



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

4601 N Monroe Street • Spokane, Washington 99205-1295 • (509)329-3400

June 20, 2016

Mr. Dan Grogg
Chief Operator
LLSWD Water Reclamation Facility
22510 E Mission Way
Liberty Lake, WA 99019

RE: Liberty Lake Water Reclamation Facility Inspection, NPDES Permit No. WA0045144

Dear Mr. Grogg:

This letter accompanies the Inspection Report for Liberty Lakes Water Reclamation Facility. The inspection was conducted on May 5, 2016. Thank you and Darrell for taking the time to meet with me for the facility walk through and allowing me to inspect your lab and records. I appreciate the District's transparency as I was easily able to review your operation logs, laboratory bench sheets and other records kept at your facility. No deficiencies in operations or record keeping were found during my visit.

Please continue to keep me apprised of your construction progress. This is especially true as the Phase II upgrades progress. If a bypass becomes necessary please alert me as soon as possible.

The facility's discharge permit will be released for Public Comment on June 30, 2016. Once you have reviewed the contents, any comments must be submitted in writing within 45 days.

In addition, when the outfall becomes visible during the low flow season, I need to conduct a physical inspection. Please contact me at (509)329-3519 or akey461k@ecy.wa.gov if you have any questions regarding the information in the inspection report or if I can be of any other assistance.

Sincerely,

A handwritten signature in blue ink, appearing to read "MEK", followed by a long horizontal stroke.

