	0.30	0.011	11	< 2	1	1
5/15/2007							<0.05		17	0.50	0.012	10	<2	<1	<1
8/15/2007	<0.02	<0.02	<0.02	< 0.005	<0.01	<0.02	0.17	<0.0001	24	0.40	0.009	12	<2	<1	<1
10/18/2007	<0.2	<0.02	<0.02	< 0.005	<0.01	<0.02	0.13	<0.0001	40	0.50	0.015	13	<2	3	2
8/20/2008	<0.02	<0.02	<0.02	<0.005	<0.01	<0.02	<0.05	<0.0001	28	0.40	0.015	9	<2	<1	2
10/24/2008	<0.02	<0.02	<0.02	< 0.005	<0.01	<0.02	0.03	<0.0001	26	0.30	0.030	10	<2	1	1
5/19/2009	0.00	0.00	0.00	0.005	0.04	0.00	0.34	0.0004	00	0.70	0.044	21	<2	10	6
8/18/2009	<0.02	<0.02	<0.02	<0.005	<0.01	<0.02	<0.05	<0.0001	26	0.40	0.008	12	<2	<1	1
10/22/2009	<0.02	<0.02	<0.02	< 0.005	<0.01	<0.02	0.05	<0.0001	25	0.30	0.003	12	<2	6	<1
5/18/2010	.0.0	.0.00	.0.00	-0.005	.0.04	-0.00	0.03	-0.0004	24	0.40	<0.002	13	<2	2	<1
8/25/2010	<0.2	<0.02	<0.02	<0.005	<0.01	<0.02	0.04	<0.0001	24	0.40	0.004	13	<2	2	<1
10/21/2010	<0.2	<0.02	<0.02	< 0.005	<0.01	<0.02	0.05	<0.0001	22	0.40	0.005	<4	<2	3	<1
5/31/2011	-0.2	.0.00	.0.00	-0.005	-0.01	.0.02	0.03	.0.0004	20	0.40	0.008	15	<2	2 12	<1
8/24/2011	<0.2	<0.02	<0.02	< 0.005	<0.01	<0.02	0.12	<0.0001	30 24	0.50	0.015	24	<2		3
10/25/2011 5/18/2012	<0.2	<0.02	<0.02	< 0.005	<0.01	<0.02	0.03 <0.02	<0.0001	24	0.30	0.003 0.011	13 12	<2 <2	<1 <1	<1 <1
	-0.2	40 02	40 02	-0.005	-0.01	-0.02		-0.0001	20				<2	7	
8/30/2012 10/23/2012	<0.2 <0.2	<0.02 <0.02	<0.02 <0.02	<0.005 <0.005	<0.01 <0.01	<0.02 <0.02	0.04 <0.02	<0.0001	28 40	0.38	0.018 <0.004	13 25	<2	15	<1 <1
5/24/2013	<0.2	<b>₹0.02</b>	<b>₹0.02</b>	<0.003	<b>₹0.01</b>	<b>₹0.02</b>	0.02	<0.0001	40	0.34	0.009	13	<2	4	<1
8/29/2013	<0.2	<0.02	0.006	< 0.005	<0.01	<0.02	<0.06	<0.0001	42	0.97	0.009	10	<2	5	<1
10/17/2013	<0.2	<0.02	0.006	<0.005	<0.01	<0.02	0.14	<0.0001	42	0.59	0.010	31	<2	16	<1
5/23/2014	<u.z< td=""><td><b>~∪.∪∠</b></td><td>0.007</td><td>\0.003</td><td>\U.U1</td><td><b>~</b>0.0∠</td><td>0.14</td><td>~∪.UUU1</td><td>40</td><td>0.59</td><td>&lt;0.023</td><td>10</td><td>&lt;2</td><td>2</td><td>&lt;1</td></u.z<>	<b>~∪.∪∠</b>	0.007	\0.003	\U.U1	<b>~</b> 0.0∠	0.14	~∪.UUU1	40	0.59	<0.023	10	<2	2	<1
8/21/2014	<0.2	<0.02	0.006	< 0.005	<0.01	<0.02	0.08	<0.0001	34	0.40	0.002	12	<2	160	<1
10/9/2014	<0.2	<0.02	0.000	< 0.005	<0.01	<0.02	0.03	<0.0001	44	0.34	0.008	8.7	<2	21	<1
5/21/2015	VO.2	10.02	0.011	₹0.005	Q0.01	V0.02	0.07	<b>40.0001</b>		0.27	0.014	6.9	<2	3	<1
8/25/2015	<0.2	<0.02	0.006	< 0.005	<0.01	<0.02	0.04	<0.0001	46	0.22	0.014	13	<2	2	<1
10/20/2015	<0.2	<0.02	0.006	<0.005	<0.01	<0.02	0.05	<0.001	16	0.18	0.010	4.2	<2	<1	<1
5/10/2016	VO.2	10.02	0.000	40.000	Q0.01	V0.02	0.04	10.001	10	0.23	0.004	<10	\ <u>L</u>	<4	1
9/8/2016	0.0001	<0.05	0.006	<0.00001	<0.001	0.0007	0.08	<0.00001	24	0.29	0.005	28	<6	14	1.1
11/1/2016	0.0002	<0.05	0.007	<0.00001	<0.001	0.0005	0.08	<0.00001	26	0.30	0.012	22	<2	<4	1.4
							0.08			0.21	0.005	12	<3	<4	0.62
	0.0002														
5/17/2017		<0.02	<0.010	<0.00002	<0.001	0.0008		<0.000002	<10	0.19		8.4	NA	<4	0.59
5/17/2017 8/29/2017	<0.0002	<0.02 <0.02	<0.010 <0.010	<0.00002 <0.00002	<0.001 <0.001	0.0008 0.0041	<0.06	<0.000002	<10 18	0.19 0.26	0.005	8.4 13	NA 13.0	<4 29.3	0.59 0.64
5/17/2017		<0.02 <0.02	<0.010	<0.00002 <0.00002	<0.001 <0.001	0.0008 0.0041		<0.000002 <0.000002	<10 18 Unionized	0.19 0.26		8.4 13	NA 13.0	<4 29.3	0.59 0.64
5/17/2017 8/29/2017 10/24/2017 Parameter -	<0.0002					0.0041 pH	<0.06		18		0.005				
5/17/2017 8/29/2017 10/24/2017 Parameter - WQO -	<0.0002 0.0003 <b>Pb</b> 0.003	<0.02 <b>Zn</b> 0.02	<0.010 NO2-N	<0.00002 NO3-N	<0.001 <b>SO4</b>	0.0041 <b>pH</b> 6.5 - 8.5	<0.06 <0.06 alk42	<0.000002 NH3-N	18 Unionized NH3-N 0.02	0.26 Cond.	0.005 0.010 Phenols 0.001	13 DO	13.0	29.3	0.64
5/17/2017 8/29/2017 10/24/2017 Parameter - WQO - Inits -	<0.0002 0.0003 <b>Pb</b> 0.003 mg/L	<0.02 <b>Zn</b> 0.02 mg/L	<0.010 <b>NO2-N</b> mg/L	<0.00002 <b>NO3-N</b> mg/L	<0.001 <b>SO4</b> mg/L	0.0041 <b>pH</b> 6.5 - 8.5 n/a	<0.06 <0.06 alk42 * mg/L	<0.000002 NH3-N mg/L	18 Unionized NH3-N 0.02 mg/L	0.26  Cond.  mg/L	0.005 0.010 Phenols 0.001 mg/L	DO mg/L	13.0 Field pH	29.3 Field T	0.64
5/17/2017 8/29/2017 10/24/2017 Parameter - W00 - Inits - 9/2/2005	<0.0002 0.0003 <b>Pb</b> 0.003 mg/L < 0.0005	<0.02  Zn  0.02  mg/L  < 0.005	<0.010 NO2-N mg/L < 0.3	<0.00002 NO3-N mg/L 1.700	<0.001 SO4 mg/L 10.8	0.0041 <b>pH</b> 6.5 - 8.5 n/a 7.41	<0.06 <0.06 alk42 * mg/L 13	<0.000002 NH3-N mg/L < 0.05	18 Unionized NH3-N 0.02 mg/L <0.0005	0.26  Cond.  mg/L 36	0.005 0.010 <b>Phenols</b> 0.001 mg/L < 0.001	13  DO  mg/L 16	13.0 Field pH	29.3 Field T	0.64 Field Co
5/17/2017 8/29/2017 10/24/2017 Parameter - PWQO - Inits - 9/2/2005 10/21/2005	<0.0002 0.0003 <b>Pb</b> 0.003 mg/L	<0.02 <b>Zn</b> 0.02 mg/L	<0.010  NO2-N  mg/L  < 0.3  < 0.01	<0.00002  NO3-N  mg/L  1.700  < 0.1	<0.001 SO4 mg/L 10.8 3.0	0.0041 <b>pH</b> 6.5 - 8.5 n/a 7.41 7.36	<0.06 <0.06 <b>alk42</b> *  mg/L  13  14	<0.000002  NH3-N  mg/L  < 0.05  < 0.05	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005	0.26  Cond.  mg/L 36 34	0.005 0.010 Phenols 0.001 mg/L < 0.001 < 0.001	13  DO  mg/L  16  12	13.0 Field pH 4.90 4.10	29.3 Field T 23.7 7.8	0.64
5/17/2017 8/29/2017 10/24/2017 Parameter - WQO - Inits - 9/2/2005 10/21/2005 5/16/2006	<0.0002 0.0003 <b>Pb</b> 0.003 mg/L < 0.0005 < 0.0005	<0.02  Zn  0.02  mg/L  < 0.005  < 0.005	<0.010  NO2-N  mg/L < 0.3 < 0.01 < 0.01	<0.00002  NO3-N  mg/L  1.700  < 0.1  < 0.1	<0.001  SO4  mg/L  10.8  3.0  < 1	0.0041 <b>pH</b> 6.5 - 8.5 n/a 7.41 7.36 7.10	<0.06 <0.06 alk42 * mg/L 13 14 14	<0.000002  NH3-N  mg/L < 0.05 < 0.05 < 0.05	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L 36 34 38	0.005 0.010 Phenols 0.001 mg/L < 0.001 < 0.001 < 0.001	13  DO  mg/L  16  12  19	13.0 Field pH 4.90 4.10 7.90	29.3 Field T 23.7 7.8 14.3	0.64 Field Co
5/17/2017 8/29/2017 10/24/2017 Parameter - WQO - Inits - 9/2/2005 10/21/2005 15/16/2006 8/29/2006	<0.0002 0.0003 Pb 0.003 mg/L <0.0005 <0.0005	<0.02  Zn  0.02  mg/L  < 0.005  < 0.005	<0.010  NO2-N  mg/L  < 0.3  < 0.01  < 0.01  < 0.01	<0.00002  NO3-N  mg/L  1.700 < 0.1 < 0.1 < 0.1	<0.001  SO4  mg/L  10.8  3.0  < 1  3.0	0.0041 pH 6.5 - 8.5 n/a 7.41 7.36 7.10 7.40	<0.06 <0.06 alk42 * mg/L 13 14 14 14	<0.000002  NH3-N  mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L 36 34 38 39	0.005 0.010 Phenols 0.001 g/L < 0.001 < 0.001 < 0.001 < 0.001	13  DO  mg/L  16  12  19  11	13.0 Field pH 4.90 4.10 7.90 7.76	29.3 Field T  23.7  7.8  14.3  19.5	0.64 Field Co
5/17/2017 8/29/2017 10/24/2017 Parameter - WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006	<0.0002 0.0003 <b>Pb</b> 0.003 mg/L < 0.0005 < 0.0005	<0.02  Zn  0.02  mg/L  < 0.005  < 0.005	<pre></pre>	<0.00002  NO3-N  mg/L  1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<0.001  SO4  mg/L  10.8  3.0  < 1  3.0  3.0	0.0041 pH 6.5 - 8.5 n/a 7.41 7.36 7.10 7.40 7.40	<0.06 <0.06 alk42 * mg/L 13 14 14 14 15	<0.000002  NH3-N  mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L 36 34 38 39 40	0.005 0.010 Phenols 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001	13  DO  mg/L  16  12  19  11  16	13.0 Field pH 4.90 4.10 7.90 7.76 7.96	29.3 Field T  23.7  7.8  14.3  19.5  8.2	0.64 Field Co
5/17/2017 8/29/2017 10/24/2017 Parameter - WQO - Inits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007	<0.0002 0.0003 Pb 0.003 mg/L < 0.0005 < 0.0005 < 0.0005	<0.02  Zn  0.02 mg/L <0.005 <0.005 <0.005 <0.001	<pre></pre>	<0.00002  NO3-N  mg/L  1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<0.001  SO4  mg/L  10.8  3.0  < 1  3.0  3.0  3.0  3.0	0.0041 <b>pH</b> 6.5 - 8.5 n/a 7.41 7.36 7.10 7.40 6.80	<0.06 <0.06 alk42 * mg/L 13 14 14 14 15 17	<0.000002  NH3-N  mg/L  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L 36 34 38 39 40 41	0.005 0.010 Phenols 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	13  DO  mg/L  16  12  19  11  16  6	13.0 Field pH  4.90 4.10 7.90 7.76 7.96 7.55	29.3 Field T  23.7  7.8  14.3  19.5  8.2  16	0.64  Field Co
5/17/2017 8/29/2017 10/24/2017 Parameter - WQO - Inits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007	<0.0002 0.0003 Pb 0.003 mg/L < 0.0005 < 0.0005 < 0.005	<0.02  Zn  0.02  mg/L  < 0.005  < 0.005  < 0.001	<0.010  NO2-N  mg/L  < 0.3  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  <0.01	<0.00002  NO3-N  mg/L  1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<0.001  SO4  mg/L  10.8  3.0  < 1  3.0  3.0  3.0  3.0  3.0	0.0041 <b>pH</b> 6.5 - 8.5 n/a 7.41 7.36 7.40 7.40 6.80 7.30	<0.06 <0.06 * mg/L  13  14  14  14  15  17	<0.000002  NH3-N  mg/L  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L 36 34 38 39 40 41 36	0.005 0.010 Phenols 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	13  DO  mg/L  16  12  19  11  16  6  13	13.0 Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32	29.3 Field T  23.7  7.8  14.3  19.5  8.2  16  17.8	0.64 Field Co
5/17/2017 8/29/2017 10/24/2017 Parameter - WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007	<0.0002 0.0003 Pb 0.003 mg/L < 0.0005 < 0.0005 < 0.0005	<0.02  Zn  0.02 mg/L <0.005 <0.005 <0.005 <0.001	<0.010  NO2-N  mg/L  < 0.3  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  <0.01  <0.01  <0.01	<0.00002  NO3-N  mg/L  1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<pre></pre>	0.0041 pH 6.5 - 8.5 n/a 7.41 7.36 7.40 7.40 6.80 7.30 7.00	<0.06 <0.06  alk42  * mg/L  13  14  14  15  17  13  13	<pre>&lt;0.000002 NH3-N mg/L &lt; 0.05 /pre>	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L 36 34 38 39 40 41 36 41	0.005 0.010 Phenols 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	13  DO  mg/L  16  12  19  11  16  6  13  9	13.0 Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7	29.3 Field T  23.7 7.8 14.3 19.5 8.2 16 17.8 10.2	0.64  Field Co
5/17/2017 8/29/2017 10/24/2017 10/24/2017 Parameter - WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008	<0.0002 0.0003 Pb 0.003 mg/L < 0.0005 < 0.0005 < 0.005 < 0.05	<0.02  Zn 0.02 mg/L < 0.005 < 0.005 < 0.001 <0.01	<0.010  NO2-N  mg/L  < 0.3  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01	<0.00002  NO3-N  mg/L  1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<pre></pre>	0.0041 pH 6.5 - 8.5 n/a 7.41 7.36 7.40 7.40 6.80 7.30 7.00 7.00	<0.06 <0.06  alk42  mg/L  13  14  14  15  17  13  9	<0.000002  NH3-N  mg/L  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  < 0.05  0.05  0.07	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L  36  34  38  39  40  41  36  41  39	0.005 0.010  Phenols 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	13  DO  mg/L  16  12  19  11  16  6  13  9  13	13.0 Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43	29.3  Field T  23.7  7.8  14.3  19.5  8.2  16  17.8  10.2  12.6	0.64 Field Co
5/17/2017 8/29/2017 10/24/2017 10/24/2017 Parameter - WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008	<0.0002 0.0003  Pb 0.003 mg/L < 0.0005 < 0.0005 < 0.005 <0.05 <0.05 <0.005	<0.02  Zn  0.02  mg/L  < 0.005  < 0.005  < 0.001	<0.010 NO2-N mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	<0.00002  NO3-N  mg/L  1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<pre></pre>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.36 7.10 7.40 7.40 6.80 7.30 7.00 7.00 7.40	<0.06 <0.06  alk42  mg/L  13  14  14  15  17  13  13  13  13	<0.000002 NH3-N mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05  < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L 36 34 38 39 40 41 36 41 39 41	0.005 0.010  Phenols 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	13  DO  mg/L  16  12  19  11  16  6  13  9  13  12	13.0 Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.43 7.82	29.3 Field T  23.7  7.8  14.3  19.5  8.2  16  17.8  10.2  12.6  22.3	0.64 Field Co 20 20 44
5/17/2017 8/29/2017 10/24/2017 Parameter - WQO - inits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 10/18/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008	<0.0002 0.0003 Pb 0.003 mg/L < 0.0005 < 0.0005 < 0.005 < 0.05	<0.02  Zn 0.02 mg/L < 0.005 < 0.005 < 0.001 <0.01	<ul> <li>&lt;0.010</li> <li>NO2-N</li> <li>mg/L</li> <li>&lt;0.3</li> <li>&lt;0.01</li> </ul>	<0.00002  NO3-N  mg/L  1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<pre></pre>	0.0041 pH 6.5 - 8.5 n/a 7.41 7.36 7.10 7.40 6.80 7.30 7.00 7.00 7.40 6.80	<0.06 <0.06  alk42  * mg/L  13  14  14  15  17  13  13  13  9  13  13	<0.000002 NH3-N mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L  36  34  38  40  41  36  41  49  40	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	13 DO mg/L 16 12 19 11 16 6 13 9 13 12 13	13.0 Field pH  4.90 4.10 7.90 7.76 7.96 7.96 7.95 8.32 7.7 7.43 7.82 7.95	29.3 Field T  23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3	0.64 Field Co 20 20 44
5/17/2017 8/29/2017 10/24/2017  Parameter - WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.0005 <0.005 <0.005 <0.0005 <0.0005	<pre>&lt;0.02 Zn 0.02 mg/L &lt;0.005 &lt;0.005 &lt;0.001 &lt;0.01 &lt;0.01 &lt;0.01</pre>	<0.010  NO2-N  mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	<0.00002  NO3-N  mg/L  1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<pre></pre>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.36 7.40 7.40 7.40 6.80 7.30 7.00 7.40 6.80 6.30	<0.06 <0.06  alk42  mg/L  13  14  14  15  17  13  13  9  13  10	NH3-N mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L  36  34  38  39  40  41  36  41  39  41  40  60	0.005 0.010  Phenols 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84	29.3 Field T  23.7  7.8  14.3  19.5  8.2  16  17.8  10.2  12.6  22.3  10.3  n/a	0.64  Field Cc  20 20 44  30 54
5/17/2017 8/29/2017 10/24/2017 10/24/2017  Parameter -  WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2009	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.005 <0.005 <0.005 <0.0005 <0.0005 <0.0005	<pre>&lt;0.02 Zn 0.02 mg/L &lt; 0.005 &lt; 0.005 &lt; 0.001 &lt;0.01 &lt;0.01 &lt;0.01</pre>	<pre></pre>	<0.00002  NO3-N  mg/L  1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<pre></pre>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.36 7.10 7.40 6.80 7.00 7.00 7.40 6.80 6.30 6.40	<0.06 <0.06  alk42  * mg/L  13  14  14  15  17  13  9  13  10  15	NH3-N mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L 36 34 38 39 40 41 36 41 39 41 40 60 36	0.005 0.010  Phenols 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9	13.0 Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91	29.3 Field T  23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 n/a 20.8	0.64  Field Co  20 20 44  30 54 38
5/17/2017 8/29/2017 10/24/2017 10/24/2017  Parameter - WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2009 10/22/2009	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.0005 <0.005 <0.005 <0.0005 <0.0005	<pre>&lt;0.02 Zn 0.02 mg/L &lt;0.005 &lt;0.005 &lt;0.001 &lt;0.01 &lt;0.01 &lt;0.01</pre>	<0.010 NO2-N mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	<0.00002  NO3-N  mg/L  1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<pre></pre>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.36 7.40 7.40 6.80 7.30 7.00 7.40 6.80 6.30 6.40 8.10	<0.06 <0.06  alk42  mg/L  13  14  14  15  17  13  13  13  10  15  15	<0.000002 NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L 36 34 38 39 40 41 36 41 39 41 40 60 36 46	0.005 0.010  Phenols 0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	13  DO  mg/L  16  12  19  11  16  6  13  9  13  12  13  11  9  12	13.0 Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92	29.3 Field T  23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 n/a 20.8 3.6	0.64  Field Cc  20 20 44  44  30 54 38 42
5/17/2017 8/29/2017 10/24/2017  Parameter - WQO - mito - mito - 10/21/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2009 10/122/2009 5/18/2010	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.0005 <0.005 <0.005 <0.005 <0.0005 <0.0005 <0.0005	<pre>&lt;0.02  Zn 0.02 mg/L &lt;0.005 &lt;0.005 &lt;0.001 &lt;0.01 &lt;0.01 &lt;0.01 &lt;0.01 &lt;0.01</pre>	<0.010 NO2-N mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	<0.00002  NO3-N  mg/L  1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<0.001 SO4 mg/L 10.8 3.0 <1 3.0 3.0 4.0 6.0 5.0 5.0 5.0	0.0041  pH 6.5 - 8.5 n/a 7.41 7.40 7.40 7.40 7.40 7.00 7.00 7.00 7.00	<0.06 <0.06 alk42 * 13 14 14 15 17 13 13 13 13 13 13 15 15 10	<0.000002 NH3-N mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L 36 34 38 39 40 41 36 41 40 60 36 46 36	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.95 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37	29.3  Field T  23.7  7.8  14.3  19.5  8.2  16  17.8  10.2  12.6  22.3  10.3  n/a  20.8  3.6  16.2	0.64  Field Cc  20 20 44  30 54 38
5/17/2017 8/29/2017 10/24/2017 10/24/2017 10/24/2017  Parameter - WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2009 10/22/2009 10/22/2009 10/22/2009 10/22/2009 10/22/2009 10/22/2009 10/22/2009	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.0005 <0.005 <0.005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	<ul> <li>&lt;0.02</li> <li>Zn</li> <li>0.02</li> <li>mg/L</li> <li>&lt;0.005</li> <li>&lt;0.005</li> <li>&lt;0.01</li> <li>&lt;0.01</li> <li>&lt;0.01</li> <li>&lt;0.01</li> <li>&lt;0.01</li> <li>&lt;0.01</li> </ul>	<ul> <li>&lt;0.010</li> <li>NO2-N</li> <li>mg/L</li> <li>&lt;0.3</li> <li>&lt;0.01</li> </ul>	<0.00002 NO3-N mg/L 1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<ul> <li>&lt;0.001</li> <li>SO4</li> <li>mg/L</li> <li>10.8</li> <li>3.0</li> <li>&lt;1</li> <li>3.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>6.0</li> <li>5.0</li> <li>3.0</li> <li>6.0</li> <li>5.0</li> <li>3.0</li> </ul>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.36 7.40 7.40 7.40 6.80 7.30 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10	<0.06 <0.06  alk42  * mg/L  13  14  14  15  17  13  13  9  13  10  15  10  12	NH3-N mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L 36 34 38 39 40 41 39 41 40 60 36 46 36 37	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97	29.3  Field T  23.7  7.8  14.3  19.5  8.2  16  17.8  10.2  12.6  22.3  n/a  20.8  3.6  16.2  16.8	0.64  Field Co  20  20  44  30  54  38  42  32
5/17/2017 8/29/2017 10/24/2017 10/24/2017  Parameter - WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 10/24/2008 5/19/2009 8/18/2009 10/22/2009 5/18/2010 10/21/2010	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.0005 <0.005 <0.005 <0.005 <0.0005 <0.0005 <0.0005	<pre>&lt;0.02  Zn 0.02 mg/L &lt;0.005 &lt;0.005 &lt;0.001 &lt;0.01 &lt;0.01 &lt;0.01 &lt;0.01 &lt;0.01</pre>	<0.010 NO2-N mg/L <0.3 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	<0.00002 NO3-N mg/L 1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<ul> <li>&lt;0.001</li> <li>SO4</li> <li>mg/L</li> <li>10.8</li> <li>3.0</li> <li>&lt;1</li> <li>3.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>6.0</li> <li>5.0</li> <li>3.0</li> <li>6.0</li> <li>3.0</li> </ul>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.36 7.40 7.40 6.80 7.00 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.00	<pre>&lt;0.06 &lt;0.06  alk42 * mg/L 13 14 14 15 17 13 13 13 9 13 15 10 15 15 10 12 13</pre>	NH3-N mg/L < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L 36 34 38 39 40 41 36 41 39 41 40 60 36 46 36 46 37	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 12 13 11 9 12 14 8 11	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55	29.3  Field T  23.7  7.8  14.3  19.5  8.2  16  17.8  10.2  12.6  22.3  10.3  1/a  20.8  3.6  16.2  16.8  8.3	0.64  Field Co  20  20  44  44  30  54  38  42  32
5/17/2017 8/29/2017 10/24/2017 10/24/2017  Parameter - WQO - Inits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 8/15/2007 10/18/2007 10/18/2008 10/24/2008 10/24/2008 5/19/2009 5/18/2009 10/22/2009 5/18/2010 10/21/2010 10/21/2010 10/21/2010 10/21/2010	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.0005 <0.005 <0.005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	<ul> <li>&lt;0.02</li> <li>zn</li> <li>0.02</li> <li>mg/L</li> <li>&lt;0.005</li> <li>&lt;0.005</li> <li>&lt;0.01</li> <li>&lt;0.01</li> <li>&lt;0.01</li> <li>&lt;0.01</li> <li>&lt;0.01</li> <li>&lt;0.01</li> <li>&lt;0.01</li> </ul>	<0.010 NO2-N mg/L < 0.3 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.05	<0.00002  NO3-N  mg/L  1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<ul> <li>&lt;0.001</li> <li>SO4</li> <li>mg/L</li> <li>10.8</li> <li>3.0</li> <li>&lt;1</li> <li>3.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>4.0</li> <li>5.0</li> <li>3.0</li> <li>6.0</li> <li>5.0</li> <li>3.0</li> </ul>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.36 7.10 7.40 6.80 7.30 7.00 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.10 7.10 7.10 7.09	<0.06 <0.06  alk42  mg/L  13  14  14  14  15  17  13  13  10  15  15  10  12  13  11		18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L 36 34 38 39 40 41 36 41 40 60 36 46 36 37 37	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11 11 9 12 14 8 11 10	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60	29.3  Field T  23.7 7.8 14.3 19.5 8.2 16 17.8 10.2 12.6 22.3 10.3 n/a 20.8 3.6 16.2 16.8 8.3 13.7	0.64  Field Cc  20 20 44  44  30 54 38 42 32 65 30
5/17/2017 8/29/2017 10/24/2017 10/24/2017  Parameter - WQO - inits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 10/18/2007 10/18/2008 8/20/2008 10/24/2008 8/19/2009 10/24/2008 5/19/2009 10/24/2009 5/18/2010 10/21/2010 10/21/2010 10/21/2010 10/21/2011 10/21/2011	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.0005 <0.005 <0.005 <0.005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	<ul> <li>&lt;0.02</li> <li>zn</li> <li>0.02</li> <li>mg/L</li> <li>&lt;0.005</li> <li>&lt;0.005</li> <li>&lt;0.01</li> </ul>	<ul> <li>&lt;0.010</li> <li>NO2-N</li> <li>mg/L</li> <li>&lt;0.3</li> <li>&lt;0.01</li> </ul>	<0.00002  NO3-N  mg/L  1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<ul> <li>&lt;0.001</li> <li>SO4</li> <li>mg/L</li> <li>10.8</li> <li>3.0</li> <li>&lt;1</li> <li>3.0</li> <li>3.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>5.0</li> <li>3.0</li> <li>4.0</li> <li>5.0</li> <li>3.0</li> </ul>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.40 7.40 7.40 7.00 7.00 7.00 7.00 7.00	<0.06 <0.06 alk42 * 13 14 14 15 17 13 13 13 9 13 10 15 15 10 12 13 11 12		18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L  36  34  38  39  40  41  36  41  40  60  36  37  37  35	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 8.32 7.7 7.43 7.95 8.84 7.91 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23	29.3  Field T  23.7  7.8  14.3  19.5  8.2  10.2  12.6  22.3  10.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21	0.64  Field Cc  20 20 44  30 54 38 42 32 65 30 36
5/17/2017 8/29/2017 10/24/2017 10/24/2017 10/24/2017  Parameter - WQO - Inits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2009 10/22/2009 8/18/2009 10/22/2009 5/18/2010 10/21/2010 5/31/2011 10/25/2011	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.0005 <0.005 <0.005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	<ul> <li>&lt;0.02</li> <li>zn</li> <li>0.02</li> <li>mg/L</li> <li>&lt;0.005</li> <li>&lt;0.005</li> <li>&lt;0.01</li> <li>&lt;0.01</li> <li>&lt;0.01</li> <li>&lt;0.01</li> <li>&lt;0.01</li> <li>&lt;0.01</li> <li>&lt;0.01</li> </ul>	<ul> <li>&lt;0.010</li> <li>NO2-N</li> <li>mg/L</li> <li>&lt;0.3</li> <li>&lt;0.01</li> </ul>	<0.00002 NO3-N mg/L 1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<ul> <li>&lt;0.001</li> <li>SO4</li> <li>mg/L</li> <li>10.8</li> <li>3.0</li> <li>&lt;1</li> <li>3.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>4.0</li> <li>5.0</li> <li>3.0</li> <li>6.0</li> <li>5.0</li> <li>3.0</li> </ul>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.36 7.40 7.40 6.80 7.30 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.10 7.10 7.10 7.09 7.09	<pre>&lt;0.06 &lt;0.06  alk42  * mg/L  13  14  14  15  17  13  13  9  13  10  15  10  12  13  11  12  13</pre>	<ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> </ul>	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L 36 34 38 39 40 41 36 41 39 41 40 60 36 36 37 37 37 37 35 38	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32	29.3  Field T  23.7  7.8  14.3  19.5  8.2  16.6  17.8  10.2  12.6  22.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9	0.64  Field Co  20  20  44  30  54  38  42  32  65  30  36  90
