AGRIUM/CONDA
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AGR	010136	010138	11/00/2001	Other	TLB Agrium		Analytical Procedures: pH Determination
AGR	010139	010364	2001-2005	Other	Agrium Conda Phosphate		Numerous fluoride analyses and pH determinations; and related sampling/testing data.

CATEGORY:	ANALYTICAL PROCEDURES	SECTION:
SUBJECT:	**Fluoride in PPA Feed Acids (High Fluoride) by ISE using an Orion 720A ISE meter**	

DISCUSSION

An ion specific electrode (ISE) is directly calibrated with known fluoride standards. Samples are assayed and the results are calculated using the derived calibration curve.

SCOPE

This procedure outlines the analysis of Fluoride in PPA Feed Acids.

SAFETY

Normal laboratory personal protective equipment (PPE) is required.

APPARATUS

1. Orion 720A ISE meter
2. Orion Fluoride/Fluoride Combination Electrode, 96-09
3. 250 ml class "A" volumetric flasks
4. 1000 ml class "A" volumetric flasks
5. 5, 10, and 100 ml class "A" pipets
6. 150 ml plastic beakers
7. Analytical balance, 0.1 mg readability
8. Hot Plate
9. Magnetic stirrer and stir bars

REAGENTS

1. 1000 mg/l Fluoride standard.
2. Sodium Fluoride (NaF), Certified ACS grade. (≥ 99 %)
3. 1000 mg/l + HCl Fluoride standard:

   Weigh 2.2100 ± 0.0005 gms NaF into a1000 ml class "A" volumetric flask. Add 20 ml HCl. Dilute to the mark with DI water. Cap and mix.

   Working 1000 mg/l Calibration Standard: Pipet 40.0 mls into a 150 ml plastic beaker. Add 40.0 mls 400 g/l Sodium Citrate buffer solution.

4. 100 mg/l + HCl Fluoride standard:

   Pipet 100 ml of the 1000 mg/l Fluoride standard (1) into a 1000 ml class "A" volumetric flask. Add 20 ml HCl. Dilute to the mark with DI water. Cap and mix.

   Working 100 mg/l Calibration Standard: Pipet 40.0 mls into a 150 ml plastic beaker. Add 40.0 mls 400 g/l Sodium Citrate buffer solution

5. 10.0 mg/l + HCl Fluoride standard:

   Pipet 10 ml of the 1000 mg/l Fluoride standard (1) into a 1000 ml class "A" volumetric flask. Add 20 ml HCl. Dilute to the mark with DI water. Cap and mix.

   Working 10 mg/l Calibration Standard: Pipet 40.0 mls into a 150 ml plastic beaker. Add 40.0 mls 400 g/l Sodium Citrate buffer solution

6. Electrode Filling solution, # 900061, Optimum Results A
7. Sodium Citrate Buffer:

   400 g/l solution

CALIBRATION

1. Calibrate the Orion 720A ISE meter using the 10, 100, and 1000 mg/l working calibration standards. (The 720A has 2 channels, 1 & 2, the Fluoride electrode is on channel 1)
   1. Press ***Mode*** until the display reads CON. Press ***calibrate*** The last date and time will be displayed, then Enter No. STDS will be displayed. Press ***3***, then ***Yes***. Using the magnetic stirrer on a low stir rate, introduce the 10 mg/l calibration standard. The display will read x.xxx CON on the first line and CH-1 25.0 C STD1 on the second line. When the second line reads Ready Enter Value, enter 10 and press ***Yes***. The second line display will read CH-1 25.0C Std2. Introduce the 100 mg/l calibration standard. Follow the same procedure as the 10 mg/l std. Do the same for the 1000 mg/l standard.
   2. When the calibration is finished (The 1000 mg/l value has been entered), a blank will be calculated and the slope will be displayed for a few seconds. The slope of the curve should be: -54.0 to -60.0

Quality Control

A QC sample (Tk 12 QC) is assayed along with each sample run.

QC = 2.4 % F ± 0.15 % absolute.

PROCEDURE (Sample & QC)

1. Weigh 0.25 – 0.50 gms sample into a 250 ml class "A" volumetric flasks. Record the weight to the nearest 0.1 mg. Add ≈ 90 ml DI water and 5.0 ml HCl

2. Heat until just boiling. Add a stir bar and stir on a magnetic stirrer for 10 minutes. Cool to room temperature. **The samples must be at the same temperature as the standards.** Dilute to the mark with DI water, cap and mix.
3. Pipet 40.0 mls into a 150 ml plastic beaker. Add 40.0 mls Sodium citrate buffer. **The samples must be at the same temperature as the standards.**
4. Analyze using the Orion 720A ISE meter:
    1. Assay the 10 mg/l calibration standard 1st, then samples. Assay the Tk 12 QC at the end of the sample run.
    2. Introduce the 10 mg/l calibration standard. Wait for Ready. The reading should be 10.0 ± 0.5. If not in this range, recalibrate, If the calibration check fails again, repipet the standards.
    3. Introduce the samples and record the readings.

CALCULATIONS

$$\frac{Dilution}{SampleWt} \times \text{Re}ading = mg/l\ Fluoride$$

PRECISION/ LIMITS

REFERENCES

Orion Fluoride/Fluoride Combination Electrode Instruction Manual

Fluoride Determination by ISE
(Ion-Specific Electrode)

This laboratory method is used to analyze fluoride concentration of stack gas samples collected by EPA Method 13B. See 40 CFR 63.606(c)(2).

Laboratory Instruments

1. Orion 720 ISE Meter, or equivalent.
2. Orion 96-09 Combination Fluoride Electrode, or equivalent.
3. Pipets, volumetric flasks, and nalgene beakers.
4. Magnetic stir plate and Teflon-coated stir bars.

Reagents

1. 1000 ppm fluoride standard – RICCA fluoride standard catalog # 3173-32.
2. HACH 1.00 ppm fluoride standard solution catalog # 291-53.
3. De-ionized water.
4. Total Ionic Strength Adjustment Buffer (TISAB).

Procedure

1. Preparation of standards.

Fill fluoride-specific electrode with Optimum Results "A" solution ≈ ½ hour before calibration.

Note: All standards are prepared fresh

Standard Stock solutions:

100 ppm fluoride standard solution: pipet 50.0 ml of 1000 ppm fluoride standard into a 500 ml volumetric flask and dilute with de-ionized water to 500 ml.

10 ppm fluoride standard solution: pipet 50.0 ml of 100 ppm fluoride solution into a 500 ml volumetric flask and dilute with de-ionized water to 500 ml.

Calibration Standard solutions:

0.5 ppm standard: pipet 5.0 ml of 10 ppm fluoride standard into a 100 ml volumetric flask and dilute with de-ionized water to 100 ml.

1.0 ppm standard: pipet 1.0 ml of 100 ppm fluoride standard into a 100 ml volumetric flask and dilute with de-ionized water to 100 ml.

3.0 ppm standard: pipet 3.0 ml of 100 ppm fluoride standard into a 100 ml volumetric flask and dilute with de-ionized water to 100 ml.

5.0 ppm standard: pipet 5.0 ml of 100 ppm fluoride standard into a 100 ml volumetric flask and dilute with de-ionized water to 100 ml.

Pipet 50 ml of each calibration standard into separate 150 ml nalgene beakers. Add 50 ml TISAB II to each beaker and use a small Teflon-coated magnet and stir plate (lowest achievable speed) to mix thoroughly.

2. Meter calibration

a. Press MODE until "con" is displayed.
b. Press CALIBRATE (use channel 1).
c. Enter # of standards (4), press YES.
d. Raise electrode out of the standby solution and rinse with de-ionized water; blot the electrode casing dry with a KimWipe (DO NOT touch or rub the electrode!).
e. Place electrode into first standard (0.5 ppm F); wait for "ENTER VALUE" to be displayed, enter "0.5", press YES.
f. Remove electrode from standard, rinse with de-ionized water, and blot dry.
g. Repeat steps e. and f. above for each subsequent standard: 1.0, 3.0, and 5.0 ppm.
h. After the 5.0 ppm standard has been entered, the meter will display a curve slope value of the four standards. The slope value must be 54-60 mV (displayed as a negative -#).

The meter will enter MEASURE MODE after calibration.

3. QC sample
Pipet 50.0 ml HACH 1.00 ppm standard solution into a 150 ml nalgene beaker. Add 50 ml TISAB. Mix with Teflon-coated stir bar on stir plate at slowest achievable speed (same as stds.). Rinse electrode with de-ionized water, blot dry, and lower into prepared QC sample. Wait for "READY" to be displayed on meter. Record concentration value in ppm F. Must be 1.00 ± 0.05 ppm F. Assay the QC sample before analyzing samples.

4. Sample preparation

i. Pipet 50 ml sample into a 150 ml nalgene beaker. Add 50 ml TISAB. Mix with Teflon-coated stir bar on stir plate at slowest achievable speed (same as stds.).
ii. Rinse electrode with de-ionized water, blot dry, and lower into prepared sample.
iii. Wait for "READY" to be displayed on meter. Record concentration value in ppm F.
iv. Repeat steps i. – iii. above for additional samples.
v. After all samples are analyzed, clean up all the pipets, beakers, flasks, and put the ISE back into the standby solution in STANDBY MODE.

PURPOSE

- To determine the concentration of fluoride in phosphate rock and phosphate based solid and liquid fertilizer

SCOPE

- This analysis is applicable to phosphate rock, phosphoric acid, and granular phosphate based fertilizer. Fluoride is measured using a specific ion analyzer. This method is based on that found in Reference #1.

THEORY

- The fluoride electrode measures the activity of the fluoride in solution by detecting a potential across a lanthanum fluoride crystal, which is contained in the end of the electrode. The activity depends on the solutions total ionic strength, pH, and interfering fluoride complexing species. A uniform ionic strength background is obtained by adding a buffer to the sample solution. The buffer also controls the pH and breaks up any complexes, which contain fluoride.

- The sample is digested in acid at a low temperature to prevent the volatilization of fluoride. The resulting solution is analyzed for fluoride using a specific ion electrode method and fluoride standards.

SAFETY

- Side Shield Safety Glasses
- Long Sleeved Acid Resistant Shirt or Lab Coat
- Latex Gloves
- Closed Toe Shoes
- Dust Mask

APPARATUS

- Specific Ion Analyzer, with fluoride sensitive electrode and reference electrode.
- Analytical balance, capable of reading to 4 decimal Volumetric flask, 250 mL. places.
- Aluminum weighing dish.
- Hot plate
- Magnetic stirrer, stirring bar.
- Water bath

- Plastic micro beaker
- Deionized water, Resistivity >10 Megohm-cm.
- Class "A" pipets, 10 mL & 20 mL.

REAGENTS

- Fluoride standards: REG-080
- Sodium citrate buffer, 400 g/L: REG-075
- Hydrochloric acid (HCl), concentrated, certified ACS: REG-001

CALIBRATIONS

- The specific ion analyzer is calibrated using the prepare fluoride standard. Refer to EQP-033.

PROCEDURE

1. In a tare 250 mL volumetric flask, weigh enough sample to provide a fluoride concentration in the final solution of 20 to 6o mg/L *(approximately 0.25 g of phosphate rock and phosphoric acid solution).*

2. Record the weight to 4 decimal places.

3. Add a stir bar and enough deionized water to bring the volume to approximately 90 mL.

4. Add 5 mL of HCl to the flask and place it on a hot plate bringing the contents <u>just</u> to a rolling boil.
   <u>Note:</u> *Excessive boiling will remove (volatilize) the fluoride from the solution.*

5. Remove the flask from the hot plate and stir it on a magnetic stirrer for a minimum of 10 minutes.

6. Cool the flask to room temperature in a water bath.

7. Remove the stir bar, bulk the flask to the 250 mL mark with deionized water, and mix.

8. Calibrate the ion specific meter using the appropriate standards and procedure. Refer to EQP-033.

9. Pipet 40 mL of sample solution and dispense 40 mL of sodium citrate buffer to a plastic micro beaker.

10. Add a stir bar to the micro beaker and begin stirring for 3 minutes. Set a timer.

11. After 3 minutes, record the concentration of the sample and calculate the percent fluoride in the sample.

CRITICAL FACTORS/INTERFERENCES

- Ensure that the sample is analyzed under the same conditions as the standards (time and temperature).
- Do not boil excessively to avoid fluoride loss.
- Ensure the amount of HCl used for digestion is exactly 5mL as standards are matrix matched for 0.744% HCl solution.

CALCULATIONS

$$\% \text{ Fluoride} = \frac{\text{Concentration (mg/L) x 250 (mL)}}{\text{Sample weight (g) x 1000 (mg/g) x 1000 (mL/L)}} \text{ x } 100\%$$

PRECISION/ LIMITS

- As determined by "Fluoride by Specific Ion in Phosphate Based Material Method Evaluation" Quality Assurance Report.[2]

Theoretical Value % Fluoride	Actual Value % Fluoride*	% Difference
3.54	3.55	100.3
3.54	3.53	99.7
3.54	3.58	101.1
3.54	3.56	100.6
3.54	3.54	100
3.54	3.53	99.7
3.54	3.55	100.3
3.54	3.54	100
Average:	3.55	

*Samples were analyzed on a dry basis.

STORAGE

- Store the Fluoride electrode with the protective cap.
- Store the Reference Electrode in Outer filling solution or deionized water

REFERENCES

- *Association of Florida Phosphate Chemists,* 7th ed., Methods of Analysis for Phosphate Rock, Method No. 14 FLUORIDE - F, 1991, p. 9-38.
- Fluoride by Specific Ion in Phosphate Based Material Method Evaluation, July 1999, Raymond Wong, Trina Actymichuk: on file FLS.
- RFO-FLS-ANA-01-231: Redwater Analytical Method
- REG-075 Fluoride Standards.
- RFO-FLS-03-011 Specific Ion Electrode Calibration.

DISSCUSSION

An ion specific electrode (ISE) is used to determine the potential (Initial mV) of a known weight and dilution of PPA product acid. 1.0 ml of 100 mg/l fluoride standard is injected using a radiometer burett. The potential of the sample + standard (Final mV) is then determined and the result calculated.

SCOPE

This procedure outlines the analysis of Fluoride in PPA Product Acids.

SAFETY

Normal laboratory personal protective equipment (PPE) is required.

APPARATUS

1. Radiometer Autotitrator
2. Orion Fluoride/Fluoride Combination Electrode, 96-09
3. 100 ml class "A" volumetric flasks
4. 1000 ml class "A" volumetric flask
5. 100 ml class "A" pipet
6. 150 ml plastic beakers
7. Analytical balance, 0.1 mg readability
8. Hot Plate

REAGENTS

1. 1000 mg/l Fluoride standard
2. 100 mg/l Fluoride standard:

   Pipet 100 ml of the 1000 mg/l Fluoride standard into a 1000 ml class "A" volumetric flask. Dilute to the mark with DI water. Cap and mix.
3. Electrode Filling solution, 900061

CALIBRATION

NA

PROCEDURE

1. Weigh ≈ 10 gms sample into a 100 ml class "A" volumetric flasks. Record the weight to the nearest 0.1 mg. Add ≈ 30 ml DI water.
2. Heat gently on a hot plate for 10 minutes. **DO NOT BOIL.** Cool to room tempurature.
3. Dilute to the mark with DI water, cap and mix.
4. Pour into a 150 ml plastic beaker.

5. Analyze on the #1 Radiometer: **Flush the burett before analysis**
    1. Sample Stack – Low F Standard Addition – Enter sample weight in Amount column, enter 1.000 in factor column.
    2. Sample Changer set up – Low F Std Add – Enter 1st and last beaker #s. Load Low F Standard Addition Sample Stack. Run sample changer.

CALCULATIONS

The result is derived from the following calculation:

$$\left[\frac{1}{10^{((initial\ mV - final\ mV)/slope)} - (100/101)\times(100/101)}\right]\times 100/Swt.$$

PRECISION/ LIMITS

Limits: 0.5 – 50 ppm F

Precision: RSD on 20 ppm F samples = 10 %

RSD on 5 ppm F samples = 7 %

REPORTING

REFERENCES

Orion Fluoride/Fluoride Combination Electrode Instruction Manual

Astaris Carondelet Work Instruction QTW 8301-425

FILE

CATEGORY:	ANALYTICAL PROCEDURES	SECTION:
SUBJECT:	**Fluoride in PPA Product Acids (Low Fluoride) by Known Addition**	

DISSCUSSION

An ion specific electrode (ISE) is used to determine the potential (Initial mV) of a known weight and dilution of PPA product acid. 1.0 ml of 100 mg/l fluoride standard is injected using a radiometer burett. The potential of the sample + standard (Final mV) is then determined and the result calculated.

SCOPE

This procedure outlines the analysis of Fluoride in PPA Product Acids.

SAFETY

Normal laboratory personal protective equipment (PPE) is required.

APPARATUS

1. Radiometer Autotitrator
2. Orion Fluoride/Fluoride Combination Electrode, 96-09
3. 100 ml class "A" volumetric flasks
4. 1000 ml class "A" volumetric flask
5. 100 ml class "A" pipet
6. 150 ml plastic beakers
7. Analytical balance, 0.1 mg readability
8. Hot Plate

REAGENTS

1. 1000 mg/l Fluoride standard
2. 100 mg/l Fluoride standard:

   Pipet 100 ml of the 1000 mg/l Fluoride standard into a 1000 ml class "A" volumetric flask. Dilute to the mark with DI water. Cap and mix.
3. Electrode Filling solution, 900061

CALIBRATION

NA

PROCEDURE

1. Weigh ≈ 10 gms sample into a 100 ml class "A" volumetric flasks. Record the weight to the nearest 0.1 mg. Add ≈ 30 ml DI water.
2. Heat gently on a hot plate for 10 minutes. **DO NOT BOIL.** Cool to room tempurature.
3. Dilute to the mark with DI water, cap and mix.
4. Pour into a 150 ml plastic beaker.

5. Analyze on the #1 Radiometer: **Flush the burett before analysis**
    1. Sample Stack – Low F Standard Addition – Enter sample weight in Amount column, enter 1.000 in factor column.
    2. Sample Changer set up – Low F Std Add – Enter 1st and last beaker #s. Load Low F Standard Addition Sample Stack. Run sample changer.

CALCULATIONS

The result is derived from the following calculation:

$$\left[\frac{1}{10^{((Initial\ mV - final\ mV)/slope)} - (100/101)\times(100/101)}\right]\times 100/Swt.$$

PRECISION/ LIMITS

Limits: 0.5 – 50 ppm F

Precision: RSD on 20 ppm F samples = 10 %

RSD on 5 ppm F samples = 7 %

REPORTING

REFERENCES

Orion Fluoride/Fluoride Combination Electrode Instruction Manual

Astaris Carondelet Work Instruction QTW 8301-425

FILE

Fluoride Determination by ISE (Ion-Specific Electrode)

This laboratory method is used to analyze fluoride concentration of stack gas samples collected by EPA Method 13B. See 40 CFR 63.606(c)(2).