M. Eleanor Key, P.E.
Facility Manager
Water Quality Program

MEKjab

Enclosure

cc: Bijay Adams, General Manager
Darrell Gamble, Operator
File





Form Approved
OMB No. 2040-0057

| | | |
|---|--|---|
| Sections F thru L: Complete on all inspections, as appropriate. N/A = Not Applicable | | PERMIT NO. WA-0045144 |
| SECTION F - Facility and Permit Background | | |
| ADDRESS OF PERMITTEE IF DIFFERENT FROM FACILITY (Including City, County and ZIP code) | DATE OF LAST PREVIOUS INVESTIGATION BY EPA/STATE May 22, 2014 | |
| 22510 E. Mission Ave. Liberty Lake, WA 99019 | FINDINGS Facility in compliance with discharge permit. | |
| SECTION G - Records and Reports | | |
| RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A (Further explanation attached _____) DETAILS: District keeps detailed records of laboratory results, DMRs, process monitoring, and maintenance records for reference. They have the ability to recall well more than 3 years of data. | | |
| (a) ADEQUATE RECORDS MAINTAINED OF: | | |
| (i) SAMPLING DATE, TIME, EXACT LOCATION | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (ii) ANALYSES DATES, TIMES | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (iii) INDIVIDUAL PERFORMING ANALYSIS | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (iv) ANALYTICAL METHODS/TECHNIQUES USED | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (v) ANALYTICAL RESULTS (e.g., consistent with self-monitoring report data) | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (b) MONITORING RECORDS (e.g., flow, pH, D.O., etc.) MAINTAINED FOR A MINIMUM OF THREE YEARS INCLUDING ALL ORIGINAL STRIP CHART RECORDINGS (e.g., continuous monitoring instrumentation, calibration and maintenance records). Facility maintains all monitoring records for many years past. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (c) LAB EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS KEPT. Through laboratory equipment records including calibrations and servicing. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (d) FACILITY OPERATING RECORDS KEPT INCLUDING OPERATING LOGS FOR EACH TREATMENT UNIT. District tracks operation efficiency for individual processes. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (e) QUALITY ASSURANCE RECORDS KEPT. QA manual onsite, all records available. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (f) RECORDS MAINTAINED OF MAJOR CONTRIBUTING INDUSTRIES (and their compliance status) USING PUBLICLY OWNED TREATMENT WORKS. Maintain a list of industries in the area; however no major contributing industries. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| SECTION H - Permit Verification | | |
| INSPECTION OBSERVATIONS VERIFY THE PERMIT. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A (Further explanation attached _____) DETAILS: Copy kept onsite in office. Unit processes follow permit description. | | |
| (a) CORRECT NAME AND MAILING ADDRESS OF PERMITTEE. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (b) FACILITY IS AS DESCRIBED IN PERMIT. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (c) PRINCIPAL PRODUCT(S) AND PRODUCTION RATES CONFORM WITH THOSE SET FORTH IN PERMIT APPLICATION. | <input type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (d) TREATMENT PROCESSES ARE AS DESCRIBED IN PERMIT APPLICATION. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A |
| (e) NOTIFICATION GIVEN TO EPA/STATE OF NEW, DIFFERENT OR INCREASED DISCHARGES. | <input type="checkbox"/> YES | <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A |
| (f) ACCURATE RECORDS OF RAW WATER VOLUME MAINTAINED. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (g) NUMBER AND LOCATION OF DISCHARGE POINTS ARE AS DESCRIBED IN PERMIT. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (h) CORRECT NAME AND LOCATION OF RECEIVING WATERS. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (i) ALL DISCHARGES ARE PERMITTED. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| SECTION I - Operation and Maintenance | | |
| TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A (Further explanation attached _____) DETAILS: Facility is well operated and maintained. Still have issues with Hycor screen. This will be replaced with Phase II upgrade. Operators and maintenance staff conduct regular preventative maintenance. Currently in construction but increased traffic, etc. will not prevent staff from monitoring/operating facility. Slightly exceeded seasonal phosphorus limit in 2014; however, staff worked to correct the issue quickly and have made process adjustments to prevent in the future. | | |
| (a) STANDBY POWER OR OTHER EQUIVALENT PROVISIONS PROVIDED. Tested during Nov 2015 windstorm when they lost power. Ran for 37 hours and maintained treatment efficiency. No permit exceedances resulted. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (b) ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (c) REPORTS ON ALTERNATIVES SOURCE OF POWER SENT TO EPA/STATE AS REQUIRED BY PERMIT. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (d) SLUDGES AND SOLIDS ADEQUATELY DISPOSED. Land applied with biosolids permit. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (e) ALL TREATMENT UNITS IN SERVICE. At the time of inspection, all were in service. During construction of the Phase II upgrade, facility does not expect any construction related bypasses Ecology will be notified in advance if this changes. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (f) CONSULTING ENGINEER RETAINED OR AVAILABLE FOR CONSULTATION ON OPERATION AND MAINTENANCE PROBLEMS. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (g) QUALIFIED OPERATING STAFF PROVIDED. District has personnel dedicated to operations and collection system maintenance. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO <input type="checkbox"/> N/A |
| (h) ESTABLISHED PROCEDURES AVAILABLE FOR TRAINING NEW OPERATORS. Facility does not have a need for additional operators at this time. Both Dan and Darrel maintain their certifications and participate in various activities to receive CEUs as needed to maintain certification. | <input type="checkbox"/> YES | <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A |

| | | | | |
|-----|---|---|--|------------------------------|
| (i) | FILES MAINTAINED ON SPARE PARTS INVENTORY, MAJOR EQUIPMENT SPECIFICATIONS, AND PARTS AND EQUIPMENT SUPPLIERS. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| (j) | INSTRUCTIONS FILES KEPT FOR OPERATION AND MAINTENANCE OF EACH ITEM OF MAJOR EQUIPMENT. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| (k) | OPERATION AND MAINTENANCE MANUAL MAINTAINED. District keeps a o/m manual for reference. A new O/M manual will be required following completion and initiation of operation of the Phase II upgrades. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| (l) | SPCC PLAN AVAILABLE. An SPCC update will be required once facility constructs Phase II upgrades due to additional onsite chemical storage. | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| (m) | REGULATORY AGENCY NOTIFIED OF BY PASSING. (<i>Occasional fine screen bypass during maintenance to the bar screen</i>). | <input checked="" type="checkbox"/> YES | <input type="checkbox"/> NO | <input type="checkbox"/> N/A |
| (n) | ANY BY-PASSING SINCE LAST INSPECTION. | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO | <input type="checkbox"/> N/A |
| (o) | ANY HYDRAULIC AND/OR ORGANIC OVERLOADS EXPERIENCED. Facility utilizes existing tankage as an equalization basin to help mitigate any hydraulic overloads. The use of the EQ basin also helps maintain treatment efficiency in the biological nutrient removal process utilized at the facility. | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO | <input type="checkbox"/> N/A |