5/17/2017 8/29/2017 10/24/2017 10/24/2017  Parameter - WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 10/24/2008 10/24/2009 5/18/2010 10/22/2009 5/18/2010 10/21/2010 5/31/2011 8/25/2011 10/25/2011 5/18/2012	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.005 <0.005 <0.005 <0.0005 <0.0005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	<ul> <li>&lt;0.02</li> <li>Zn</li> <li>0.02</li> <li>mg/L</li> <li>&lt;0.005</li> <li>&lt;0.005</li> <li>&lt;0.01</li> </ul>	<ul> <li>&lt;0.010</li> <li>NO2-N</li> <li>mg/L</li> <li>&lt;0.3</li> <li>&lt;0.01</li> </ul>	<0.00002 NO3-N mg/L 1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<ul> <li>&lt;0.001</li> <li>SO4</li> <li>mg/L</li> <li>10.8</li> <li>3.0</li> <li>&lt;1</li> <li>3.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>4.0</li> <li>5.0</li> <li>3.0</li> <li>6.0</li> <li>5.0</li> <li>3.0</li> </ul>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.36 7.40 7.40 6.80 7.00 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.09 7.09 7.59 7.37 6.63	<pre>&lt;0.06 &lt;0.06  alk42  * mg/L  13  14  14  14  15  17  13  13  10  15  15  10  12  13  11  12  13  12</pre>	<ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> </ul>	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L 36 34 38 39 40 41 36 41 39 41 40 60 36 46 36 47 37 37 37 37 37 38	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32 6.04	29.3  Field T  23.7  7.8  14.3  19.5  8.2  16  17.8  10.2  12.6  22.3  10.3  1/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20	0.64  Field Co  20  20  44  44  30  54  38  42  32  65  30  36  90  43
5/17/2017 8/29/2017 10/24/2017 10/24/2017  Parameter - WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 10/18/2007 10/18/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2009 5/18/2010 10/21/2010 10/21/2010 10/21/2010 10/21/2010 10/21/2011 10/25/2011 10/25/2011 10/25/2011 10/25/2011 10/25/2011 10/25/2011	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	<ul> <li>&lt;0.02</li> <li>zn</li> <li>0.02</li> <li>mg/L</li> <li>&lt;0.005</li> <li>&lt;0.005</li> <li>&lt;0.01</li> </ul>	<ul> <li>&lt;0.010</li> <li>NO2-N</li> <li>mg/L</li> <li>&lt;0.3</li> <li>&lt;0.01</li> </ul>	<0.00002  NO3-N  mg/L  1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<ul> <li>&lt;0.001</li> <li>SO4</li> <li>mg/L</li> <li>10.8</li> <li>3.0</li> <li>4.1</li> <li>3.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>4.0</li> <li>5.0</li> <li>3.0</li> <li>6.0</li> <li>5.0</li> <li>3.0</li> </ul>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.36 7.10 7.40 6.80 7.30 7.00 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.10 7.10 7.10 7.10 7.59 7.37 6.63 6.37	<0.06 <0.06 alk42 * mg/L 13 14 14 14 15 17 13 13 13 13 13 10 15 15 10 12 13 11 12 13 11 12 13 11 12 13 11 12 11 12 11 11 12 11 11 12 11 11 12 11 11	<ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> </ul>	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L  36  34  38  39  40  41  36  41  40  60  36  37  37  35  38  38  37	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 9 8	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32 6.04 8.13	29.3  Field T  23.7  7.8  14.3  19.5  8.2  16  17.8  10.2  12.6  22.3  10.3  n/a  20.8  16.2  16.8  8.3  13.7  21  6.9  20.1	0.64  Field Co  20  20  44  44  30  54  38  42  32  65  30  36  90  43  75
5/17/2017 8/29/2017 10/24/2017 10/24/2017  Parameter - WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 10/18/2007 10/18/2009 10/24/2008 8/20/2008 10/24/2008 8/20/2008 10/24/2008 5/19/2009 10/21/2010 10/21/2010 5/18/2011 10/21/2011 5/31/2011 10/25/2011 5/18/2011 5/18/2012 10/23/2012	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.005 <0.005 <0.005 <0.0005 <0.0005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	<ul> <li>&lt;0.02</li> <li>Zn</li> <li>0.02</li> <li>mg/L</li> <li>&lt;0.005</li> <li>&lt;0.005</li> <li>&lt;0.01</li> </ul>	<ul> <li>&lt;0.010</li> <li>NO2-N</li> <li>mg/L</li> <li>&lt;0.3</li> <li>&lt;0.01</li> </ul>	<0.00002  NO3-N  mg/L  1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<ul> <li>&lt;0.001</li> <li>SO4</li> <li>mg/L</li> <li>10.8</li> <li>3.0</li> <li>&lt;1</li> <li>3.0</li> <li>3.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>4.0</li> <li>5.0</li> <li>3.0</li> <li>5.0</li> <li>3.0</li> <li>3.0<!--</td--><td>0.0041  pH 6.5 - 8.5 n/a 7.41 7.40 7.40 7.40 7.00 7.00 7.00 7.00 7.00</td><td>&lt;0.06 &lt;0.06 alk42 * 13 14 14 15 17 13 13 13 9 13 10 15 15 10 12 13 11 12 13 11 12 13 12 11 12 11 12</td><td><ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> </ul></td><td>18 Unionized NH3-N 0.02 mg/L &lt;0.0005 /td><td>0.26  Cond.  mg/L  36  34  38  39  40  41  36  41  40  60  36  37  37  37  35  38  38  39  37  38</td><td>0.005 0.010  Phenols 0.001 mg/L &lt;0.001 /td><td>mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 9 8 10</td><td>13.0  Field pH  4.90 4.10 7.90 7.76 7.96 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.55 7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57</td><td>29.3  Field T  23.7  7.8  14.3  19.5  8.2  10.2  12.6  22.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20.1  7.9</td><td>0.64  Field Co  20  20  44  30  54  38  42  32  65  30  36  90  43  75  38</td></li></ul>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.40 7.40 7.40 7.00 7.00 7.00 7.00 7.00	<0.06 <0.06 alk42 * 13 14 14 15 17 13 13 13 9 13 10 15 15 10 12 13 11 12 13 11 12 13 12 11 12 11 12	<ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> </ul>	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L  36  34  38  39  40  41  36  41  40  60  36  37  37  37  35  38  38  39  37  38	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 9 8 10	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.55 7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57	29.3  Field T  23.7  7.8  14.3  19.5  8.2  10.2  12.6  22.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20.1  7.9	0.64  Field Co  20  20  44  30  54  38  42  32  65  30  36  90  43  75  38
5/17/2017 8/29/2017 10/24/2017 10/24/2017 10/24/2017  Parameter -  WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 5/19/2009 8/18/2009 10/22/2009 5/18/2010 10/21/2010 5/31/2011 8/24/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 5/24/2013	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.0005 <0.005 <0.005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	<ul> <li>&lt;0.02</li> <li>Zn</li> <li>0.02</li> <li>mg/L</li> <li>&lt;0.005</li> <li>&lt;0.005</li> <li>&lt;0.01</li> </ul>	<ul> <li>&lt;0.010</li> <li>NO2-N</li> <li>mg/L</li> <li>&lt;0.3</li> <li>&lt;0.01</li> </ul>	<0.00002 NO3-N mg/L 1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<ul> <li>&lt;0.001</li> <li>SO4</li> <li>mg/L</li> <li>10.8</li> <li>3.0</li> <li>&lt;1</li> <li>3.0</li> <li>3.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>4.0</li> <li>5.0</li> <li>3.0</li> <li>6.0</li> <li>5.0</li> <li>3.0</li> <li>3.0<!--</td--><td>0.0041  pH 6.5 - 8.5 n/a 7.41 7.36 7.40 7.40 6.80 7.30 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.09 7.09 7.59 7.37 6.63 6.37 6.67 7.19</td><td>&lt;0.06 &lt;0.06 alk42 * mg/L 13 14 14 15 17 13 13 13 13 13 10 15 15 10 12 13 11 12 13 11 12 13 12 11 12 12 11 12 12 12 12</td><td><ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> <li>&lt;0.07</li> </ul></td><td>18 Unionized NH3-N 0.02 mg/L &lt;0.0005 /td><td>0.26  Cond.  mg/L 36 34 38 39 40 41 39 41 40 60 36 46 37 37 37 37 37 37 37 37 37 37 38 38 38 37</td><td>0.005 0.010  Phenols 0.001 mg/L &lt;0.001 /td><td>mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 9 8 10 12</td><td>13.0  Field pH  4.90 4.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12</td><td>29.3  Field T  23.7  7.8  14.3  19.5  8.2  16  17.8  10.2  12.6  22.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20.1  20.1  7.9  17.3</td><td>0.64  Field Co  20  20  44  30  54  38  42  32  65  30  36  90  43  75  38  38</td></li></ul>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.36 7.40 7.40 6.80 7.30 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.09 7.09 7.59 7.37 6.63 6.37 6.67 7.19	<0.06 <0.06 alk42 * mg/L 13 14 14 15 17 13 13 13 13 13 10 15 15 10 12 13 11 12 13 11 12 13 12 11 12 12 11 12 12 12 12	<ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> <li>&lt;0.07</li> </ul>	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L 36 34 38 39 40 41 39 41 40 60 36 46 37 37 37 37 37 37 37 37 37 37 38 38 38 37	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 9 8 10 12	13.0  Field pH  4.90 4.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12	29.3  Field T  23.7  7.8  14.3  19.5  8.2  16  17.8  10.2  12.6  22.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20.1  20.1  7.9  17.3	0.64  Field Co  20  20  44  30  54  38  42  32  65  30  36  90  43  75  38  38
5/17/2017 8/29/2017 10/24/2017 10/24/2017 10/24/2017  Parameter -  WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 10/24/2008 10/24/2008 5/18/2010 10/21/2009 5/18/2010 10/21/2010 5/31/2011 8/24/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 10/23/2012 10/23/2013	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	<ul> <li>&lt;0.02</li> <li>Zn</li> <li>0.02</li> <li>mg/L</li> <li>&lt;0.005</li> <li>&lt;0.005</li> <li>&lt;0.01</li> </ul>	<ul> <li>&lt;0.010</li> <li>NO2-N</li> <li>mg/L</li> <li>&lt;0.3</li> <li>&lt;0.01</li> </ul>	<0.00002 NO3-N mg/L 1.700 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<ul> <li>&lt;0.001</li> <li>SO4</li> <li>mg/L</li> <li>10.8</li> <li>3.0</li> <li>&lt; 1</li> <li>3.0</li> <li>3.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>4.0</li> <li>5.0</li> <li>3.0</li> <li>6.0</li> <li>5.0</li> <li>3.0</li> <li>3.0&lt;</li></ul>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.36 7.40 7.40 6.80 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7	<0.06 <0.06 alk42 * mg/L 13 14 14 14 15 17 13 13 13 13 13 15 15 10 15 15 16 17 18 19 11 12 13 11 12 13 11 12 13 11 12 13 11 12 13 11 12 13 11 12 13 11 12 13 11 12 13 11 12 13 11 12 13 11 12 13 14 15 16 17 18 19 19 19 19 19 19 19 10 10 11 12 13 11 12 13 14 15 16 17 18 19 1	<ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> </ul>	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L 36 34 38 39 40 41 39 41 40 60 36 46 36 37 37 37 37 37 37 37 37 37 37 37	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 9 8 10 10 12 8	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92	29.3  Field T  23.7  7.8  14.3  19.5  8.2  16  17.8  10.2  12.6  22.3  10.3  1/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20.1  7.9  17.3  23.5	0.64  Field Co  20  20  44  44  30  54  38  42  32  65  30  36  90  43  75  38  38  86  65
5/17/2017 8/29/2017 10/24/2017 10/24/2017  Parameter - WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 8/15/2007 10/18/2007 10/18/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2009 10/22/2009 5/18/2010 10/21/2010 10/21/2010 10/21/2010 10/21/2011 10/25/2011 10/25/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 10/23/2013 10/17/2013	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.0005 <0.005 <0.005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	<ul> <li>&lt;0.02</li> <li>Zn</li> <li>0.02</li> <li>mg/L</li> <li>&lt;0.005</li> <li>&lt;0.005</li> <li>&lt;0.01</li> </ul>	<ul> <li>&lt;0.010</li> <li>NO2-N</li> <li>mg/L</li> <li>&lt;0.03</li> <li>&lt;0.01</li> </ul>	<0.00002  NO3-N  mg/L  1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<ul> <li>&lt;0.001</li> <li>SO4</li> <li>mg/L</li> <li>10.8</li> <li>3.0</li> <li>&lt;1</li> <li>3.0</li> <li>3.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>4.0</li> <li>5.0</li> <li>3.0</li> <li>6.0</li> <li>5.0</li> <li>3.0</li> <li>3.0<!--</td--><td>0.0041  pH 6.5 - 8.5 n/a 7.41 7.36 7.10 7.40 6.80 7.30 7.00 7.00 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.10 7.10 7.11 6.80 6.37 6.63 6.37 6.76 7.19 7.16 6.83</td><td>&lt;0.06 &lt;0.06  alk42  mg/L  13  14  14  14  15  17  13  13  10  15  10  12  13  11  12  13  11  12  13  12  11  12  12</td><td><ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> </ul></td><td>18 Unionized NH3-N 0.02 mg/L &lt;0.0005 /td><td>0.26  Cond.  mg/L  36  34  38  39  40  41  36  41  40  60  36  37  37  35  38  38  37  38  37  37  37</td><td>0.005 0.010  Phenols 0.001 mg/L &lt;0.001 /td><td>mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 10 12 8 11 10 12 12 14 10 10 10 10 11 11 11 11 11 11 11 11 11</td><td>13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.95 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.57 8.12 8.30</td><td>29.3  Field T  23.7  7.8  14.3  19.5  8.2  16  17.8  10.2  12.6  22.3  10.3  n/a  20.8  8.3  16.2  16.8  8.3  7.2  16.9  20.1  7.9  17.3  23.5  9.9</td><td>0.64  Field Co  20  20  44  44  30  54  38  42  32  65  30  36  90  38  38  38  38  38  38  38  38  38</td></li></ul>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.36 7.10 7.40 6.80 7.30 7.00 7.00 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.10 7.10 7.11 6.80 6.37 6.63 6.37 6.76 7.19 7.16 6.83	<0.06 <0.06  alk42  mg/L  13  14  14  14  15  17  13  13  10  15  10  12  13  11  12  13  11  12  13  12  11  12  12	<ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> </ul>	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L  36  34  38  39  40  41  36  41  40  60  36  37  37  35  38  38  37  38  37  37  37	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 10 12 8 11 10 12 12 14 10 10 10 10 11 11 11 11 11 11 11 11 11	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.95 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.57 8.12 8.30	29.3  Field T  23.7  7.8  14.3  19.5  8.2  16  17.8  10.2  12.6  22.3  10.3  n/a  20.8  8.3  16.2  16.8  8.3  7.2  16.9  20.1  7.9  17.3  23.5  9.9	0.64  Field Co  20  20  44  44  30  54  38  42  32  65  30  36  90  38  38  38  38  38  38  38  38  38
5/17/2017 8/29/2017 10/24/2017 10/24/2017  Parameter - WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 10/18/2007 10/18/2009 10/24/2008 8/20/2008 10/24/2008 8/20/2008 10/24/2008 10/24/2008 5/19/2009 5/18/2010 8/25/2010 10/21/2010 5/31/2011 8/25/2011 5/18/2011 5/18/2012 10/23/2012 10/23/2012 5/24/2013 8/29/2013 10/17/2013 5/23/2014	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	<ul> <li>&lt;0.02</li> <li>zn</li> <li>0.02</li> <li>mg/L</li> <li>&lt;0.005</li> <li>&lt;0.005</li> <li>&lt;0.01</li> </ul>	<ul> <li>&lt;0.010</li> <li>NO2-N</li> <li>mg/L</li> <li>&lt;0.3</li> <li>&lt;0.01</li> </ul>	<0.00002 NO3-N mg/L 1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<ul> <li>&lt;0.001</li> <li>SO4</li> <li>mg/L</li> <li>10.8</li> <li>3.0</li> <li>&lt;1</li> <li>3.0</li> <li>3.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>4.0</li> <li>5.0</li> <li>3.0</li> <li>5.0</li> <li>3.0</li> <li>3.0<!--</td--><td>0.0041  pH 6.5 - 8.5 n/a 7.41 7.40 7.40 7.40 7.40 6.80 7.30 7.00 7.00 7.00 7.00 7.10 7.10 7.10 7.1</td><td>&lt;0.06 &lt;0.06 * * 13 14 14 15 17 13 13 13 13 13 10 15 15 10 12 13 13 11 12 13 11 12 13 11 12 13 11 12 13 13 14 15 16 17 17 18 19 <p< td=""><td><ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> </ul></td><td>18 Unionized NH3-N 0.02 mg/L &lt;0.0005 /td><td>0.26  Cond.  mg/L  36  34  38  39  40  41  39  40  41  40  60  36  37  37  35  38  38  38  37  37  36</td><td>0.005 0.010  Phenols 0.001 mg/L &lt;0.001 /td><td>mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 9 8 10 12 8 11 10</td><td>13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.96 8.32 7.7 7.43 7.95 8.84 7.91 8.55 7.97 8.55 8.32 7.7 7.43 7.97 8.55 7.97 8.55 7.97 8.55 7.97 8.55 7.97 8.79 8.79 8.79 8.79 8.79 8.79 8.79</td><td>29.3  Field T  23.7  7.8  14.3  19.5  8.2  16.6  17.8  10.2  12.6  22.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20  20.1  7.9  17.3  23.5  9.9  15.1</td><td>0.64  Field Co  20  20  44  30  54  38  43  32  65  30  36  90  43  75  38  38  38  38  78</td></p<></td></li></ul>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.40 7.40 7.40 7.40 6.80 7.30 7.00 7.00 7.00 7.00 7.10 7.10 7.10 7.1	<0.06 <0.06 * * 13 14 14 15 17 13 13 13 13 13 10 15 15 10 12 13 13 11 12 13 11 12 13 11 12 13 11 12 13 13 14 15 16 17 17 18 19 <p< td=""><td><ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> </ul></td><td>18 Unionized NH3-N 0.02 mg/L &lt;0.0005 /td><td>0.26  Cond.  mg/L  36  34  38  39  40  41  39  40  41  40  60  36  37  37  35  38  38  38  37  37  36</td><td>0.005 0.010  Phenols 0.001 mg/L &lt;0.001 /td><td>mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 9 8 10 12 8 11 10</td><td>13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.96 8.32 7.7 7.43 7.95 8.84 7.91 8.55 7.97 8.55 8.32 7.7 7.43 7.97 8.55 7.97 8.55 7.97 8.55 7.97 8.55 7.97 8.79 8.79 8.79 8.79 8.79 8.79 8.79</td><td>29.3  Field T  23.7  7.8  14.3  19.5  8.2  16.6  17.8  10.2  12.6  22.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20  20.1  7.9  17.3  23.5  9.9  15.1</td><td>0.64  Field Co  20  20  44  30  54  38  43  32  65  30  36  90  43  75  38  38  38  38  78</td></p<>	<ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> </ul>	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L  36  34  38  39  40  41  39  40  41  40  60  36  37  37  35  38  38  38  37  37  36	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 9 8 10 12 8 11 10	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.96 8.32 7.7 7.43 7.95 8.84 7.91 8.55 7.97 8.55 8.32 7.7 7.43 7.97 8.55 7.97 8.55 7.97 8.55 7.97 8.55 7.97 8.79 8.79 8.79 8.79 8.79 8.79 8.79	29.3  Field T  23.7  7.8  14.3  19.5  8.2  16.6  17.8  10.2  12.6  22.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20  20.1  7.9  17.3  23.5  9.9  15.1	0.64  Field Co  20  20  44  30  54  38  43  32  65  30  36  90  43  75  38  38  38  38  78
5/17/2017 8/29/2017 10/24/2017 10/24/2017 10/24/2017 10/24/2017  WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2009 10/22/2009 5/18/2010 10/21/2010 5/31/2011 8/24/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 10/23/2012 10/23/2013 10/17/2013 15/23/2014 8/21/2014	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	<ul> <li>&lt;0.02</li> <li>Zn</li> <li>0.02</li> <li>mg/L</li> <li>&lt;0.005</li> <li>&lt;0.005</li> <li>&lt;0.01</li> </ul>	<ul> <li>&lt;0.010</li> <li>NO2-N</li> <li>mg/L</li> <li>&lt;0.3</li> <li>&lt;0.01</li> <li>&lt;0.05</li> </ul>	<0.00002 NO3-N mg/L 1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.5	<ul> <li>&lt;0.001</li> <li>SO4</li> <li>mg/L</li> <li>10.8</li> <li>3.0</li> <li>&lt;1</li> <li>3.0</li> <li>3.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>4.0</li> <li>5.0</li> <li>3.0</li> <li>5.0</li> <li>3.0</li> <li>3.0<!--</td--><td>0.0041  pH 6.5 - 8.5 n/a 7.41 7.36 7.40 7.40 7.40 6.80 7.30 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7</td><td><pre>&lt;0.06 &lt;0.06  alk42  * mg/L  13  14  14  14  15  17  13  13  9  13  10  15  10  12  13  11  12  13  12  11  12  13  12  11  12  13  12  11  12  13  11  12  13  11  12  13  11  11</pre></td><td><ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> </ul></td><td>18 Unionized NH3-N 0.02 mg/L &lt;0.0005 /td><td>0.26  Cond.  mg/L 36 34 38 39 40 41 39 41 40 60 36 46 37 37 37 37 37 38 38 38 37 37 37 37 37 37 37 37 37 37 37 37</td><td>0.005 0.010  Phenols 0.001 mg/L &lt;0.001 /td><td>mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 8 10 12 8 11 10 9</td><td>13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58</td><td>29.3  Field T  23.7  7.8  14.3  19.5  8.2  16  17.8  10.2  12.6  22.3  10.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20  20.1  7.9  17.3  23.5  9.9  15.1  22</td><td>0.64  Field Co  20  20  44  30  54  38  42  32  65  30  36  90  43  75  38  38  65  38  78  51</td></li></ul>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.36 7.40 7.40 7.40 6.80 7.30 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7	<pre>&lt;0.06 &lt;0.06  alk42  * mg/L  13  14  14  14  15  17  13  13  9  13  10  15  10  12  13  11  12  13  12  11  12  13  12  11  12  13  12  11  12  13  11  12  13  11  12  13  11  11</pre>	<ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> </ul>	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L 36 34 38 39 40 41 39 41 40 60 36 46 37 37 37 37 37 38 38 38 37 37 37 37 37 37 37 37 37 37 37 37	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 8 10 12 8 11 10 9	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58	29.3  Field T  23.7  7.8  14.3  19.5  8.2  16  17.8  10.2  12.6  22.3  10.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20  20.1  7.9  17.3  23.5  9.9  15.1  22	0.64  Field Co  20  20  44  30  54  38  42  32  65  30  36  90  43  75  38  38  65  38  78  51
5/17/2017 8/29/2017 10/24/2017 10/24/2017 10/24/2017  Parameter -  WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2009 5/18/2009 10/22/2009 5/18/2010 10/21/2010 10/21/2010 5/31/2011 8/24/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 10/23/2013 10/17/2013 5/23/2014 10/9/2014	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	<ul> <li>&lt;0.02</li> <li>zn</li> <li>0.02</li> <li>mg/L</li> <li>&lt;0.005</li> <li>&lt;0.005</li> <li>&lt;0.01</li> </ul>	<ul> <li>&lt;0.010</li> <li>NO2-N</li> <li>mg/L</li> <li>&lt;0.3</li> <li>&lt;0.01</li> <li>&lt;0.05</li> <li>&lt;0.05</li> <li>&lt;0.05</li> <li>&lt;0.01</li> </ul>	<0.00002 NO3-N mg/L 1.700 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.5 <0.1	<ul> <li>&lt;0.001</li> <li>SO4</li> <li>mg/L</li> <li>10.8</li> <li>3.0</li> <li>&lt; 1</li> <li>3.0</li> <li>3.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>4.0</li> <li>5.0</li> <li>3.0</li> <li>6.0</li> <li>5.0</li> <li>3.0</li> <li>3.0&lt;</li></ul>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.36 7.40 7.40 6.80 7.30 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7	<0.06 <0.06  alk42  mg/L  13  14  14  14  15  17  13  13  10  15  15  10  12  13  11  12  13  11  12  11  12  13  11  12  11  12  13  12  11  12  13  12  11  12  13  12  11  12  13  12  11  12  13  12  11  12  13  12  11  12  13  12  11  12  13  12  11  12  13  12  11  12  13  12  11  12  13  12  11  13  12  11  12  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  12  14  15  16  17  17  18  18  18  18  18  18  18  18	<ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> <li>&lt;0.06</li> <li>&lt;0.05</li> /ul>	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L 36 34 38 39 40 41 39 41 40 60 36 46 37 37 37 37 37 38 38 37 37 37 37 37 37 37 37	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 9 8 10 10 9 11 10 9 11	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69	29.3  Field T  23.7  7.8  14.3  19.5  8.2  16  22.3  10.3  10.3  10.3  10.3  20.8  3.6  16.2  16.8  8.3  13.7  21  20.1  7.9  20  20.1  7.9  20  20.1  7.9  9.9  15.1  22  8.9	0.64  Field Co  20  20  44  44  30  54  38  42  32  65  30  36  90  43  75  38  38  65  38  78  51  33