LABORATORY INSTRUMENTS

1. Orion 720 ISE Meter, or equivalent.
2. Orion 96-09 Combination Fluoride Electrode, or equivalent.
3. Pipets, volumetric flasks, and nalgene beakers.
4. Magnetic stir plate and Teflon-coated stir bars.

REAGENTS

1. 1000 ppm fluoride standard – RICCA fluoride standard catalog # 3173-32.
2. HACH 1.00 ppm fluoride standard solution catalog # 291-53.
3. De-ionized water.
4. Total Ionic Strength Adjustment Buffer (TISAB II).

PROCEDURE

1. Preparation of standards.

Fill fluoride-specific electrode with Optimum Results "A" solution ≈ ½ hour before calibration.

Note: All standards are prepared fresh

Standard Stock solutions:

100 ppm fluoride standard solution: pipet 50.0 ml of 1000 ppm fluoride standard into a 500 ml volumetric flask and dilute with de-ionized water to 500 ml.

10 ppm fluoride standard solution: pipet 50.0 ml of 100 ppm fluoride solution into a 500 ml volumetric flask and dilute with de-ionized water to 500 ml.

Calibration Standard solutions:

0.5 ppm standard: pipet 5.0 ml of 10 ppm fluoride standard into a 100 ml volumetric flask and dilute with de-ionized water to 100 ml.

1.0 ppm standard: pipet 1.0 ml of 100 ppm fluoride standard into a 100 ml volumetric flask and dilute with de-ionized water to 100 ml.

3.0 ppm standard: pipet 3.0 ml of 100 ppm fluoride standard into a 100 ml volumetric flask and dilute with de-ionized water to 100 ml.

5.0 ppm standard: pipet 5.0 ml of 100 ppm fluoride standard into a 100 ml volumetric flask and dilute with de-ionized water to 100 ml.

Pipet 50 ml of each calibration standard into separate 150 ml nalgene beakers. Add 50 ml TISAB II to each beaker and use a small Teflon-coated magnet and stir plate (lowest achievable speed) to mix thoroughly.

2. Meter calibration

a. Press MODE until "con" is displayed.
b. Press CALIBRATE (use channel 1).
c. Enter # of standards (4), press YES.
d. Raise electrode out of the standby solution and rinse with de-ionized water; blot the electrode casing dry with a Kim Wipe (DO NOT touch or rub the electrode!).
e. Place electrode into first standard (0.5 ppm F); wait for "ENTER VALUE" to be displayed, enter "0.5", press YES.
f. Remove electrode from standard, rinse with de-ionized water, and blot dry.
g. Repeat steps e. and f. above for each subsequent standard: 1.0, 3.0, and 5.0 ppm.
h. After the 5.0 ppm standard has been entered, the meter will display a curve slope value of the four standards. The slope value must be 54-60 mV (displayed as a negative -#).

The meter will enter MEASURE MODE after calibration.

3. QC sample
Pipet 50.0 ml HACH 1.00 ppm standard solution into a 150 ml nalgene beaker. Add 50 ml TISAB. Mix with Teflon-coated stir bar on stir plate at slowest achievable speed (same as stds.). Rinse electrode with de-ionized water, blot dry, and lower into prepared QC sample. Wait for "READY" to be displayed on meter. Record concentration value in ppm F. Must be 1.00 ± 0.05 ppm F. Assay the QC sample before analyzing samples.

4. Sample preparation

i. Pipet 50 ml sample into a 150 ml nalgene beaker. Add 50 ml TISAB. Mix with Teflon-coated stir bar on stir plate at slowest achievable speed (same as stds.).
ii. Rinse electrode with de-ionized water, blot dry, and lower into prepared sample.
iii. Wait for "READY" to be displayed on meter. Record concentration value in ppm F.
iv. Repeat steps i. – iii. above for additional samples.
v. After all samples are analyzed, clean up all the pipets, beakers, flasks, and put the ISE back into the standby solution in STANDBY MODE.

Specific Ion Electrode Method for Fluoride:

Analytical Method: C-109-1
(100-9000 ppm) Specific Ion Electrode

Application: Wet process Phosphoric Acid, Solvex organic, Product Phosphoric Acid, Raffinates.

Based on: C.R. Edmond, Analytical Chemistry, 41; pg. 1327-28 (August 1969) Analytical Method, C-109-g, Memoranda R. D. Gibilisco and A. A. Zaleski to L. A. Shaver, 1/20/77; 2/2/77; 4/18/77; 6/9/77

Principle: The fluoride content is determined directly in the presence of sodium citrate with the fluoride specific ion electrode. The citrate ion prevents the formation of aluminum and/or iron fluoride complexes.

Scope: This method is applicable to Solvex liquors, phosphoric acid, raffinates.

Reagents:

Sodium Citrate Solution : Dissolve 294 grams of Sodium Citrate dihydrate in about 1800 ml of distilled water. Adjust pH to 6.5 with 5N sulfuric acid (H_2SO_4). Transfer to a 2 liter volumetric flask and dilute to volume with distilled water.

1000 ppm Standard Fluoride Solution: Weigh accurately in a polyethylene weigh boat 2.21 grams of NaF, (Baker A.R. 3688). Transfer quantitatively to a one liter volumetric flask and dilute to volume with distilled water. Store in polyethylene bottle.

100 ppm Standard Fluoride Solution: Pipette 100 ml of the 1000 ppm Standard Fluoride Solution into a one liter volumetric flask and dilute to volume with distilled water.

10 ppm Standard Fluoride Solution: Pipette 100 ml of the 100 ppm standard fluoride Solution into a one liter volumetric flask and dilute to volume with distilled water.

1 ppm Standard Fluoride Solution: Pipette 10 ml of the 10 ppm Standard fluoride solution into 100 ml volumetric flask. Dilute to volume with distilled.
(NOTE: 1 ppm Fluoride standard must be prepared daily)

5N Sulfuric Acid: Add carefully 140 ml of concentrated sulfuric acid (H_2SO_4), to 600 ml distilled water (DANGER, EXOTHERM) Cool, transfer to a 1 liter volumetric flask and dilute to volume with distilled water.

Apparatus:

Corning Model 101 Digital Electrometer, Orion 801 A or Equivalent (Fisher # 13-260-46)
SN# 1254003
Orion Fluoride ion activity electrode, model 94-9, or equivalent (Fisher # 13-620-523)
SN# 1256013
Orion Sleeve type reference electrode (90-01) or equivalent. (Filling solution is 4N KCl saturated with Ag + ions)
Magnetic Stirrer, external resistors, Teflon coated stirring bar, 250 ml glass beakers, watch glasses, 100 ml plastic or Teflon beakers.

Standardization
& Calibration:

1. Add 25 ml of 100 ppm F std solution and 25 ml of sodium citrate solution to a 100 ml beaker.
2. Immerse electrodes into moderately stirred solution and record millivolt reading.
3. Rinse electrodes with distilled water and dry using absorbent tissue paper.
4. Repeat Steps 1-3 for the 10 and 1 ppm standards.
5. Plot on semi-logarithmic graph paper or use the curve fit program on the computer. (ppm F on the logarithmic scale; millivolts on the linear scale: ignore the 1:1 dilution by the citrate buffer solution)

The millivolt reading difference between 100 and 10 ppm F standard should be approximately 59 millivolts. If the deviation is more than ± 15% Check meter, electrodes and/or standards.

Procedure:

1. Weigh into a 100 or 250 ml beaker approximately 1.0000 gram of sample to the nearest milligram.
2. Add 25 ml distilled water. If the sample is an organic add 1 ml of 1:1 ammonium hydroxide.
3. Cover and heat to beginning of boil, let simmer, and cool.
4. A.) If sample is a product acid, add 25 ml of citrate buffer and adjust pH to 6 with 1:1 ammonium hydroxide.
   B.) If sample is a green feed acid or raffinate, transfer to a one liter volumetric flask, pipette a 10 ml aliquot into a 100 ml plastic or Teflon beaker, add 25 ml of citrate buffer and adjust pH to 6 with 1:1 ammonium hydroxide.
   C.) If sample is an organic, add 25 ml citrate buffer and adjust pH to 6 with 5N Sulfuric Acid.
5. Immerse electrode into the moderately stirred solution
6. Record millivolt reading.
7. Obtain fluoride concentration from standard curve set up in the curve fit program on the computer.

Calculation:

$$\frac{\text{Found F from standard curve} * \text{aliquot (10)} * 25}{\text{Sample Wt.} * \text{Volume (1000)}}$$

OR

$$\frac{\text{Found F from Std Curve} * 25 * 100}{\text{Sample Wt as Ex (9820 not 0.9820)}}$$

NOTE: Dry Product & pond water sample you need to add 5 ml of HCL and boil for 5 to 7 minutes. Or refer to other Fluoride method by Specific Ion Electrode in Phosphate based materials.

*** Most of our samples fall under #4B; the pH is normally around 6.0, so there shouldn't be a need to adjust the pH with the 1:1 ammonium hydroxide, but always check the pH to make sure.**

PURPOSE

To determine the pH of a sample.

SCOPE

pH is a value taken to represent the acidity or alkalinity of an aqueous solution; it is defined as the logarithm of the reciprocal of the hydrogen-ion concentration of a solution.

ANALYSIS TIME

5 minutes.

THEORY

pH is defined as the logarithm of the reciprocal of the Hydrogen-ion concentration of a solution:

$$pH = \ln \frac{1}{[H^+]}$$

Pure water is the standard used in arriving at this value. Under ordinary conditions water molecules dissociate in ions H^+ and OH^-, with recombination at such a rate that with very pure water at 22°C there is a concentration of oppositely charged ions of 1/10,000,000 or 10^{-7}, mole per liter. Strong acids give solutions of pH 1 to 3, while solutions of weak acids have a pH of about 6. Strong bases give solutions of pH 12 or 13, while weak bases give solutions of pH about 8. As the pH scale is logarithmic, the intervals are exponential, and thus represent far greater differences in concentration than the values themselves seem to indicate.

SAFETY

Normal laboratory personal protective equipment (PPE) is required

APPARATUS

Bench top pH/ISE meter
pH electrode
Temperature probe
Stir plate
Stir bar

REAGENTS

Buffer solutions pH 4, 7, 10 are the most commonly used. REG-001 purchased at these concentrations.

SAMPLING

A representative sample is obtained.

CALIBRATION

A three buffer calibration is recommended for precise measurement.

1. Ensure that all buffers are at the same temperature. If samples are at varying temperatures, temperature compensation is recommended.

2. Select 3 buffers that bracket the expected sample pH. The first should be near the electrodes isopotential point (pH 7) and the second near the expected sample pH (e.g., pH 4 and/or pH 10).

3. Rinse the electrode first with distilled water and then with first (pH 7) buffer.

4. Place the electrode in the first (pH 7) buffer. Wait for a stable display. Set the meter to the pH value of the buffer at its measured temperature.

5. Rinse the electrode first with distilled water and then with the second buffer.

6. Place the electrode in the second buffer and repeat steps #4 and #5. Continue until all 3 buffer solutions have been entered and pH meter/electrode is calibrated.

7. If all steps are performed correctly, proceed to the pH measurement procedure.

PROCEDURE

1. Calibrate the electrode as described in the previous section.
2. Rinse the electrode with distilled water and then with sample.
3. Place the electrode in the sample. When the display is stable, record sample pH.
4. Refer to the pH meter instruction manual for further information on specific calibration and set up for the make and model being used.

CLEANUP

Clean work area. Make sure electrode is rinsed and stored properly. Turn pH meter to the standby mode when not in use.

CALCULATIONS

N/A

PRECISION/ LIMITS

REPORTING

pH 2 significant figures

REFERENCES

ROSS pH Electrodes instruction manual - Orion

FILE

M:\My Documents\Lab Methods\pH determination PRO-XX-029

PURPOSE

To determine the pH of a sample.

SCOPE

pH is a value taken to represent the acidity or alkalinity of an aqueous solution; it is defined as the logarithm of the reciprocal of the hydrogen-ion concentration of a solution.

ANALYSIS TIME

5 minutes.

THEORY

pH is defined as the logarithm of the reciprocal of the Hydrogen-ion concentration of a solution:

$$pH = \ln \frac{1}{[H^+]}$$

Pure water is the standard used in arriving at this value. Under ordinary conditions water molecules dissociate in ions H^+ and OH^-, with recombination at such a rate that with very pure water at 22°C there is a concentration of oppositely charged ions of 1/10,000,000 or 10^{-7}, mole per liter. Strong acids give solutions of pH 1 to 3, while solutions of weak acids have a pH of about 6. Strong bases give solutions of pH 12 or 13, while weak bases give solutions of pH about 8. As the pH scale is logarithmic, the intervals are exponential, and thus represent far greater differences in concentration than the values themselves seem to indicate.

SAFETY

Normal laboratory personal protective equipment (PPE) is required

APPARATUS

Bench top pH/ISE meter
pH electrode
Temperature probe
Stir plate
Stir bar

REAGENTS

Buffer solutions pH 4, 7, 10 are the most commonly used. REG-001 purchased at these concentrations.

SAMPLING

A representative sample is obtained.

CALIBRATION

A three buffer calibration is recommended for precise measurement.

1. Ensure that all buffers are at the same temperature. If samples are at varying temperatures, temperature compensation is recommended.

2. Select 3 buffers that bracket the expected sample pH. The first should be near the electrodes isopotential point (pH 7) and the second near the expected sample pH (e.g., pH 4 and/or pH 10).

3. Rinse the electrode first with distilled water and then with first (pH 7) buffer.

4. Place the electrode in the first (pH 7) buffer. Wait for a stable display. Set the meter to the pH value of the buffer at its measured temperature.

5. Rinse the electrode first with distilled water and then with the second buffer.

6. Place the electrode in the second buffer and repeat steps #4 and #5. Continue until all 3 buffer solutions have been entered and pH meter/electrode is calibrated.

7. If all steps are performed correctly, proceed to the pH measurement procedure.

PROCEDURE

1. Calibrate the electrode as described in the previous section.

2. Rinse the electrode with distilled water and then with sample.

3. Place the electrode in the sample. When the display is stable, record sample pH.

4. Refer to the pH meter instruction manual for further information on specific calibration and set up for the make and model being used.

CLEANUP

Clean work area. Make sure electrode is rinsed and stored properly. Turn pH meter to the standby mode when not in use.

CALCULATIONS

N/A

PRECISION/ LIMITS

REPORTING

pH 2 significant figures

REFERENCES

ROSS pH Electrodes instruction manual - Orion

FILE

M:\My Documents\Lab Methods\pH determination PRO-XX-029

Kestner Process Condensate

Go to Front

Date	Time	Sample	F1	Free P2O5	% H3PO4	P2O5	APHA Color	Cl (ppm)	F (ppm)	pH	TOC (ppm)
01/01/02	0200	Kestner Process Condensate	0.25	0.27	0.5	0.36				1.750	560
01/03/02	1000	Kestner Process Condensate	0.27	0.12	0.23	0.17				2.007	317
01/03/02	1800	Kestner Process Condensate	0.07	0.30	0.45	0.33				1.740	514
01/03/02	0200	Kestner Process Condensate	0.22	0.34	0.59	0.43				1.480	610
01/04/02	1000	Kestner Process Condensate	0.29	0.29	0.56	0.41				1.460	569
01/04/02	1800	Kestner Process Condensate	0.35	0.23	0.5	0.36				1.580	574
01/05/02	0200	Kestner Process Condensate	0.20	0.28	0.49	0.35				1.450	406
01/08/02	0200	Kestner Process Condensate	0.42	0.35	0.83	0.6				1.578	530
01/09/02	1000	Kestner Process Condensate	0.30	0.45	0.89	0.64				1.610	614
01/09/02	1800	Kestner Process Condensate	0.40	0.42	0.98	0.71				1.600	622
01/09/02	0200	Kestner Process Condensate	0.33	0.44	0.92	0.67				1.386	801
01/10/02	1000	Kestner Process Condensate	0.44	0.46	1.13	0.82				1.620	610
01/10/02	1800	Kestner Process Condensate	0.44	0.48	1.18	0.85				1.560	500
01/10/02	0200	Kestner Process Condensate	0.50	0.46	1.28	0.93				1.330	584
01/12/02	1000	Kestner Process Condensate	0.46	0.47	1.2	0.87				1.410	544
01/12/02	1800	Kestner Process Condensate	0.46	0.63	1.62	1.17				1.110	601
01/12/02	0200	Kestner Process Condensate	0.41	0.66	1.56	1.13				1.060	567
01/13/02	1000	Kestner Process Condensate	0.48	0.72	1.91	1.39				1.260	399
01/13/02	1800	Kestner Process Condensate	0.49	0.77	2.08	1.51				1.250	340
01/13/02	0200	Kestner Process Condensate	0.48	0.78	2.08	1.51				0.740	535
01/14/02	1000	Kestner Process Condensate	0.39	0.72	1.63	1.18				1.340	520
01/14/02	1800	Kestner Process Condensate	0.42	0.74	1.76	1.28				1.380	528
01/14/02	0200	Kestner Process Condensate	0.41	0.89	2.06	1.5				1.260	522
01/15/02	1400	Kestner Process Condensate	0.42	0.83	1.97	1.43				1.520	550
01/15/02	1800	Kestner Process Condensate	0.80	0.74	5.21	3.77				1.480	578
01/15/02	0200	Kestner Process Condensate	0.41	0.72	1.69	1.23				1.290	541
01/16/02	1800	Kestner Process Condensate	0.40	0.69	1.59	1.15				1.390	516
01/16/02	0200	Kestner Process Condensate	0.49	0.66	1.79	1.3				1.325	530
01/17/02	1000	Kestner Process Condensate	0.46	0.82	2.09	1.51				1.437	562
01/17/02	1800	Kestner Process Condensate	0.47	0.78	2.04	1.48				1.130	518
01/17/02	0200	Kestner Process Condensate	0.47	0.77	2.01	1.46				1.260	539
01/18/02	1000	Kestner Process Condensate	0.45	0.73	1.85	1.34				1.200	536
01/18/02	1800	Kestner Process Condensate	0.46	0.79	2.01	1.46				0.900	543
01/18/02	0200	Kestner Process Condensate	0.41	0.79	1.85	1.34				0.920	512
01/19/02	1000	Kestner Process Condensate	0.48	0.74	1.99	1.44				1.460	531
01/19/02	1800	Kestner Process Condensate	0.45	0.71	1.77	1.28				1.260	463
01/19/02	0200	Kestner Process Condensate	0.24	0.75	1.37	0.99				1.420	417
01/20/02	1800	Kestner Process Condensate									418
01/20/02	0200	Kestner Process Condensate	0.43	0.5	1.23	0.89				1.380	462
01/21/02	1000	Kestner Process Condensate	0.46	0.45	1.16	0.84				1.510	458
01/21/02	0200	Kestner Process Condensate	0.44	0.47	1.17	0.85				1.430	485
01/22/02	1000	Kestner Process Condensate	0.33	0.49	1.01	0.73				1.680	423
01/22/02	1800	Kestner Process Condensate	0.35	0.58	1.23	0.89				1.480	433
01/22/02	0200	Kestner Process Condensate	0.46	0.57	1.45	1.05				1.250	432
01/23/02	1000	Kestner Process Condensate	0.47	0.58	1.50	1.09				1.680	467
01/23/02	1800	Kestner Process Condensate	0.43	0.60	1.45	1.05				1.350	433
01/23/02	0200	Kestner Process Condensate	0.47	0.59	1.53	1.11				1.300	411
01/24/02	1000	Kestner Process Condensate	0.46	0.5	1.28	0.93				1.530	420
01/24/02	1800	Kestner Process Condensate	0.44	0.51	1.27	0.92				1.460	287
01/24/02	0200	Kestner Process Condensate	0.38	0.53	1.17	0.85				1.480	464
01/25/02	1000	Kestner Process Condensate	0.47	0.49	1.28	0.92				1.278	439
01/25/02	0200	Kestner Process Condensate	0.44	0.53	1.31	0.95				1.260	400
01/26/02	1000	Kestner Process Condensate	0.37	0.56	1.24	0.90				1.350	434
01/26/02	1800	Kestner Process Condensate	0.37	0.52	1.15	0.84				1.322	415
01/26/02	0200	Kestner Process Condensate	0.41	0.51	1.17	0.85				1.406	461
01/27/02	1000	Kestner Process Condensate	0.36	0.49	1.06	0.77				1.270	410
01/27/02	1800	Kestner Process Condensate	0.45	0.44	1.1	0.8				1.320	410
01/27/02	0200	Kestner Process Condensate	0.38	0.45	0.99	0.72				1.190	435
01/28/02	1000	Kestner Process Condensate	0.41	0.47	1.1	0.8				1.400	501
01/28/02	1800	Kestner Process Condensate	0.40	0.45	1.04	0.75				1.463	307
01/28/02	0200	Kestner Process Condensate	0.45	0.46	1.17	0.85				1.320	486
01/31/02	0200	Kestner Process Condensate	0.37	0.29	0.63	0.45			1950	1.560	413