| | |
|---|--------------------------|
| | PERMIT NO. WA-0045144 |
| SECTION J - Compliance Schedules | |
| PERMITTEE IS MEETING COMPLIANCE SCHEDULE. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A (Further explanation attached _____) CHECK APPROPRIATE PHASE(S): <input checked="" type="checkbox"/> (a) THE PERMITTEE HAS OBTAINED THE NECESSARY APPROVALS FROM THE APPROPRIATE AUTHORITIES TO BEGIN CONSTRUCTION. <input checked="" type="checkbox"/> (b) PROPER ARRANGEMENT HAS BEEN MADE FOR FINANCING (mortgage commitments, grants, etc.). <input checked="" type="checkbox"/> (c) CONTRACTS FOR ENGINEERING SERVICES HAVE BEEN EXECUTED. <input checked="" type="checkbox"/> (d) DESIGN PLANS AND SPECIFICATIONS HAVE BEEN COMPLETED. <input checked="" type="checkbox"/> (e) CONSTRUCTION HAS COMMENCED. <input checked="" type="checkbox"/> (f) CONSTRUCTION AND/OR EQUIPMENT ACQUISITION IS ON SCHEDULE. <input type="checkbox"/> (g) CONSTRUCTION HAS BEEN COMPLETED. <input type="checkbox"/> (h) START-UP HAS COMMENCED. <input type="checkbox"/> (i) THE PERMITTEE HAS REQUESTED AN EXTENSION OF TIME. | |
| SECTION K - Self-Monitoring Program | |
| Part 1 - Flow measurement (Further explanation attached _____) | |
| PERMITTEE FLOW MEASUREMENT MEETS THE REQUIREMENTS AND INTENT OF THE PERMIT. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A DETAILS: | |
| (a) PRIMARY MEASURING DEVICE PROPERLY INSTALLED. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A TYPE OF DEVICE: <input type="checkbox"/> WEIR <input checked="" type="checkbox"/> PARSHALL FLUME <input type="checkbox"/> MAGMETER <input type="checkbox"/> VENTURI METER <input type="checkbox"/> OTHER: (Specify) _____ | |
| (b) CALIBRATION FREQUENCY ADEQUATE. (Date of last calibration) Continue to run calibrations between influent/effluent flow monitoring. Upgrades will replace influent monitoring equipment for more accurate influent flow reporting. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | |
| (c) PRIMARY FLOW MEASURING DEVICE PROPERLY OPERATED AND MAINTAINED. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | |
| (d) SECONDARY INSTRUMENTS (totalizers, recorders, etc.) PROPERLY OPERATED AND MAINTAINED. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | |
| (e) FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGES OF FLOW RATES. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | |
| Part 2 - Sampling (Further explanation attached _____) | |
| PERMITTEE SAMPLING MEETS THE REQUIREMENTS AND INTENT OF THE PERMIT. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A DETAILS: District conducts extensive process control testing not specified in the permit to keep track of treatment process efficiency. | |
| (a) LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | |
| (b) PARAMETERS AND SAMPLING FREQUENCY AGREE WITH PERMIT. At times, sampling frequencies are more frequent than specified in the permit. Any increased sampling frequency for a permit parameter is reported on the appropriate DMR. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | |
| (c) PERMITTEE IS USING METHOD OF SAMPLE COLLECTION REQUIRED BY PERMIT. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A IF NO, <input checked="" type="checkbox"/> GRAB <input checked="" type="checkbox"/> MANUAL COMPOSITE <input checked="" type="checkbox"/> AUTOMATIC COMPOSITE FREQUENCY As specified in the permit and depends on the parameter. | |
| (d) SAMPLE COLLECTION PROCEDURES ARE ADEQUATE <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | |
| (i) SAMPLES REFRIGERATED DURING COMPOSITING <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | |
| (ii) PROPER PRESERVATION TECHNIQUES USED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | |
| (iii) FLOW PROPORTIONED SAMPLES OBTAINED WHERE REQUIRED BY PERMIT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | |
| (iv) SAMPLE HOLDING TIMES PRIOR TO ANALYSES IN CONFORMANCE WITH 40 CFR 136.3 <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | |
| (e) MONITORING AND ANALYSES BEING PERFORMED MORE FREQUENTLY THAN REQUIRED BY PERMIT. Additional monitoring conducted at the discretion of the City. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | |
| (f) IF (e) IF YES, RESULTS ARE REPORTED IN PERMITTEE'S SELF-MONITORING REPORT. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | |
| Part 3 - Laboratory (Further explanation attached _____) | |
| PERMITTEE LABORATORY PROCEDURES MEETS THE REQUIREMENTS AND INTENT OF THE PERMIT. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A DETAILS: | |
| (a) EPA APPROVED ANALYTICAL TESTING PROCEDURES USED. (40 CFR 136.6) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | |
| (b) IF ALTERNATE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED. <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A | |
| (c) PARAMETERS OTHER THAN THOSE REQUIRED BY THE PERMIT ARE ANALYZED. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | |
| (d) SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | |
| (e) QUALITY CONTROL PROCEDURES USED. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | |
| (f) DUPLICATE SAMPLES ARE ANALYZED. _____ % OF TIME <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A | |
| (g) SPIKED SAMPLES ARE USED. _____ % OF TIME <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A | |
| (h) COMMERCIAL LABORATORY USED. For toxic parameters (TCDD, PBDE and PCB) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | |
| (i) COMMERCIAL LABORATORY STATE CERTIFIED. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | |
| LAB NAME Pacific Rim for toxics/ Anatek for metals and priority pollutant scans/Accurate testing for other parameters (Alkalinity,etc). LAB ADDRESS #103, 19575 – 55A Avenue Surrey, BC V3S 8P8/ 504 E Sprague Ave #D Spokane, WA 99209/7950 N Meadowlark Way #H, Cd'A, ID 83815 | |