5/17/2017 8/29/2017 10/24/2017 10/24/2017  Parameter - WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2009 10/22/2009 5/18/2010 10/21/2010 10/21/2010 10/21/2011 10/25/2011 10/25/2011 10/25/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 10/23/2013 10/17/2013 5/23/2014 8/21/2014 10/19/2014 10/21/2015	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.0005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	<ul> <li>&lt;0.02</li> <li>zn</li> <li>0.02</li> <li>mg/L</li> <li>&lt;0.005</li> <li>&lt;0.005</li> <li>&lt;0.01</li> </ul>	<ul> <li>&lt;0.010</li> <li>NO2-N</li> <li>mg/L</li> <li>&lt;0.3</li> <li>&lt;0.01</li> </ul>	<0.00002 NO3-N mg/L 1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<ul> <li>&lt;0.001</li> <li>SO4</li> <li>mg/L</li> <li>10.8</li> <li>3.0</li> <li>&lt;1</li> <li>3.0</li> <li>3.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>4.0</li> <li>5.0</li> <li>3.0</li> <li>3.0<!--</td--><td>0.0041  pH 6.5 - 8.5 n/a 7.41 7.40 7.40 7.40 7.40 6.80 7.30 7.00 7.00 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.10 7.19 7.59 7.37 6.76 7.19 6.83 6.46 7.11 6.68 6.14</td><td><pre>&lt;0.06 &lt;0.06  alk42  ** mg/L  13  14  14  14  15  17  13  13  10  15  10  12  13  11  12  13  11  12  13  11  12  11  12  12</pre></td><td><ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> <li>&lt;0.064</li> <li>&lt;0.05</li> </ul></td><td>18 Unionized NH3-N 0.02 mg/L &lt;0.0005 /td><td>0.26  Cond.  mg/L  36  34  38  39  40  41  36  41  40  60  36  37  37  35  38  38  37  37  36  37  37  37  36</td><td>0.005 0.010  Phenols 0.001 mg/L &lt;0.001 &lt;0.0002 &lt;0.001</td><td>mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 12 8 11 10 9 11 11 11</td><td>13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.96 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24</td><td>29.3  Field T  23.7  7.8  14.3  19.5  8.2  16  17.8  10.2  12.6  22.3  10.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20.1  7.9  17.3  23.5  29.9  15.1  22.9  12.7</td><td>0.64  Field Co  20  20  44  44  30  54  38  42  32  65  30  36  90  43  75  38  38  78  51  33  39  29</td></li></ul>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.40 7.40 7.40 7.40 6.80 7.30 7.00 7.00 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.10 7.19 7.59 7.37 6.76 7.19 6.83 6.46 7.11 6.68 6.14	<pre>&lt;0.06 &lt;0.06  alk42  ** mg/L  13  14  14  14  15  17  13  13  10  15  10  12  13  11  12  13  11  12  13  11  12  11  12  12</pre>	<ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> <li>&lt;0.064</li> <li>&lt;0.05</li> </ul>	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L  36  34  38  39  40  41  36  41  40  60  36  37  37  35  38  38  37  37  36  37  37  37  36	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.0002 <0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 12 8 11 10 9 11 11 11	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.96 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24	29.3  Field T  23.7  7.8  14.3  19.5  8.2  16  17.8  10.2  12.6  22.3  10.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20.1  7.9  17.3  23.5  29.9  15.1  22.9  12.7	0.64  Field Co  20  20  44  44  30  54  38  42  32  65  30  36  90  43  75  38  38  78  51  33  39  29
5/17/2017 8/29/2017 10/24/2017 10/24/2017 10/24/2017  Parameter - WQO - Inits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2009 10/22/2009 10/22/2009 10/22/2009 10/22/2009 10/22/2009 10/22/2009 10/22/2009 10/22/2009 10/22/2009 10/22/2009 10/22/2009 10/22/2009 10/22/2009 10/22/2009 10/23/2010 10/21/2010 5/31/2011 10/25/2011 10/25/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 10/23/2012 5/24/2013 8/29/2013 10/17/2013 5/23/2014 8/21/2014 10/9/2014 5/21/2015 8/25/2015	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.0005 <0.005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	<ul> <li>&lt;0.02</li> <li>zn</li> <li>0.02</li> <li>mg/L</li> <li>&lt;0.005</li> <li>&lt;0.005</li> <li>&lt;0.01</li> </ul>	<ul> <li>&lt;0.010</li> <li>NO2-N</li> <li>mg/L</li> <li>&lt;0.3</li> <li>&lt;0.01</li> </ul>	<0.00002 NO3-N mg/L 1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<ul> <li>&lt;0.001</li> <li>SO4</li> <li>mg/L</li> <li>10.8</li> <li>3.0</li> <li>&lt;1</li> <li>3.0</li> <li>3.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>4.0</li> <li>5.0</li> <li>3.0</li> <li>3.5</li> </ul>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.40 7.40 7.40 7.40 6.80 7.30 7.00 7.00 7.00 7.00 7.10 7.10 7.10 7.1	<pre>&lt;0.06 &lt;0.06  alk42  * mg/L  13  14  14  15  17  13  13  19  13  10  15  10  12  13  11  12  13  11  12  13  12  11  12  13  12  11  12  13  11  12  13  11  11</pre>	<ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> </ul>	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L  36  34  38  39  40  41  39  40  60  36  37  37  35  38  38  39  37  37  37  37  37  37	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 9 8 10 12 8 11 10 9 11 11 10	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24 6.30	29.3  Field T  23.7  7.8  14.3  19.5  8.2  16.6  17.8  10.2  12.6  22.3  10.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20.1  7.9  17.3  23.5  9.9  15.1  22  8.9  12.7  19.5	0.64  Field Co  20  20  44  44  30  54  38  36  90  43  75  38  38  65  38  78  51  33  29  31
5/17/2017 8/29/2017 10/24/2017 10/24/2017 10/24/2017  Parameter - WQO - nitts - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2009 10/18/2009 10/18/2009 10/18/2010 10/21/2010 10/21/2010 10/21/2010 10/21/2010 10/21/2011 10/25/2011 10/25/2011 10/25/2013 8/29/2013 10/17/2013 8/29/2013 10/17/2013 8/29/2014 10/9/2014 10/9/2014 10/9/2014 15/21/2015 8/25/2015 10/20/2015	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.0005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	<ul> <li>&lt;0.02</li> <li>zn</li> <li>0.02</li> <li>mg/L</li> <li>&lt;0.005</li> <li>&lt;0.005</li> <li>&lt;0.01</li> </ul>	<ul> <li>&lt;0.010</li> <li>NO2-N</li> <li>mg/L</li> <li>&lt;0.3</li> <li>&lt;0.01</li> </ul>	<0.00002 NO3-N mg/L 1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<ul> <li>&lt;0.001</li> <li>SO4</li> <li>mg/L</li> <li>10.8</li> <li>3.0</li> <li>&lt;1</li> <li>3.0</li> <li>3.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>4.0</li> <li>5.0</li> <li>3.0</li> <li>5.0</li> <li>3.0</li> <li>3.5</li> <li>2.7</li> </ul>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.36 7.40 7.40 7.40 6.80 7.30 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.10 7.10 7.10 7.10 7.11 6.63 6.37 6.63 6.37 6.71 7.16 6.83 6.46 7.11 6.66 6.14 6.78 7.15	<pre>&lt;0.06 &lt;0.06  alk42  * mg/L  13  14  14  14  15  17  13  13  13  10  15  15  10  15  15  10  12  13  11  12  13  12  11  12  13  12  11  12  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  12  11  13  13</pre>	<ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> </ul>	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L 36 34 38 39 40 41 39 41 40 60 36 46 37 37 37 37 37 37 37 37 37 37 37 37 37	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 9 8 10 12 8 11 10 9 9 11 10 9 9 11 10 9	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24 6.30 8.41	29.3  Field T  23.7  7.8  14.3  19.5  8.2  16  17.8  10.2  12.6  22.3  10.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20  20.1  7.9  17.3  23.5  9.9  15.1  22  8.9  12.7  19.5  8.8	0.64  Field Co  20  20  44  30  54  38  42  32  65  30  36  90  43  75  38  86  51  33  29  311  29
5/17/2017 8/29/2017 10/24/2017 10/24/2017  Parameter - WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2009 9/18/2009 10/22/2009 5/18/2010 10/21/2010 10/21/2010 5/31/2011 8/24/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 10/23/2013 3/29/2013 10/17/2013 5/23/2014 10/9/2014 5/21/2015 10/20/2015 5/10/2016	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.0005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	<ul> <li>&lt;0.02</li> <li>zn</li> <li>0.02</li> <li>mg/L</li> <li>&lt;0.005</li> <li>&lt;0.005</li> <li>&lt;0.01</li> </ul>	<ul> <li>&lt;0.010</li> <li>NO2-N</li> <li>mg/L</li> <li>&lt;0.3</li> <li>&lt;0.01</li> </ul>	<0.00002  NO3-N  mg/L 1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<ul> <li>&lt;0.001</li> <li>SO4</li> <li>mg/L</li> <li>10.8</li> <li>3.0</li> <li>&lt;1</li> <li>3.0</li> <li>3.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>4.0</li> <li>5.0</li> <li>3.0</li> <li>3.0<!--</td--><td>0.0041  pH 6.5 - 8.5 n/a 7.41 7.40 7.40 6.80 7.30 7.00 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.10 7.10 7.10 7.11 6.63 6.37 6.76 7.19 7.16 6.83 6.46 6.78 7.11 6.66 6.14 6.78 7.15 7.20</td><td><pre>&lt;0.06 &lt;0.06  alk42  * mg/L  13  14  14  14  15  17  13  13  10  15  10  12  13  11  12  13  11  12  11  12  13  11  12  11  12  13  10  11  11  12  13  10  11  11  12  13  10  11  11  12  13  11  12  11  12  13  10  10  10  10  10  10  10  10  10</pre></td><td><ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> </ul></td><td>18 Unionized NH3-N 0.02 mg/L &lt;0.0005 /td><td>0.26  Cond.  mg/L  36  34  38  39  40  41  36  41  40  60  36  37  37  35  38  37  37  37  36  37  37  37  37  37  37</td><td>0.005 0.010  Phenols 0.001 mg/L &lt;0.001 /td><td>mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 9 8 10 12 8 11 10 9 11 11 10</td><td>13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24 6.30</td><td>29.3  Field T  23.7  7.8  14.3  19.5  8.2  16.6  17.8  10.2  12.6  22.3  10.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20  17.3  23.5  9.9  15.1  22  8.9  12.7  19.5</td><td>0.64  Field Co  20  20  44  44  30  54  38  38  65  38  38  65  38  38  75  51  33  29  31</td></li></ul>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.40 7.40 6.80 7.30 7.00 7.00 7.40 6.80 6.30 6.40 8.10 7.10 7.10 7.10 7.10 7.10 7.11 6.63 6.37 6.76 7.19 7.16 6.83 6.46 6.78 7.11 6.66 6.14 6.78 7.15 7.20	<pre>&lt;0.06 &lt;0.06  alk42  * mg/L  13  14  14  14  15  17  13  13  10  15  10  12  13  11  12  13  11  12  11  12  13  11  12  11  12  13  10  11  11  12  13  10  11  11  12  13  10  11  11  12  13  11  12  11  12  13  10  10  10  10  10  10  10  10  10</pre>	<ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> </ul>	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L  36  34  38  39  40  41  36  41  40  60  36  37  37  35  38  37  37  37  36  37  37  37  37  37  37	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 9 8 10 12 8 11 10 9 11 11 10	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24 6.30	29.3  Field T  23.7  7.8  14.3  19.5  8.2  16.6  17.8  10.2  12.6  22.3  10.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20  17.3  23.5  9.9  15.1  22  8.9  12.7  19.5	0.64  Field Co  20  20  44  44  30  54  38  38  65  38  38  65  38  38  75  51  33  29  31
5/17/2017 8/29/2017 10/24/2017 10/24/2017  Parameter - WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2009 10/22/2009 5/18/2010 10/21/2010 10/21/2010 10/21/2010 10/21/2010 5/31/2011 10/25/2011 10/25/2011 10/25/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 10/23/2013 10/17/2013 5/23/2014 8/21/2014 10/9/2014 5/21/2015 8/25/2015 10/20/2016	<0.0002  -0.0003	<ul> <li>&lt;0.02</li> <li>zn</li> <li>0.02</li> <li>mg/L</li> <li>&lt;0.005</li> <li>&lt;0.005</li> <li>&lt;0.01</li> </ul>	<ul> <li>&lt;0.010</li> <li>NO2-N</li> <li>mg/L</li> <li>&lt;0.3</li> <li>&lt;0.01</li> <li>&lt;0.001</li> <li>&lt;0.001</li> <li>&lt;0.01</li> <li>&lt;0.001</li> <li>&lt;0.001</li> <li>&lt;0.001</li> <li>&lt;0.001</li> </ul>	<0.00002  NO3-N  mg/L  1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<ul> <li>&lt;0.001</li> <li>SO4</li> <li>mg/L</li> <li>10.8</li> <li>3.0</li> <li>&lt;1</li> <li>3.0</li> <li>3.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>4.0</li> <li>5.0</li> <li>3.0</li> <li>3.0<!--</td--><td>0.0041  pH 6.5 - 8.5 n/a 7.41 7.40 7.40 7.40 7.40 6.80 7.30 7.00 7.00 7.00 7.10 7.10 7.10 7.10 7.1</td><td><pre>&lt;0.06 &lt;0.06  alk42  * mg/L  13  14  14  14  15  17  13  13  10  15  10  12  13  11  12  12  11  12  12  11  12  12</pre></td><td><ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> /ul></td><td>18 Unionized NH3-N 0.02 mg/L &lt;0.0005 /td><td>0.26  Cond.  mg/L  36  34  38  39  40  41  36  41  40  60  36  37  37  35  38  38  37  37  36  37  37  37  36  37  37  37</td><td>0.005 0.010  Phenols 0.001 mg/L &lt;0.001 0.002 &lt;0.001 /td><td>mg/L 16 12 19 11 16 6 13 9 13 11 12 13 11 9 12 14 8 11 10 9 10 9 10 12 8 11 10 9 11 11 10 9 11</td><td>13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.96 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24 6.30 8.41 8.18</td><td>29.3  Field T  23.7  7.8  14.3  19.5  8.2  16.6  17.8  10.2  12.6  22.3  10.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20.1  7.9  17.3  23.5  22.9  15.1  22  8.8  11  11</td><td>0.64  Field Co  20  20  44  44  30  54  38  42  32  65  30  36  90  43  75  38  38  78  51  33  29  31  29  34</td></li></ul>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.40 7.40 7.40 7.40 6.80 7.30 7.00 7.00 7.00 7.10 7.10 7.10 7.10 7.1	<pre>&lt;0.06 &lt;0.06  alk42  * mg/L  13  14  14  14  15  17  13  13  10  15  10  12  13  11  12  12  11  12  12  11  12  12</pre>	<ul> <li>&lt;0.000002</li> <li>NH3-N</li> <li>mg/L</li> <li>&lt;0.05</li> /ul>	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L  36  34  38  39  40  41  36  41  40  60  36  37  37  35  38  38  37  37  36  37  37  37  36  37  37  37	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 16 12 19 11 16 6 13 9 13 11 12 13 11 9 12 14 8 11 10 9 10 9 10 12 8 11 10 9 11 11 10 9 11	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.96 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24 6.30 8.41 8.18	29.3  Field T  23.7  7.8  14.3  19.5  8.2  16.6  17.8  10.2  12.6  22.3  10.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20.1  7.9  17.3  23.5  22.9  15.1  22  8.8  11  11	0.64  Field Co  20  20  44  44  30  54  38  42  32  65  30  36  90  43  75  38  38  78  51  33  29  31  29  34
5/17/2017 8/29/2017 10/24/2017 10/24/2017 10/24/2017 10/24/2017 10/24/2017  Parameter - WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2009 10/22/2009 8/18/2009 10/22/2009 10/22/2009 5/18/2011 10/21/2010 5/31/2011 8/25/2011 10/25/2011 5/18/2012 8/30/2012 10/23/2012 10/23/2012 5/24/2013 8/29/2013 10/17/2013 5/23/2014 8/21/2014 10/9/2014 10/9/2014 5/12/2015 5/10/2016 9/8/2016 11/1/2016	<0.0002 0.0003  Pb 0.003 mg/L <0.0005 <0.0005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	<ul> <li>&lt;0.02</li> <li>zn</li> <li>0.02</li> <li>mg/L</li> <li>&lt;0.005</li> <li>&lt;0.005</li> <li>&lt;0.01</li> </ul>	<ul> <li>&lt;0.010</li> <li>NO2-N</li> <li>mg/L</li> <li>&lt;0.3</li> <li>&lt;0.01</li> <li>&lt;0.002</li> </ul>	<0.00002  NO3-N  mg/L  1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<ul> <li>&lt;0.001</li> <li>SO4</li> <li>mg/L</li> <li>10.8</li> <li>3.0</li> <li>&lt;1</li> <li>3.0</li> <li>3.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>4.0</li> <li>5.0</li> <li>3.0</li> <li>3.0<!--</td--><td>0.0041  pH 6.5 - 8.5 n/a 7.41 7.40 7.40 7.40 7.40 6.80 7.30 7.00 7.00 7.00 7.00 7.10 7.10 7.11 7.10 7.19 7.15 6.63 6.76 7.19 7.16 6.83 6.46 7.11 6.68 6.14 6.78 7.15 7.20 7.25 7.26</td><td><pre>&lt;0.06 &lt;0.06  alk42  * mg/L  13  14  14  14  15  17  13  13  10  15  10  12  13  11  12  13  11  12  13  12  11  12  13  12  11  12  13  10  10  11  11  12  12  13  12  11  12  13  12  11  12  13  12  11  12  12</pre></td><td><ul> <li>NH3-N</li> <li>mg/L</li> <li>0.05</li> <li>0.064</li> <li>0.05</li> <li>0.082</li> <li>0.082</li> <li>0.082</li> <li>0.082</li> <li>0.082</li> <li>0.016</li> </ul></td><td>18 Unionized NH3-N 0.02 mg/L &lt;0.0005 /td><td>0.26  Cond.  mg/L  36  34  38  39  40  41  39  40  60  36  36  37  37  37  38  38  37  37  37  37  37</td><td>0.005 0.010  Phenols 0.001 mg/L &lt;0.001 /td><td>mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 9 8 10 12 8 11 10 9 11 11 10 9 11 11 10 9 11 11 10 10 9 11 11 11 11 11 11 11 11 11 11 11 11 1</td><td>13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.58 8.69 7.90 8.58 8.69 7.24 6.30 8.41 8.18</td><td>29.3  Field T  23.7  7.8  14.3  19.5  8.2  16.6  17.8  10.2  12.6  22.3  10.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20.1  7.9  17.3  23.5  9.9  15.1  22  8.9  12.7  19.5  8.8  11</td><td>0.64  Field Cc  20 20 44  44  30 54 38 38 38 65 30 36 90 43 75 38 38 78 51 33 29 31 29 34</td></li></ul>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.40 7.40 7.40 7.40 6.80 7.30 7.00 7.00 7.00 7.00 7.10 7.10 7.11 7.10 7.19 7.15 6.63 6.76 7.19 7.16 6.83 6.46 7.11 6.68 6.14 6.78 7.15 7.20 7.25 7.26	<pre>&lt;0.06 &lt;0.06  alk42  * mg/L  13  14  14  14  15  17  13  13  10  15  10  12  13  11  12  13  11  12  13  12  11  12  13  12  11  12  13  10  10  11  11  12  12  13  12  11  12  13  12  11  12  13  12  11  12  12</pre>	<ul> <li>NH3-N</li> <li>mg/L</li> <li>0.05</li> <li>0.064</li> <li>0.05</li> <li>0.082</li> <li>0.082</li> <li>0.082</li> <li>0.082</li> <li>0.082</li> <li>0.016</li> </ul>	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L  36  34  38  39  40  41  39  40  60  36  36  37  37  37  38  38  37  37  37  37  37	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 9 8 10 12 8 11 10 9 11 11 10 9 11 11 10 9 11 11 10 10 9 11 11 11 11 11 11 11 11 11 11 11 11 1	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.58 8.69 7.90 8.58 8.69 7.24 6.30 8.41 8.18	29.3  Field T  23.7  7.8  14.3  19.5  8.2  16.6  17.8  10.2  12.6  22.3  10.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20.1  7.9  17.3  23.5  9.9  15.1  22  8.9  12.7  19.5  8.8  11	0.64  Field Cc  20 20 44  44  30 54 38 38 38 65 30 36 90 43 75 38 38 78 51 33 29 31 29 34
5/17/2017 8/29/2017 10/24/2017 10/24/2017 10/24/2017 10/24/2017 10/24/2017  Parameter -  WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 8/15/2007 8/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2009 10/22/2009 10/22/2009 5/18/2010 10/21/2010 5/31/2011 8/24/2011 10/25/2010 10/21/2010 5/31/2011 5/18/2012 8/30/2012 10/23/2012 10/23/2013 10/17/2013 8/29/2013 10/17/2013 8/21/2014 10/9/2014 5/21/2015 5/10/2016 9/8/2016 11/1/2016 5/17/2017	<0.0002  <0.0003  Pb  0.0003  mg/L  <0.0005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005  <0.005	<ul> <li>&lt;0.02</li> <li>Zn</li> <li>0.02</li> <li>mg/L</li> <li>&lt;0.005</li> <li>&lt;0.005</li> <li>&lt;0.01</li> </ul>	<ul> <li>&lt;0.010</li> <li>NO2-N</li> <li>mg/L</li> <li>&lt;0.3</li> <li>&lt;0.01</li> <li>&lt;0.03</li> <li>&lt;0.002</li> <li>&lt;0.033</li> </ul>	<0.00002  NO3-N  mg/L  1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<ul> <li>&lt;0.001</li> <li>SO4</li> <li>mg/L</li> <li>10.8</li> <li>3.0</li> <li>&lt;1</li> <li>3.0</li> <li>3.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>4.0</li> <li>5.0</li> <li>3.0</li> <li>4.0</li> <li>5.0</li> <li>3.0</li> <li>3.0<!--</td--><td>0.0041  pH 6.5 - 8.5 n/a 7.41 7.36 7.40 7.40 7.40 6.80 7.30 7.00 7.00 7.40 6.81 6.30 6.40 8.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7</td><td><pre>&lt;0.06 &lt;0.06  alk42  * mg/L  13  14  14  14  15  17  13  13  10  15  15  10  12  13  11  12  13  12  11  12  13  12  11  12  13  12  11  12  13  12  11  12  13  12  11  12  13  12  11  12  13  12  11  12  11  12  13  12  11  13  12  11  13  10  10  10  11  11  11  12  11  11  12  11  11</pre></td><td><ul> <li>NH3-N</li> <li>mg/L</li> <li>0.05</li> <li>0.064</li> <li>0.05</li> <li>0.016</li> <li>0.016</li> <li>0.015</li> </ul></td><td>18 Unionized NH3-N 0.02 mg/L &lt;0.0005 /td><td>0.26  Cond.  mg/L 36 34 38 39 40 41 39 41 40 60 36 46 37 37 37 37 37 37 37 37 37 37 37 37 37</td><td>0.005 0.010  Phenols 0.001 mg/L &lt;0.001 /td><td>mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 9 8 11 10 9 11 11 10 9 11 11 10 9 11 11 10 9 11 11 10 9</td><td>13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24 6.30 8.41 8.18</td><td>29.3  Field T  23.7  7.8  14.3  19.5  8.2  16  17.8  10.2  12.6  22.3  10.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20  20.1  7.9  17.3  23.5  9.9  15.1  22  8.9  12.7  19.5  8.8  11  8  12.2</td><td>0.64  Field Cc  20 20 44  44  30 54 38 42 32  65 30 36 90 43 37 55 38 38 65 38 78 51 33 29 34 31 31 31</td></li></ul>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.36 7.40 7.40 7.40 6.80 7.30 7.00 7.00 7.40 6.81 6.30 6.40 8.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7	<pre>&lt;0.06 &lt;0.06  alk42  * mg/L  13  14  14  14  15  17  13  13  10  15  15  10  12  13  11  12  13  12  11  12  13  12  11  12  13  12  11  12  13  12  11  12  13  12  11  12  13  12  11  12  13  12  11  12  11  12  13  12  11  13  12  11  13  10  10  10  11  11  11  12  11  11  12  11  11</pre>	<ul> <li>NH3-N</li> <li>mg/L</li> <li>0.05</li> <li>0.064</li> <li>0.05</li> <li>0.016</li> <li>0.016</li> <li>0.015</li> </ul>	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L 36 34 38 39 40 41 39 41 40 60 36 46 37 37 37 37 37 37 37 37 37 37 37 37 37	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 9 8 11 10 9 11 11 10 9 11 11 10 9 11 11 10 9 11 11 10 9	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.30 7.90 8.58 8.69 7.24 6.30 8.41 8.18	29.3  Field T  23.7  7.8  14.3  19.5  8.2  16  17.8  10.2  12.6  22.3  10.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20  20.1  7.9  17.3  23.5  9.9  15.1  22  8.9  12.7  19.5  8.8  11  8  12.2	0.64  Field Cc  20 20 44  44  30 54 38 42 32  65 30 36 90 43 37 55 38 38 65 38 78 51 33 29 34 31 31 31
5/17/2017 8/29/2017 10/24/2017 10/24/2017 10/24/2017  Parameter -  WQO - nits - 9/2/2005 10/21/2005 5/16/2006 8/29/2006 10/17/2006 5/15/2007 10/18/2007 5/21/2008 8/20/2008 10/24/2008 10/24/2008 8/20/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 10/24/2008 5/19/2009 8/18/2009 10/22/2009 8/18/2010 10/24/2010 5/31/2011 5/31/2011 5/31/2011 5/31/2011 5/31/2011 5/31/2011 5/32/2012 10/23/2012 10/23/2012 10/23/2012 5/24/2013 8/29/2013 10/17/2013 5/23/2014 8/21/2014 10/9/2014 5/21/2015 5/25/2015 10/20/2015 5/10/2016 9/8/2016 11/1/2016	<0.0002  -0.0003	<ul> <li>&lt;0.02</li> <li>zn</li> <li>0.02</li> <li>mg/L</li> <li>&lt;0.005</li> <li>&lt;0.005</li> <li>&lt;0.01</li> </ul>	<ul> <li>&lt;0.010</li> <li>NO2-N</li> <li>mg/L</li> <li>&lt;0.3</li> <li>&lt;0.01</li> <li>&lt;0.002</li> </ul>	<0.00002  NO3-N  mg/L  1.700 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1 < 0.1	<ul> <li>&lt;0.001</li> <li>SO4</li> <li>mg/L</li> <li>10.8</li> <li>3.0</li> <li>&lt;1</li> <li>3.0</li> <li>3.0</li> <li>3.0</li> <li>4.0</li> <li>6.0</li> <li>3.0</li> <li>4.0</li> <li>5.0</li> <li>3.0</li> <li>3.0<!--</td--><td>0.0041  pH 6.5 - 8.5 n/a 7.41 7.40 7.40 7.40 7.40 6.80 7.30 7.00 7.00 7.00 7.00 7.10 7.10 7.11 7.10 7.19 7.15 6.63 6.76 7.19 7.16 6.83 6.46 7.11 6.68 6.14 6.78 7.15 7.20 7.25 7.26</td><td><pre>&lt;0.06 &lt;0.06  alk42  * mg/L  13  14  14  14  15  17  13  13  10  15  10  12  13  11  12  13  11  12  13  12  11  12  13  12  11  12  13  10  10  11  11  12  12  13  12  11  12  13  12  11  12  13  12  11  12  12</pre></td><td><ul> <li>NH3-N</li> <li>mg/L</li> <li>0.05</li> <li>0.064</li> <li>0.05</li> <li>0.082</li> <li>0.082</li> <li>0.082</li> <li>0.082</li> <li>0.082</li> <li>0.016</li> </ul></td><td>18 Unionized NH3-N 0.02 mg/L &lt;0.0005 /td><td>0.26  Cond.  mg/L  36  34  38  39  40  41  39  40  60  36  36  37  37  37  38  38  37  37  37  37  37</td><td>0.005 0.010  Phenols 0.001 mg/L &lt;0.001 /td><td>mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 9 8 10 12 8 11 10 9 11 11 10 9 11 11 10 9 11 11 10 10 9 11 11 11 11 11 11 11 11 11 11 11 11 1</td><td>13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.58 8.69 7.90 8.58 8.69 7.24 6.30 8.41 8.18</td><td>29.3  Field T  23.7  7.8  14.3  19.5  8.2  16.6  17.8  10.2  12.6  22.3  10.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20.1  7.9  17.3  23.5  9.9  15.1  22  8.9  12.7  19.5  8.8  11</td><td>0.64  Field Ci  20 20 20  444  30 544 38 38 65 38 38 65 38 78 51 33 29 31 29 34</td></li></ul>	0.0041  pH 6.5 - 8.5 n/a 7.41 7.40 7.40 7.40 7.40 6.80 7.30 7.00 7.00 7.00 7.00 7.10 7.10 7.11 7.10 7.19 7.15 6.63 6.76 7.19 7.16 6.83 6.46 7.11 6.68 6.14 6.78 7.15 7.20 7.25 7.26	<pre>&lt;0.06 &lt;0.06  alk42  * mg/L  13  14  14  14  15  17  13  13  10  15  10  12  13  11  12  13  11  12  13  12  11  12  13  12  11  12  13  10  10  11  11  12  12  13  12  11  12  13  12  11  12  13  12  11  12  12</pre>	<ul> <li>NH3-N</li> <li>mg/L</li> <li>0.05</li> <li>0.064</li> <li>0.05</li> <li>0.082</li> <li>0.082</li> <li>0.082</li> <li>0.082</li> <li>0.082</li> <li>0.016</li> </ul>	18 Unionized NH3-N 0.02 mg/L <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	0.26  Cond.  mg/L  36  34  38  39  40  41  39  40  60  36  36  37  37  37  38  38  37  37  37  37  37	0.005 0.010  Phenols 0.001 mg/L <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 16 12 19 11 16 6 13 9 13 12 13 11 9 12 14 8 11 10 9 10 9 8 10 12 8 11 10 9 11 11 10 9 11 11 10 9 11 11 10 10 9 11 11 11 11 11 11 11 11 11 11 11 11 1	13.0  Field pH  4.90 4.10 7.90 7.76 7.96 7.55 8.32 7.7 7.43 7.82 7.95 8.84 7.91 8.92 8.37 7.97 8.55 7.60 8.23 7.32 6.04 8.13 7.57 8.12 7.92 8.58 8.69 7.90 8.58 8.69 7.24 6.30 8.41 8.18	29.3  Field T  23.7  7.8  14.3  19.5  8.2  16.6  17.8  10.2  12.6  22.3  10.3  n/a  20.8  3.6  16.2  16.8  8.3  13.7  21  6.9  20.1  7.9  17.3  23.5  9.9  15.1  22  8.9  12.7  19.5  8.8  11	0.64  Field Ci  20 20 20  444  30 544 38 38 65 38 38 65 38 78 51 33 29 31 29 34