PCTS

Only run Isopar and TBP if requested

Go to F

Date	Time	Sample ID	pH	TOC (ppm)	Isopar (ppm)	TBP (ppm)	F (ppm)	Si ppm
01/01/02	0200	PCTS NF-2 Permeate	1.73	491				
01/03/02	1800	PCTS NF-2 Permeate	1.75	457				
01/03/02	0200	PCTS NF-2 Permeate	1.49	555				
01/04/02	1000	PCTS NF-2 Permeate	1.48	585				
01/05/02	0200	PCTS NF-2 Permeate	1.62	357				
01/06/02	0200	PCTS NF-2 Permeate	1.71					
01/08/02	0200	PCTS NF-2 Permeate	1.635	602				
01/09/02	1000	PCTS NF-2 Permeate	1.61	465				
01/09/02	0200	PCTS NF-2 Permeate	1.34	644				
01/10/02	1000	PCTS NF-2 Permeate	1.72	634				
01/10/02	1800	PCTS NF-2 Permeate	1.61	536				
01/10/02	0200	PCTS NF-2 Permeate	1.28					
011/12/02	1000	PCTS NF-2 Permeate	1.43	510				
01/12/02	0200	PCTS NF-2 Permeate	1.1	568				
01/13/02	1000	PCTS NF-2 Permeate	1.26	536				
01/13/02	1800	PCTS NF-2 Permeate	1.27	535				
01/13/02	0200	PCTS NF-2 Permeate	0.79	525				
01/14/02	1800	PCTS NF-2 Permeate	1.39	523				
01/14/02	0200	PCTS NF-2 Permeate	1.24	521				
01/15/02	1000	PCTS NF-2 Permeate	1.43	528				
01/15/02	1800	PCTS NF-2 Permeate	1.41	565				
01/16/02	1800	PCTS NF-2 Permeate	1.36	510				
01/16/02	0200	PCTS NF-2 Permeate	1.35	530				
01/17/02	1000	PCTS NF-2 Permeate	1.46	522				
01/17/02	1800	PCTS NF-2 Permeate	1.17	526				
01/18/02	1000	PCTS NF-2 Permeate	1.28	503				
01/18/02	1800	PCTS NF-2 Permeate	0.89	522				
01/18/02	0200	PCTS NF-2 Permeate	0.89	513				
01/19/02	1000	PCTS NF-2 Permeate	1.48	528				
01/19/02	1800	PCTS NF-2 Permeate	1.30	452				
01/19/02	0200	PCTS NF-2 Permeate	1.41	470				
01/20/02	0200	PCTS NF-2 Permeate	1.37	410				
01/22/02	1000	PCTS NF-2 Permeate	1.67	418				
01/22/02	1800	PCTS NF-2 Permeate	1.47	416				
01/22/02	0200	PCTS NF-2 Permeate	1.25	418				
01/23/02	1000	PCTS NF-2 Permeate	1.66	429				
01/23/02	1800	PCTS NF-2 Permeate	1.41	433				
01/23/02	0200	PCTS NF-2 Permeate	1.331	410				
01/24/02	1000	PCTS NF-2 Permeate	1.49	414				
01/24/02	1800	PCTS NF-2 Permeate	1.41	444				
01/24/02	0200	PCTS NF-2 Permeate	1.43	448				
01/25/02	1000	PCTS NF-2 Permeate	1.3	425				
01/25/02	0200	PCTS NF-2 Permeate	1.26	412				
01/26/02	1000	PCTS NF-2 Permeate	1.39	394				
01/26/02	0200	PCTS NF-2 Permeate	1.42	443				
01/27/02	1000	PCTS NF-2 Permeate	1.35	386				
01/27/02	1800	PCTS NF-2 Permeate	1.40	385				
01/27/02	0200	PCTS NF-2 Permeate	1.335	389				
01/28/02	1000	PCTS NF-2 Permeate	1.28	371				
01/28/02	1800	PCTS NF-2 Permeate	1.44	372				
01/28/02	0200	PCTS NF-2 Permeate	1.29	406				
01/31/02	0200	PCTS NF-2 Permeate	1.52	354				

Oily Water Sump

Go to Front

Date	Time	Sample ID	pH	TOC (ppm)	P_2O_5	Fe_2O_3	F (ppm)
01/01/02	0200	NF2 Permeate	1.98	356			
01/03/02	0200	NF2 Permeate	1.65	333			
01/05/02	1800	OWS	1.78	387			
01/10/02	1000	OWS	2.45	532			
01/14/02	1000	OWS	2.25	390			
01/14/02	1800	OWS	2.81	464			
01/15/02	1800	OWS	1.77	410			
01/15/02	0200	OWS Special		134	3.73		
01/17/02	1000	OWS	2.65	436			
01/17/02	0200	OWS					
01/18/02	1800	OWS	1.62	377			
01/19/02	1000	OWS	2.48	446			
01/19/02	1800	OWS	2.06	361			
01/20/02	1800	OWS		506			
01/21/02	0200	OWS	1.85	380			
01/22/02	1800	OWS	2.18	388			
01/23/02	1800	OWS	2.24	363			
01/24/02	1800	OWS	2.31	399			

Kestner Process Condensate

Go to Front

Date	Time	Sample	F1	Free P2O5	% H3PO4	P2O5	APHA Color	Cl (ppm)	F (ppm)	pH
02/01/02	1800	Kestner Process Condensate	0.4	0.28	0.65	0.47			1405	1.61
02/01/02	0200	Kestner Process Condensate	0.36	0.27	0.58	0.42			1522.6	1.60
02/02/02	1000	Kestner Process Condensate	0.31	0.27	0.53	0.39				1.59
02/02/02	1800	Kestner Process Condensate	0.41	0.21	0.50	0.36				1.57
02/02/02	0200	Kestner Process Condensate	0.23	0.22	0.40	0.29				1.66
02/03/02	1000	Kestner Process Condensate	0.33	0.28	0.58	0.42				1.78
02/04/02	1800	Kestner Process Condensate	-0.05	0.25	0.34	0.24				1.55
02/04/02	0200	Kestner Process Condensate	0.43	0.38	0.92	0.67				1.31
02/05/02	1130	Kestner Process Condensate	0.45	0.43	1.07	0.78				1.56
02/05/02	1800	Kestner Process Condensate	0.41	0.43	1.01	0.73				1.30
02/05/02	0200	Kestner Process Condensate	0.34	0.48	1.00	0.73				1.38
02/06/02	1000	Kestner Process Condensate	0.44	0.43	1.07	0.77				1.65
02/06/02	1800	Kestner Process Condensate	0.40	0.44	1.02	0.74				1.42
02/07/02	1800	Kestner Process Condensate	0.39	0.21	0.48	0.35				2.07
02/07/02	0200	Kestner Process Condensate	0.37	0.37	0.80	0.58				1.66
02/08/02	1000	Kestner Process Condensate	0.38	0.42	0.95	0.69				1.58
02/08/02	1800	Kestner Process Condensate	0.42	0.43	1.02	0.74				1.53
02/08/02	0200	Kestner Process Condensate	0.41	0.42	0.98	0.71				1.42
02/09/02	1000	Kestner Process Condensate	0.42	0.46	1.09	0.79				1.53
02/09/02	1800	Kestner Process Condensate	0.42	0.45	1.09	0.79				1.43
02/09/02	0200	Kestner Process Condensate	0.4	0.46	1.06	0.77				1.15
02/10/02	1000	Kestner Process Condensate	0.4	0.5	1.15	0.83				1.51
02/10/02	1800	Kestner Process Condensate	0.43	0.48	1.16	0.84				1.38
02/11/02	1000	Kestner Process Condensate	0.5	0.46	1.27	0.92				1.36
02/11/02	1800	Kestner Process Condensate	0.48	0.48	1.28	0.93				1.48
02/11/02	0200	Kestner Process Condensate	0.40	0.50	1.16	0.84				1.45
02/12/02	1000	Kestner Process Condensate	0.34	0.56	1.19	0.86				1.52
02/12/02	1800	Kestner Process Condensate	0.45	0.51	1.27	0.92				1.44
02/13/02	1000	Kestner Process Condensate	0.39	0.55	1.26	0.91				1.39
02/13/02	1800	Kestner Process Condensate	0.41	0.51	1.21	0.88				1.41
02/13/02	0200	Kestner Process Condensate	0.43	0.5	1.22	0.89				1.37
02/14/02	1000	Kestner Process Condensate	0.43	0.51	1.23	0.89				1.67
02/14/02	1800	Kestner Process Condensate	0.45	0.42	1.05	0.76				1.64
02/16/02	1000	Kestner Process Condensate	0.49	0.47	1.28	0.93				1.46
02/16/02	1800	Kestner Process Condensate	0.42	0.52	1.24	0.9				
02/17/02	1800	Kestner Process Condensate	0.39	0.53	1.19	0.87				1.32
02/17/02	0200	Kestner Process Condensate	0.45	0.49	1.23	0.89				1.37
02/18/02	1000	Kestner Process Condensate	0.44	0.43	1.07	0.77				1.48
02/19/02	1000	Kestner Process Condensate	0.42	0.44	1.05	0.76				1.49
02/19/02	1800	Kestner Process Condensate	0.34	0.49	1.02	0.74				1.43
02/19/02	0200	Kestner Process Condensate	0.38	0.49	1.09	0.79				1.53
02/20/02	1000	Kestner Process Condensate	0.41	0.52	1.2	0.87				1.46
02/21/02	1100	Kestner Process Condensate	0.43	0.53	1.27	0.92				1.63
02/21/02	1800	Kestner Process Condensate	0.42	0.53	1.27	0.92				1.45
02/21/02	0200	Kestner Process Condensate	0.47	0.45	1.18	0.86				1.53
02/23/02	1800	Kestner Process Condensate	0.47	0.51	1.32	0.96				1.44
02/23/02	0200	Kestner Process Condensate	0.44	0.46	1.12	0.81				1.41
02/24/02	1000	Kestner Process Condensate	0.44	0.55	1.35	0.98				1.63
02/24/02	0200	Kestner Process Condensate	0.4	0.34	0.78	0.57				1.61
		Process Condensate 1								
		Process Condensate 2								
		Process Condensate 3								
		Process Condensate 4								
02/26/02	0200	Kestner Process Condensate	0.39	0.29	0.65	0.47				1.57
02/27/02	1000	Kestner Process Condensate	0.38	0.39	0.88	0.64				1.46
02/27/02	1800	Kestner Process Condensate	0.34	0.39	0.8	0.58				1.52
02/27/02	0200	Kestner Process Condensate	0.38	0.36	0.81	0.59				1.48
02/28/02	1000	Kestner Process Condensate	0.37	0.39	0.86	0.62				1.61
02/28/025	1800	Kestner Process Condensate	0.36	0.40	0.85	0.61				1.38
02/28/02	0200	Kestner Process Condensate	0.34	0.27	56	0.41				1.61

PCTS

Only run Isop

Date	Time	Sample ID	pH	TOC (ppm)
02/01/02	1800	PCTS NF-2 Permeate	1.648	372
02/02/02	0200	PCTS NF-2 Permeate	1.625	376
02/02/02	1000	PCTS NF-2 Permeate	1.566	390
02/02/02	1800	PCTS NF-2 Permeate	1.554	278
02/02/02	0200	PCTS NF-2 Permeate	1.743	317
02/03/02	1000	PCTS NF-2 Permeate	1.79	128
02/04/02	0200	PCTS NF-2 Permeate	1.16	427
02/05/02	1130	PCTS NF-2 Permeate	1.581	422
02/05/02	1800	PCTS NF-2 Permeate	1.270	439
02/05/02	0200	PCTS NF-2 Permeate	1.320	434
02/07/02	0200	PCTS NF-2 Permeate	1.752	297
02/08/02	0200	PCTS NF-2 Permeate	1.427	120
02/09/02	1000	PCTS NF-2 Permeate	1.61	390
02/09/02	1800	PCTS NF-2 Permeate	1.47	241
02/09/02	0200	PCTS NF-2 Permeate	1.17	110
02/10/02	1000	PCTS NF-2 Permeate	1.52	346
02/10/02	1800	PCTS NF-2 Permeate	1.38	260
02/11/02	1800	PCTS NF-2 Permeate	1.54	270
02/11/02	0200	PCTS NF-2 Permeate	1.43	280
02/12/02	1000	PCTS NF-2 Permeate	1.48	408
02/12/02	1800	PCTS NF-2 Permeate	1.49	192
02/13/02	0200	PCTS NF-2 Permeate	1.34	
02/14/02	1800	PCTS NF-2 Permeate	1.59	333
02/14/02	0200	PCTS NF-2 Permeate	1.57	385
02/16/02	1000	PCTS NF-2 Permeate	1.45	342
02/17/02	1800	PCTS NF-2 Permeate	1.41	359
02/17/02	0200	PCTS NF-2 Permeate	1.35	353
02/18/02	1000	PCTS NF-2 Permeate	1.49	382
02/19/02	1000	PCTS NF-2 Permeate	1.51	362
02/19/02	1800	PCTS NF-2 Permeate	1.47	434
02/19/02	0200	PCTS NF-2 Permeate	1.59	437
02/20/02	1000	PCTS NF-2 Permeate	1.49	401
02/21/02	1800	PCTS NF-2 Permeate	1.46	445
02/21/02	0200	PCTS NF-2 Permeate	1.49	386
02/23/02	0200	PCTS NF-2 Permeate	1.43	407
02/24/02	1000	PCTS NF-2 Permeate	1.63	
02/24/02	0200	PCTS NF-2 Permeate	1.67	339
02/26/02	0200	PCTS NF-2 Permeate	1.63	339
02/27/02	1000	PCTS NF-2 Permeate	1.50	380
02/27/02	1800	PCTS NF-2 Permeate	1.53	357
02/27/02	0200	PCTS NF-2 Permeate	1.47	351
02/28/02	1000	PCTS NF-2 Permeate	1.61	356
02/28/02	1800	PCTS NF-2 Permeate	1.39	345
02/28/02	Special	PCTS NF-1B Feed		
02/28/02	Special	PCTS NF-1B Permeate		

Oily Water Sump

Go to Front

Date	Time	Sample ID	pH	TOC (ppm)	Free P_2O_5 %wt	F (ppm)
02/01/02	1800	NF2 Permeate	2.415	333		
02/02/02	1800	NF2 Permeate	2.220	250		
02/02/02	0200	NF2 Permeate	2.071	346		
02/03/02	1000	NF2 Permeate	2.800	267		
02/03/02	0200	NF2 Permeate	1.800	312		
02/05/02	1800	NF2 Permeate	2.300	322		
02/05/02	0200	NF2 Permeate	2.540	272		
02/06/02	1800	NF2 Permeate	2.078	441		
02/08/02	0200	NF2 Permeate	2.082	118		
02/10/02	1800	NF2 Permeate	2.23	257		
02/12/02	1000	NF2 Permeate	1.97	306		
02/12/02	1800	NF2 Permeate	2.03	192		
02/14/02	1800	NF2 Permeate	2.06	197		
02/18/02	Special	NF1 Feed	2.27	229	0.16	515
02/18/02	Special	NF1 Permeate	2.25	42.3	0.09	140
02/18/02	Special	NF1 Concentrate	2.35	259	0.20	740
02/18/02	Special	NF2 Feed	2.37	83.7	0.08	137
02/18/02	Special	NF2 Permeate	2.37	152	0.09	139
02/18/02	Special	NF2 Concentrate	2.42	114	0.09	134
02/18/02	Special	UF Feed	2.49	223	0.15	460
02/18/02	Special	UF Permeate	2.42	211	0.16	479
02/18/02	Special	UF Concentrate	2.45	227	0.17	472
02/20/02	Special	NF1 Feed				
02/20/02	Special	NF1 Permeate				
02/20/02	Special	NF2 Feed				
02/20/02	Special	NF2 Permeate				
02/20/02	1000	NF2 Permeate	2.02	108		
02/22/02	1800	NF2 Permeate	2.29	69.3		
02/23/02	1000	NF2 Permeate	2.03	64		
02/23/02	1800	NF2 Permeate	2.02	113		
02/23/02	0200	NF2 Permeate	1.82	75		
02/24/02	1800	NF2 Permeate	2.08	77		
	Special	NF1 Feed				
	Special	NF1 Permeate				
	Special	NF2 Feed				
	Special	NF2 Permeate				
02/27/02	1800		1.9	74		