| | | | | | | PERMIT NO. WA-0045144 | |
|--|-------------|-------------|-------------|--------------|----------------------|--------------------------|-------------|
| SECTION L - Effluent/Receiving Water Observations <i>(Further explanation attached _____)</i> | | | | | | | |
| OUTFALL NO. | OIL SHEEN | GREASE | TURBIDITY | VISIBLE FOAM | VISIBLE FLOAT SOL | COLOR | OTHER |
| 001 - submerged | Not visible | Not visible | Not visible | Not visible | Not visible | Not visible | Not visible |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

(Sections M and N: Complete as appropriate for sampling inspections)

| | |
|--|--|
| SECTION M - Sampling Inspection Procedures and Observations <i>(Further explanation attached _____)</i> | |
| <input type="checkbox"/> GRAB SAMPLES OBTAINED <input type="checkbox"/> COMPOSITE OBTAINED <input type="checkbox"/> FLOW PROPORTIONED SAMPLE <input type="checkbox"/> AUTOMATIC SAMPLER USED <input type="checkbox"/> SAMPLE SPLIT WITH PERMITTEE <input type="checkbox"/> CHAIN OF CUSTODY EMPLOYED <input type="checkbox"/> SAMPLE OBTAINED FROM FACILITY SAMPLING DEVICE COMPOSITING FREQUENCY _____ PRESERVATION _____ SAMPLE REFRIGERATED DURING COMPOSITING: <input type="checkbox"/> YES <input type="checkbox"/> NO SAMPLE REPRESENTATIVE OF VOLUME AND NATURE OF DISCHARGE _____ | |
| SECTION N - Analytical Results <i>(Attach report if necessary)</i> | |
| No samples taken during the compliance inspection. | |