	meter -	As	В	Ва	Cd	Cr	Cu	Fe	Hg	TDS	TKN	Total P	COD	BOD	TSS	CI-
PWQO -		0.1	0.2		0.0001	0.1	0.005	0.3	0.0002			0.03			,,	,,
Units - 5/24/2001	1	mg/L < 0.001	mg/L 0.004	mg/L 0.009	mg/L < 0.001	mg/L < 0.001	mg/L < 0.001	mg/L 0.16	mg/L < 0.001	mg/L 29	mg/L 0.40	mg/L 0.011	mg/L	mg/L	mg/L < 3	mg/L 3.30
7/23/2001	1	< 0.001	0.004	0.009	< 0.001	< 0.001	< 0.001	0.16	< 0.001	29	0.40	0.011	31	< 1.0	< 3	3.10
8/10/2001		+			<del>                                     </del>			0.07			0.41		42	V 1.0	- 10	2.60
8/31/2001	1							0.06			0.24	< 0.005				
9/28/2001	1							0.06			0.34	< 0.005	25	1.0	< 3	2.90
11/2/2001		< 0.001	< 0.001	0.007	< 0.001	< 0.001	< 0.001	0.18	< 0.001	45	0.39	< 0.005	20	1.5	59	2.90
5/13/2002	2							0.17			0.37	< 0.010	42	2.0	21	3.6
7/3/2002	2	0.004	0.000	0.000	0.004	0.004	0.005	0.17	0.004	44	0.37	< 0.020	20	1.0	< 0.01	2.5
8/6/2002 9/4/2002	2	< 0.001	0.002	0.006	< 0.001	< 0.001	0.005	0.13 0.13	< 0.001	44	0.61 0.46	0.051	20	1.0	6	3.1 3.1
10/6/2002	2	< 0.001	0.003	0.008	< 0.001	< 0.001	< 0.001	0.13	< 0.001	< 20	0.46	0.031	20	1.0	31	3.0
4/8/2003	B Dry	( 0.001	0.003	0.000	< 0.001	< 0.001	< 0.001	0.10	< 0.001	\ <u>2</u> 0	0.50	0.055	20	1.0	31	5.0
5/21/2003		< 0.002	0.005	0.006	<0.0001	< 0.005	0.001	0.17	< 0.00005	34	0.56	0.019	25	2.0	3	2.6
6/10/2003	3							0.10			0.43	0.010	23	0.9	3	3.1
7/17/2003								0.18			0.52	0.016	28	< 0.5	5	3.3
8/6/2003		< 0.002	0.008	0.008	< 0.0001	< 0.005	0.290	0.29	< 0.0005	36	0.47	0.013	24	1.0	1	2.6
9/25/2003								0.22			0.43	0.015	35	0.8	3	3.0
10/28/2003		< 0.002	0.005	0.007 0.006	< 0.0001	< 0.005	0.001	0.20 0.17	< 0.00005	48 42	0.36 0.36	0.017 0.011	25 28	0.9 0.6	1 2	2.8
8/19/2004 9/1/2005		< 0.002 < 0.001	< 0.005 < 0.010	0.008	< 0.0001 < 0.0001	< 0.005 < 0.005	0.001	0.17	< 0.0001 < 0.0001	58	0.36	0.011	22	< 2	6	2.8 4.0
8/29/2006		< 0.001	< 0.010	0.006	< 0.0001	0.006	0.002	0.071	< 0.0001	19	0.40	0.019	17	< 2	1	5.0
8/15/2007		1 0.001	V 0.010	0.000	V 0.0001	0.000	0.002	0.17	V 0.0001	37	0.60	0.016	28	< 2	< 1	< 1
8/20/2008		< 0.001	< 0.01	< 0.001	< 0.0001	< 0.005	< 0.001	0.09	< 0.0001	27	0.60	0.009	24	< 2	1	5.0
8/18/2009	9	< 0.001	< 0.01	< 0.001	< 0.0001	< 0.005	< 0.001	0.17	< 0.0001	25	0.60	0.012	17	< 2	2	5.0
8/25/2010																
8/24/2011		<0.2	<0.02	<0.02	<0.005	<0.01	<0.02	0.27	<0.0001	26	0.50	<0.1	32	<2	<1	4.0
8/31/2012		<0.2	<0.02	<0.02	<0.005	<0.01	<0.02	0.1	<0.0001	38	0.42	0.017	23	<2	1	4.0
8/29/2013 8/21/2014		<0.2 <0.2	<0.02 <0.02	0.006 0.007	<0.005 <0.005	<0.01 <0.01	<0.02 <0.02	0.05 0.13	<0.0001 <0.0001	42 52	0.43	0.009	22	<2 <2	<1 1	5.0 5.0
8/25/2015		<0.2	<0.02	0.007	<0.005	<0.01	<0.02	0.13	<0.0001	58	0.40	0.008	23	<2	<1	4.6
9/8/2016		0.0003	<0.05	0.007	<0.0001	<0.001	0.001	0.223	<0.0001	34	0.40	0.010	28	<6.0	<4	5.6
8/29/2017		0.0002	<0.02	<0.01	<0.00002	<0.001	0.0004	0.096	0.000002	12	0.32	0.007	21	NA	<4	5.0
										Unionized						
Parai	meter -	Pb	Zn	NO2-N	NO3-N	SO4	pН	alk42	NH3-N	NH3-N	Cond.	PhenoIs	DO	Field pH	Field T	Field Cond
Parai PWQO -	meter -	<b>Pb</b> 0.003	<b>Zn</b> 0.02	NO2-N	NO3-N	SO4	<b>pH</b> 6.5 - 8.5	alk42	NH3-N		Cond.	Phenols 0.001	DO	Field pH	Field T	Field Cond
PWQO - Units -		0.003 mg/L	0.02 mg/L	mg/L	mg/L	mg/L	6.5 - 8.5 n/a	* mg/L	mg/L	NH3-N	mg/L		mg/L			
PWQO - Units - 5/24/2001	1	0.003	0.02	mg/L < 0.10	mg/L 0.20	mg/L 2.8	6.5 - 8.5 n/a 7.10	* mg/L 11	mg/L < 0.01	NH3-N 0.02	mg/L 36	0.001 mg/L		Field pH 6.5	Field T	Field Cond
PWQO - Units - 5/24/2001 7/23/2001	1	0.003 mg/L	0.02 mg/L	mg/L < 0.10 < 0.10	mg/L 0.20 0.10	mg/L 2.8 2.3	6.5 - 8.5 n/a	* mg/L	mg/L < 0.01 < 0.01	NH3-N 0.02	mg/L	0.001 mg/L < 0.001	mg/L 20	6.5	15.0	
PWQO - Units - 5/24/2001 7/23/2001 8/10/2001	1	0.003 mg/L	0.02 mg/L	mg/L < 0.10 < 0.10 < 0.10	mg/L 0.20 0.10 0.10	mg/L 2.8	6.5 - 8.5 n/a 7.10 6.59	* mg/L 11	mg/L < 0.01 < 0.01 < 0.01	NH3-N 0.02	mg/L 36 33	0.001 mg/L	mg/L 20	6.5	15.0	20
PWQO - Units - 5/24/2001 7/23/2001 8/10/2001 8/31/2001	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.003 mg/L	0.02 mg/L	mg/L < 0.10 < 0.10 < 0.10 < 0.10	mg/L 0.20 0.10 0.10 < 0.10	mg/L 2.8 2.3 2.1	6.5 - 8.5 n/a 7.10 6.59 7.09	* mg/L 11 10	mg/L < 0.01 < 0.01 < 0.01 < 0.01	NH3-N 0.02	mg/L 36 33	0.001 mg/L < 0.001 < 0.001	mg/L 20	6.5	15.0	
PWQO - Units - 5/24/2001 7/23/2001 8/10/2001	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.003 mg/L	0.02 mg/L	mg/L < 0.10 < 0.10 < 0.10	mg/L 0.20 0.10 0.10	mg/L 2.8 2.3	6.5 - 8.5 n/a 7.10 6.59	* mg/L 11	mg/L < 0.01 < 0.01 < 0.01	NH3-N 0.02	mg/L 36 33	0.001 mg/L < 0.001	mg/L 20	6.5	15.0	20
PWQO - Units - 5/24/2001 7/23/2001 8/10/2001 8/31/2001 9/28/2001		0.003 mg/L < 0.001	0.02 mg/L < 0.001	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10	mg/L 0.20 0.10 0.10 < 0.10 < 0.10	mg/L 2.8 2.3 2.1	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88	* mg/L 11 10 11 8	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	NH3-N 0.02	mg/L 36 33 36 36	0.001 mg/L < 0.001 < 0.001	mg/L 20	6.5	15.0 19.0 23.0	20
PWQO - Units - 5/24/2001 7/23/2001 8/10/2001 8/31/2001 9/28/2001 11/2/2001 5/13/2002 7/3/2002	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.003 mg/L < 0.001	0.02 mg/L < 0.001	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.010 < 0.10 < 0.10	mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.010 < 0.10 < 0.10	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85	* mg/L 11 10 11 8 11 10.0 9.0	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.01 0.03	NH3-N 0.02 mg/L 0.00001 0.00007	mg/L 36 33 36 36 36 38 36 35	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 20 9 26 14 9	6.5 6.7 6.7 6.60 7.10	15.0 19.0 23.0 3.0 5.5 20.5	30 30 10 30
PWQO - Units - 5/24/2001 7/23/2001 8/10/2001 8/31/2001 9/28/2001 11/2/2001 5/13/2002 7/3/2002 8/6/2002	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.003 mg/L < 0.001	0.02 mg/L < 0.001	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.010 < 0.010 < 0.005	mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.010 < 0.10 < 0.10 < 0.010 < 0.010	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13	* mg/L 11 10 11 8 11 10.0 9.0 10.0	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.01 0.03 0.04	NH3-N 0.02 mg/L 0.00001 0.00007 0.00028	mg/L 36 33 36 36 36 38 36 35 37	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 20 9 26 14 9	6.5 6.7 6.7 6.60 7.10 7.30	15.0 19.0 23.0 3.0 5.5 20.5 25.0	30 30 10 30 30
PWQ0 - Units - 5/24/2001 7/23/2001 8/10/2001 8/31/2001 9/28/2001 11/2/2001 5/13/2002 8/6/2002 9/4/2002		0.003 mg/L < 0.001 < 0.001	0.02 mg/L < 0.001 0.006	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.00 < 0.00 < 0.00 < 0.05	mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.03 < 0.03	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 2.0	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13	* mg/L 11 10 11 8 11 10.0 9.0 10.0 9.0	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01	NH3-N 0.02 mg/L 0.00001 0.00007 0.00028 <0.0001	mg/L 36 33 36 36 36 38 36 35 37	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 20 9 26 14 9 11 9	6.5 6.7 6.7 6.60 7.10 7.30 7.40	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0	20 30 10 30 30 30 30
PWQO - Units - 5/24/2001 7/23/2001 8/10/2001 8/31/2001 9/28/2001 5/13/2002 7/3/2002 8/6/2002 10/6/2002		0.003 mg/L < 0.001	0.02 mg/L < 0.001	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.010 < 0.010 < 0.005	mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.010 < 0.10 < 0.10 < 0.010 < 0.010	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13	* mg/L 11 10 11 8 11 10.0 9.0 10.0	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.01 0.03 0.04	NH3-N 0.02 mg/L 0.00001 0.00007 0.00028	mg/L 36 33 36 36 36 38 36 35 37	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 20 9 26 14 9	6.5 6.7 6.7 6.60 7.10 7.30	15.0 19.0 23.0 3.0 5.5 20.5 25.0	30 30 10 30 30
PWQ0 - Units - 5/24/2001 8/10/2001 8/31/2001 9/28/2001 11/2/2001 5/13/2002 7/3/2002 8/6/2002 9/4/2002 4/8/2003	2 2 2 2 2 2 2 2 3 Dry	0.003 mg/L < 0.001 < 0.001 < 0.001	0.02 mg/L < 0.001 0.006	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.010 < 0.10 < 0.05 < 0.05 < 0.05	mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.010 < 0.10 < 0.10 < 0.10 < 0.10 1 0.00	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 2.0 < 2.0	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13 7.00 6.82	mg/L 11 10 11 8 11 10.0 9.0 10.0 9.0 10.0	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01 0.05	NH3-N 0.02 mg/L 0.00001 0.00007 0.00028 <0.0001 0.00004	mg/L 36 33 36 36 36 38 36 35 37 37 38	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 0.002	mg/L 20 9 26 14 9 11 9 9	6.5 6.7 6.7 6.60 7.10 7.30 7.40 7.40	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0	20 30 10 30 30 30 30 30
PWQO - Units - 5/24/2001 7/23/2001 8/10/2001 8/31/2001 9/28/2001 5/13/2002 7/3/2002 8/6/2002 10/6/2002	2 2 2 2 2 2 2 2 3 Dry	0.003 mg/L < 0.001 < 0.001	0.02 mg/L < 0.001 0.006	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.00 < 0.00 < 0.00 < 0.05	mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.03 < 0.03	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 2.0	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13	* mg/L 11 10 11 8 11 10.0 9.0 10.0 9.0	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01	NH3-N 0.02 mg/L 0.00001 0.00007 0.00028 <0.0001	mg/L 36 33 36 36 36 38 36 35 37	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 20 9 26 14 9 11 9	6.5 6.7 6.7 6.60 7.10 7.30 7.40	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0	20 30 10 30 30 30 30
PWQ0 - Units - 5/24/2001 7/23/2001 8/10/2001 8/31/2001 9/28/2001 11/2/2001 5/13/2002 8/6/2002 9/4/2002 10/6/2002 4/8/2003 5/21/2003	2 2 2 2 2 2 2 3 3 Dry	0.003 mg/L < 0.001 < 0.001 < 0.001	0.02 mg/L < 0.001 0.006	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.5 < 0.10 < 0.10 < 0.01 < 0.05 < 0.05 < 0.2	mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.01 < 0.01 < 0.01 < 0.03 < 0.03	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 2.0 < 2.0	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.85 7.13 7.00 6.82	* mg/L 11 10 11 8 11 10.0 9.0 10.0 10.0	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01 0.05	NH3-N 0.02 mg/L 0.00001 0.00007 0.00028 <0.0001 0.00004	mg/L 36 33 36 36 36 38 36 37 37 37 38	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.002	mg/L 20 9 26 14 9 11 9 9 16	6.5 6.7 6.7 6.60 7.10 7.30 7.40 7.40	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0	20 30 10 30 30 30 30 30 30
PWQ0 - Units - 5/24/2001 8/10/2001 8/31/2001 9/28/2001 5/13/2002 7/3/2002 8/6/2002 9/4/2002 4/8/2003 5/21/2003 6/10/2003 8/6/2002	2 2 2 2 2 2 2 2 3 3 Dry 3	0.003 mg/L < 0.001 < 0.001 < 0.001	0.02 mg/L < 0.001 0.006	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.05 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2	mg/L 0.20 0.10 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.03 < 0.03 < 0.03 < 0.02 < 0.2 < 0.2	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 <.2.0 <.2.0 1.8 3.2 2.4 2.1	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.85 7.13 7.00 6.82 7.08 6.92 7.02 6.86	mg/L 11 10 11 8 11 10.0 9.0 10.0 9.0 10.0 10.0 11.0 11.	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01 0.05  < 0.03 < 0.03 < 0.03	NH3-N 0.02 mg/L 0.00001 0.00001 0.000028 <0.0001 0.00004 0.00011 <0.0003 <0.0003	mg/L 36 33 36 36 36 38 36 35 37 37 38 38 38 41 43	0.001 mg/L < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 0.002 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 20 9 26 14 9 11 9 9	6.5 6.7 6.7 6.60 7.10 7.30 7.40 7.40 6.60 6.40 6.90 6.40	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0 9.5 21.0	20 30 10 30 30 30 30 30 20 30 30 30
PWQO - Units - 5/24/2001 8/10/2001 8/31/2001 9/28/2001 11/2/2001 5/13/2002 9/4/2002 9/4/2002 4/8/2003 5/21/2003 6/10/2003 7/17/2003 8/6/2003 9/25/2003	Dry 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.0005	0.02 mg/L < 0.001 0.006 0.013 0.188 < 0.005	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.01 < 0.05 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	mg/L 0.20 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.01 < 0.01 < 0.01 < 0.03 < 0.03 < 0.03	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 2.0 < 2.0 1.8 3.2 2.4 2.1 3.6	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13 7.00 6.82 7.08 6.92 7.02 6.86 6.78	mg/L 11 10 11 8 11 10 9.0 10.0 9.0 10.0 10.0 11.0 11.0	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01 0.05  - 0.05  - 0.03 < 0.03 < 0.03 < 0.03	NH3-N 0.02 mg/L 0.00001 0.00007 0.00028 <0.0001 0.00004 0.00011 <0.0003 <0.0003 <0.0003	mg/L 36 33 36 36 36 36 37 37 37 38 38 38 41 43 40	0.001 mg/L < 0.001 < 0.001	mg/L 20 9 26 14 9 11 9 16 14 9	6.5 6.7 6.7 6.60 7.10 7.30 7.40 7.40 6.60 6.40 6.90 6.40 5.90	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0 9.5 14.5 21.0 19.0	20 30 10 30 30 30 30 30 30 30 30 40
PWQO - Units - 5/24/2001 8/10/2001 8/31/2001 9/28/2001 5/13/2002 7/3/2002 9/4/2002 4/8/2003 5/21/2003 6/10/2003 7/17/2003 8/6/2002 10/6/2002 10/6/2002 10/6/2003 10/2003 10/2003	Dry 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.0005 < 0.0005	0.02 mg/L < 0.001 0.006 0.013 0.188 < 0.005	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.05 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	mg/L 0.20 0.10 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.10 < 0.01 < 0.01 < 0.03 < 0.03  1.00  < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 < 2.0 < 2.0 < 2.0 2.1 3.6 2.5	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13 7.00 6.82 7.08 6.92 7.02 6.86 6.78 7.41	mg/L 11 10 11 8 11 10.0 9.0 10.0 10.0 11.0 11.0 11.0 11	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01 0.05  - 0.03 < 0.03 < 0.03 < 0.03 < 0.03	NH3-N 0.02 mg/L 0.00001 0.00001 0.000028 <0.0001 0.00004 0.00011 <0.0003 <0.0003	mg/L 36 36 33 36 36 36 38 36 37 37 38 38 41 43 40 44	0.001 mg/L < 0.001 < 0.001	mg/L 20 9 26 14 9 11 9 9	6.5 6.7 6.7 6.60 7.10 7.30 7.40 7.40 6.60 6.40 6.90 6.40	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0 9.5 21.0	20 30 10 30 30 30 30 30 20 30 30 30
PWQO - Units - 5/24/2001 8/10/2001 8/31/2001 9/28/2001 5/13/2002 7/3/2002 8/6/2002 9/4/2002 10/6/2002 4/8/2003 5/21/2003 6/10/2003 9/25/2003 8/19/2004	Dry 3 3 3 3 3 3 3 3 3 4 4	0.003 mg/L < 0.001 - < 0.001 - < 0.001 - < 0.0005 - < 0.0005 - < 0.0005	0.02 mg/L < 0.001 0.006 0.013 0.188 < 0.005 0.014	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.05 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	mg/L 0.20 0.10 0.10 0.10 0.10 0.10 0.10 0.10	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 <.2.0 <.2.0 1.8 3.2 2.4 2.1 3.6 2.5 2.2	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13 7.00 6.82 7.08 6.92 7.02 6.86 6.78 7.41	mg/L 11 10 11 8 11 10.0 9.0 10.0 10.0 11.0 11.0 11.0 11	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01 0.05  - 0.05  - 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03	0.00001 0.00001 0.00001 0.00007 0.00028 <0.0001 0.00004 <0.0003 <0.0003 <0.0003	mg/L 36 33 36 36 36 38 36 35 37 37 38 38 41 43 40 44 41	0.001 mg/L  < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 20 9 26 14 9 11 9 9 16 14 9 12 19	6.5 6.7 6.7 6.60 7.10 7.30 7.40 7.40 6.60 6.40 6.90 6.40 5.90 6.20	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0 9.5 14.5 21.0 19.0 10.5 4.0	20 30 10 30 30 30 30 30 30 30 30 30 3
PWQO - Units - 5/24/2001 8/10/2001 8/31/2001 9/28/2001 11/2/2001 5/13/2002 7/3/2002 8/6/2002 4/8/2003 5/21/2003 6/10/2003 8/6/2002 9/25/2003 10/28/2003 9/25/2003	2 2 2 2 2 2 2 3 Dry 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.0005 < 0.0005 < 0.0005	0.02 mg/L < 0.001 0.006 0.013 0.188 < 0.005 0.014 < 0.005	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.010 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0.00 < 0	mg/L 0.20 0.10 0.10 0.10 0.10 0.10 0.10 0.10	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 <.2.0 <.2.0 1.8 3.2 2.4 2.1 3.6 2.5 2.2 10.4	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13 7.00 6.82 7.08 6.92 7.02 6.86 6.78 7.41 7.14 6.97	mg/L 11 10 11 8 11 10.0 9.0 10.0 10.0 10.0 11.0 11.0 11	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01 0.05  - 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 - 0.06 NA < 0.05	0.00001 0.00001 0.00007 0.00004 0.00011 0.00003 0.0003 0.00018	mg/L 36 33 36 36 36 38 36 35 37 37 37 38 38 41 43 40 44 41 38	0.001 mg/L  < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 20 9 26 14 9 11 9 9 16 14 9 12 19	6.5 6.7 6.7 6.60 7.10 7.30 7.40 7.40 6.60 6.40 6.90 6.40 5.90 6.20	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 9.5 14.5 21.0 19.0 10.5 4.0	20 30 10 30 30 30 30 30 30 30 30 40