Kestner Process Condensate

Go to Front

Date	Time	Sample	F1	Free P2O5 %	H3PO4	P2O5	APHA Color	Cl (ppm)	F (ppm)	pH	TOC (ppm)
03/01/02	1800	Kestner Process Condensate	0.55	0.07	0.21	0.15				2.237	144
	0200	Kestner Process Condensate	0.47	0.34	0.89	0.65				1.58	336
03/15/02	1000	Kestner Process Condensate	0.33	0.31	0.64	0.46				1.66	384
03/15/02	1800	Kestner Process Condensate	0.39	0.32	0.72	0.52				1.6	321
03/15/02	0200	Kestner Process Condensate	0.44	0.40	1.00	0.72				1.44	351
03/17/02	1000	Kestner Process Condensate	0.46	0.54	1.39	1.01				1.15	627
03/17/02	1800	Kestner Process Condensate	0.44	0.50	1.24	0.90				1.13	459
03/17/02	0200	Kestner Process Condensate	0.32	0.61	1.24	0.90				1.26	389
03/18/02	0200	Kestner Process Condensate	0.48	0.50	1.34	0.97				1.4	387
03/19/02	1000	Kestner Process Condensate	0.42	0.53	1.28	0.92				1.24	422
03/19/02	0200	Kestner Process Condensate	0.45	0.54	1.35	0.98				1.19	441
03/20/02	1000	Kestner Process Condensate	0.47	0.55	1.45	1.05				1.19	441
03/21/02	1000	Kestner Process Condensate	0.45	0.52	1.31	0.95				1.28	532
03/21/02	1800	Kestner Process Condensate	0.44	0.57	1.40	1.01				1.32	498
03/21/02	0200	Kestner Process Condensate	0.32	0.43	0.87	0.63				1.47	360
03/22/02	1000	Kestner Process Condensate	0.43	0.34	0.82	0.60				1.52	391
03/22/02	1800	Kestner Process Condensate	0.42	0.36	0.86	0.62				1.566	486
03/22/02	0200	Kestner Process Condensate	0.41	0.37	0.87	0.63				1.61	512
03/23/02	1000	Kestner Process Condensate	0.40	0.38	0.88	0.64				1.51	532
03/23/02	1800	Kestner Process Condensate	0.43	0.40	0.95	0.69				1.49	495
03/23/02	0200	Kestner Process Condensate	0.37	0.41	0.90	0.66				1.509	508
03/24/02	1000	Kestner Process Condensate	0.46	0.36	0.93	0.67				1.58	470
03/24/02	1800	Kestner Process Condensate	0.48	0.35	0.94	0.68				1.57	583
03/24/02	0200	Kestner Process Condensate	0.34	0.38	0.80	0.58				1.556	575
03/25/02	1000	Kestner Process Condensate	0.37	0.35	0.76	0.55				1.555	
03/25/02	0200	Kestner Process Condensate	0.38	0.37	0.81	0.59				1.525	598
03/26/02	1000	Kestner Process Condensate	0.38	0.42	0.92	0.67				1.54	553
03/26/02	1800	Kestner Process Condensate	0.33	0.44	0.90	0.65				1.48	586
03/26/02	0200	Kestner Process Condensate	0.45	0.39	0.97	0.70				1.483	580
03/27/02	1000	Kestner Process Condensate	0.42	0.48	1.14	0.83				1.50	561
03/27/02	1800	Kestner Process Condensate	0.40	0.46	1.05	0.76				1.49	517
03/27/02	0200	Kestner Process Condensate	0.38	0.48	1.05	0.76				1.43	471
03/28/02	1000	Kestner Process Condensate	0.35	0.48	1.01	0.73				1.49	452
03/28/02	1800	Kestner Process Condensate	0.47	0.44	1.14	0.82				1.29	538
03/28/02	0200	Kestner Process Condensate	0.39	0.45	1.00	0.73				1.45	516
03/29/02	1000	Kestner Process Condensate	0.41	0.39	0.90	0.65				1.60	471
03/29/02	1800	Kestner Process Condensate	0.41	0.35	0.81	0.59				1.66	523
03/29/02	0200	Kestner Process Condensate	0.38	0.38	0.85	0.62				1.66	556
03/30/02	1000	Kestner Process Condensate	0.34	0.36	0.76	0.55				1.60	540
03/30/02	1800	Kestner Process Condensate	0.37	0.31	0.68	0.49				1.73	465
03/30/02	0200	Kestner Process Condensate	0.35	0.26	0.56	0.41				1.85	1084
03/31/02	1000	Kestner Process Condensate	0.42	0.24	0.57	0.41				1.65	609
03/31/02	1800	Kestner Process Condensate	0.4	0.26	0.59	0.43				1.609	631
03/31/02	0200	Kestner Process Condensate	0.29	0.29	0.56	0.41				1.645	607

Oily Water Sump

Go to Front

Date	Time	Sample ID	pH	TOC (ppm)
03/13/02	1800	NF2 Permeate	2.01	89
03/15/02	1000	NF2 Permeate	1.83	86
03/15/02	1800	NF2 Permeate	1.93	76
03/16/02	1800	NF2 Permeate	1.90	82
03/17/02	1800	NF2 Permeate	1.83	88
03/17/02	0200	NF2 Permeate	1.99	76
03/19/02	1000	NF2 Permeate	1.96	106
03/20/02	0200	NF2 Permeate	1.88	90
03/22/02	1800	NF2 Permeate	1.862	95
03/22/02	0200	NF2 Permeate	1.88	97
03/24/02	1800	NF2 Permeate	1.92	94
03/25/02	0200	NF2 Permeate	2.06	83
03/26/02	1000	NF2 Permeate	2.31	60
03/26/02	0200	NF2 Permeate	2.38	79
03/27/02	1000	NF2 Permeate	2.63	51
03/29/02	0200	NF2 Permeate	1.91	90
03/31/02	1000	NF2 Permeate	1.843	480

Oily Water Sump

Date	Time	Sample ID	pH
03/13/02	1800	NF2 Permeate	2.01
03/15/02	1000	NF2 Permeate	1.83
03/15/02	1800	NF2 Permeate	1.93
03/16/02	1800	NF2 Permeate	1.90
03/17/02	1800	NF2 Permeate	1.83
03/17/02	0200	NF2 Permeate	1.99
03/19/02	1000	NF2 Permeate	1.96
03/20/02	0200	NF2 Permeate	1.88
03/22/02	1800	NF2 Permeate	1.862
03/22/02	0200	NF2 Permeate	1.88
03/24/02	1800	NF2 Permeate	1.92
03/25/02	0200	NF2 Permeate	2.06
03/26/02	1000	NF2 Permeate	2.31
03/26/02	0200	NF2 Permeate	2.38
03/27/02	1000	NF2 Permeate	2.63
03/29/02	0200	NF2 Permeate	1.91
03/31/02	1000	NF2 Permeate	1.843

PCTS

Date	Time	Sample ID	pH
03/01/02	1800	PCTS NF-2 Permeate	2.414
03/01/02	0200	PCTS NF-2 Permeate	1.55
03/15/02	1000	PCTS NF-2 Permeate	1.63
03/15/02	1800	PCTS NF-2 Permeate	1.59
03/15/02	0200	PCTS NF-2 Permeate	1.46
03/16/02	1800	PCTS NF-2 Permeate	1.36
03/17/02	1000	PCTS NF-2 Permeate	1.15
03/17/02	1800	PCTS NF-2 Permeate	1.13
03/17/02	0200	PCTS NF-2 Permeate	1.24
03/19/02	1000	PCTS NF-2 Permeate	1.24
03/19/02	0200	PCTS NF-2 Permeate	1.18
03/20/02	1000	PCTS NF-2 Permeate	1.2
03/20/02	0200	PCTS NF-2 Permeate	1.27
03/21/02	0200	PCTS NF-2 Permeate	1.46
03/22/02	1000	PCTS NF-2 Permeate	1.49
03/22/02	1800	PCTS NF-2 Permeate	1.549
03/22/02	0200	PCTS NF-2 Permeate	1.54
03/23/02	1000	PCTS NF-2 Permeate	1.49
03/23/02	1800	PCTS NF-2 Permeate	1.51
03/23/02	0200	PCTS NF-2 Permeate	1.522
03/24/02	1000	PCTS NF-2 Permeate	1.53
03/24/02	1800	PCTS NF-2 Permeate	1.55
03/24/02	0200	PCTS NF-2 Permeate	1.54
03/25/02	1000	PCTS NF-2 Permeate	1.568
03/25/02	1800	PCTS NF-2 Permeate	1.641
03/25/02	0200	PCTS NF-2 Permeate	1.542
03/26/02	1000	PCTS NF-2 Permeate	1.500
03/26/02	1800	PCTS NF-2 Permeate	1.504
03/26/02	0200	PCTS NF-2 Permeate	1.551
03/27/02	1000	PCTS NF-2 Permeate	1.47
03/27/02	0200	PCTS NF-2 Permeate	1.43
03/28/02	1000	PCTS NF-2 Permeate	1.49
03/28/02	1800	PCTS NF-2 Permeate	1.36
03/28/02	0200	PCTS NF-2 Permeate	1.38
03/29/02	1000	PCTS NF-2 Permeate	1.53
03/29/02	1800	PCTS NF-2 Permeate	1.59
03/29/02	0200	PCTS NF-2 Permeate	1.52
03/30/02	1000	PCTS NF-2 Permeate	1.6
03/30/02	1800	PCTS NF-2 Permeate	1.70
03/30/02	0200	PCTS NF-2 Permeate	1.88
03/31/02	1000	PCTS NF-2 Permeate	1.667
03/31/02	1800	PCTS NF-2 Permeate	1.651
03/31/02	0200	PCTS NF-2 Permeate	1.635

Go to Front

Specials

DATE	TIME	SAMPLE ID	TBP	Isopar	TOC ppm	TBP:Isopar Ratio	pH	Radiometer F1	Free P2O5 %	H3PO4 %	P2O5	ICP % P2O5	% MgO	% Al2O3	% Fe2O3	% CaO	% H2SO4	% Si	F (ppm)
03/13/02		Kesiner Condensate					1.98	0.43	0.09	0.21	0.15	0.0071	0.015	ND		0.025	0.076	0.0228	677

Analysis

AGR_010149

Oily Water Sump

Date	Time	Sample ID	pH
04/04/02	0200	OWS	2.17
04/05/02	0200	OWS	1.86
04/06/02	1800	OWS	1.95
04/06/02	0200	OWS	1.79
04/07/02	1800	OWS	1.829
04/08/02	1800	OWS	1.91
04/08/02	0200	OWS	2.05
04/09/02	1800	OWS	2
04/09/02	0200	OWS	2.052
04/10/02	1000	OWS	2.07
04/10/02	1800	OWS	2.106
04/10/02	0200	OWS	2.069
04/19/02	0200	OWS	2.13
04/24/02	1000	OWS	2.17
04/24/02	1800	OWS	2.24
04/28/02	1800	OWS	1.86
04/30/02	1000	OWS	1.989

PCTS

O

Date	Time	Sample ID	pH
04/01/02	1000	PCTS NF-2 Permeate	1.59
04/01/02	1800	PCTS NF-2 Permeate	1.60
04/02/02	1000	PCTS NF-2 Permeate	1.62
04/02/02	1800	PCTS NF-2 Permeate	1.56
04/06/02	1000	PCTS NF-2 Permeate	1.59
04/06/02	1800	PCTS NF-2 Permeate	1.81
04/06/02	0200	PCTS NF-2 Permeate	1.63
04/07/02	1000	PCTS NF-2 Permeate	1.64
04/07/02	1800	PCTS NF-2 Permeate	1.56
04/07/02	0200	PCTS NF-2 Permeate	1.32
04/08/02	1000	PCTS NF-2 Permeate	1.46
04/08/02	1800	PCTS NF-2 Permeate	1.44
04/08/02	0200	PCTS NF-2 Permeate	1.43
04/09/02	1000	PCTS NF-2 Permeate	1.46
04/09/02	1800	PCTS NF-2 Permeate	1.49
04/09/02	0200	PCTS NF-2 Permeate	1.48
04/10/02	1000	PCTS NF-2 Permeate	1.48
04/10/02	0200	PCTS NF-2 Permeate	1.59
04/11/02	1000	PCTS NF-2 Permeate	1.42
04/11/02	1800	PCTS NF-2 Permeate	1.46
04/12/02	1000	PCTS NF-2 Permeate	1.69
04/12/02	1800	PCTS NF-2 Permeate	1.57
04/13/02	1000	PCTS NF-2 Permeate	1.61
04/13/02	0200	PCTS NF-2 Permeate	1.70
04/14/02	1000	PCTS NF-2 Permeate	1.76
04/14/02	0200	PCTS NF-2 Permeate	1.69
04/15/02	0200	PCTS NF-2 Permeate	1.47
04/16/02	1000	PCTS NF-2 Permeate	1.64
04/16/02	1800	PCTS NF-2 Permeate	1.59
04/17/02	1000	PCTS NF-2 Permeate	1.75
04/17/02	1800	PCTS NF-2 Permeate	1.38
04/18/02	0200	PCTS NF-2 Permeate	1.58
04/19/02	1000	PCTS NF-2 Permeate	1.51
04/19/02	1800	PCTS NF-2 Permeate	1.41
04/20/02	1000	PCTS NF-2 Permeate	1.29
04/20/02	1800	PCTS NF-2 Permeate	1.24
04/21/02	1000	PCTS NF-2 Permeate	1.23
04/21/02	1800	PCTS NF-2 Permeate	1.17
04/21/02	0200	PCTS NF-2 Permeate	1.52
04/22/02	0200	PCTS NF-2 Permeate	1.57
04/24/02	1000	PCTS NF-2 Permeate	1.52
04/24/02	1800	PCTS NF-2 Permeate	1.49
04/24/02	0200	PCTS NF-2 Permeate	1.38
04/25/02	1000	PCTS NF-2 Permeate	1.56
04/25/02	1800	PCTS NF-2 Permeate	1.43
04/25/02	0200	PCTS NF-2 Permeate	1.63
04/26/02	1800	PCTS NF-2 Permeate	1.49
04/26/02	0200	PCTS NF-2 Permeate	1.36
04/27/02	1000	PCTS NF-2 Permeate	1.34
04/27/02	1800	PCTS NF-2 Permeate	1.31
04/27/02	0200	PCTS NF-2 Permeate	1.55
04/28/02	1800	PCTS NF-2 Permeate	1.60
04/28/02	0200	PCTS NF-2 Permeate	1.27
04/29/02	1000	PCTS NF-2 Permeate	1.48
04/30/02	1000	PCTS NF-2 Permeate	1.70
04/30/02	1800	PCTS NF-2 Permeate	1.46
04/30/02	0200	PCTS NF-2 Permeate	1.66

Kestner Process Condensate

Go to Front

Date	Time	Sample	F1	Free P2O5	%:H3PO4	P2O5	APHA Color	Cl (ppm)	F (ppm)	pH
05/02/02	0200	Ketsner Process Condensate	0.37	0.39	0.86	0.62				1.31
05/03/02	1000	Ketsner Process Condensate	0.42	0.38	0.9	0.65				1.596
05/03/02	1800	Ketsner Process Condensate	0.43	0.31	0.75	0.54				1.66
05/03/02	0200	Ketsner Process Condensate	0.31	0.32	0.65	0.47				1.71
05/04/02	1000	Ketsner Process Condensate	0.35	0.34	0.73	0.53				1.42
05/04/02	1800	Ketsner Process Condensate	0.31	0.37	0.74	0.54				1.77
05/04/02	0200	Ketsner Process Condensate	0.29	0.46	0.9	0.65				1.72
05/05/02	1000	Ketsner Process Condensate	0.44	0.47	1.17	0.85				1.21
05/05/02	1800	Ketsner Process Condensate	0.41	0.5	1.16	0.84				1.19
05/05/02	0200	Ketsner Process Condensate	0.41	0.43	1.01	0.73				1.65
05/06/02	1000	Ketsner Process Condensate	0.41	0.44	1.02	0.74				1.37
05/06/02	1800	Ketsner Process Condensate	0.42	0.44	1.04	0.75				1.42
05/06/02	0200	Ketsner Process Condensate	0.35	0.43	0.92	0.67				1.54
05/07/02	0200	Ketsner Process Condensate	0.33	0.47	0.96	0.7				1.69
05/08/02	1000	Ketsner Process Condensate	0.41	0.45	1.05	0.76				1.54
05/08/02	1800	Ketsner Process Condensate	0.39	0.42	0.96	0.69				1.17
05/08/02	0200	Ketsner Process Condensate	0.38	0.39	0.86	0.63				1.50
05/09/02	1000	Ketsner Process Condensate	0.46	0.37	0.94	0.68				1.72
05/09/02	1800	Ketsner Process Condensate	0.46	0.35	0.9	0.66				1.74
05/09/02	0200	Ketsner Process Condensate	0.43	0.33	0.8	0.58				1.67
05/10/02	1000	Ketsner Process Condensate	0.43	0.33	0.81	0.59				1.495
05/11/02	1000	Ketsner Process Condensate	0.38	0.36	0.79	0.58				1.606
05/11/02	1800	Ketsner Process Condensate	0.48	0.32	0.84	0.61				1.70
05/11/02	0200	Ketsner Process Condensate	0.39	0.38	0.85	0.62				1.48
05/12/02	1000	Ketsner Process Condensate	0.44	0.4	0.98	0.71				1.38
05/12/02	1800	Ketsner Process Condensate	0.38	0.4	0.9	0.65				1.58
05/12/02	0200	Ketsner Process Condensate	0.42	0.41	0.97	0.7				1.408
05/13/02	1000	Ketsner Process Condensate	0.34	0.44	0.93	0.67				1.65
05/13/02	1800	Ketsner Process Condensate	0.33	0.45	0.93	0.67				1.67
05/13/02	0200	Ketsner Process Condensate	0.39	0.38	0.86	0.63				1.45
05/14/02	1000	Ketsner Process Condensate	0.42	0.47	1.11	0.81				1.54
05/14/02	1800	Ketsner Process Condensate	0.37	0.49	1.08	0.78				1.55
05/14/02	0200	Ketsner Process Condensate	0.36	0.46	1.00	0.73				1.33
05/15/02	1000	Ketsner Process Condensate	0.44	0.46	1.11	0.81				1.36
05/15/02	1800	Ketsner Process Condensate	0.47	0.34	0.90	0.65				1.50
05/15/02	0200	Ketsner Process Condensate	0.43	0.42	1.03	0.74				1.46
05/16/02	0200	Ketsner Process Condensate	0.43	0.37	0.90	0.65				1.56
05/17/02	1000	Ketsner Process Condensate	0.48	0.36	0.95	0.69				1.57
05/17/02	1800	Ketsner Process Condensate	0.38	0.36	0.81	0.58				1.55
05/17/02	0200	Ketsner Process Condensate	0.40	0.34	0.78	0.56				1.62
05/18/02	1000	Ketsner Process Condensate	0.46	0.36	0.92	0.67				1.53
05/18/02	1800	Ketsner Process Condensate	0.39	0.32	0.73	0.53				1.59
05/18/02	0200	Ketsner Process Condensate	0.43	0.4	0.98	0.71				1.443
05/19/02	0200	Ketsner Process Condensate	0.41	0.4	0.94	0.68				1.554
05/20/02	1000	Ketsner Process Condensate	0.45	0.4	1.00	0.72				1.426
05/20/02	1800	Ketsner Process Condensate	0.37	0.38	0.83	0.6				1.112
05/22/02	1000	Ketsner Process Condensate	0.48	0.35	0.92	0.67				1.52
05/23/02	1000	Ketsner Process Condensate	0.45	0.39	1	0.72				1.52
05/23/02	0200	Ketsner Process Condensate	0.42	0.35	0.85	0.62				1.63
05/24/02	1000	Ketsner Process Condensate	0.45	0.41	1.03	0.75				1.59
05/24/02	0200	Ketsner Process Condensate	0.47	0.37	0.96	0.69				1.584
05/25/02	1000	Ketsner Process Condensate	0.39	0.41	0.92	0.67				1.47
05/25/02	1800	Ketsner Process Condensate	0.45	0.36	0.89	0.65				1.56
05/26/02	1000	Ketsner Process Condensate	0.31	0.40	0.79	0.57				1.59
05/26/02	1800	Ketsner Process Condensate	0.35	0.44	0.94	0.68				1.46
05/26/02	0200	Ketsner Process Condensate	0.44	0.34	0.84	0.61				1.58
05/27/02	1000	Ketsner Process Condensate	0.38	0.34	0.76	0.55				1.67
05/27/02	1800	Ketsner Process Condensate	0.25	0.29	0.54	0.39				1.65
05/27/02	0200	Ketsner Process Condensate	0.32	0.40	0.82	0.59				1.61
05/28/02	1000	Ketsner Process Condensate	0.44	0.39	0.96	0.69				1.63
05/28/02	0200	Ketsner Process Condensate	0.27	0.3	0.57	0.41				1.50
05/29/02	1000	Ketsner Process Condensate	0.27	0.25	0.47	0.34				1.83
05/29/02	1800	Ketsner Process Condensate	0.24	0.32	0.58	0.42				1.69
05/29/02	0200	Ketsner Process Condensate	0.43	0.3	0.72	0.52				1.658
05/30/02	1000	Ketsner Process Condensate	0.35	0.26	0.56	0.4				1.615
05/30/02	1800	Ketsner Process Condensate	0.35	0.27	0.58	0.42				1.659
05/30/02	0200	Ketsner Process Condensate	0.38	0.21	0.48	0.34				1.735
05/31/02	1000	Ketsner Process Condensate	0.34	0.27	0.56	0.41				1.599
05/31/02	1800	Ketsner Process Condensate	0.4	0.26	0.59	0.43				1.62