Inspection Narrative:

Eleanor Key, Permit Manager/Facility Engineer, arrived onsite at the Operations building on May 5, 2016 at 8:30 am. Dan Grogg and Darrell Gamble met Eleanor at the facility.

Upon entering the facility, Eleanor conducted a review of the operation and laboratory records kept at the facility. As with the last inspection, online logs for the unit processes (including regular and unanticipated maintenance). The facility will receive a perfect compliance award for 2015. They slightly exceeded their seasonal phosphorus average in 2014 but made a few process changes (adjusted wasting rate from the oxidation ditch to drop their MLSS to ~1,000 mg/L) to avoid future violations. Recently, the District had an issue with their pH meter. This has since been corrected and the alarm set points changed. No late submittal violations.

An inspection of the lab included spot checking bench sheets and analytical data. The District keeps all lab records in an easily accessible electronic format and maintains running QA/QC procedures for their conventional testing parameters. When analyzing for non-accredited parameters, the facility sends samples to Anatek and Accurate testing labs locally (all toxics go to Pacific Rim). Eleanor suggested pursuing accreditation for CBOD₅ ahead of this next permit issuance as the District's wasteload allocation (WLA) from the 2010 Spokane River DO TMDL will become effective toward the end of the 2016 permit cycle. For additional process control, the District also monitors for nitrates, hardness, and alkalinity to track biological nutrient removal efficiency.

No change has occurred in the flow monitoring calibration procedure. As reported in the previous inspection narrative, the District uses a parshall flume with a Milltronics ultrasonic flow meter for both influent and effluent flow measurement. The operators run a continuous calibration on both flow meters using the SCADA system. They look for <1% difference between the influent/effluent meters and contract with a specialist to recalibrate once the drift exceeds 1%. Phase II upgrades will update the influent flow meter, possibly replacing the ultrasonic device with a parshall flume. At this time, the District is still considering the add-alternate bid.

The Hycor influent screen continues to require regular maintenance for internal component replacement. When the unit requires maintenance, the District provides notification to Ecology that the flow will be bypassed to the bar rack for temporary screening. Replacing this screen is a priority for the District and will occur once the piece of equipment can be delivered to the site.

The equalization basin is still in use to help smooth peaking of flows into the facility. Utilizing this basin helps maintain the efficiency of the BNR process and control the rerelease of nutrients from the return flows. Fecal coliform counts remain quite low and the UV bulbs/sleeves are kept clean.

No physical inspection of the District's outfall occurred as Spokane River flows obscured the visibility. Dan or Darrell will contact Eleanor later in the summer (during low flows) for the outfall inspection. Effluent from the UV trough was colorless and clear having minimal suspended solids.

The physical walkthrough yielded no major changes from the 2014 compliance inspection. Standard operational procedures have not changed significantly since the previous compliance inspection other than seasonal modifications. Construction of the Phase II upgrades started in June 2016 and shall be substantially complete with an initiation of operation by March 2018. Both Dan and Darrell anticipate the startup of the tertiary membrane filtration. Startup in early 2018 will provide the District with the ability to optimize the performance ahead of the 2021 compliance deadline.

Dewatering occurs approximately 4-6 times per month depending on the season. No changes to their biosolids permit and or the location for disposal.

The Liberty Lake Sewer and Water District continues to run a well maintained facility. Operations and District staff maintain a transparent relationship with Ecology.