PWQO - Units - 5/24/2001 8/10/2001 8/31/2001 9/28/2001 11/2/2001 5/13/2002 7/3/2002 8/6/2002 9/4/2002 4/8/2003 6/10/2003 8/6/2003 9/25/2003 10/28/2003 8/19/2004 8/19/2004	Dry 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	0.02 mg/L < 0.001  0.006  0.013  0.188  < 0.005  0.014  < 0.005  0.021  0.0066 0.013	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.01 < 0.05 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.3 < 0.01	mg/L 0.20 0.10 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.01 < 0.01 < 0.02 < 0.03 < 0.03	mg/L  2.8  2.3  2.1  1.4  1.8  1.9  2.1  2.0  2.0  < 2.0  1.8  3.2  2.1  3.6  2.5  2.2  10.4  1.0	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.85 7.13 7.00 6.82 7.08 6.92 7.02 6.86 6.78 7.41 7.14 6.97 7.80	mg/L 11 10 11 8 11 10.0 9.0 10.0 9.0 10.0 10.0 10.0 10.	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01 0.05	NH3-N 0.02 mg/L 0.00001 0.00007 0.00028 <0.0001 0.00004 0.00011 <0.0003 <0.0003 0.00018	mg/L 36 36 36 36 36 36 36 37 37 37 38 38 41 43 40 44 41 38 44	0.001 mg/L  < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 20 9 26 14 9 11 9 11 9 16 14 9 12 19 13	6.5 6.7 6.7 6.60 7.10 7.30 7.40 7.40 6.60 6.40 6.90 6.40 5.90 6.20	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0 9.5 14.5 21.0 19.0 10.5 4.0	20 30 30 30 30 30 30 30 30 30 3
PWQO - Units - 5/24/2001 7/23/2001 8/10/2001 8/31/2001 9/28/2001 5/13/2002 7/3/2002 9/4/2002 10/6/2002 4/8/2003 5/21/2003 5/21/2003 6/10/2003 7/17/2003 8/6/2002 8/6/2002 8/19/2004 8/19/2004 9/1/2005 8/29/2006 8/15/2007	Dry 3 3 3 3 3 3 3 3 4 4 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6	0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	0.02 mg/L < 0.001 0.006 0.013 0.188 < 0.005 0.014 < 0.005 0.021 0.0066 0.013	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.03 < 0.01	mg/L 0.20 0.10 0.10 0.10 0.10 0.10 0.10 0.10	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 < 2.0 < 2.0 < 2.0 2.1 1.8 3.2 2.4 2.1 2.1 2.1 2.1 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13 7.00 6.82 7.08 6.92 7.02 6.86 7.04 7.41 7.14 6.97 7.80 7.00	mg/L 11 10 11 8 11 10.0 9.0 10.0 10.0 11.0 11.0 11.0 11	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01 0.05	NH3-N 0.02 mg/L 0.00001 0.00001 0.000028 <0.0001 0.00003 <0.0003 <0.0003 <0.0003 0.00018	mg/L 36 33 36 36 36 38 36 35 37 37 37 38 38 41 43 40 44 41 38	0.001 mg/L  < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 20 9 26 14 9 9 11 9 9 16 14 9 12 19	6.5 6.7 6.7 6.7 7.10 7.30 7.40 7.40 6.60 6.40 6.90 6.20 5.10 7.20 7.30	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0 9.5 14.5 21.0 19.0 10.5 4.0	20 30 10 30 30 30 30 30 30 30 30 30 3
PWQO - Units - 5/24/2001 8/10/2001 8/31/2001 9/28/2001 11/2/2001 5/13/2002 7/3/2002 8/6/2002 9/4/2002 4/8/2003 6/10/2003 8/6/2003 9/25/2003 10/28/2003 8/19/2004 8/19/2004	Dry  Dry  Dry  S  S  S  S  S  S  S  S  S  S  S  S  S	0.003 mg/L < 0.001 < 0.001 < 0.001 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	0.02 mg/L < 0.001  0.006  0.013  0.188  < 0.005  0.014  < 0.005  0.021  0.0066 0.013	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.01 < 0.05 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.3 < 0.01	mg/L 0.20 0.10 0.10 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.01 < 0.01 < 0.02 < 0.03 < 0.03	mg/L  2.8  2.3  2.1  1.4  1.8  1.9  2.1  2.0  2.0  < 2.0  1.8  3.2  2.1  3.6  2.5  2.2  10.4  1.0	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.85 7.13 7.00 6.82 7.08 6.92 7.02 6.86 6.78 7.41 7.14 6.97 7.80	mg/L 11 10 11 8 11 10.0 9.0 10.0 9.0 10.0 10.0 10.0 10.	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01 0.05	NH3-N 0.02 mg/L 0.00001 0.00007 0.00028 <0.0001 0.00004 0.00011 <0.0003 <0.0003 0.00018	mg/L 36 36 36 36 36 36 36 37 37 37 38 38 41 43 40 44 41 38 44	0.001 mg/L  < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 20 9 26 14 9 11 9 11 9 16 14 9 12 19 13	6.5 6.7 6.7 6.60 7.10 7.30 7.40 7.40 6.60 6.40 6.90 6.40 5.90 6.20	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0 9.5 14.5 21.0 19.0 10.5 4.0	20 30 30 30 30 30 30 30 30 30 3
PWQO - Units - 5/24/2001 8/10/2001 8/31/2001 9/28/2001 5/13/2002 7/3/2002 8/6/2002 9/4/2002 10/6/2002 4/8/2003 5/21/2003 8/6/2003 9/25/2003 8/19/2004 9/1/2005 8/29/2006 8/15/2007 8/29/2006	Dry  Dry  3 3 4 4 5 6 6	0.003 mg/L < 0.001 - < 0.001 - < 0.001 - < 0.0005 - < 0.0005	0.02 mg/L < 0.001 0.006 0.013 0.188 < 0.005 0.014 < 0.005 0.021 0.0066 0.013 < 0.013	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.05 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L 0.20 0.10 0.10 0.10 0.10 0.10 0.10 0.10	mg/L  2.8  2.3  2.1  1.4  1.8  1.9  2.1  2.0  <2.0  <2.0  1.8  3.2  2.4  2.1  3.6  2.5  2.2  10.4  1.0  2.0  2.0  2.0	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13 7.00 6.82 7.02 6.86 6.78 7.41 7.14 6.97 7.80 7.20	mg/L 11 10 11 8 11 10.0 9.0 10.0 10.0 11.0 11.0 11.0 12.0 8.0 14.0 8.0 8.0	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01 0.05  - 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.05  - 0.05	0.00001 0.00001 0.00001 0.00001 0.00003 <0.0003 <0.0003 <0.0003 <0.0005 0.0005 0.00001 <0.0005	mg/L 36 36 36 36 36 36 36 36 38 36 37 37 38 38 41 43 40 44 41 38 44 41	0.001 mg/L  < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 20 9 26 14 9 11 9 9 16 14 9 12 19 13 13 9 10	6.5 6.7 6.7 6.60 7.10 7.30 6.60 6.40 6.90 6.40 5.90 6.20 5.10 7.30 7.18	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0 9.5 14.5 21.0 19.0 10.5 4.0 21.7 22.5 20.6 20.6	20 30 10 30 30 30 30 30 30 30 30 30 3
PWQO - Units - 5/24/2001 8/10/2001 8/31/2001 8/31/2001 8/31/2002 8/31/2002 7/3/2002 8/6/2002 10/6/2002 4/8/2003 5/17/2003 6/10/2003 7/17/2003 8/6/2002 10/28/2003 8/19/2006 8/15/2007 8/20/2008 8/15/2007 8/20/2008 8/18/2009 8/18/2000 8/18/2000 8/18/2000 8/18/2000 8/18/2000 8/25/2001 8/24/2011	Dry 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0.003 mg/L < 0.001 - < 0.001 - < 0.001 - < 0.0005 - < 0.0005	0.02 mg/L < 0.001 0.006 0.013 0.188 < 0.005 0.014 < 0.005 0.021 0.0066 0.013 < 0.013	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.05 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L 0.20 0.10 0.10 0.10 0.10 0.10 0.10 0.10	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 < 2.0 < 2.0  < 2.0 1.8 3.2 2.4 2.1 3.6 2.5 2.2 10.4 1.0 2.0 < 2.0 < 2.0 < 2.0 < 3.6 - 3.6 - 4.7 - 4.8 - 4.8 - 5.8 - 5.8 - 6.8 - 6.8 - 7.8	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13 7.00 6.82 7.02 6.86 6.78 7.41 7.14 6.97 7.80 7.20	mg/L 11 10 11 8 11 10.0 9.0 10.0 10.0 11.0 11.0 11.0 12.0 8.0 14.0 8.0 8.0	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01 0.05  - 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03 < 0.05  - 0.05	NH3-N 0.02 mg/L 0.00001 0.00001 0.00007 0.00028 <0.0001 0.0003 <0.0003 <0.0003 <0.0003 <0.0003 <0.0005 <0.0005 <0.0005	mg/L 36 36 36 36 36 36 36 36 38 36 37 37 38 38 41 43 40 44 41 38 44 41	0.001 mg/L  < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 20 9 26 14 9 11 9 9 16 14 9 12 19 13 13 9 10	6.5 6.7 6.7 6.7 7.10 7.30 7.40 7.40 6.60 6.40 6.90 6.40 5.90 6.20 7.30 7.18 8.75	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0 9.5 14.5 21.0 19.0 10.5 4.0 21.7 22.5 20.6 26.8 19.8	20 30 10 30 30 30 30 30 30 30 30 30 3
PWQO - Units - 5/24/2001 8/10/2001 8/10/2001 8/31/2001 8/31/2001 9/28/2001 11/2/2001 5/13/2002 7/3/2002 8/6/2002 10/6/2002 4/8/2003 5/21/2003 6/10/2003 7/17/2003 8/6/2003 9/25/2003 8/19/2004 9/1/2005 8/29/2006 8/15/2007 8/20/2008 8/18/2009 8/18/2009 8/18/2009 8/18/2009 8/25/2010 8/24/2011	Dry  Dry  Dry	0.003 mg/L < 0.001  < 0.001  < 0.001  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005	0.02 mg/L < 0.001 0.006 0.013 0.188 < 0.005 0.014 < 0.005 0.014 < 0.006 0.013 < 0.01 < 0.01 < 0.01	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.01 < 0.05 < 0.05 < 0.05 < 0.02 < 0.2 < 0.2 < 0.2 < 0.2 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L 0.20 0.10 0.10 0.10 0.10 0.10 0.10 0.10	mg/L  2.8  2.3  2.1  1.4  1.8  1.9  2.1  2.0  <2.0  <2.0  1.8  3.2  2.4  2.1  3.6  2.5  2.2  10.4  1.0  2.0  <2.0  <2.0  <1.2.0	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13 7.00 6.82 7.02 6.86 6.78 7.41 7.14 6.97 7.80 7.20 7.00 7.20 7.00	11 10 10	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.05	NH3-N 0.02 mg/L 0.00001 0.00001 0.00007 0.00028 <0.0001 0.00001 <0.0003 <0.0003 <0.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 36 36 33 36 36 36 38 38 38 38 38 41 43 40 44 41 40 40	0.001 mg/L  < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 20 9 26 14 9 11 9 9 16 14 9 12 19 13 13 13 9 10 8	6.5 6.7 6.7 6.7 7.10 7.30 7.40 6.60 6.40 6.90 6.40 5.90 6.20 5.10 7.30 7.18 8.75	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0 9.5 14.5 21.0 19.0 10.5 4.0 21.7 22.5 20.6 26.8 19.8	20 30 10 30 30 30 30 30 30 30 30 30 3
PWQO - Units - 5/24/2001 8/10/2001 8/31/2001 8/31/2001 9/28/2001 11/2/2001 5/13/2002 7/3/2002 8/6/2002 10/6/2002 4/8/2003 5/21/2003 8/6/2003 9/25/2003 10/28/2003 10/28/2003 8/19/2004 9/1/2005 8/29/2006 8/18/2009 8/25/2010 8/24/2011	Dry  Dry  Dry	0.003 mg/L < 0.001  < 0.001  < 0.001  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005	0.02 mg/L < 0.001  0.006  0.013  0.014  0.005  0.014  0.006  0.013  0.013  0.010  0.011  0.001  0.001	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.01 < 0.05 < 0.05 < 0.05 < 0.02 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L 0.20 0.10 0.10 0.10 0.10 0.10 0.10 0.10	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 <.2.0 <.2.0 1.8 3.6 2.5 2.2 10.4 1.0 2.0 <.2.0 <.2.0 <.2.0	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13 7.00 6.82 7.02 6.86 6.78 7.41 7.14 6.97 7.80 7.00 7.20 7.00 6.98 6.38 7.11	mg/L 11 10 11 8 11 10.0 9.0 10.0 9.0 10.0 10.0 11.0 11.	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01  0.03 0.04 < 0.01  0.05  < 0.03 < 0.03 < 0.03 < 0.03 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L 0.00001 0.00001 0.00007 0.00028 <0.0001 <0.0003 <0.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 36 33 36 36 36 38 36 35 37 37 37 38 38 41 43 40 44 41 41 40 41 40 41 42	0.001 mg/L  < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 20 9 26 14 9 11 1 9 9 16 14 9 12 19 13 13 9 10 8	6.5 6.7 6.7 6.7 7.10 7.30 7.40 6.60 6.40 6.90 6.40 5.90 6.20 7.10 7.20 7.30 7.18 8.75	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 9.5 14.5 21.0 19.0 10.5 4.0 21.7 22.5 20.6 26.8 19.8	20 30 30 30 30 30 30 30 30 30 3
PWQO - Units - 5/24/2001 8/10/2001 8/10/2001 8/31/2001 8/31/2001 9/28/2001 11/2/2001 5/13/2002 7/3/2002 8/6/2002 9/4/2002 10/6/2003 6/10/2003 6/10/2003 7/17/2003 8/6/2003 10/28/2003 8/19/2004 8/15/2007 8/20/2008 8/15/2007 8/20/2008 8/15/2007 8/24/2011 8/31/2012 8/29/2013	Dry 3 3 3 3 3 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5	0.003 mg/L < 0.001  < 0.001  < 0.001  < 0.0005  < 0.0005  < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	0.02 mg/L < 0.001  0.006  0.013  0.188  < 0.005  0.014  < 0.006  0.013  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.01 < 0.05 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L 0.20 0.10 0.10 0.10 0.10 0.10 0.10 0.10	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 <.2.0 <.2.0  1.8 3.2 2.1 3.6 2.5 10.4 1.0 2.0 <.2.0 <.1 1.0 2.0 2.0 <.1 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13 7.00 6.82 7.08 6.92 7.02 6.86 6.78 7.41 7.14 6.97 7.80 7.00 7.20 7.00 6.38	mg/L 11 10 11 8 11 10.0 9.0 10.0 10.0 10.0 11.0 11.0 11	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01 0.05  0.05  0.05  0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L 0.00001 0.00001 0.00007 0.00028 <0.0001 0.00004 0.00011 <0.0003 <0.0003 0.00018 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 36 36 36 37 37 38 38 38 38 38 41 43 40 44 41 41 40 41 42 46	0.001 mg/L  <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 20 9 26 14 9 11 9 11 9 16 14 9 18 18 9 10 18 9 10 18	6.5 6.7 6.7 6.60 7.10 7.30 7.40 7.40 6.60 6.40 6.90 6.20 5.10 7.20 7.30 7.30 7.40 7.40	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0 9.5 14.5 21.0 19.0 10.5 4.0 21.7 22.5 20.6 26.8 19.8	20 30 10 30 30 30 30 30 30 30 30 30 3
PWQO - Units - 5/24/2001 8/10/2001 8/31/2001 8/31/2001 8/31/2002 8/31/2002 7/3/2002 8/6/2002 10/6/2002 4/8/2003 5/11/2003 6/10/2003 7/17/2003 8/6/2003 8/19/2004 9/11/2005 8/15/2007 8/20/2008 8/15/2007 8/20/2008 8/15/2007 8/20/2008 8/15/2007 8/20/2008 8/15/2007 8/20/2008 8/15/2007 8/20/2008 8/15/2007 8/20/2008 8/15/2007	Dry 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0.003 mg/L < 0.001  < 0.001  < 0.001  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.0005  < 0.005  < 0.005  < 0.005  < 0.005  < 0.005  < 0.005  < 0.005	0.02 mg/L < 0.001  0.006  0.013  0.014  0.005  0.014  0.006  0.013  0.013  0.010  0.011  0.001  0.001	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.01 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	mg/L 0.20 0.10 0.10 0.10 0.10 0.10 0.10 0.10	mg/L  2.8  2.3  2.1  1.4  1.8  1.9  2.1  2.0  < 2.0  < 2.0  < 2.0  1.8  3.2  2.4  2.1  3.6  2.5  2.2  10.4  1.0  2.0  < 2.0  < 2.0  < 1  2.0  < 1  2.0  < 1  2.0  < 1  2.0  < 1  2.0  < 1  2.0  < 1  2.0  < 1	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13 7.00 6.82 7.02 6.86 6.78 7.41 7.14 6.97 7.80 7.00 7.20 7.00 6.98 6.38 7.11 6.72 6.34	11 10 11 10 11 10 10 10 10 10 10 10 10 1	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01  0.03 0.04 < 0.05	NH3-N 0.02 mg/L 0.00001 0.00001 0.00007 0.00028 <0.0001 0.0003 <0.0003 <0.0003 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 36 36 36 36 36 36 38 36 38 36 37 37 38 41 43 40 41 41 42 46 41 42 46 43 47	0.001 mg/L  < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	mg/L 20 9 26 14 9 11 1 9 9 16 14 9 12 19 13 13 9 10 8	6.5 6.7 6.7 6.7 7.10 7.30 7.40 6.60 6.40 6.90 6.40 5.90 6.20 7.10 7.20 7.30 7.18 8.75	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 9.5 14.5 21.0 19.0 10.5 4.0 21.7 22.5 20.6 26.8 19.8	20 30 30 30 30 30 30 30 30 30 3
PWQO - Units - 5/24/2001 8/10/2001 8/10/2001 8/31/2001 8/31/2001 9/28/2001 11/2/2001 5/13/2002 7/3/2002 8/6/2002 9/4/2002 10/6/2003 6/10/2003 6/10/2003 7/17/2003 8/6/2003 10/28/2003 8/19/2004 8/15/2007 8/20/2008 8/15/2007 8/20/2008 8/15/2007 8/24/2011 8/31/2012 8/29/2013	Dry  Dry	0.003 mg/L < 0.001  < 0.001  < 0.001  < 0.0005  < 0.0005  < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005 < 0.0005	0.02 mg/L < 0.001  0.006  0.013  0.188  < 0.005  0.014  < 0.006  0.013  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01  < 0.01	mg/L < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.01 < 0.01 < 0.05 < 0.05 < 0.05 < 0.2 < 0.2 < 0.2 < 0.2 < 0.0 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01	mg/L 0.20 0.10 0.10 0.10 0.10 0.10 0.10 0.10	mg/L 2.8 2.3 2.1 1.4 1.8 1.9 2.1 2.0 <.2.0 <.2.0  1.8 3.2 2.1 3.6 2.5 10.4 1.0 2.0 <.2.0 <.1 1.0 2.0 2.0 <.1 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	6.5 - 8.5 n/a 7.10 6.59 7.09 6.88 6.90 6.69 6.85 7.13 7.00 6.82 7.08 6.92 7.02 6.86 6.78 7.41 7.14 6.97 7.80 7.00 7.20 7.00 6.38	mg/L 11 10 11 8 11 10.0 9.0 10.0 10.0 10.0 11.0 11.0 11	mg/L < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 < 0.01 0.03 0.04 < 0.01 0.05  0.05  0.05  0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	NH3-N 0.02 mg/L 0.00001 0.00001 0.00007 0.00028 <0.0001 0.00004 0.00011 <0.0003 <0.0003 0.00018 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005 <0.0005	mg/L 36 36 36 37 37 38 38 38 38 38 41 43 40 44 41 41 40 41 42 46	0.001 mg/L  <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	mg/L 20 9 26 14 9 11 9 11 9 16 14 9 18 18 9 10 18 9 10 18	6.5 6.7 6.7 6.60 7.10 7.30 7.40 7.40 6.60 6.40 6.90 6.20 5.10 7.20 7.30 7.30 7.40 7.40	15.0 19.0 23.0 3.0 5.5 20.5 25.0 18.0 5.0 9.5 14.5 21.0 19.0 10.5 4.0 21.7 22.5 20.6 26.8 19.8	20 30 10 30 30 30 30 30 30 30 30 30 3