Oily Water Sump

Date	Time	Sample ID	pH
05/02/02	0200	NF2 Permeate	1.74
05/03/02	1000	NF2 Permeate	1.92
05/03/02	0200	NF2 Permeate	1.93
05/06/02	1800	NF2 Permeate	1.86
05/07/02	0200	NF2 Permeate	2.21
05/08/02	1000	NF2 Permeate	1.96
05/08/02	1800	NF2 Permeate	2.01
05/08/02	0200	NF2 Permeate	1.74
05/09/02	1000	NF2 Permeate	2.2
05/11/02	1800	NF2 Permeate	2.14
05/12/02	1000	NF2 Permeate	1.99
05/12/02	1800	NF2 Permeate	2.11
05/13/02	1000	NF2 Permeate	1.93
05/13/02	0200	NF2 Permeate	2.28
05/14/02	0200	NF2 Permeate	1.98
05/15/02	1800	NF2 Permeate	1.724
05/15/02	0200	NF2 Permeate	1.853
05/17/02	1000	NF2 Permeate	1.731
05/23/02	1800	NF2 Permeate	2.00

PCTS

Date	Time	Sample ID	pH
05/02/02	0200	PCTS NF-2 Permeate	1.35
05/03/02	1000	PCTS NF-2 Permeate	1.66
05/03/02	1800	PCTS NF-2 Permeate	1.68
05/03/02	0200	PCTS NF-2 Permeate	1.71
05/04/02	1000	PCTS NF-2 Permeate	1.58
05/04/02	1800	PCTS NF-2 Permeate	1.68
05/04/02	0200	PCTS NF-2 Permeate	1.6
05/05/02	1000	PCTS NF-2 Permeate	1.21
05/05/02	1800	PCTS NF-2 Permeate	1.18
05/05/02	0200	PCTS NF-2 Permeate	1.49
05/06/02	1800	PCTS NF-2 Permeate	1.28
05/06/02	0200	PCTS NF-2 Permeate	1.51
05/07/02	0200	PCTS NF-2 Permeate	1.56
05/08/02	1000	PCTS NF-2 Permeate	1.34
05/08/02	1800	PCTS NF-2 Permeate	1.47
05/08/02	0200	PCTS NF-2 Permeate	1.45
05/09/02	1000	PCTS NF-2 Permeate	1.63
05/09/02	1800	PCTS NF-2 Permeate	1.7
05/09/02	0200	PCTS NF-2 Permeate	1.64
05/10/02	1000	PCTS NF-2 Permeate	1.54
05/11/02	1800	PCTS NF-2 Permeate	1.74
05/11/02	0200	PCTS NF-2 Permeate	1.54
05/12/02	1000	PCTS NF-2 Permeate	1.54
05/12/02	1800	PCTS NF-2 Permeate	1.53
05/12/02	0200	PCTS NF-2 Permeate	1.51
05/13/02	1000	PCTS NF-2 Permeate	1.57
05/13/02	0200	PCTS NF-2 Permeate	1.49
05/14/02	1000	PCTS NF-2 Permeate	1.43
05/14/022	1800	PCTS NF-2 Permeate	1.50
05/14/02	0200	PCTS NF-2 Permeate	1.47
05/15/02	1000	PCTS NF-2 Permeate	1.337
05/15/02	1800	PCTS NF-2 Permeate	1.447
05/15/02	0200	PCTS NF-2 Permeate	1.44
05/16/02	0200	PCTS NF-2 Permeate	1.73
05/17/02	1000	PCTS NF-2 Permeate	1.624
05/17/02	1800	PCTS NF-2 Permeate	1.59
05/17/02	0200	PCTS NF-2 Permeate	1.61
05/18/02	1000	PCTS NF-2 Permeate	1.59
05/18/02	1800	PCTS NF-2 Permeate	1.59
05/18/02	0200	PCTS NF-2 Permeate	1.75
05/20/02	1800	PCTS NF-2 Permeate	1.195
05/23/02	1000	PCTS NF-2 Permeate	1.49
05/23/02	1800	PCTS NF-2 Permeate	1.41
05/23/02	0200	PCTS NF-2 Permeate	1.698
05/24/02	0200	PCTS NF-2 Permeate	1.598
05/25/02	1000	PCTS NF-2 Permeate	1.47
05/25/02	1800	PCTS NF-2 Permeate	1.57
05/26/02	1000	PCTS NF-2 Permeate	1.82
05/26/02	1800	PCTS NF-2 Permeate	1.42
05/26/02	0200	PCTS NF-2 Permeate	1.54
05/27/02	1000	PCTS NF-2 Permeate	1.6
05/27/02	1800	PCTS NF-2 Permeate	1.64
05/27/02	0200	PCTS NF-2 Permeate	1.59
05/28/02	1000	PCTS NF-2 Permeate	1.61
05/28/02	0200	PCTS NF-2 Permeate	1.53
05/29/02	1000	PCTS NF-2 Permeate	1.74
04/29/02	1800	PCTS NF-2 Permeate	1.75
04/29/02	0200	PCTS NF-2 Permeate	1.708
05/30/02	1000	PCTS NF-2 Permeate	1.901
05/30/02	1800	PCTS NF-2 Permeate	1.332
05/30/02	0200	PCTS NF-2 Permeate	1.73
05/31/02	1000	PCTS NF-2 Permeate	1.636
05/31/02	1800	PCTS NF-2 Permeate	1.614

PCTS

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Date	Time	Sample ID	pH
06/01/02	1000	PCTS NF-2 Permeate	1.924
06/01/02	1800	PCTS NF-2 Permeate	1.843
06/02/02	1000	PCTS NF-2 Permeate	1.73
06/02/02	1800	PCTS NF-2 Permeate	1.392
06/02/02	0200	PCTS NF-2 Permeate	1.788
06/03/02	1000	PCTS NF-2 Permeate	1.592
06/04/02	1000	PCTS NF-2 Permeate	1.71
06/04/02	1800	PCTS NF-2 Permeate	
06/06/02	0200	PCTS NF-2 Permeate	1.85
06/07/02	0200	PCTS NF-2 Permeate	1.515
06/14/02	0200	PCTS NF-2 Permeate	1.481
06/15/02	1800	PCTS NF-2 Permeate	1.476
06/15/02	0200	PCTS NF-2 Permeate	1.60
06/16/02	0200	PCTS NF-2 Permeate	1.58
06/17/02	0200	PCTS NF-2 Permeate	1.58
06/18/02	0200	PCTS NF-2 Permeate	1.5
06/20/02	0200	PCTS NF-2 Permeate	1.52
06/21/02	0200	PCTS NF-2 Permeate	1.39
06/22/02	0200	PCTS NF-2 Permeate	1.75
06/23/02	0200	PCTS NF-2 Permeate	1.563
06/25/02	0200	PCTS NF-2 Permeate	1.94
06/26/02	0200	PCTS NF-2 Permeate	1.8
06/27/02	0200	PCTS NF-2 Permeate	1.89
06/28/02	0200	PCTS NF-2 Permeate	1.466
06/29/02	0200	PCTS NF-2 Permeate	1.52
06/30/02	0200	PCTS NF-2 Permeate	1.37

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Specials

DATE	TIME	SAMPLE ID	F (ppm)
06/25/02		NF-1B Concentrate	3594
06/25/02		NF1-B Permeate	1708
06/25/02		NF2 Concentrate	2187
06/25/02		NF2 Permeate	1592
06/20/02		PCTS NF1-A	1828
06/20/02		PCTS NF2	1591
06/25/02		Process Condensate	2245

Kestner Process Condensate Go to Front

Date	Time	Sample	pH
07/01/02	1800	Kestner Process Condensate	1.465
07/01/02	0200	Kestner Process Condensate	1.32
07/02/02	1000	Kestner Process Condensate	1.376
07/02/02	1800	Kestner Process Condensate	1.37
07/03/02	1000	Kestner Process Condensate	1.65
07/03/02	1800	Kestner Process Condensate	1.43
07/03/02	0200	Kestner Process Condensate	1.409
07/04/02	1800	Kestner Process Condensate	1.414
07/04/02	0200	Kestner Process Condensate	1.82
07/05/02	1000	Kestner Process Condensate	1.69
07/05/02	1800	Kestner Process Condensate	1.43
07/05/02	0200	Kestner Process Condensate	1.90
07/06/02	1000	Kestner Process Condensate	1.52
07/06/02	1800	Kestner Process Condensate	1.369
07/06/02	0200	Kestner Process Condensate	1.47
07/07/02	1000	Kestner Process Condensate	1.63
07/07/02	1800	Kestner Process Condensate	1.457
07/07/02	0200	Kestner Process Condensate	1.647
07/08/02	1000	Kestner Process Condensate	1.58
07/08/02	1800	Kestner Process Condensate	1.418
07/08/02	0200	Kestner Process Condensate	1.44
07/09/02	1000	Kestner Process Condensate	1.67
07/09/02	1800	Kestner Process Condensate	1.57
07/10/02	1000	Kestner Process Condensate	1.68
07/10/02	1800	Kestner Process Condensate	1.36
07/10/02	0200	Kestner Process Condensate	1.54
07/11/02	1000	Kestner Process Condensate	1.76
07/11/02	1800	Kestner Process Condensate	1.67
07/11/02	0200	Kestner Process Condensate	1.71
07/12/02	1000	Kestner Process Condensate	1.56
07/12/02	1800	Kestner Process Condensate	1.55
07/12/02	0200	Kestner Process Condensate	1.41
07/13/02	1000	Kestner Process Condensate	1.64
07/13/02	1800	Kestner Process Condensate	1.53
07/13/02	0200	Kestner Process Condensate	1.66
07/14/02	1000	Kestner Process Condensate	1.62
07/14/02	1800	Kestner Process Condensate	1.60
07/14/02	0200	Kestner Process Condensate	1.54
07/15/02	1000	Kestner Process Condensate	1.33
07/15/02	1800	Kestner Process Condensate	1.05
07/15/02	0200	Kestner Process Condensate	1.32
07/16/02	1000	Kestner Process Condensate	1.43
07/16/02	0200	Kestner Process Condensate	1.73
07/17/02	1000	Kestner Process Condensate	1.48
07/17/02	1800	Kestner Process Condensate	1.3
07/17/02	0200	Kestner Process Condensate	1.54
07/18/02	1000	Kestner Process Condensate	1.55
07/18/02	1800	Kestner Process Condensate	1.48
07/18/02	0200	Kestner Process Condensate	1.64
07/19/02	1000	Kestner Process Condensate	1.56
07/19/02	1800	Kestner Process Condensate	1.57
07/19/02	0200	Kestner Process Condensate	1.65
07/20/02	1000	Kestner Process Condensate	1.45
07/20/02	1800	Kestner Process Condensate	1.36
07/20/02	0200	Kestner Process Condensate	1.36
07/21/02	1000	Kestner Process Condensate	1.39
07/21/02	1800	Kestner Process Condensate	1.34
07/21/02	0200	Kestner Process Condensate	1.47
07/22/02	1000	Kestner Process Condensate	1.28
07/22/02	1800	Kestner Process Condensate	1.25
07/18/02	0200	Kestner Process Condensate	1.3
07/23/02	1000	Kestner Process Condensate	1.22
07/23/02	1800	Kestner Process Condensate	1.11
07/23/02	0200	Kestner Process Condensate	1.5
07/24/02	1000	Kestner Process Condensate	1.34
07/24/02	1800	Kestner Process Condensate	1.37
07/24/02	0200	Kestner Process Condensate	1.39
07/25/02	1000	Kestner Process Condensate	1.27
07/25/02	1800	Kestner Process Condensate	1.33
07/25/02	0200	Kestner Process Condensate	1.41
07/26/02	1000	Kestner Process Condensate	1.70

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Specials

DATE	TIME	SAMPLE ID	F (ppm)
07/15/02		T3 RVDF 1st Filtrate	9255
07/15/02		T3 RVDF Filtrate SpG 1.19	9061
07/16/02		PCTS Test Feed	5725
07/16/02		PCTS Test DK Permeate	2349
07/16/02		PCTS Test Concentrate	7114
07/16/02		PCTS MK Permeate	3303
07/18/02		PCTS NF2 Permeate	4381
07/18/02		PCTS NF1 Permeate	5066
07/18/02		PCTS NF2 Feed	4840
07/18/02		PCTS NF2 Concentrate	4835
07/18/02		PCTS Process Condensate	4702
07/18/02		PCTS NF1 Feed	6034
07/18/02		PCTS Decant Underflow	7600
07/18/02		PCTS Coalescer Underflow	7083
07/18/02		PCTS NF1 Concentrate	7100
07/18/02		PCTS Coalescer Blowdown	7231
07/25/02		PCTS Test Concentrate	7619
07/25/02		PCTS DK Permeate	5707
07/25/02		PCTS MK Permeate	5407

PCTS

Date	Time	Sample ID	pH
07/01/02	1800	PCTS NF-2 Permeate	1.401
07/01/02	0200	PCTS NF-2 Permeate	1.265
07/02/02	0200	PCTS NF-2 Permeate	1.53
07/03/02	0200	PCTS NF-2 Permeate	1.345
07/04/02	0200	PCTS NF-2 Permeate	1.78
7/5/0200	0200	PCTS NF-2 Permeate	1.86
07/06/02	0200	PCTS NF-2 Permeate	1.43
07/07/02	0200	PCTS NF-2 Permeate	1.564
07/08/02	0200	PCTS NF-2 Permeate	1.45
07/10/02	0200	PCTS NF-2 Permeate	1.38
07/11/02	0200	PCTS NF-2 Permeate	1.63
07/12/02	0200	PCTS NF-2 Permeate	1.42
07/13/02	0200	PCTS NF-2 Permeate	1.63
07/14/02	1000	PCTS NF-2 Permeate	1.63
07/14/02	1800	PCTS NF-2 Permeate	1.52
07/14/02	0200	PCTS NF-2 Permeate	1.39
07/15/02	0200	PCTS NF-2 Permeate	1.3
07/15/02	1800	PCTS NF-2 Permeate	0.97
07/15/02	0200	PCTS NF-2 Permeate	1.37
07/16/02	1000	PCTS NF-2 Permeate	1.58
07/16/02	0200	PCTS NF-2 Permeate	1.6
07/17/02	1000	PCTS NF-2 Permeate	1.35
07/17/02	1800	PCTS NF-2 Permeate	1.23
07/17/02	0200	PCTS NF-2 Permeate	1.59
07/18/02	0200	PCTS NF-2 Permeate	1.68
07/19/02	0200	PCTS NF-2 Permeate	1.61
07/20/02	0200	PCTS NF-2 Permeate	1.49
07/21/02	0200	PCTS NF-2 Permeate	1.48
07/22/02	0200	PCTS NF-2 Permeate	1.17
07/01/02	0200	PCTS NF-2 Permeate	1.22
07/25/02	0200	PCTS NF-2 Permeate	1.33

PCTS

Date	Time	Sample ID	pH
08/02/02	0200	PCTS NF-2 Permeate	1.89
		PCTS NF-2 Permeate	1.60
08/22/02	0200	PCTS NF-2 Permeate	1.97
08/23/02	0200	PCTS NF-2 Permeate	1.78
08/25/02	0200	PCTS NF-2 Permeate	1.76
08/26/02	0200	PCTS NF-2 Permeate	1.8
08/27/02	0200	PCTS NF-2 Permeate	1.72
08/28/02	0200	PCTS NF-2 Permeate	1.76
08/30/02	0200	PCTS NF-2 Permeate	1.94
08/31/02	0200	PCTS NF-2 Permeate	1.82
09/02/02	0200	PCTS NF-2 Permeate	2.06

Kestner Process Condensa

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Date	Time	Sample	pH
08/01/02	1000	Kestner Process Condensate	1.54
08/01/02	1800	Kestner Process Condensate	1.53
08/02/02	1000	Kestner Process Condensate	1.73
08/02/02	1800	Kestner Process Condensate	1.64
08/02/02	0200	Kestner Process Condensate	1.75
08/03/02	1000	Kestner Process Condensate	1.66
08/03/02	1800	Kestner Process Condensate	1.49
08/03/02	0200	Kestner Process Condensate	1.67
08/20/02	1000	Kestner Process Condensate	1.99
08/20/02	1800	Kestner Process Condensate	1.70
08/20/02	0200	Kestner Process Condensate	2.09
08/21/02	1000	Kestner Process Condensate	1.84
08/21/02	1800	Kestner Process Condensate	1.76
08/21/02	0200	Kestner Process Condensate	1.8
08/22/02	1000	Kestner Process Condensate	1.78
08/22/02	1800	Kestner Process Condensate	1.79
08/22/02	0200	Kestner Process Condensate	1.75
08/23/02	1000	Kestner Process Condensate	1.93
08/23/02	1800	Kestner Process Condensate	1.91
08/23/02	0200	Kestner Process Condensate	1.68
08/24/02	1000	Kestner Process Condensate	1.83
08/24/02	1800	Kestner Process Condensate	1.72
08/25/02	1000	Kestner Process Condensate	1.97
08/25/02	1800	Kestner Process Condensate	1.95
08/25/02	0200	Kestner Process Condensate	1.81
08/26/02	1000	Kestner Process Condensate	1.84
08/26/02	1800	Kestner Process Condensate	2.92
08/26/02	0200	Kestner Process Condensate	1.81
08/27/02	1000	Kestner Process Condensate	1.86
08/27/02	1800	Kestner Process Condensate	1.88
08/27/02	0200	Kestner Process Condensate	1.80
08/28/02	1000	Kestner Process Condensate	1.85
08/28/02	1800	Kestner Process Condensate	1.70
08/28/02	0200	Kestner Process Condensate	1.73
08/29/02	0200	Kestner Process Condensate	1.89
08/30/02	1000	Kestner Process Condensate	1.77
08/30/02	1800	Kestner Process Condensate	1.83
08/30/02	0200	Kestner Process Condensate	1.85
08/31/02	1000	Kestner Process Condensate	1.76
08/31/02	1800	Kestner Process Condensate	1.70
08/31/02	0200	Kestner Process Condensate	1.85
09/01/02	1000	Kestner Process Condensate	1.87
09/01/02	1800	Kestner Process Condensate	1.83
09/01/02	0200	Kestner Process Condensate	3.43
09/02/02	1000	Kestner Process Condensate	1.58
09/02/02	1800	Kestner Process Condensate	1.50

Kestner Process Condensate

Go to Front

Date	Time	Sample	pH
09/01/02	1000	Kestner Process Condensate	1.87
09/01/02	1800	Kestner Process Condensate	1.83
09/01/02	0200	Kestner Process Condensate	3.43
09/02/02	1000	Kestner Process Condensate	1.58
09/02/02	1800	Kestner Process Condensate	1.50
09/03/02	1000	Kestner Process Condensate	1.57
09/03/02	1800	Kestner Process Condensate	1.83
09/03/02	0200	Kestner Process Condensate	1.11
09/04/02	1000	Kestner Process Condensate	1.47
09/04/02	1800	Kestner Process Condensate	1.55
09/04/02	0200	Kestner Process Condensate	1.84
09/05/02	1000	Kestner Process Condensate	1.65
09/05/02	1800	Kestner Process Condensate	1.26
09/05/02	0200	Kestner Process Condensate	1.58
09/06/02	1000	Kestner Process Condensate	1.62
09/06/02	1800	Kestner Process Condensate	1.67
09/06/02	0200	Kestner Process Condensate	1.79
09/07/02	1000	Kestner Process Condensate	1.73
09/07/02	1800	Kestner Process Condensate	1.63
09/07/02	0200	Kestner Process Condensate	1.64
09/08/02	1000	Kestner Process Condensate	1.65
09/08/02	1800	Kestner Process Condensate	1.52
09/08/02	0200	Kestner Process Condensate	1.5
09/09/02	0200	Kestner Process Condensate	1.7
09/10/02	0200	Kestner Process Condensate	1.68
09/11/02	1000	Kestner Process Condensate	1.21

PCTS

Date	Time	Sample ID	pH
09/02/02	0200	PCTS NF-2 Permeate	2.06
09/03/02	0200	PCTS NF-2 Permeate	1.37
09/05/02	0200	PCTS NF-2 Permeate	1.52
09/07/02	0200	PCTS NF-2 Permeate	1.61
09/08/02	0200	PCTS NF-2 Permeate	1.53

Go to Front

Specials

DATE	TIME	SAMPLE ID	pH	ppm F
08/03/01		Emergency Pond	3.07	
08/13/01	0830	PPA Pond Water	2.18	
08/17/01		# 9 Well Water	7.01	
08/18/01		# 9 Well Water	6.77	
08/19/01		# 9 Well Water	6.68	
08/21/01	1000	Fluoride Scrubber	2.25	
08/28/01		PPA Well (# 9)	6.82	
08/28/01	1800	Flouride Scrubber	3.39	
08/29/01	1800	Flouride Scrubber	3.48	
09/27/01		Emergency Pond	1.96	
11/02/01		Well #10	7.80	
11/08/01		Pond Water (Bob Manly)	1.89	
11/15/01		OWS Bottom		2487

Date	Time	Sample ID	pH	F (ppm)
08/02/01	0400	PCTS NFIA Concentrate	2.51	
08/02/01	0400	PCTS NF2 Permeate	2.75	
08/03/01	1100	PCTS NF2 Permeate	2.75	
08/03/01	1220	PCTS NF2 Permeate	2.77	
08/03/01	1320	PCTS NF2 Permeate	2.77	
08/03/01	1430	PCTS NF-2 Permeate	2.59	
08/03/01	1900	PCTS NF-2 Permeate	2.24	
08/05/01	1020	PCTS NF-2 Permeate		
08/05/01	1200	PCTS NF-2 Permeate	2.25	
08/05/01	1345	PCTS NF-2 Permeate	2.15	
08/05/01	1830	PCTS NF-2 Permeate	2.22	
08/05/01	2000	PCTSNFIA Permeate	2.24	25.2
08/05/01	2000	PCTSNF1A Feed	2.11	35.3
08/05/01	2000	PCTSNF1A Concentrate	1.85	35.7
08/05/01	2000	PCTSNF2 Concentrate	2.12	33.7
08/05/01	2000	PCTSNF2 Feed	2.25	23.3
08/05/01	2000	PCTS Coaleser	2.01	45.3
08/05/01	2000	PCTSNF2 Permeate	2.34	16.6
08/05/01	2200	PCTS NF-2 Permeate	2.37	15.4
08/05/01	2400	PCTS NF-2 Permeate	2.38	15.9
08/05/01	0200	PCTS NF-2 Permeate	2.36	14.1
08/05/01	0400	PCTS NF-2 Permeate	2.39	12.8
08/05/01	0600	PCTS NF-2 Permeate	2.43	11.4
08/06/01	0800	PCTS NF-2 Permeate	2.54	
08/06/01	0900	PCTS NF-2 Permeate	2.46	
08/06/01	1000	PCTS NF-2 Permeate	2.46	
08/06/01	1200	PCTS NF-2 Permeate	2.44	
08/06/01	1600	PCTS NF-2 Permeate	2.17	
08/06/01	1800	PCTS NF-2 Permeate	1.91	
08/06/01	2200	PCTS NF-2 Permeate	2.12	
08/06/01	0200	PCTS NF-2 Permeate	1.78	
08/06/01	0600	PCTS NF-2 Permeate	1.72	
08/07/01	1815	PCTS NF-2 Permeate	1.81	
08/07/01	2000	PCTS NF-2 Permeate	1.82	
08/07/01	2200	PCTS NF-2 Permeate	2.10	
08/07/01	2400	PCTS NF-2 Permeate	1.78	
08/07/01	0200	PCTS NF-2 Permeate	1.77	
08/07/01	0400	PCTS NF-2 Permeate	1.75	
08/08/01	1000	PCTS NF-2 Permeate	6.36	
08/08/01	2000	PCTS NF-2 Permeate	2.07	
08/08/01	2200	PCTS NF-2 Permeate	1.87	
08/08/01	0200	PCTS NF-2 Permeate	1.88	
08/08/01	0400	PCTS NF-2 Permeate	1.54	
08/08/01	0600	PCTS NF-2 Permeate	1.64	
08/09/01	0900	PCTS Coelester		
08/11/01	2215	PCTS NF-2 Permeate	1.96	
08/12/01	2300	PCTS NF-2 Permeate	1.75	
08/12/01	0200	PCTS NF-2 Permeate	1.73	
08/12/01	0600	PCTS NF-2 Permeate	1.50	
08/19/01	0100	PCTS NF-2 Permeate	1.81	
08/19/01	0430	PCTS NF-2 Permeate	1.78	
08/19/01	0630	PCTS NF-2 Permeate	1.78	
08/20/01	0400	PCTS NF-2 Permeate	1.64	
08/21/01	1230	PCTS NF-2 Permeate	2.24	

Date	Time	Sample ID	pH	F (ppm)
08/21/01	1430	PCTS NF2 Permeate	2.25	
08/21/01	1730	PCTS NF2 Permeate	2.17	
08/21/01	2200	PCTS NF2 Permeate	1.98	
08/21/01	0500	PCTS NF2 Permeate	1.99	
08/22/01	0800	PCTS NF2 Permeate	1.92	
08/22/01	1900	PCTS NF2 Permeate	1.91	
08/22/01	2200	PCTS NF2 Permeate	2.01	
08/22/01	0200	PCTS NF2 Permeate	1.52	
08/22/01	0600	PCTS NF2 Permeate	1.97	
08/23/01	1145	PCTS NF2 Permeate	1.94	
08/23/01	1600	PCTS NF2 Permeate	1.87	
08/23/01	1600	NF2 Feed	1.84	
08/23/01	1600	NF2 Concentrate	1.67	
08/23/01	1600	PCTS Coeleser Bleed	1.56	
08/23/01	1600	PCTS NF1A Concentrate	1.60	
08/23/01	1600	PCTS NF1A Feed	1.89	
08/23/01	1600	PCTS NF1A Permeate	2.14	
08/23/01	1600	PCTS Wash Water Before Washing	3.12	
08/23/01	1600	NF1A Wash Water after Washing	2.12	
08/23/01	1600	NF2 Wash Water after Washing	2.34	
08/23/01	1600	NF2 Wash Water 2nd Fill OF	2.68	
08/23/01	2030	PCTS NF2 Permeate	1.53	
08/23/01	0100	PCTS NF2 Permeate	1.63	
08/25/01	1230	PCTS NF2 Permeate	1.91	
08/25/01	1800	PCTS NF2	1.82	
08/26/01	2400	PCTS NF2	1.74	
08/26/01	0600	PCTS NF2	1.76	
08/27/01	1200	PCTS NF2	1.68	
08/27/01	1800	PCTS NF2	1.26	
08/27/01	2400	PCTS NF2	1.28	
08/27/01	0600	PCTS NF2	1.60	
08/28/01	1200	PCTS NF2	1.67	
08/28/01	1800	PCTS NF2	1.89	
08/28/01	2400	PCTS NF2	1.29	
08/28/01	0600	PCTS NF2	1.34	
08/29/01	1200	PCTS NF2		
08/29/01	1800	PCTS NF2	1.41	
08/30/01	0600	PCTS NF2	1.35	
08/31/01	1800	PCTS NF2	1.29	
09/01/01	0800	PCTS NF2	1.31	
09/01/01	1400	PCTS NF2	1.3	
09/01/01	2000	PCTS NF2	1.3	
09/01/01	0200	PCTS NF2	1.5	
09/01/01	0600	PCTS NF2	1.35	
09/02/01	1400	PCTS NF2	1.25	
09/02/01	2000	PCTS NF2	1.3	
09/02/01	0200	PCTS NF2	1.8	
09/03/01	0900	PCTS NF2	1.21	
09/03/01	1400	PCTS NF2	1.29	
09/03/01	2000	PCTS NF2	1.29	
09/09/01	2000	PCTS NF2	1.44	
09/10/01	2200	PCTS NF2	1.61	
09/11/01	2000	PCTS NF2	1.37	
09/11/01	0200	PCTS NF2	1.47	
09/12/01	2000	PCTS NF2	1.56	
09/13/01	2000	PCTS NF2	1.47	
09/14/01	2000	PCTS NF2	1.46	
09/16/01	0800	PCTS NF2		
09/24/01	0200	PCTS NF2	1.62	
09/25/01	1800	PCTS NF2	1.34	
09/25/01	0300	PCTS NF2	1.42	
09/26/01	1000	PCTS NF2	1.4	
09/26/01	1800	PCTS NF2	1.2	
09/28/01	0200	PCTS NF2	1.74	
09/29/01	1000	PCTS NF2	1.5	
09/29/01	0200	PCTS NF2	1.5	
10/01/01	1800	PCTS NF2		4283
10/02/01	1000	PCTS NF2	1.46	
10/02/01	1800	PCTS NF2	1.45	
10/03/00	1800	PCTS NF2	1.48	
10/03/01	0200	PCTS NF2	1.29	
10/04/01	0200	PCTS NF2	1.38	
10/05/01	1000	PCTS NF2	1.38	
10/05/01	0200	PCTS NF2	1.37	
10/06/01	0200	PCTS NF2	1.37	

Date	Time	Sample ID	pH	F (ppm)
10/07/01	0200	PCTS NF2	1.33	
10/08/01	0200	PCTS NF2	1.29	
10/09/01	1000	PCTS NF2	1.42	
10/09/01	1800	PCTS NF2	1.391	
10/09/01	0200	PCTS NF2	1.28	
10/10/01	0200	PCTS NF2	1.34	
10/11/01	1800	PCTS NF2	1.33	
10/11/01	0200	PCTS NF2	1.25	
10/12/01	1000	PCTS NF2	1.30	
10/13/01	1000	PCTS NF2	1.55	
10/13/01	0200	PCTS NF2	1.36	
10/14/01	1000	PCTS NF2	1.49	
10/14/01	1800	PCTS NF2	1.51	
10/14/01	0200	PCTS NF2	1.45	
10/15/01	1000	PCTS NF2	1.50	
10/15/01	1800	PCTS NF2	1.48	
10/17/01	1800	PCTS NF2	1.59	
10/17/01	0200	PCTS NF2	1.51	
10/18/01	1000	PCTS NF2	1.45	
10/18/01	1800	PCTS NF3	1.28	
10/18/01	0200	PCTS NF4	1.34	
10/19/01	1000	PCTS NF5	1.29	
10/19/01	1800	PCTS	1.223	
10/19/01	0200	PCTS	1.195	
10/20/01	1000	PCTS NF-2 Permeate	1.298	
10/20/01	1800	PCTS	1.09	
10/20/01	0200	PCTS	1.269	
10/21/01	1000	PCTS	1.356	
10/22/01	1000	PCTS NF-2 Permeate	1.473	
10/22/01	1800	PCTS NF-2 Permeate	1.35	
10/22/01	0200	PCTS NF-2 Permeate	1.36	
10/23/01	1000	PCTS NF-2 Permeate	1.425	
10/23/01	1800	PCTS NF-2 Permeate	1.402	
10/24/01	1000	PCTS NF-2 Permeate	1.482	
10/24/01	1800	PCTS NF-2 Permeate	1.566	
10/24/01	0200	PCTS NF-2 Permeate	1.459	
10/25/01	1800	PCTS NF-2 Permeate	1.459	
10/25/01	0200	PCTS NF-2 Permeate	1.403	
10/26/01	1800	PCTS NF-2 Permeate	1.343	
10/26/01	0200	PCTS NF-2 Permeate	1.345	
10/27/01	1000	PCTS NF-2 Permeate	1.44	
10/27/01	1800	PCTS NF-2 Permeate	1.32	
10/27/01	0200	PCTS NF-2 Permeate	1.235	
10/28/01	1000	PCTS NF-2 Permeate	1.31	
10/28/01	1800	PCTS NF-2 Permeate	1.33	
10/28/01	0200	PCTS NF-2 Permeate	1.32	
10/29/01	1000	PCTS NF-2 Permeate	1.33	
10/29/01	1800	PCTS NF-2 Permeate	1.22	
10/30/01	1000	PCTS NF-2 Permeate	1.28	
10/30/01	1800	PCTS NF-2 Permeate	1.27	
10/30/01	0200	PCTS NF-2 Permeate	1.30	
10/31/01	1000	PCTS NF-2 Permeate	1.36	
10/31/01	1800	PCTS NF-2 Permeate	1.33	
10/31/01	0200	PCTS NF-2 Permeate	1.41	

Date	Time	Sample ID	pH	F (ppm)
11/01/01	1000	PCTS NF-2 Permeate	1.44	
11/01/01	1800	PCTS NF-2 Permeate	1.477	
11/01/01	0200	PCTS NF-2 Permeate	1.507	
11/02/01	1000	PCTS NF-2 Permeate	1.391	
11/02/01	1800	PCTS NF-2 Permeate	1.412	
11/02/01	0200	PCTS NF-2 Permeate	1.568	
11/003/01	1000	PCTS NF-2 Permeate	1.480	
11/03/01	1800	PCTS NF-2 Permeate	1.49	
11/04/01	1000	PCTS NF-2 Permeate	1.43	
11/04/01	0200	PCTS NF-2 Permeate	1.43	
11/06/01	1800	PCTS NF-2 Permeate	1.272	
11/06/01	0200	PCTS NF-2 Permeate	1.31	
11/07/01	1000	PCTS NF-2 Permeate	1.201	
11/07/01	1800	PCTS NF-2 Permeate	1.319	
11/07/01	0200	PCTS NF-2 Permeate	1.35	
11/08/01	1000	PCTS NF-2 Permeate	1.59	
11/11/01	1000	PCTS NF-2 Permeate	1.46	
11/11/01	1800	PCTS NF-2 Permeate	1.5	
11/11/01	0200	PCTS NF-2 Permeate	1.333	
11/12/01	1000	PCTS NF-2 Permeate	1.38	
11/12/01	1800	PCTS NF-2 Permeate	1.41	
11/12/01	0200	PCTS NF-2 Permeate	1.28	
11/13/01	1000	PCTS NF-2 Permeate	1.28	
11/13/01	1800	PCTS NF-2 Permeate	1.28	
11/23/01	1000	PCTS NF-2 Permeate	1.52	
11/24/01	230	PCTS NF-2 Permeate	1.68	
11/25/01	1000	PCTS NF-2 Permeate	1.66	
11/25/01	1800	PCTS NF-2 Permeate	1.66	
11/25/01	0200	PCTS NF-2 Permeate	1.60	
11/26/01	1000	PCTS NF-2 Permeate	1.60	
11/26/01	1800	PCTS NF-2 Permeate	1.53	
11/27/01	1000	PCTS NF-2 Permeate	1.48	
11/27/01	1800	PCTS NF-2 Permeate	1.55	
11/27/01	0200	PCTS NF-2 Permeate	1.48	
11/30/01	1000	PCTS NF-2 Permeate	1.3	
12/01/01	0200	PCTS NF-2 Permeate	1.42	
12/04/01	1800	PCTS NF-2 Permeate	1.35	
12/04/01	0200	PCTS NF-2 Permeate	1.32	
12/05/01	1000	PCTS NF-2 Permeate		
12/05/01	1800	PCTS NF-2 Permeate	1.33	
12/05/01	0200	PCTS NF-2 Permeate	1.11	
12/06/01	0200	PCTS NF-2 Permeate	1.47	
12/07/01	0200	PCTS NF-2 Permeate	1.477	
12/08/01	1000	PCTS NF-2 Permeate	1.59	
12/08/01	1800	PCTS NF-2 Permeate	1.58	
12/08/01	0200	PCTS NF-2 Permeate	1.48	
12/09/01	1000	PCTS NF-2 Permeate	1.56	
12/09/01	1800	PCTS NF-2 Permeate	1.39	
12/09/01	0200	PCTS NF-2 Permeate	1.345	
12/10/01	0200	PCTS NF-2 Permeate	1.48	
12/13/01	1000	PCTS NF-2 Permeate	1.54	
12/13/01	1800	PCTS NF-2 Permeate	1.49	
12/13/01	0200	PCTS NF-2 Permeate	1.39	
12/14/01	1000	PCTS NF-2 Permeate	1.49	
12/16/01	0200	PCTS NF-2 Permeate	1.6	
12/17/01	1000	PCTS NF-2 Permeate	1.54	
12/17/01	0200	PCTS NF-2 Permeate	1.05	
12/23/01	0200	PCTS NF-2 Permeate	1.98	
12/24/01	1000	PCTS NF-2 Permeate	1.54	
12/24/01	1800	PCTS NF-2 Permeate	1.45	
12/24/01	0200	PCTS NF-2 Permeate	1.5	
12/25/01	1000	PCTS NF-2 Permeate	1.55	
12/26/01	0200	PCTS NF-2 Permeate	2.34	
12/27/01	1000	PCTS NF-2 Permeate	1.65	
12/27/01	1800	PCTS NF-2 Permeate	1.55	
12/27/01	0200	PCTS NF-2 Permeate	1.67	
12/28/01	1000	PCTS NF-2 Permeate	1.74	
12/29/01	1800	PCTS NF-2 Permeate	1.9	
12/29/01	0200	PCTS NF-2 Permeate	1.595	
12/30/01	1000	PCTS NF-2 Permeate	1.671	
12/30/01	1800	PCTS NF-2 Permeate	1.481	
12/30/01	0200	PCTS NF-2 Permeate	1.52	
12/31/01	0200	PCTS NF-2 Permeate	2.32	