<sup>\*</sup> should not be decreased by more than 25% of the natural concentration

### **Additional Locations**

Monitor	Paran	neter -	As	В	Ва	Ca	Cd	Cr	Cu	Fe	Hg	K	Mg	Mn	TDS	TKN	Total P	COD	BOD	TSS
	PWQO -		0.1	0.2			0.0001	0.1	0.005	0.3	0.0002						0.03			
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
RW-1	4/11/2017		0.015	3.48	0.125	189	0.00002	0.0093	0.0011	0.14	<0.00001	526	104	0.279	2560	59	1.80	340	<30	81.3
RW-2	4/11/2017		0.004	1.36	0.047	65	0.00001	0.0025	0.0011	0.17	<0.00001	175	48	0.225	932	16	0.86	150	24	55
RW-3	10/5/2017		0.001	1.60	0.044	48		0.0011	< 0.0002	0.18	< 0.000002	200	37	0.059	798	2.5	0.47	150	12	59
													Unionized							
Monitor	Paran	neter -	Na	Pb	Zn	CI-	NO2-N	NO3-N	SO4	pН	alk42	NH3-N	NH3-N	DOC	Cond.	<b>Phenois</b>	DO	Field pH	Field T	Field Cond
	PWQO -			0.003	0.02					6.5 - 8.5	*		0.02			0.001				
	Units -		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	n/a	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
RW-1	4/11/2017		182	<0.0002	0.0053	180	<0.22	<0.16	23.0	7.99	2070	70	1.25		4170	0.016				
RW-2	4/11/2017		66	< 0.0002	0.0052	62	0.68	0.09	9.3	8.22	768	14	0.42		1650	0.008				
RW-3	10/5/2017		69	<0.0002	< 0.003	69	0.039	0.410	10.0	8.31	517	0.13	0.005	39.0	1230					

Bold denotes exceedance of PWQO (1994) criteria

NA - Not Analyzed

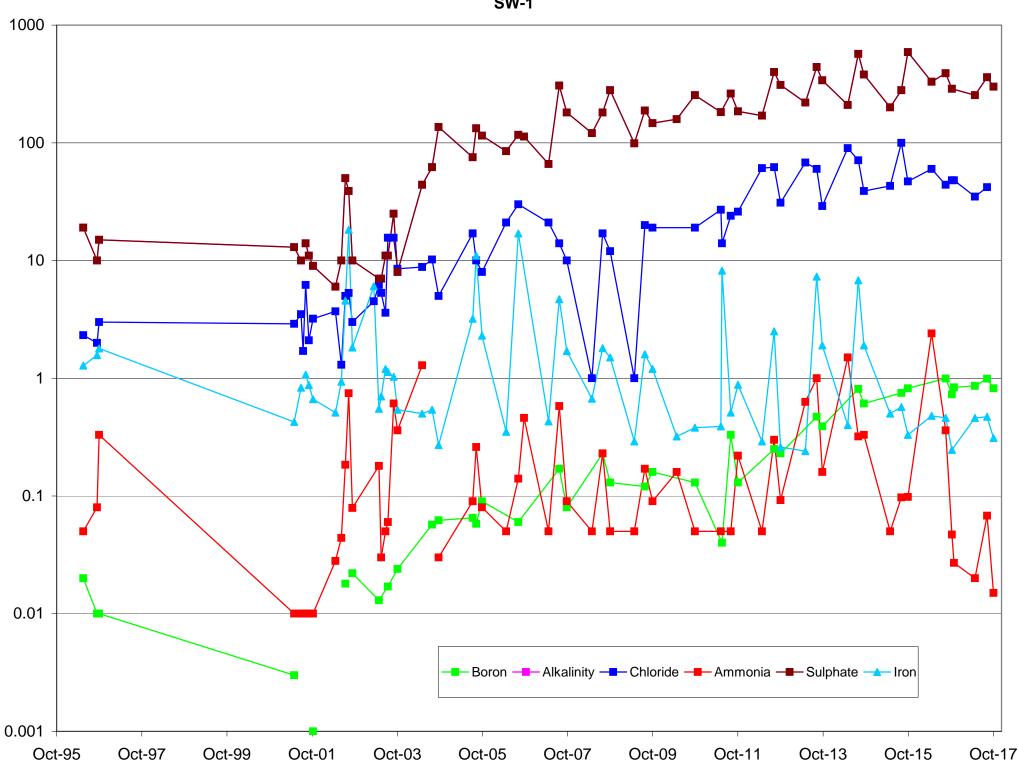
 $<sup>\</sup>ensuremath{^*}$  should not be decreased by more than 25% of the natural concentration

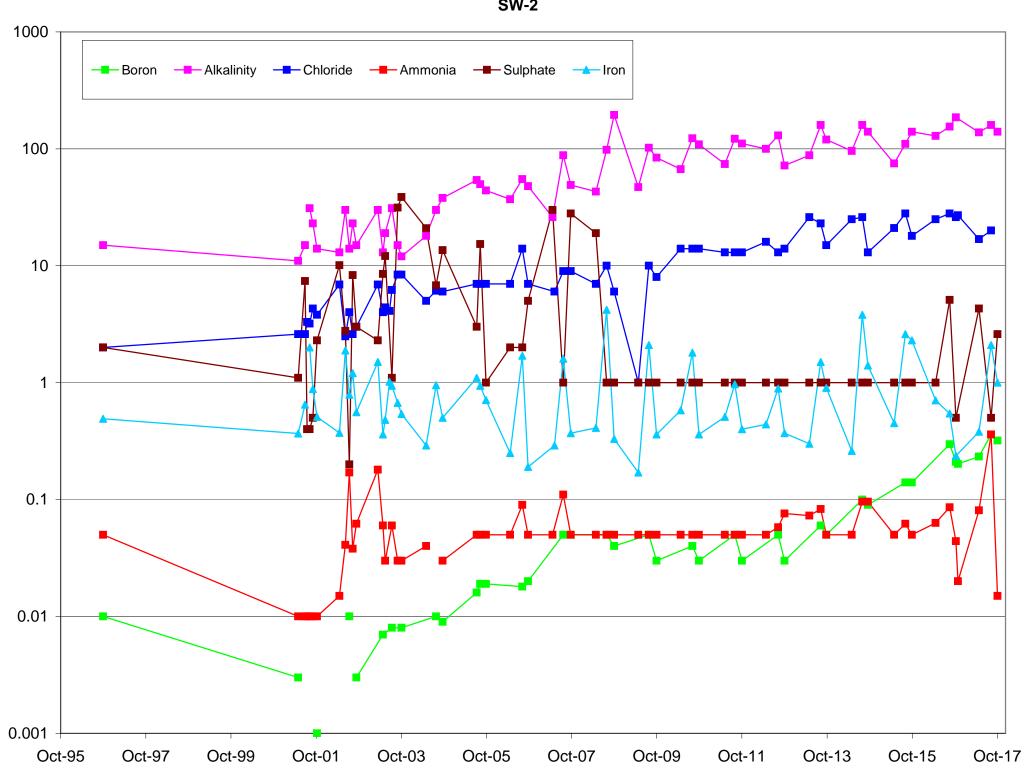


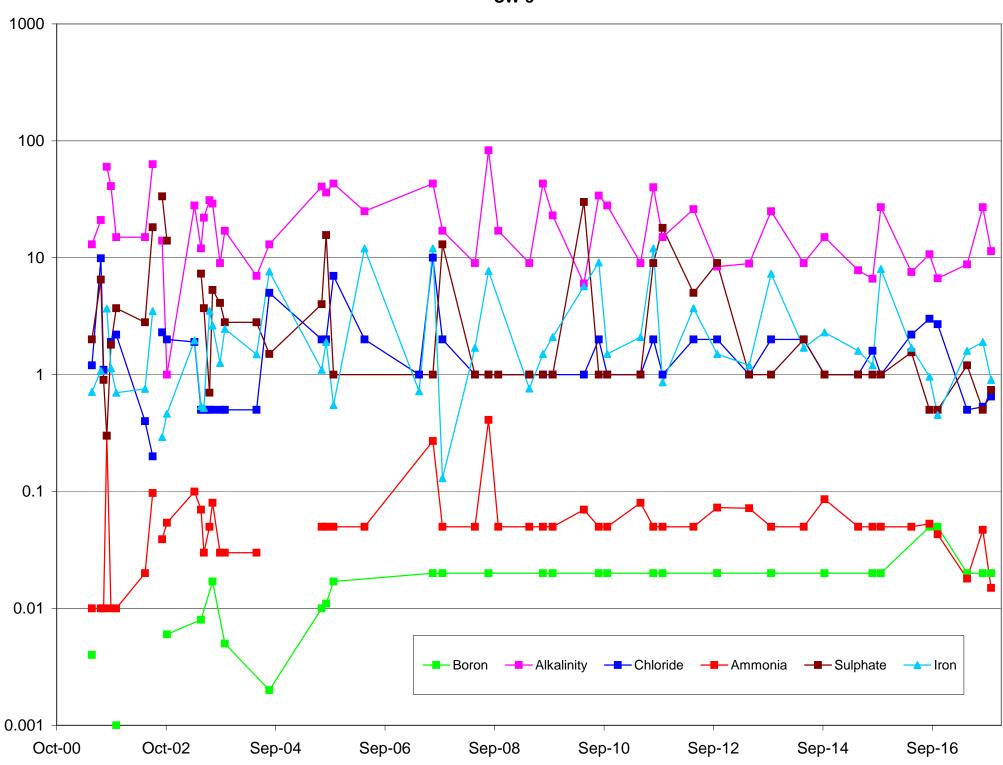
## APPENDIX I

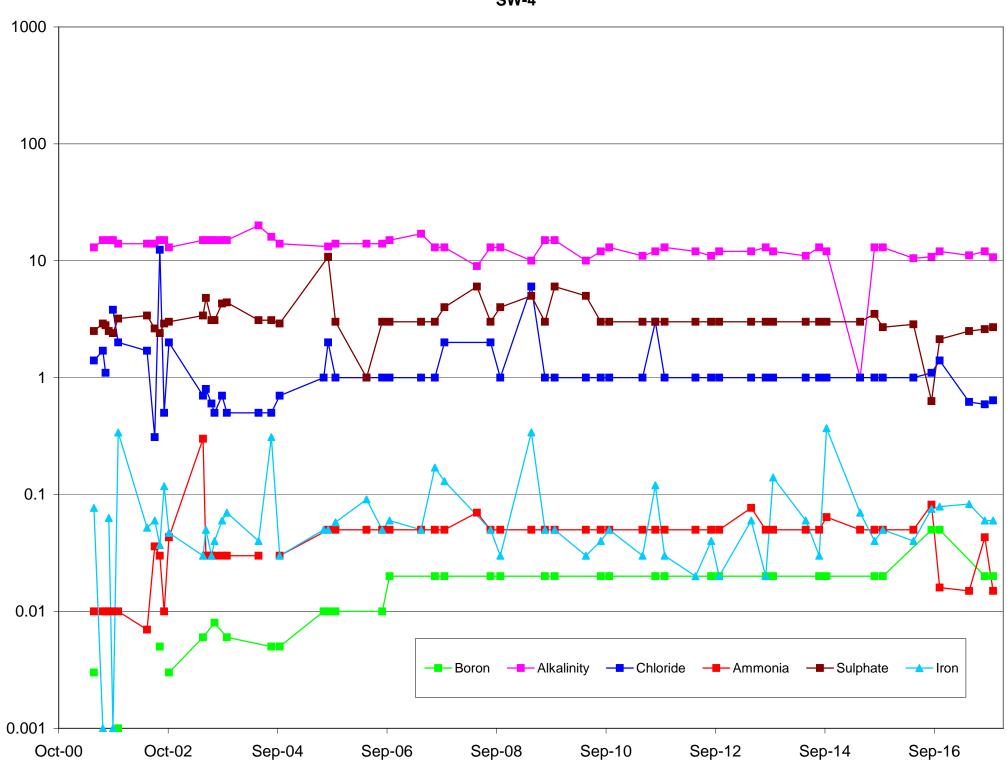
**Surface Water Quality Over Time** 

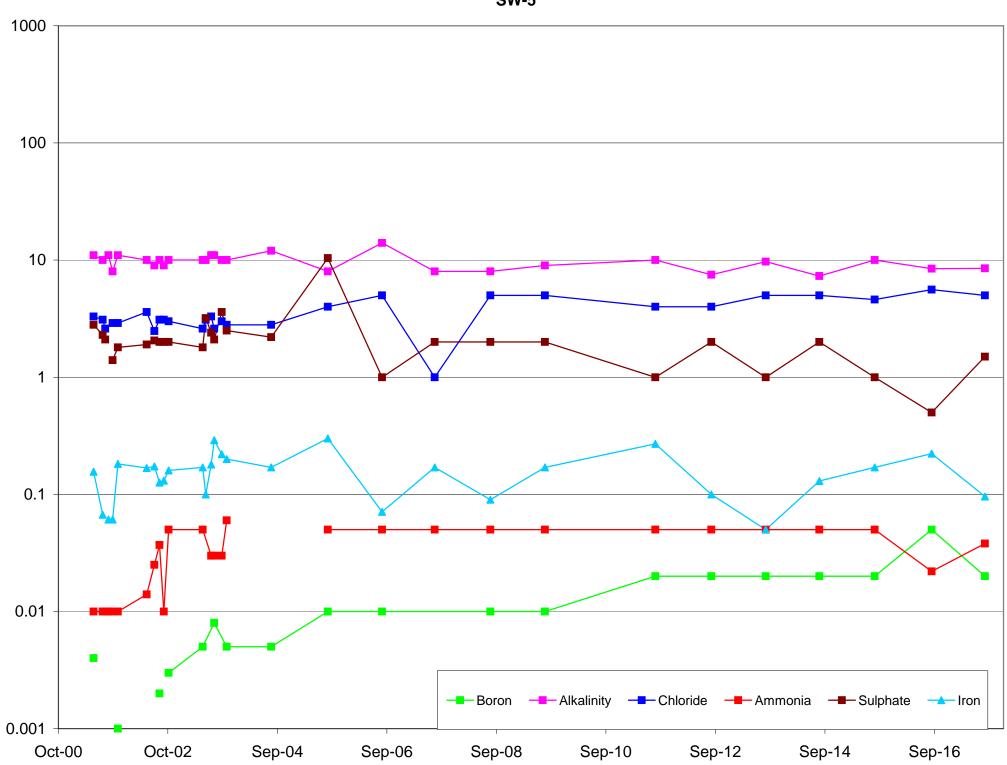














# APPENDIX J

**MOECC Landfill Reporting Submission Forms** 

### Appendix D-Monitoring and Screening Checklist General Information and Instructions

General Information: The checklist is to be completed, and submitted with the Monitoring Report.