Oily Water Sump

Date	Time	Sample ID	pH	F (ppm)
20-Jul-01	1030	NF2 Permeate	8.1	
20-Jul-01	1030	NF1 Permeate	7.6	
20-Jul-01	1030	UF Permeate	8.2	
20-Jul-01	1130	UF Feed	8.03	
20-Jul-01	1130	NF2 Permeate	7.87	
20-Jul-01	1130	NF1 Permeate	7.94	
20-Jul-01	1130	UF Permeate	7.96	
20-Jul-01	1200	NF1 Concentrate	8.06	
20-Jul-01	1300	NF2 Permeate	7.98	
20-Jul-01	1300	NF1 Permeate	7.90	
20-Jul-01	1300	UF Permeate	8.04	
20-Jul-01	1500	NF2 Permeate	8.04	
20-Jul-01	1500	NF1 Permeate	7.91	
20-Jul-01	1500	UF Permeate	8.00	
20-Jul-01	1530	NF1 Concentrate	8.07	
20-Jul-01	1645	NF2 Permeate	8.01	
20-Jul-01	1645	NF1 Permeate	7.88	
20-Jul-01	1645	UF Permeate	7.99	
20-Jul-01	1900	NF2 Permeate	8.03	
20-Jul-01	1900	NF1 Permeate	7.94	
20-Jul-01	1900	UF Permeate	8.02	
20-Jul-01	2100	NF2 Permeate	8.03	
20-Jul-01	2100	NF1 Permeate	7.87	
20-Jul-01	2100	UF Permeate	8.00	
20-Jul-01	2300	NF2 Permeate	7.94	
20-Jul-01	2300	NF1 Permeate	7.80	
20-Jul-01	2300	UF Permeate	7.89	
20-Jul-01	2300	NF2 Concentrate	8.08	
20-Jul-01	2300	NF1 Concentrate	7.97	
20-Jul-01	2300	UF Concentrate	7.87	
20-Jul-01	2330	NF2 wash	7.50	
20-Jul-01	2330	NF1 wash	7.74	
20-Jul-01	2330	UF wash	7.48	
23-Jul-01	1625	NF1 Permeate	8.06	
23-Jul-01	1625	NF2 Permeate	8.00	
23-Jul-01	1715	NF1 Permeate	7.84	
23-Jul-01	1715	NF2 Permeate	7.94	
25-Jul-01	2000	NF2 Permeate	7.25	
25-Jul-01	2100	NF2 Permeate	7.32	
25-Jul-01	2200	NF2 Permeate	7.46	
07/25/01	2300	NF2 Permeate	7.55	
07/25/01	2400	NF2 Permeate	7.65	
07/25/01	0200	NF2 Permeate	7.59	
07/25/01	0300	NF2 Permeate	7.43	

Oily Water Sump

Date	Time	Sample ID	pH	F (ppm)
07/25/01	0400	NF2 Permeate	7.39	
07/25/01	0500	NF2 Permeate	7.32	
07/26/01	1015	NF2 Permeate	7.15	
07/26/01	1230	NF2 Permeate	7.13	
07/27/01	1100	NF2 Permeate	6.97	
07/27/01	1200	NF2 Permeate	6.79	
07/27/01	1700	NF2 Permeate	7.05	
07/27/01	1800	NF2 Permeate	7.25	
07/27/01	1900	NF2 Permeate	7.35	
07/27/01	2000	NF2 Permeate	7.47	
07/28/01	1100	NF2 Permeate	7.49	
07/28/01	1200	NF2 Permeate	7.35	
07/28/01	1300	NF2 Permeate	7.19	
07/28/01	1400	NF2 Permeate	7.38	
07/28/01	1400	NF2 concentrate	7.66	
07/28/01	1400	NF1 Permeate	7.24	
07/28/01	1400	NF1 Concentrate	7.42	
07/30/01	1245	NF2Permeate	7.14	
07/30/01	1400	NF2Permeate	7.21	
07/30/01	1500	NF2Permeate	7.14	
07/30/01	1600	WF-7Permeate	7.27	
07/30/01	1710	NF2Permeate	7.24	
07/30/01	1820	NF2Permeate	7.36	
07/30/01	2000	NF1 Concentrate	7.51	
07/30/01	2000	NF1 Permeate	7.46	
07/30/01	2000	NF2 concentrate	7.9	
07/30/01	2000	NF2Permeate	7.73	
08/02/01	0400	OWS Top		
08/02/01	0400	OWS Bottom		
08/03/01	1430	NF2 Permeate	7.26	
08/09/01	1200	ows		
08/17/01	1240	ows	2.1	
08/17/01	1420	ows	2.05	
08/18/01	1000	ows	1.89	
08/18/01	1200	ows	1.88	
08/19/01	2310	ows nf-2 permeate	1.84	
08/19/01	2400	ows nf-2 permeate	1.83	
08/19/01	0430	ows nf-2 permeate	1.84	
08/20/01	0100	ows nf-2 permeate	1.92	
08/21/01	1230	OWS NF2 Permeate	2.19	
08/21/01	1430	OWS NF2 Permeate	2.19	
08/21/01	1730	OWS NF2 Permeate	2.09	
08/21/01	1800	OWS NF2 Feed	1.84	
09/01/01	0200	OWS NF2 Permeate	1.5	

Oily Water Sump

Date	Time	Sample ID	pH	F (ppm)
09/01/01	0800	OWS NF2 Permeate	1.46	
09/02/01	1400	OWS NF2 Permeate	1.4	
09/02/01	2000	OWS NF2 Permeate	1.4	
09/02/01	0200	OWS NF2 Permeate	1.8	
09/03/01	2100	OWS NF2 Permeate	1.36	
09/04/01	0230	OWS NF2 Permeate	1.71	
09/05/01	0830	OWS NF2 Permeate	1.56	
09/10/01	2200	OWS NF2 Permeate	1.58	
09/11/01	2000	OWS NF2 Permeate	1.47	
09/11/01	0200	OWS NF2 Permeate	1.55	
09/12/01	1705	OWS UF Permeate	1.42	4390
09/16/01	0800	OWS NF2 Permeate		
09/25/01	1000	OWS NF2 Permeate	1.563	
09/25/01	1800	OWS NF2 Permeate	1.55	
09/26/01	1000	OWS NF2 Permeate	1.56	
09/26/01	1800	OWS NF2 Permeate	1.56	
09/26/01	0200	OWS NF2 Permeate	1.52	
09/27/01	0030	OWS NF2 Permeate		
09/28/01	0200	OWS NF2 Permeate	10.42	
09/29/01	0200	OWS NF2 Permeate	1.71	
09/30/01	1000	OWS NF2 Permeate	1.60	
10/03/01	0200	OWS NF2 Permeate	1.91	
10/04/01	0200	OWS NF2 Permeate	1.93	
10/05/01	1000	OWS NF2 Permeate	1.70	
10/06/01	0200	OWS NF2 Permeate	1.97	
10/07/01	1000	OWS NF2 Permeate	1.87	
10/07/01	1800	OWS NF2 Permeate	1.84	
10/07/01	0200	OWS NF2 Permeate	1.85	
10/08/01	1800	OWS NF2 Permeate	1.945	
10/08/01	0200	OWS NF2 Permeate	1.788	
10/09/01	0200	OWS NF2 Permeate	1.746	
10/10/01	0200	OWS NF2 Permeate	1.82	
10/11/01	0200	OWS NF2 Permeate	1.651	
10/12/01	1000	OWS NF2 Permeate	1.68	
10/12/01	0200	OWS NF2 Permeate	1.68	
10/13/01	1000	OWS NF2 Permeate	1.74	
10/13/01	0200	OWS NF2 Permeate	1.83	
10/14/01	1800	OWS NF2 Permeate	1.74	
10/14/01	0200	OWS NF2 Permeate	1.68	
10/17/01	1800	OWS NF2 Permeate	1.81	
10/17/01	0200	OWS NF2 Permeate	1.82	
10/21/01	1000	OWS NF2 Permeate	1.85	
10/22/01	1800	OWS NF2 Permeate	2.38	

Oily Water Sump

Date	Time	Sample ID	pH	F (ppm)
10/23/01	1000	OWS NF2 Permeate	3.526	
10/23/01	1800	OWS NF2 Permeate	2.935	
10/23/01	0200	OWS NF2 Permeate	3.166	
10/24/01	1000	OWS NF2 Permeate	3.438	
10/24/01	0200	OWS NF2 Permeate	3.138	
10/25/01	0200	OWS NF2 Permeate	2.97	
10/27/01	1800	OWS NF2 Permeate	1.6	
10/28/01	1800	OWS NF2 Permeate	1.88	
10/29/01	1800	OWS NF2 Permeate	1.98	
10/30/01	1000	OWS NF2 Permeate	2.01	
10/30/01	1800	OWS NF2 Permeate	2.05	
10/31/01	1000	OWS NF2 Permeate	2.09	
10/31/01	1800	OWS NF2 Permeate	1.76	
11/01/01	1000	OWS NF2 Permeate	1.83	
11/01/01	1800	OWS NF2 Permeate	3.081	
11/02/01	1800	OWS NF2 Permeate	2.751	
11/02/01	0200	OWS NF2 Permeate	3.326	
11/04/01	1800	OWS NF2 Permeate	1.52	
11/04/01	0200	OWS NF2 Permeate	1.59	
11/06/01	1800	OWS NF2 Permeate	1.434	
11/07/01	1800	OWS NF2 Permeate	1.678	
11/08/01	1000	OWS NF2 Permeate	1.780	
11/08/01	1800	OWS NF2 Permeate	1.688	
11/08/01	0200	OWS NF2 Permeate	1.884	
11/09/01	0200	OWS NF2 Permeate	1.852	
11/10/01	0200	OWS NF2 Permeate	5.066	
11/11/01	0200	OWS NF2 Permeate	4.929	
11/12/01	0200	OWS NF2 Permeate	5.056	
11/14/01	1600	OWS NF2 Permeate	13.4	
11/14/01	1600	OWS NF2 Permeate	13.4	
11/23/01	1000	OWS NF2 Permeate	1.57	
11/25/01	1000	OWS NF2 Permeate	1.65	
11/25/01	1800	OWS NF2 Permeate	1.66	
11/26/01	1000	OWS NF2 Permeate	1.69	
11/26/01	1800	OWS NF2 Permeate	1.68	
11/29/01	0200	OWS NF2 Permeate	1.74	
12/05/01	1800	OWS NF2 Permeate	1.49	
12/06/01	0200	OWS NF2 Permeate	1.61	
12/23/01	0200	OWS NF2 Permeate	2.65	
12/29/01	1800	OWS NF2 Permeate	1.81	
12/29/01	0200	OWS NF2 Permeate	1.79	
12/30/01	1000	OWS NF2 Permeate	1.864	
12/30/01	1800	OWS NF2 Permeate	1.749	
12/30/01	0200	OWS NF2 Permeate	1.79	
12/31/01	0200	OWS NF2 Permeate	1.87	

RO Waters

Date	Time	Sample ID	pH
07/22/01	2100	post filter RO #3	5.9
07/22/01	2100	post acid RO #3	5.8
07/22/01	2100	final RO #3 concentrate	6.1
07/22/01	2100	final permeate RO #3	5
07/25/01	0800	RO #3 Permeate	4.99
08/08/01	1500	#1 WAC	6.75
08/17/01	1200	#1 WAC	5.68

Kestner

Go to Front

Date	Time	Sample	F (ppm)	pH
08/03/01	1200	Decolor Tank	0.12	
08/04/01	2000		7	
08/25/01	1800	Ketsner Process Condensate	1136	
08/26/01	1200	Ketsner Process Condensate	1702	
08/26/01	1800	Ketsner Process Condensate	97	1.76
08/26/01	2400	Ketsner Process Condensate	757	1.80
08/26/01	600	Ketsner Process Condensate	2198	1.36
08/27/01	1200	Ketsner Process Condensate	3139	1.3
08/27/01	1800	Ketsner Process Condensate		1.41
08/28/01	1800	Ketsner Process Condensate		1.75
08/28/01	2400	Ketsner Process Condensate		1.29
08/28/01	600	Ketsner Process Condensate		0.91
08/29/01	1800	Ketsner Process Condensate	2773	1.37
08/30/01	2400	Ketsner Process Condensate	2820	1.36
08/30/01	600	Ketsner Process Condensate	2551	1.33
08/31/01	600	Ketsner Process Condensate	3505	1.32
08/31/01	1800	Ketsner Process Condensate	3634	1.22
08/31/01	200	Ketsner Process Condensate	4	7.75
08/31/01	800	Ketsner Process Condensate	3911	1.31
09/01/01	1400	Ketsner Process Condensate	4023	1.25
09/01/01	2000	Ketsner Process Condensate	0.01	8.9
09/01/01	200	Ketsner Process Condensate	0.02	8.6
09/01/01	800	Ketsner Process Condensate	4289	1.26
09/02/01	1400	Ketsner Process Condensate	4492	1.18
09/02/01	2000	Ketsner Process Condensate	21	3.3
09/02/01	200	Ketsner Process Condensate	3	3.8
09/03/01	900	Ketsner Process Condensate	4390	1.21
09/03/01	1400	Ketsner Process Condensate	4303	1.25
09/03/01	2000	Ketsner Process Condensate	4226	1.24
09/08/01	800	Ketsner Process Condensate	5330	1.51
09/08/01	0400	Ketsner Process Condensate	794	1.36
09/09/01	800	Ketsner Process Condensate	2975	1.41
09/10/01	800	Ketsner Process Condensate	2657	1.50
09/11/01	800	Ketsner Process Condensate	3312	1.36
09/13/01	830	Ketsner Process Condensate	3522	1.50
09/14/01	800	Ketsner Process Condensate	3105	1.42
09/15/01	800	Ketsner Process Condensate	4933	1.47
09/24/01	200	Ketsner Process Condensate		1.67
09/25/01	1000	Ketsner Process Condensate		
09/25/01	1800	Ketsner Process Condensate		1.31
09/25/01	300	Ketsner Process Condensate		1.31
09/26/01	1000	Ketsner Process Condensate		1.28
09/26/01	200	Ketsner Process Condensate		1.39
09/28/01	200	Ketsner Process Condensate		1.75

Kestner

Date	Time	Sample	F (ppm)	pH
09/29/01	1000	Ketsner Process Condensate		1.49
09/29/01	200	Ketsner Process Condensate		1.57
10/01/01	1800	Ketsner Process Condensate	4266	
10/02/01	1000	Ketsner Process Condensate		1.38
10/02/01	1800	Ketsner Process Condensate		1.33
10/03/01	1000	Ketsner Process Condensate		6.67
10/03/01	1800	Ketsner Process Condensate		1.35
10/03/01	200	Ketsner Process Condensate		1.28
10/04/01	200	Ketsner Process Condensate		1.34
10/05/01	1000	Ketsner Process Condensate		1.33
10/05/01	200	Ketsner Process Condensate		1.35
10/06/01	800	Ketsner Process Condensate		1.37
10/06/01	200	Ketsner Process Condensate		1.33
10/07/01	1000	Ketsner Process Condensate		1.32
10/07/01	200	Ketsner Process Condensate		1.33
10/08/01	1000	Ketsner Process Condensate		1.32
10/08/01	1800	Ketsner Process Condensate		1.356
10/09/01	1000	Ketsner Process Condensate		1.377
10/09/01	1800	Ketsner Process Condensate		1.359
10/09/01	0200	Ketsner Process Condensate		1.282
10/10/01	0200	Ketsner Process Condensate		1.344
10/11/01	1000	Ketsner Process Condensate		1.317
10/11/01	1800	Ketsner Process Condensate		1.33
10/11/01	0200	Ketsner Process Condensate		1.228
10/12/01	0200	Ketsner Process Condensate		1.408
10/13/01	1800	Ketsner Process Condensate		1.38
10/13/01	0200	Ketsner Process Condensate		1.39
10/14/01	1000	Ketsner Process Condensate		1.45
10/14/01	1800	Ketsner Process Condensate		1.49
10/14/01	0200	Ketsner Process Condensate		1.45
10/15/01	1000	Ketsner Process Condensate		1.52
10/15/01	1800	Ketsner Process Condensate		1.49
10/17/01	1000	Ketsner Process Condensate		1.58
10/17/01	1800	Ketsner Process Condensate		1.58
10/17/01	0200	Ketsner Process Condensate		1.50
10/18/01	1000	Ketsner Process Condensate		1.44
10/18/01	1800	Ketsner Process Condensate		1.29
10/19/01	1000	Ketsner Process Condensate		1.316
10/19/01	1800	Ketsner Process Condensate		1.214
10/19/01	0200	Ketsner Process Condensate		1.183
10/20/01	1000	Ketsner Process Condensate		1.290
10/20/01	1800	Ketsner Process Condensate		1.103
10/20/01	0200	Ketsner Process Condensate		1.265
10/21/01	1000	Ketsner Process Condensate		1.346
10/21/01	0200	Ketsner Process Condensate		1.64