**Instructions:** A complete checklist consists of:

- (a) a completed and signed checklist, including any additional pages of information which can be attached as needed to provide further details where indicated.
- (b) completed contact information for the Competent Environmental Practitioner (CEP)
- (c) self-declaration that CEP(s) meet(s) the qualifications as set out below and in Section 1.2 of the Technical Guidance Document.

### **Definition of Groundwater CEP:**

For groundwater, the CEP must have expertise in hydrogeology and meet one of the following:

- (a) the person holds a licence, limited licence or temporary licence under the Professional Engineers Act; or
- (b) the person holds a certificate of registration under the *Professional Geoscientists Act, 2000* and is a practicing member, temporary, member or limited member of the Association of Professional Geoscientists of Ontario. O. Reg. 66/08, s. 2..

#### **Definition of Surface water CEP:**

A CEP for surface water assessments is a scientist, professional engineer or professional geoscientist as described in (a) and (b) above with demonstrated experience and post-secondary education, either a diploma or degree, in hydrology, aquatic ecology, limnology, aquatic biology, physical geography with specialization in surface water, and/or water resource management.

The type of scientific work that a CEP performs must be consistent with that person's education and experience. If an individual has appropriate training and credentials in both groundwater and surface water and is responsible for both areas of expertise, the CEP may then complete and validate both sections of the checklist.

Monitoring Report and Site Information		
Waste Disposal Site Name	Kenora Area Waste Disposal Site (Jones Road Landfill)	
Location (e.g. street address, lot, concession)	Part Lot 1 & 2, Concession II, Township of PettyPiece.	
GPS Location (taken within the property boundary at front gate/ front entry)	412895 , 5521124	
Municipality	District of Kenora	
Client and/or Site Owner	City of Kenora	
Monitoring Period (Year)	2015-2017	
This N	fonitoring Report is being submitted under the following:	
Certificate of Approval No.:	A612018	
Director's Order No.:	Type Here	
Provincial Officer's Order No.:	Type Here	
Other:	Type Here	

Report Submission Frequency	<ul><li>○ Annual</li><li>⑥ Other</li></ul>	Specify (Type Here): every three years
The site is:	C	Active Inactive Closed
If closed, specify C of A, control or aut	horizing document closure date:	Select Date
Has the nature of the operations at the site changed during this monitoring period?		) Yes No
If yes, provide details:	Type Here	
Have any measurements been taken since the last reporting period that indicate landfill gas volumes have exceeded the MOE limits for subsurface or adjacent buildings? (i. e. exceeded the LEL for methane)		Yes No

Groundwater WDS Verification:			
Based on all available information about	ampling and Monitoring		
1) The monitoring program continues to effectively characterize site conditions and any groundwater discharges from the site. All monitoring wells are confirmed to be in good condition and are secure:	<ul><li>Yes</li><li>No</li></ul>	If no, list exceptions (Type Here):	
2) All groundwater, leachate and WDS gas sampling and monitoring for the monitoring period being reported on was successfully completed as required by Certificate(s) of Approval or other relevant authorizing/control document(s):	<ul><li>Yes</li><li>● No</li><li>○ Not Applicable</li></ul>	If no, list exceptions below or atta	ch information.
Groundwater Sampling Location	Description/Explanation for change (change in name or location, additions, deletions)		Date
see table 2 of report for omitted monitors			Select Date
MW7/4 and MW21/7	these were added to address Boron SW trigger exceedance		5-Oct-2017
			Select Date
			Select Date

a) Some or all groundwater, leach monitoring requirements have be outside of a ministry C of A, autho	en established or defined	<ul><li>Yes</li><li>No</li><li>Not Applicable</li></ul>	
b) If yes, the sampling and monitor the monitoring period being repo completed in accordance with est locations, and parameters develon Guidance Document:	rted on was successfully ablished protocols, frequencies,	<ul><li>Yes</li><li>No</li><li>Not Applicable</li></ul>	If no, list exceptions below or attach additional information.
Groundwater Sampling Location	Description/Explanation for cha (change in name or location, add		Date
see previous page	Type Here		Select Date
Type Here	Type Here		Select Date
Type Here	Type Here		Select Date
Type Here	Type Here		Select Date
4) All field work for groundwater investigations was done in accordance with standard operating procedures as established/outlined per the Technical Guidance Document (including internal/external QA/QC requirements) (Note: A SOP can be from a published source, developed internally by the site owner's consultant, or adopted by the consultant from another organization):	<ul><li></li></ul>	If no, specify (Type Here):	

_				
	Sampling and Monitoring Program Results/WDS Conditions and Assessment:			Assessment:
5)	The site has an adequate buffer, Contaminant Attenuation Zone (CAZ) and/or contingency plan in place. Design and operational measures, including the size and configuration of any CAZ, are adequate to prevent potential human health impacts and impairment of the environment.	<ul><li>Yes</li><li>No</li></ul>	If no, the potential design and ope exceptions are as follows (Type He	
6)	The site meets compliance and assessment criteria.	<ul><li>Yes</li><li>No</li></ul>	If no, list and explain exceptions (	Type Here):
7)	The site continues to perform as anticipated. There have been no unusual trends/ changes in measured leachate and groundwater levels or concentrations.	<ul><li>Yes</li><li>No</li></ul>	If no, list exceptions and explain re (Type Here):	eason for increase/change
1)	Is one or more of the following risk reduction practices in place at the site:  (a) There is minimal reliance on natural attenuation of leachate due to the presence of an effective waste liner and active leachate collection/treatment; or  (b) There is a predictive monitoring program in-place (modeled indicator concentrations projected over time for key locations); or  (c) The site meets the following two conditions (typically achieved after 15 years or longer of site operation):  i.The site has developed stable leachate mound(s) and stable leachate plume geometry/concentrations; and  ii.Seasonal and annual water levels and water quality fluctuations are well understood.	<ul><li></li></ul>	Note which practice(s):	<ul><li>☐ (a)</li><li>☒ (b)</li><li>☒ (c)</li></ul>
9)	Have trigger values for contingency plans or site remedial actions been exceeded (where they exist):	<ul><li>Yes</li><li>No</li><li>Not Applicable</li></ul>	If yes, list value(s) that are/have be action taken (Type Here):	een exceeded and follow-up

### **Groundwater CEP Declaration:**

I am a licensed professional Engineer or a registered professional geoscientist in Ontario with expertise in hydrogeology, as defined in Appendix D under Instructions. Where additional expertise was needed to evaluate the site monitoring data, I have relied on individuals who I believe to be experts in the relevant discipline, who have co-signed the compliance monitoring report or monitoring program status report, and who have provided evidence to me of their credentials.

I have examined the applicable Certificate of Approval and any other environmental authorizing or control documents that apply to the site. I have read and followed the Monitoring and Reporting for Waste Disposal Sites Groundwater and Surface Water Technical Guidance Document (MOE, 2010, or as amended), and associated monitoring and sampling guidance documents, as amended from time to time. I have reviewed all of the data collected for the above-referenced site for the monitoring period(s) identified in this checklist. Except as otherwise agreed with the ministry for certain parameters, all of the analytical work has been undertaken by a laboratory which is accredited for the parameters analysed to ISO/IEC 17025:2005 (E)- General requirements for the competence of testing and calibration laboratories, or as amended from time to time by the ministry.

If any exceptions or potential concerns have been noted in the questions in the checklist attached to this declaration, it is my opinion that these exceptions and concerns are minor in nature and will be rectified for the next monitoring/reporting period. Where this is not the case, the circumstances concerning the exception or potential concern and my client's proposed action have been documented in writing to the Ministry of the Environment District Manager in a letter from me dated: 8-Jun-2018 **Recommendations:** Based on my technical review of the monitoring results for the waste disposal site: No changes to the monitoring program are recommended recommended monitoring program outlined in table 9 of the report The following change(s) to the monitoring program is/are recommended: No Changes to site design and operation are recommended Type Here The following change(s) to the site design and operation is/ are recommended:

Name:	Colin Ross		
Seal:	Add Image		
Signature:		Date:	8-Jun-2018
CEP Contact Information:	Colin Ross		
Company:	Azimuth Environmental Consulting Inc.		
Address:	642 Welham Road, Barrie, ON L4N 9A1		
Telephone No.:	705-721-8451	Fax No. :	705-5721-8926
E-mail Address:	colin@azimuthenvironmental.com		
Co-signers for additional expertise provided:			
Signature:	Date: Select Date		
Signature:		Date:	Select Date

Surface Water WDS Verifica	ation:		
Provide the name of surface water I waterbody (including the nearest surf			proximate distance to the
Name (s)	Morgan Lake & associated wetlan	d	
Distance(s)	3.2 & 2.5km		
Based on all available information and	d site knowledge, it is my opinio	n that:	
Sa	ampling and Monitoring	g Program Status:	
1) The current surface water monitoring program continues to effectively characterize the surface water conditions, and includes data that relates upstream/background and downstream receiving water conditions:	<ul><li>Yes</li><li>No</li></ul>	If no, identify issues (Type Here): a locations have been added to asso exceedances	
2) All surface water sampling for the monitoring period being reported was successfully completed in accordance with the Certificate(s) of Approval or relevant authorizing/control document(s) (if applicable):	<ul> <li>Yes</li> <li>No</li> <li>Not applicable (No C of A,</li> <li>authorizing / control</li> <li>document applies)</li> </ul>	If no, specify below or provide det	ails in an attachment.
Surface Water Sampling Location		anation for change tion, additions, deletions)	Date
see report section 3.5			Select Date
Type Here	Type Here		Select Date
Type Here	Type Here		Select Date
Type Here	Type Here		Select Date

a) Some or all surface water samp	ling and monitoring program	<ul><li>Yes</li></ul>	
requirements for the monitoring period have been established outside of a ministry C of A or authorizing/control document.		○ No C Not Applicable	
b) If yes, all surface water samplin under 3 (a) was successfully comp established program from the site frequencies, locations and param Technical Guidance Document:	leted in accordance with the e, including sampling protocols,	<ul><li>Yes</li><li>No</li><li>Not Applicable</li></ul>	If no, specify below or provide details in an attachment.
Surface Water Sampling Location		anation for change ion, additions, deletions)	Date
see report section 3.5	Type Here		Select Date
Type Here	Type Here		Select Date
Type Here	Type Here		Select Date
Type Here	Type Here		Select Date
4) All field work for surface water investigations was done in accordance with standard operating procedures, including internal/external QA/QC requirements, as established/outlined as per the Technical Guidance Document, MOE 2010, or as amended. (Note: A SOP can be from a published source, developed internally by the site owner's consultant, or adopted by the consultant from another organization):	<ul><li>Yes</li><li>No</li></ul>	If no, specify (Type Here):	

Sampling and Monitoring Program Results/WDS Conditions and Assessment:			
5) The receiving water body meets so i.e., there are no exceedances of c Management Policies, Guidelines criteria (e.g., CWQGs, APVs), as no (Section 4.6):	riteria, based on MOE legislation and Provincial Water Quality Ob	, regulations, Water jectives and other assessment	<ul><li>Yes</li><li>No</li></ul>
If no, list parameters that exceed crite provide details in an attachment:	eria outlined above and the amo	unt/percentage of the exceedanc	e as per the table below o
Parameter	Compliance or Assessment Criteria or Background	Amount by which Compliance Background E	
e.g. Nickel	e.g. C of A limit, PWQO, background	e.g. X% above PWQO	
Boron	0.2 mg/L	80%	
phenols	0.001 mg/L	>100%	
Type Here	Type Here	Type Here	
6) In my opinion, any exceedances listed in Question 5 are the result of non-WDS related influences (such as background, road salting, sampling site conditions)?	<ul><li>Yes</li><li>No</li></ul>	phenols have been noted in backe they could at least be partially nate	

7)	All monitoring program surface water parameter concentrations fall within a stable or decreasing trend. The site is not characterized by historical ranges of concentrations above assessment and compliance criteria.	<ul><li>Yes</li><li>No</li></ul>	previous increasing trends are noted at SW-1 and SW-2 for leachate indicator parameters have become more stable in 2017. T
8)	For the monitoring program parameters, does the water quality in the groundwater zones adjacent to surface water receivers exceed assessment or compliance criteria (e.g., PWQOs, CWQGs, or toxicity values for aquatic biota (APVs)):	<ul><li>Yes</li><li>No</li><li>Not Known</li><li>Not Applicable</li></ul>	
9)	Have trigger values for contingency plans or site remedial actions been exceeded (where they exist):	<ul><li>Yes</li><li>No</li><li>Not Applicable</li></ul>	see report section 3.5

### **Surface Water CEP Declaration:**

l, the undersigned hereby declare that I am a Competent Environmental Practitioner as defined in Appendix D under Instructions, holding the necessary level of experience and education to design surface water monitoring and sampling programs, conduct appropriate surface water investigations and interpret the related data as it pertains to the site for this monitoring period.

I have examined the applicable Certificate of Approval and any other environmental authorizing or control documents that apply to the site. I have read and followed the Monitoring and Reporting for Waste Disposal Sites Groundwater and Surface Water Technical Guidance Document (MOE, 2010, or as amended) and associated monitoring and sampling guidance documents, as amended from time to time. I have reviewed all of the data collected for the above-referenced site for the monitoring period(s) identified in this checklist. Except as otherwise agreed with the ministry for certain parameters, all of the analytical work has been undertaken by a laboratory which is accredited for the parameters analysed to ISO/IEC 17025:2005 (E)- General requirements for the competence of testing and calibration laboratories, or as amended from time to time by the ministry.

If any exceptions or potential concerns have been noted in the questions in the checklist attached to this declaration, it is my opinion that these exceptions and concerns are minor in nature or will be rectified for future monitoring events. Where this is

not the case, the circumstances concerning the exception or potential concern and my client's proposed action have been documented in writing to the Ministry of the Environment District Manager in a letter from me dated:			
8-Jun-2018	8-Jun-2018		
Recommendations:			
Based on my technical review of the n	nonitoring results for the waste disposal site:		
No Changes to the monitoring program are recommended	temporary changes to the surface water monitoring program have been discussed in Section 3.5 of report to address boron trigger exceedances		
The following change(s) to the <ul><li>monitoring program is/are</li><li>recommended:</li></ul>			
No changes to the site design and operation are recommended	Type Here		
The following change(s) to the site  design and operation is/are recommended:	Type Here		

CEP Signature		
Relevant Discipline	Water Quality Assessor	
Date:	9-Jun-2017	
CEP Contact Information:	Colin Ross	
Company:	Azimuth Environmental Consulting Inc.	
Address:	642 Welhar Road, Barrie, ON. L4N 9A1	
Telephone No.:	705-721-8451	
Fax No.:	705-721-8926	
E-mail Address:	colin@azimuthenvironmental.com	
Save As		Print Form



# APPENDIX K

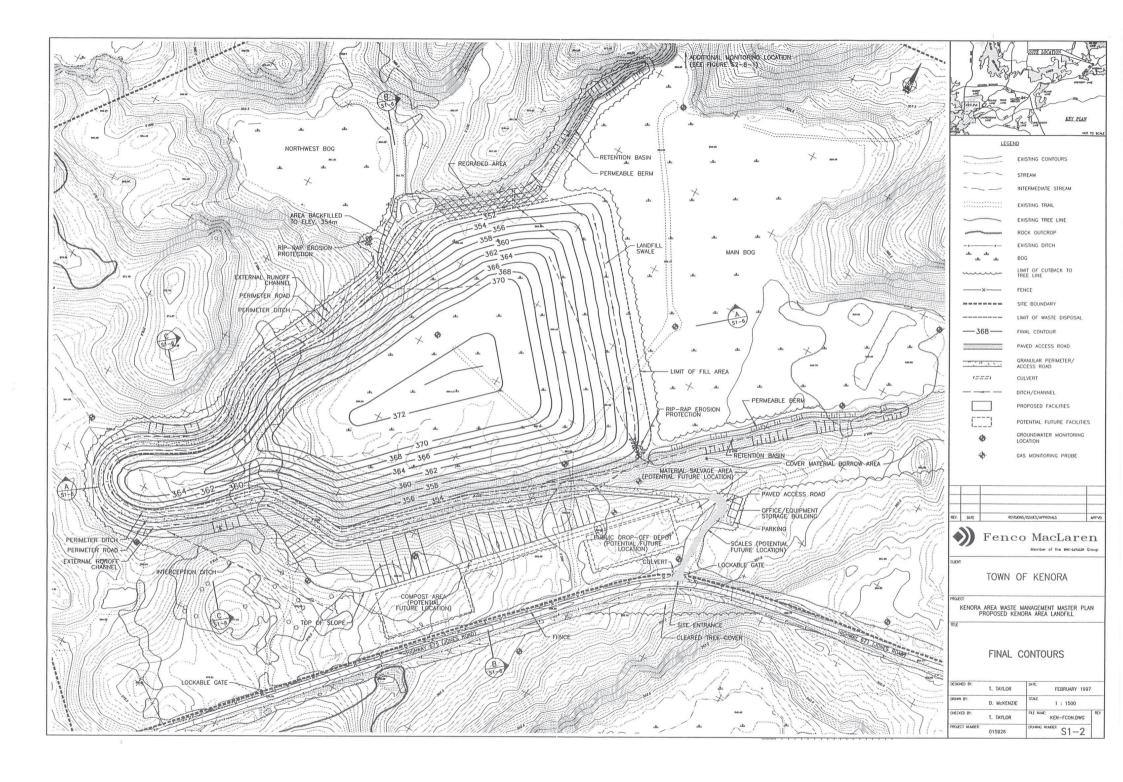
**Benthic Invertebrate Monitoring** 

Benthic Sampling Results - Jones Road Landfill Site												
Biological Endpoints	SB-1				SB-2				SB-R			
Biological Enupoints	Aug-00	Aug-01	Aug-02	Aug-03	Aug-00	Aug-01	Aug-02	Aug-03	Aug-00	Aug-01	Aug-02	Aug-03
Density (as number of organisms per square												
meter) of total benthic invertebrates	752	376	406	1540	731	969	928	4217	1612	434	507	4866
Density by taxon (as number of Families per												
station)	8	1	5	6	6	4	8	17	12	4	8	12



# APPENDIX L

**Final Contours Design Drawing** 





# APPENDIX M

**Borehole Logs** 

Project_		Kenora WMMP No.: 015926	Borehole NoBI	H-1/17
Date Dri	lled9	6/2/12 - 96/2/14 Priller: Paddock Drilling	Piezometers <u>MW-1/1</u>	7
Borehole	Location	See Figure S2-3-1		
Drilling	Supervis	sed by: S. Bricks	Sheet 1 c	of 2
Drilling	Method _	Hollow Stem Augers to 5.9 m;		
		HQ Coring to 16.9 m	SS Split Spoon Sample R: WA Wash Sample G	<pre>Rock Core Grab Sample</pre>
Piezomete			AU Auger Sample	Piezometer Screen
1 2000000 000000		51 mm Dia. Sch. 40 Threaded PVC	- CN Continuous Sample	Water Level Elev.
Type of S		51 mm Dia. Sch. 40 Threaded PVC, #10 Slot		m (with date)
Scale	(m GSD)	Geological Log	# → Monitor Details	ple ple our
(ft.) (m)	Depth (m)	Description	Monitor Details	Sample No. Plot Sample Type Vapour Conc.
		Ground Surface Elevation: 350.57 m		
5—1		GRAVELLY SILTY SAND - grey-rust mottled, becoming grey below 2.3 m - with cobbles and some boulders - locally TILL-LIKE - wet below 0.8 m - generally compact; locally dilatant, becoming more dense with depth		1 \( \sum \) SS 14 2 \( \sum \) SS 7
10 -3				3 \ SS 41/23cm
10 +			Holeplug and Cave	4 SS 55/15cm
4				5 \ SS 67
15			<b>爱</b>	6 \ SS 102
			4	7 SS100/25cm
20		- auger refusal at 5.9 m; changed to HQ coring		1 RX
+_				
25			<b>3</b> 11	
25—8				2 RX
}				
30 - 9				3 <b>II</b> RX
10			21	Щ
35				10
11				4 RX
+ 12				
40 — 12		- becomes very sandy, less till-like below 12.2 m		5 RX
13				
45			<b>3</b> 11   1	6 <b> </b> RX
14				
-15				
50 —			Cave	7 RX
		0.71.1		
Borehole Record		S. Bricks H. Jackson Prepared by Checked by		Fenco MacLaren
				97/2/19

Project_		Kenora WMMP	No.:	015926	Boreho	le No.		ВН	-1/17	'	
					Contin	uation 9	Sheet				
							Sheet	2 of	2		
Scale	Elev. (m GSD) Depth		logical Log		Strat.	Moni	tor Dei	tails	a du	Sample	Vapour Conc.
(ft.) (m)	(m)	D	escription		₽ S				Sa	Sa	. Z
					ज्यार					-	
55 — 17	333.7										
1 1	16.9	End of Borehole @ 16.9 m									
18											
60											
19											
65											
20											
-21											
70											
75 — 23											
75											
80 — 24											
-25											
}											
85 — 26						*					
90 —											
28											
95 — 29											
29											
100											
31											
105 — 32											
105 - 32											
110 —											
34											
											ار
Borehole R	Record								Fenc	o MacL	aren
										97/2/1	9

Project_		Kenora WMMP No.: 015926	Borehole NoBI	H-2/10	
Date Dri	lled9	06/1/30 - 96/1/30 Driller: Paddock Drilling	Piezometers MW-2/9		
Borehole	Location	See Figure S2-3-1			
1		sed by:S. Bricks	Sheet 1 c	of 1	
Drilling	Method _	Hollow Stem Augers to 9.6 m	access and these areas to as		
			1 11 11 11	K Rock Cor	
Piezomete	er Detail		WA Wash Sample GI	R Grab Sam Piezometer	
Type of I	Pipe	51 mm Dia. Sch. 40 Threaded PVC	CN Continuous Sample	Unter Lave	Lelan
Type of S	Screen _	51 mm Dia. Sch. 40 Threaded PVC, #10 Slot	SH Shelby Tube Sample =	m (with da	te)
Scale	Elev. (m GSD)	Geological Log	# + m O Monitor Details	<u>e</u>	our C.
(ft.) (m)	Depth (m)	Description	Monitor Details	Sample No. Plot	Type Vapour Conc.
		Ground Surface Elevation: 350.33 m			
		PEAT/ORGANICS - frozen to 0.6 m, wet below	<u> </u>	1 <b>*</b> GR∕	AB
-1		- dark brown to black	<u></u>	₩. ₩	
5 —			342 342	Ŧ	
-2		9			
I., ,	347.2		<u></u>	2   SS	S 1
10 3	3.1	CLAYEY SILT		3 SS	S push
7-4		- bluish grey - very soft		4 N SS	S push
15		- increasing silt content with depth, becoming SILT, SOME CLAY below 5.5 m	Holeplug		, ,
5		- wet		5 N SS	S push
1 1 6				6 \ SS	5 2
20	344.0 6.3	SAND		7 \ SS	3
7		- trace to some silt		8 A SS	6
25 —		generally fine to medium, locally medium to coarse - wet		9 A SS	S 2
-8	341.7				2
	8.6	SILT-SAND TILL	Cave		
30 — 9	340.7	- grey - gravelly		10 \S	3 24
-10	9.6	\- compact; wet End of Borehole @ 9.6 m			
35 —		<b>3</b>			
-11	A				
<u> </u>					
40 — 12					
13					
45					
14					
-					
50 — 15					
Borehole		S. Bricks H. Jackson		Fenco Mac	cLaren
Record		Prepared by Checked by			2/19

Project	Kenora WMMP No.:	015926 Borehole No.	BH-2/13
Date Drilled	96/2/7 - 96/2/7 Driller: Paddock D	Orilling Piezometers MW-	2/13
Borehole Locatio	See Figure S2-3-1		
Drilling Supervi	sed by: S. Bricks	Sheet	1 of 1
Drilling Method	Hollow Stem Augers to 11.4 m;		
	HQ Coring to 13.3 m	SS Split Spoon Sample WA Wash Sample	RX Rock Core GR Grab Sample
Piezometer Detai		AU Auger Sample	Piezometer Screen
NAME OF THE PARTY	51 mm Dia. Sch. 40 Threaded PVC 51 mm Dia. Sch. 40 Threaded PVC, #10 Slo	Ot Continuous Sample SH Shelby Tube Sample	₩ater Level Elev.
Type of Screen _			
Scale (m GSD)	Geological Log	+ † † o o d o o o o o o o o o o o o o o o	Sample No. Plot Sample Type Vapour Conc.
(ft.) (m) (m)	Description	P P	Sample No. Plot Sample Type Vapour Conc.
	Ground Surface Elevation: 350.11 m	984 989	
10 - 3 - 4 15 5 - 20 - 6 - 7 25 8 - 30 - 9 - 10 35 - 11 - 10 339.4 10.7 338.7 11.4 40 - 12 - 13 45 - 14 - 15 - 16	SILT-SAND TILL - grey - with coarse sand and fine gravel - dense to very dense - wet  BEDROCK - granodiorite - RQD = 100%  End of Borehole @ 13.4 m	Cave  Holeplug  Silica Sand	1A \( \sum \) SS 50/15cm  1 \( \text{RX} \)  2 \( \text{RX} \)
Borehole Record	S. Bricks Prepared by	H. Jackson Checked by	Fenco MacLaren
5 mg 1 man ay 1 45,50000	spared by	checked by	97/2/19

Project_		Kenora WMMP No.: 015926	Borehol	e No.	ВН	-3/11		
Date Dri	led9	6/1/27 - 96/1/27 Driller: Paddock Drilling	Piezome	ters	MW-3/8			
Borehole	Location	: See Figure S2-3-1	-					
Drilling	Supervis	sed by:S. Bricks	-	Sh	neet 1 of	1		
Drilling	Method _	Solid Stem Augers to 10.7 m	- 00 0-1:	* C C	I - DV	D 1		
				t Spoon S Sample	3)17((	Rock Grab		
Piezomete		s 51 mm Dia. Sch. 40 Threaded PVC	AU Auge	r Sample				Screen
		mm Dia. Threaded PVC, #10 Slot with Geosock		inuous Sa	mple ⊑ W ample ⊑ m	later	Level	Elev.
1700 01 0	Elev.			by rube of	ampre	01	01	
Scale	(m GSD) Depth	Geological Log	Strat.	Monitor	Details	Sample No.	Sample	Vapour Conc.
(ft.) (m)	(m)	Description	ts L			Sa	Sa	S S
	350.2	Ground Surface Elevation: 350.63 m PEAT/ORGANICS	342				_	
士.	0.5	h					5 00	
5——		- some silt to silty, some gravel to gravelly - brown, becoming grey below 1.5 m		Hol	eplug	1	SS	11
		- evidence of roots to 2.7 m	# T_			2	SS	15
+		- generally compact	= =			3	SS	14
10 3			# <del> </del>			4	SS	19
-4				Cav	e	5	SS	9
15 —			= =			6	SS	18
+ 1						7	SS	30
206			# <del>=</del> = # <del>=</del>		sock on	8	√ ss	20
				Scre	en		300	20
25								4.5
-8		- augering continued to 10.7 m, however, due to bouldery conditions and flowing sands, samples were not recovered below				9	SS	47
30 -9		8 m.						
+				Cave	3			
10	340.0							
35 ————————————————————————————————————	10.7	End of Borehole @ 10.7 m	<del>                                    </del>					
}								
40 — 12								
45								
14								
15								
50								
Borehole		S. Bricks H. Jackso				Fance	MacL	gran
Record		Prepared by Checked by				1 ence	97/2/	

Project_		Kenora WMMP No.: 015926	Borehole No.	3H-4/6	
Date Dri	lled	06/1/26 - 96/1/26 Driller: Paddock Drilling	Piezometers MW-4/6	;	_(
Borehole	Locatio	See Figure S2-3-1			_
Drilling	Supervi	sed by:S. Bricks	Sheet 1	of 1	
Drilling	Method .	Hollow Stem Augers to 5.8 m	SS Split Spoon Sample R	V Book Cons	
				R Grab Sample	e
Piezomete	400   1000000000000000000000000000000000	51 mm Dia. Sch. 40 Threaded PVC	AU Auger Sample	Piezometer Sc	reen
	-0.0	51 mm Dia. Sch. 40 Threaded PVC, #10 Slot	CN Continuous Sample SH Shelby Tube Sample	Water Level E m (with date)	lev.
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Elev.				
Scale	(m GSD) Depth		Monitor Details	Sample No. Plot Sample Type	Vapour Conc.
(ft.) (m)	(m)	Description	φ.	Sa	S S
		Ground Surface Elevation: 350.75 m PEAT/ORGANICS			
<u> </u>		- black, wet	<u>===</u>	1 1 50	
5——				1 SS	push
	348.5		Holeplug	2   SS	push
+	2.3	CLAYEY SILT - green-brown to grey-brown	Noicpiug	3 SS	5
103		- with trace, very thin silty fine sand layers - soft to very soft		4 \ SS	5
-4		- wet		5 \ SS	push
15	346.2 4.6	SAND TILL		6 A SS	11
5		- some silt, some gravel and cobbles - grey	Silica Sand		
20 6	345.0 5.8	- loose - wet	and Cave	7 A SS	11
-		End of Borehole @ 5.8 m			
7					
25 — 8					
+					
30 - 9					
35					
11					
-12	*				
40 - 12					
13					
45 — 14					
] 14					
50 -15					1
士					
Borehole	,	S. Bricks H. Jackson	1	Fenco MacLar	ren
Record		Prepared by Checked by		97/2/19	

Project_		Kenora WMMP No.: 015920	Borehole	No. BH	[-4/18
Date Dri	lled	96/2/9 - 96/2/9 Driller: Paddock Drilling	Piezomet	ers <u>MW-4/18</u>	
Borehole	Location	n: See Figure S2-3-1			-
Drilling	Supervis	sed by: S. Bricks		Sheet 1 of	F 2
Drilling	Method _	Hollow Stem Augers to 5.8 m;			- 1
g <del></del>		HQ Coring to 18.3 m	1176	Spoon Sample RX Sample GR	Rock Core Grab Sample
Piezomete				. –	Piezometer Screen
		51 mm Dia. Sch. 40 Threaded PVC 51 mm Dia. Sch. 40 Threaded PVC, #10 Slot	— CN Conti	nuous Sample 🗸	Water Level Elev.
Type of S	Elev.	51 mm Dia. Sch. 40 Threaded FVC, #10 Slot		y Tube Sample = r	m (with date)
Scale	(m GSD) Depth	Geological Log	Strat.	Monitor Details	our pele
(ft.) (m)	(m)	Description	PI	don'tor becarts	Sample No. Plot Sample Type Vapour Conc.
		Ground Surface Elevation: 350.56 m			
10 — 3     — 4     15 — 6     — 7     25 — 8     — 9     — 10     35 — 11     — 12     — 13     45 — 14     — 15     — 15	344.8 5.8	SAND to SILTY SAND TILL - with cobbles, some boulders - grey to greenish grey	P. T.	Holeplug	1
					6 RX
Borehole Record			ackson ced by		Fenco MacLaren
		theck	led by		97/2/19

Project_		Kenora WMMP No.: 015926	Boreho	le No.	ВН	-4/18		
,				uation Shee				-(
					et 2 of	2		
Scale	Elev. (m GSD) Depth	Geological Log	Strat.	Monitor	Details	al du	Sample Type	Vapour Conc.
(ft.) (m)	(m)	Description	St			San	San	Var
55 — 17	332.3 18.3	End of Borehole @ 18.3 m		Cave			I RX	
Borehole R	Record						MacLa	

Project_		Kenora WMMP	015926	Borehole N	lo. BH	H-5/17		
Date Dri	lled9	06/1/23 - 96/1/25 priller: Paddock D	rilling	Piezometer	MW-5/1	7		
Borehole	Location	See Figure S2-3-1						
Drilling	Supervis	sed by: S. Bricks			Sheet 1 o	f 2		
Drilling	Method _	Solid Stem Augers to 6.6 m;		Institute incompletation to				
		HQ Coring to 17.5 m	1	SS Split S WA Wash Sa		Rock Grab		
Piezomete			1	AU Auger S	. =	Piezome		
5-92,000		51 mm Dia. Sch. 40 Threaded PVC	1		ious Sample	Unhan I	1	F1
Type of S	1	51 mm Dia. Sch. 40 Threaded PVC, #10 Slo	it	100	Tube Sample ≟	m (with	date	2)
Scale	Elev. (m GSD)	Geological Log		# ÷		9 .	9 e	our c.
(ft.) (m)	Depth (m)	Description		Strat.	nitor Details	Sample No.	Sample	Vapour Conc.
		Ground Surface Elevation: 369.35 m						
+		SAND TILL - some silt to silty - with gravel and cobbles				1	GRAE	
1		- with graver and coobles - grey-brown - dry to damp			Holeplug	1 , 3 <del> </del>	UKAE	
5——————————————————————————————————————		- loose to crumbly texture				2	SS	32
-						3 1	SS 1	7/15cm
10 3				# _ # _		4 \	SS	31
				= =				
15						5	SS	25
5				= =		6	SS	21
+						7	SS	4/10cm
206					Silica Sand	8	SS	5/13cm
		- auger refusal at 6.6 m; continued with HQ coring				1	RX	
25 —				#				
-8						2 10	RX	
				# +				
30 —						3	RX	
-10								
35						4 11	RX	
11								
40 12						5 1	RX	
+							ICA	
13				<u>+</u>				
45 — 14						6	RX	
+					Cave			
50 — 15								
-16						7	RX	
Borehole		S. Bricks	H. Jackson			Fenco	MacL	aren
Record		Prepared by	Checked by				97/2/	

Project_		Kenora WMMP No.: 015	5926 Borehole	No. BH	[-5/17	
			Continuat	tion Sheet		
				Sheet 2 o		
Scale	Elev. (m GSD) Depth	Geological Log	Strat.	Monitor Details	Sample No. Plot Sample	Vapour Conc.
(ft.) (m)	(m)	Description	<del>\</del>		Sa	Ca
<del></del>	352.7					$\vdash$
55 — 17	16.6	probable BEDROCK - granodiorite - RQD = 63%	為	Cave	8 RX	
1	351.9 17.5	- RQD = 63% End of Borehole @ 17.5 m		Cave	14	
60 — 18		Elid of Boteliole @ 17.5 III				
19						
1						
65						
+						
70 — 21						
-22						
1						
75 ————————————————————————————————————						
80 —						
25						
85 — 26						
90 — 21						
-28						
95 — 29						
100						
31						
105 — 32						
+						
33						
110						
34						
						-(-
220 201 20 1804					0 <u>0</u> 00 <u>0</u> 0 1600	
Borehole R	Record				Fenco MacL	aren
					97/2/1	9

Project_		Kenora WMMP No.: 015926	_ Borehole No. Bi	H-6/6
		6/1/25 - 96/1/25 Driller: Paddock Drilling	Piezometers MW-6/5	
		See Figure S2-3-1		
		sed by:S. Bricks	Sheet 1 o	f 1
		Solid Stem Augers to 5.8 m		
**************************************			SS Split Spoon Sample RX	
Piezomete	er Detail			Grab Sample Piezometer Screen
Type of F	3		- CN Continuous Sample	Unter Level Floy
Type of S	OCON CONTRACTOR	mm Dia. Threaded PVC, #10 Slot with Geosock	_ SH Shelby Tube Sample ≚	m (with date)
Scale	Elev. (m GSD)	Geological Log	+ + b	ole ole our
(ft.) (m)	Depth (m)	Description	Monitor Details	Sample No. Plot Sample Type Vapour Conc.
		Ground Surface Elevation: 350.34 m		0, 0, 5
10 — 3 — 2 — 10 — 3 — 4 15 — 5 — 20 — 6 — 7 25 — 8 — 30 — 9 — 10 35 — 11 — 12 — 13 — 45 — 14	347.3 3.1 344.6 5.8	SILTY SAND TILL (weathered) - sand is fine to medium grained - locally with thin sand or silt laminae - grey to brown, with rust discolouration to 1.5 m - root traces noted to 1.9 m - wet - loose to compact  SILTY SAND TILL - with some thin sand laminae - some gravel to gravelly - grey - wet  End of Borehole @ 5.8 m	Holeplug  Cave  Geosock on Screen	1 \( \sum \) SS 11 2 \( \sum \) SS 14 3 \( \sum \) SS 24 4 \( \sum \) SS 34 5 \( \sum \) SS 38/23cm 6 \( \sum \) SS 105
50 — 15				
Borehole Record	2	S. Bricks H. Jacks		Fenco MacLaren
Record		Prepared by Checked b	У	97/2/19

Project_		Kenora WMMP No.: 015926	Borehole No. BI	H-6/15				
Date Dri	lled	96/2/5 - 96/2/5 Driller: Paddock Drilling	Piezometers <u>MW-6/14</u>					
Borehole	Location	see Figure S2-3-1						
Drilling	Supervis	Sheet 1 c	of 1					
Drilling	Method _	Hollow Stem Augers to 4.6 m;	SS Split Spoon Sample R	/ Book Cone				
		HQ Coring to 14.8 m		R Grab Sample				
Piezomete		51 mm Dia. Sch. 40 Threaded PVC	AU Auger Sample	Piezometer Screen				
203	÷	51 mm Dia. Sch. 40 Threaded PVC, #10 Slot	CN Continuous Sample SH Shelby Tube Sample	Water Level Elev. m (with date)				
Scale	Elev. (m GSD)	Geological Log	Monitor Details	p b e b c c c c c c c c c c c c c c c c c				
(ft.) (m)	Depth (m)	Description	Monitor Details	Sample No. Plot Sample Type Vapour Conc.				
		Ground Surface Elevation: 349.96 m						
10 - 3 4 15 10 3 10 3 10 11 12 13 14 15 15 15 15	345.4 4.6	SILTY SAND TILL - some gravel to gravelly - some cobbles with depth - grey - wet	Holeplug and Cave  He was many many many many many many many many	1				
Borehole Record	:	S. Bricks H. Jackson Prepared by Checked by	L	Fenco MacLaren 97/2/19				

Project_		Kenora WMMP No.:	015926	Borehole No.	BH	I-7/4		
Date Dril	lled9	06/1/26 - 96/1/26 Driller: Paddock	Drilling	Piezometers	MW-7/4			
Borehole	Location	See Figure S2-3-1						
Drilling	Supervis	sed by: S. Bricks			Sheet 1 of	1		
Drilling	Method _	Solid Stem Augers to 4.4 m		0 0-1:4 0	- 01- PV	D I-		
			W	S Split Spoor A Wash Sample	and the second second	Grab		
Piezomete		s 51 mm Dia. Sch. 40 Threaded PVC	AL		le 📳 p	Piezome	25	
8.62	37	mm Dia. Threaded PVC, #10 Slot with Ge	eosock si	N Continuous H Shelby Tube	Sample			-
1996 01 3	Elev.		31		sample	0 1	1 01	
Scale	(m GSD) Depth	Geological Log		Monito	or Details	Sample No.	Sample	Vapour Conc.
(ft.) (m)	(m)	Description		÷ d		Sar	Sal	Cal
		Ground Surface Elevation: 349.47 m PEAT/ORGANICS		34288 88		1 1	GRAE	
}	349.0 0.5	- black	/			1	BRAL	
5—1	247.0	CLAYEY SILT - with organics						
	347.8 1.7	- soft - wet			Holeplug	2	SS	20
+		SILTY SAND and GRAVEL (TILL-LIKE) - grey-brown				3 5	SS	20
10 3		- loose to compact - wet			Cave	4 3	SS	17
-4					Geosock on Screen	5	SS	13/23cm
15	345.1 4.4	End of Borehole @ 4.4 m			screen			
5								
20 -6								
20								
<u>+</u> 7								
25								
-8								
30 - 9								
+ 1								
10								
35—————————————————————————————————————								
}								
40 — 12								
13								
45								
14								
-15								
50								
I 16		C D.J.L.				-		
Borehole Record		S. Bricks Prepared by	H. Jackson Checked by			Fenco	MacL 97/2	
			5.				11/6/	12

Project Kenora WMMP No.: 015926			Borehole No. BH-8/22					
Date Dri	lled9	06/2/14 - 96/2/15 Driller: Paddock Drilling	Piezometers <u>MW-8/22</u>					
Borehole	Borehole Location: See Figure S2-3-1							
Drilling	Supervi	sed by:S. Bricks	Sh	eet 1 of	2			
Drilling	Method _	Solid Stem Augers to 13.8 m;	SS Split Spoon Sa	ample BV	Dool	Con		
		HQ Coring to 21.6 m	WA Wash Sample			Samp		
	Piezometer Details  Type of Pipe51 mm Dia. Sch. 40 Threaded PVC				ezon	eter	Screen	
10 1 10 10 10 10 10 10 10 10 10 10 10 10			CN Continuous Sam SH Shelby Tube Sa	mple ∑ Wa mple ∑ m	ter (wit	Level h dat	Elev.	
	Elev. (m GSD)	Geological Log			01	1 01		
Scale (ft.) (m)	Depth (m)	Description	TO Monitor D	etails	Sample No.	Sample	Vapour Conc.	
	(III)	Ground Surface Elevation: 358.96 m	0,		,,	0,		
-		SAND to SILTY SAND TILL - some gravel to gravelly	T-T					
-1		- some graver to graverly - brown, becoming grey below 1.2 m - compact to very compact			1	Ss	78	
5—		- damp to moist, wet below 10.7 m - with numerous thin (<3 cm) sand lenses throughout			2	\\ ss	54	
1 1					3	V ss	70	
10 -3					4	ss [	90/23cm	
-4			Holo	nlug	5	\ ss	60/15cm	
15			Hole	piug	6	\ ss	80	
= 5					7	√ ss		
20			# <del>=</del> # <del>=</del>		8		110/25cm	
17					9	\ SS		
25		e e				7		
8					10		50/15cm	
30 - 9					11	SS	70/15cm	
+					12	SS	100/8cm	
10					13	SS	35/23cm	
-11					14	SS	05/18cm	
40 — 12					15	SS	10/23cm	
13								
45—————————————————————————————————————		<ul> <li>possible thick sand and gravel lens at approximately 13.7 m</li> <li>soils too loose to continue with solid stem augers below 13.8</li> </ul>			1	RX		
+ 1		m; continued with HQ coring	Cave					
50 — 15								
Borehole Record	8	S. Bricks H. Jackson	24143		Fence	Macl	aren	
Record Prepared by Checked by						97/2	/19	

Project_		Kenora WMMP No.: 015926	Boreho	le No.		ВН	-8/22		
			Contin			t			
						eet 2 of	2		
221 022	Elev. (m GSD)	Geological Log	÷+				۵	<u> </u>	۲.
Scale (ft.) (m)	Depth	Description	Strat.	Mor	itor	Details	Sample No.	Sample Tupe	Vapour Conc.
(ft.) (m)	(m)	Description	S		T		S	S	>0
75 — 17 — 18 60 — 19 65 — 20 — 21 70 — 22 — 23 — 24 80 — 25 — 25 — 26 — 27 90 — 28 — 29 — 30 100 — 31 — 31 — 33 110 — 33	337.3 21.6	End of Borehole @ 21.6 m			Cave		S	S	
34									
1									
Borehole F	Record						Fence	MacL	aren
							9	7/2/1	9

Project_		Kenora WMMP No.: 015926	Borehole No. BH-9/6						
Date Drilled 96/2/15 - 96/2/15 Driller: Paddock Drilling Piezometers MW-9/6									
Borehole	Location	s: See Figure S2-3-1							
Drilling	Drilling Supervised by:S. Bricks Sheet 1 of 1								
Drilling	Method _	Hollow Stem Augers to 1.5 m;	SS Split Spoon Sample R	V Pack Cana					
		HQ Coring to 5.8 m		R Grab Sample					
Piezomete			AU Auger Sample	Piezometer Screen					
Type of F		51 mm Dia. Sch. 40 Threaded PVC, #10 Slot	CN Continuous Sample SH Shelby Tube Sample	Water Level Elev.					
1790 01 0									
Scale	Elev. (m GSD) Depth	Geological Log	Monitor Details	Sample No. Plot Sample Type Vapour Conc.					
(ft.) (m)	(m)	Description	Ω	Sal Sal					
		Ground Surface Elevation: 352.98 m	ZTATE 1888 1888	1 11 1					
}		Primarily SILT TILL, with numerous interbeds of silt and sand - grey - dry							
5—1	351.5	- uiy		1 SS 18/15cm 2 SS 70/23cm					
	1.5	BEDROCK - granodiorite		2 SS 70/23cm 1 RX					
-		- RQD = 94% - subvertical fracturing noted	Holeplug	2					
10 3				2   RX					
				3 RX					
15				4 RX RX					
5			Silica Sand	6 RX					
+	347.2			7 H RX					
20 - 6	5.8	End of Borehole @ 5.8 m							
7									
25									
-8									
30 9									
30 <u>+</u>									
10									
35 — 11									
‡"									
40 — 12									
± 12									
-13									
45—14									
}									
50 -15									
Borehole Record	:	S. Bricks H. Jackson		Fenco MacLaren					
Record		Prepared by Checked by		97/2/19					

Project	Kenora WMMP No.: 015926	Borehole No.	BH-	10/17
Date Drilled	96/2/16 - 96/2/16 Driller: Paddock Drilling	Piezometers	MW-10/17	7
Borehole Locat	on: See Figure S2-3-1			
Drilling Super	rised by: S. Bricks		Sheet 1 of	2
Drilling Method	Hollow Stem Augers to 5.2 m;			
-	HQ Coring to 16.6 m	SS Split Spoon WA Wash Sample		Rock Core Grab Sample
Piezometer Deta		AU Auger Sampl		iezometer Screer
10 10	51 mm Dia. Sch. 40 Threaded PVC 51 mm Dia. Sch. 40 Threaded PVC, #10 Slot		Sample $\nabla$	ater Level Elev. (with date)
Type of Screen			Sample = m	
Scale (m GS Dept	Geological Log	t t O Monito	r Details	Sample No. Plot Sample Type Vapour
(ft.) (m) (m)	Description	PI SH	Petarts	Sample No. Plot Sample Type Vapour
	Ground Surface Elevation: 361.83 m	F. In. 1001 500		
10 - 3 - 4 15 5 20 6 7 25 8 10 35 11 12 13 45 14 15 50 15 50 15	SILTY SAND to SANDY SILT TILL  - some gravel to gravelly, some cobbles and boulders  - brown to grey  - compact to dense  - damp to moist  - auger refusal at 5.2 m; continued with HQ coring		Ioleplug and Pave	1 \ \ SS 47 2 \ \ SS 42 3 \ \ SS 85 4 \ \ SS 80/23ci 5 \ \ SS 90/23ci 6 \ \ SS 80/15ci 1 \ \ \ RX 2 \ \ \ RX 4 \ \ \ \ RX 5 \ \ \ RX 6 \ \ \ RX
Borehole	S. Bricks H. Ja	A Property of the Property of		Fenco MacLaren
Record	Prepared by Checker			97/2/19

Project_	Kenora WMMP No.: 015926 Boreh				ole No.	BH-	3H-10/17			
	Continuation Sheet									
						Sheet 2 of	2			
Scale	Elev. (m GSD) Depth	Geolo	gical Log	Strat.	Mon	itor Details	nple o.	Sample Type	Vapour Conc.	
(ft.) (m)	(m)	Des	cription	Str			San	San	Var	
55 —	345.2 16.6	End of Borehole @ 16.6 m								
17	08892597	End of Botenote @ 10.0 in								
18										
60 —										
-19										
65										
-20										
1 1										
70 — 21										
-22										
1										
75 ————————————————————————————————————										
80 — 24										
- 1									T	
25										
85 — 26										
1							-			
90 —										
28										
95 — 29										
100										
31										
十.										
105 32										
110										
+									J	
									-(	
Dent to							Fence	MacLa	ren	
Borehole F	kecord						1 61160	MACLA	ien	
							9	7/2/19	,	