Kestner

Date	Time	Sample	F (ppm)	pH
10/22/01	1800	Ketsner Process Condensate		6.267
10/22/01	0200	Ketsner Process Condensate		1.37
10/23/01	1000	Ketsner Process Condensate		1.43
10/23/01	1800	Ketsner Process Condensate		1.402
10/24/01	1800	Ketsner Process Condensate		1.472
10/24/01	0200	Ketsner Process Condensate		1.468
10/25/01	1000	Ketsner Process Condensate		1.544
10/25/01	1800	Ketsner Process Condensate		1.43
10/25/01	0200	Ketsner Process Condensate		1.4
10/26/01	1000	Ketsner Process Condensate		1.38
10/26/01	1800	Ketsner Process Condensate		1.312
10/26/01	0200	Ketsner Process Condensate		1.344
10/27/01	1000	Ketsner Process Condensate		1.41
10/27/01	1800	Ketsner Process Condensate		1.33
10/27/01	0200	Ketsner Process Condensate		1.298
10/28/01	1000	Ketsner Process Condensate		1.34
10/28/01	1800	Ketsner Process Condensate		1.35
10/28/01	0200	Ketsner Process Condensate		1.31
10/29/01	1000	Ketsner Process Condensate		1.31
10/29/01	1800	Ketsner Process Condensate		1.251
10/30/01	1000	Ketsner Process Condensate		1.31
10/30/01	1800	Ketsner Process Condensate		1.34
10/30/01	0200	Ketsner Process Condensate		1.31
10/31/01	1000	Ketsner Process Condensate		1.32
10/31/01	1800	Ketsner Process Condensate		1.31
10/31/01	0200	Ketsner Process Condensate		1.37
11/01/01	1000	Ketsner Process Condensate		1.44
11/01/01	1800	Ketsner Process Condensate		1.51
11/01/01	0200	Ketsner Process Condensate		1.51
11/02/01	1000	Ketsner Process Condensate		1.39
11/02/01	1800	Ketsner Process Condensate		1.51
11/02/01	0200	Ketsner Process Condensate		1.58
11/03/01	1000	Ketsner Process Condensate		1.48
11/03/01	1800	Ketsner Process Condensate		1.44
11/04/01	1000	Ketsner Process Condensate		1.50
11/04/01	1800	Ketsner Process Condensate		1.39
11/04/01	0200	Ketsner Process Condensate		1.44
11/06/01	1800	Ketsner Process Condensate		1.23
11/06/01	0200	Ketsner Process Condensate		1.33
11/07/01	1000	Ketsner Process Condensate		1.22
11/07/01	1800	Ketsner Process Condensate		1.32
11/07/01	0200	Ketsner Process Condensate		1.37
11/08/01	1000	Ketsner Process Condensate		1.53
11/08/01	1800	Ketsner Process Condensate		1.50
11/08/01	0200	Ketsner Process Condensate		1.62
11/11/01	1000	Ketsner Process Condensate		1.46
11/11/01	1800	Ketsner Process Condensate		1.48
11/11/01	0200	Ketsner Process Condensate		1.33

Kestner

Date	Time	Sample	F (ppm)	pH
11/12/01	1000	Ketsner Process Condensate		1.35
11/12/01	1800	Ketsner Process Condensate		1.50
11/12/01	0200	Ketsner Process Condensate		1.29
11/13/01	1000	Ketsner Process Condensate		1.28
11/13/01	1800	Ketsner Process Condensate		1.29
11/23/01	1000	Ketsner Process Condensate		1.64
11/24/01	1000	Ketsner Process Condensate		1.65
11/24/01	1800	Ketsner Process Condensate		1.67
11/24/01	0230	Ketsner Process Condensate		1.67
11/25/01	1000	Ketsner Process Condensate		1.68
11/25/01	1800	Ketsner Process Condensate		1.69
11/25/01	0200	Ketsner Process Condensate		1.61
11/26/01	1000	Ketsner Process Condensate		1.53
11/26/01	1800	Ketsner Process Condensate		1.53
11/28/01	1000	Ketsner Process Condensate		1.62
11/28/01	1800	Ketsner Process Condensate		1.62
11/28/01	0200	Ketsner Process Condensate		1.65
11/29/01	1800	Ketsner Process Condensate		1.40
11/29/01	0200	Ketsner Process Condensate		1.30
11/30/01	1000	Ketsner Process Condensate		1.27
11/30/01	0200	Ketsner Process Condensate		1.37
12/01/01	1800	Ketsner Process Condensate		1.44
12/01/01	0200	Ketsner Process Condensate		1.43
12/03/01	1000	Ketsner Process Condensate		1.78
12/04/01	1000	Ketsner Process Condensate		1.18
12/04/01	1800	Ketsner Process Condensate		1.37
12/04/01	0200	Ketsner Process Condensate		1.37
12/05/01	1000	Ketsner Process Condensate		
12/05/01	1800	Ketsner Process Condensate		1.33
12/05/01	0200	Ketsner Process Condensate		1.11
12/06/01	1000	Ketsner Process Condensate		1.40
12/06/01	1800	Ketsner Process Condensate		1.49
12/07/01	1000	Ketsner Process Condensate		
12/07/01	1800	Ketsner Process Condensate		1.509
12/07/01	0200	Ketsner Process Condensate		1.505
12/08/01	1000	Ketsner Process Condensate		1.62
12/08/01	1800	Ketsner Process Condensate		1.56
12/08/01	0200	Ketsner Process Condensate		1.48
12/09/01	1000	Ketsner Process Condensate		1.55
12/09/01	1800	Ketsner Process Condensate		1.38
12/09/01	0200	Ketsner Process Condensate		1.376
12/10/01	0200	Ketsner Process Condensate		1.48
12/11/01	1000	Ketsner Process Condensate		1.66
12/11/01	0200	Ketsner Process Condensate		1.69
12/12/01	0200	Ketsner Process Condensate		1.69
12/13/01	1000	Ketsner Process Condensate		1.55
12/13/01	1800	Ketsner Process Condensate		1.47
12/13/01	0200	Ketsner Process Condensate		1.39
12/17/01	1000	Ketsner Process Condensate		1.52
12/18/01	0200	Ketsner Process Condensate		1.69
12/24/01	1000	Ketsner Process Condensate		1.53
12/24/01	1800	Ketsner Process Condensate		1.45
12/24/01	0200	Ketsner Process Condensate		1.52
12/26/01	0200	Ketsner Process Condensate		2.16
12/27/01	1000	Ketsner Process Condensate		1.65
12/27/01	1800	Ketsner Process Condensate		1.56
12/27/01	0200	Ketsner Process Condensate		1.67
12/28/01	1000	Ketsner Process Condensate		1.71
12/28/01	0200	Ketsner Process Condensate		2.074
12/29/01	0200	Ketsner Process Condensate		1.595
12/30/01	1000	Ketsner Process Condensate		1.673
12/30/01	1800	Ketsner Process Condensate		1.471
12/30/01	0200	Ketsner Process Condensate		1.51

Sample Date/Time	User Sample ID	Sample ID	PH
8/25/2004 7:18	# 10 Well 8/24/04	200092785	6.80
4/8/2004 9:53	#10 Well Water	200082015	7.50
6/3/2003 0:00	#2 1st H2O wash sol.	200047644	4.76
6/16/2003 14:25	#2 DAP wash sol.	200050032	3.44
6/3/2003 0:00	#3 2nd H2O wash sol.	200047645	3.55
6/16/2003 14:25	#3 DAP wash sol.	200050033	3.80
6/3/2003 0:00	#4 3rd H2O wash sol.	200047646	3.06
4/19/2004 13:19	#4Tailings Pond	200082854	9.66
9/13/2004 12:24	#6 Seal Water	200094237	2.74
10/4/2004 12:09	#9 Well 10/04/2004	200095898	2.15
9/22/2004 11:10	#9 Well Cold Digestion	200094872	1.94
9/22/2004 11:10	#9 Well Hot Digestion	200094871	1.94
9/29/2004 8:35	#9 Well Water	200095377	1.75
3/8/2004 15:17	#9 Well Water	200080002	4.41
5/3/2004 15:22	#9 Well Water 5/3/04	200083984	2.44
3/11/2003 0:00	1 PCS Tg	200032509	6.36
1/27/2003 14:00	1st EFFECT COND 1400	200024670	1.95
1/27/2003 10:47	1st Effect Condensate (SW)	200024683	1.17
9/3/2003 16:00	52% HOT WELL WATER	200064152	2.34
12/13/2002 0:00	B.B. East	200016596	6.51
12/3/2004 20:58	COOLING BASIN H2O	200100250	2.71
9/13/2004 12:24	Duran's Sump	200094239	2.63
2/19/2003 14:30	Fluoride Scrubber 1306 2-19-03	200029182	7.05
1/21/2003 8:31	Fluoride Vent Scrubber	200023649	6.89
11/22/2002 13:07	Fluoride Vent Scrubber FV1A	200013588	7.49
11/22/2002 13:07	Fluoride Vent Scrubber FV1B	200013589	7.95
11/22/2002 13:07	Fluoride Vent Scrubber FV2A	200013590	7.31
11/22/2002 13:07	Fluoride Vent Scrubber FV2B	200013591	7.34
1/27/2003 9:45	Fluoride Vent Scrubber Liq.1/27	200025032	7.01
1/27/2003 9:45	Fluoride Vent Scrubber Liq.1/29	200025033	7.35
10/7/2002 10:00	KESTNER	200005630	1.94
11/14/2002 2:00	KESTNER PROC COND	200011667	1.97
3/29/2003 10:00	kESTNER PROC COND 1000	200035882	2.31
9/16/2002 18:00	KESTNER PROC. COND.	200002399	1.94
1/10/2003 2:00	KESTNER PROC. COND.	200021683	2.31
9/4/2002 2:00	KESTNER PROC. COND. 0200	200000208	1.11
9/23/2002 2:00	KESTNER PROC. COND. 0200	200003166	1.33
9/22/2002 2:00	KESTNER PROC. COND. 0200	200003005	1.36
9/21/2002 2:00	KESTNER PROC. COND. 0200	200002783	1.40
9/27/2002 2:00	KESTNER PROC. COND. 0200	200003774	1.47
9/13/2002 2:00	KESTNER PROC. COND. 0200	200001530	1.49
9/9/2002 2:00	KESTNER PROC. COND. 0200	200000989	1.50
10/25/2002 2:00	KESTNER PROC. COND. 0200	200008151	1.52
10/24/2002 2:00	KESTNER PROC. COND. 0200	200007950	1.53
9/24/2002 2:00	KESTNER PROC. COND. 0200	200003301	1.55
9/6/2002 2:00	KESTNER PROC. COND. 0200	200000563	1.58
10/27/2002 2:00	KESTNER PROC. COND. 0200	200008471	1.60
10/22/2002 2:00	KESTNER PROC. COND. 0200	200007617	1.61
10/26/2002 2:00	KESTNER PROC. COND. 0200	200008311	1.62
11/12/2002 2:00	KESTNER PROC. COND. 0200	200011064	1.64
10/28/2002 2:00	KESTNER PROC. COND. 0200	200008625	1.65

Sample Date/Time	User Sample ID	Sample ID	PH
8/15/2003 2:00	KESTNER PROC. COND. 0200	200060200	1.65
9/15/2002 2:00	KESTNER PROC. COND. 0200	200001836	1.67
11/6/2002 2:00	KESTNER PROC. COND. 0200	200010059	1.67
9/11/2002 2:00	KESTNER PROC. COND. 0200	200001233	1.68
9/20/2002 2:00	KESTNER PROC. COND. 0200	200002637	1.68
9/10/2002 2:00	KESTNER PROC. COND. 0200	200001102	1.70
9/25/2002 2:00	KESTNER PROC. COND. 0200	200003451	1.70
10/29/2002 2:00	KESTNER PROC. COND. 0200	200008765	1.71
10/30/2002 2:00	KESTNER PROC. COND. 0200	200008890	1.71
11/27/2002 2:00	KESTNER PROC. COND. 0200	200013511	1.71
10/10/2002 2:00	KESTNER PROC. COND. 0200	200005721	1.74
8/14/2003 2:00	KESTNER PROC. COND. 0200	200060006	1.75
9/26/2002 2:00	KESTNER PROC. COND. 0200	200003616	1.76
12/6/2002 2:00	KESTNER PROC. COND. 0200	200014984	1.76
4/16/2003 2:00	KESTNER PROC. COND. 0200	200038592	1.76
9/14/2002 2:00	KESTNER PROC. COND. 0200	200001700	1.78
9/29/2002 2:00	KESTNER PROC. COND. 0200	200004059	1.78
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11/10/2002 2:00	KESTNER PROC. COND. 0200	200010727	1.78
9/28/2002 2:00	KESTNER PROC. COND. 0200	200003920	1.79
11/29/2002 2:00	KESTNER PROC. COND. 0200	200013875	1.79
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Sample Date/Time	User Sample ID	Sample ID	PH
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9/19/2002 2:00	KESTNER PROC. COND. 0200	200002492	1.88
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9/8/2003 2:00	KESTNER PROC. COND. 0200	200064617	1.90
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Sample Date/Time	User Sample ID	Sample ID	PH
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6/30/2003 2:00	KESTNER PROC. COND. 0200	200052145	2.01
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Sample Date/Time	User Sample ID	Sample ID	PH
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9/11/2003 2:00	KESTNER PROC. COND. 0200	200065133	2.07
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5/26/2003 2:00	KESTNER PROC. COND. 0200	200045719	2.11
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Sample Date/Time	User Sample ID	Sample ID	PH
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9/17/2003 2:00	KESTNER PROC. COND. 0200	200066218	2.16
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Sample Date/Time	User Sample ID	Sample ID	PH
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3/23/2003 2:00	KESTNER PROC. COND. 0200	200034395	2.37
8/7/2003 2:00	KESTNER PROC. COND. 0200	200058657	2.37
3/14/2003 2:00	KESTNER PROC. COND. 0200	200032628	2.38
3/29/2003 2:00	KESTNER PROC. COND. 0200	200035444	2.38
4/30/2003 2:00	KESTNER PROC. COND. 0200	200041026	2.38
5/7/2003 2:00	KESTNER PROC. COND. 0200	200042252	2.38
6/14/2003 2:00	KESTNER PROC. COND. 0200	200049219	2.38
8/6/2003 2:00	KESTNER PROC. COND. 0200	200058433	2.38
6/18/2003 2:00	KESTNER PROC. COND. 0200	200049925	2.39
1/15/2003 2:00	KESTNER PROC. COND. 0200	200022132	2.40
2/20/2003 2:00	KESTNER PROC. COND. 0200	200028717	2.42
3/15/2003 2:00	KESTNER PROC. COND. 0200	200032834	2.42
2/18/2003 2:00	KESTNER PROC. COND. 0200	200028395	2.43

Sample Date/Time	User Sample ID	Sample ID	PH
3/30/2003 2:00	KESTNER PROC. COND. 0200	200035638	2.43
9/19/2003 2:00	KESTNER PROC. COND. 0200	200066612	2.43
1/28/2003 2:00	KESTNER PROC. COND. 0200	200024432	2.44
2/2/2003 2:00	KESTNER PROC. COND. 0200	200025285	2.45
2/21/2003 2:00	KESTNER PROC. COND. 0200	200028884	2.45
8/5/2003 2:00	KESTNER PROC. COND. 0200	200058253	2.45
7/3/2003 2:00	KESTNER PROC. COND. 0200	200052671	2.47
4/28/2003 2:00	KESTNER PROC. COND. 0200	200040706	2.48
3/9/2003 2:00	KESTNER PROC. COND. 0200	200031776	2.49
7/4/2003 2:00	KESTNER PROC. COND. 0200	200052865	2.49
1/27/2003 2:00	KESTNER PROC. COND. 0200	200024293	2.54
9/13/2003 2:00	KESTNER PROC. COND. 0200	200065512	2.54
1/30/2003 2:00	KESTNER PROC. COND. 0200	200024776	2.56
5/4/2003 2:00	KESTNER PROC. COND. 0200	200041749	2.56
7/5/2003 2:00	KESTNER PROC. COND. 0200	200053060	2.59
1/29/2003 2:00	KESTNER PROC. COND. 0200	200024580	2.60
11/13/2002 2:00	KESTNER PROC. COND. 0200	200011253	5.79
9/11/2002 10:00	KESTNER PROC. COND. 1000	200001251	1.21
9/22/2002 10:00	KESTNER PROC. COND. 1000	200003023	1.34
9/20/2002 10:00	KESTNER PROC. COND. 1000	200002655	1.40
9/21/2002 10:00	KESTNER PROC. COND. 1000	200002801	1.46
9/23/2002 10:00	KESTNER PROC. COND. 1000	200003184	1.46
9/4/2002 10:00	KESTNER PROC. COND. 1000	200000226	1.47
10/27/2002 10:00	KESTNER PROC. COND. 1000	200008493	1.50
10/24/2002 10:00	KESTNER PROC. COND. 1000	200007972	1.54
9/3/2002 10:00	KESTNER PROC. COND. 1000	200000116	1.57
10/18/2002 10:00	KESTNER PROC. COND. 1000	200006967	1.57
10/22/2002 10:00	KESTNER PROC. COND. 1000	200007638	1.57
11/29/2002 10:00	KESTNER PROC. COND. 1000	200013897	1.61
9/6/2002 10:00	KESTNER PROC. COND. 1000	200000581	1.62
10/23/2002 10:00	KESTNER PROC. COND. 1000	200007803	1.62
9/15/2002 10:00	KESTNER PROC. COND. 1000	200001854	1.63
10/16/2002 10:00	KESTNER PROC. COND. 1000	200006653	1.63
9/27/2002 10:00	KESTNER PROC. COND. 1000	200003792	1.64
9/28/2002 10:00	KESTNER PROC. COND. 1000	200003938	1.64
10/25/2002 10:00	KESTNER PROC. COND. 1000	200008173	1.64
9/5/2002 10:00	KESTNER PROC. COND. 1000	200000356	1.65
9/24/2002 10:00	KESTNER PROC. COND. 1000	200003319	1.65
10/28/2002 10:00	KESTNER PROC. COND. 1000	200008647	1.65
11/28/2002 10:00	KESTNER PROC. COND. 1000	200013692	1.65
8/15/2003 10:00	KESTNER PROC. COND. 1000	200060224	1.65
9/29/2002 10:00	KESTNER PROC. COND. 1000	200004077	1.66
8/14/2003 10:00	KESTNER PROC. COND. 1000	200060030	1.66
9/19/2002 10:00	KESTNER PROC. COND. 1000	200002510	1.67
10/29/2002 10:00	KESTNER PROC. COND. 1000	200008787	1.67
8/11/2003 10:00	KESTNER PROC. COND. 1000	200059517	1.67
10/19/2002 10:00	KESTNER PROC. COND. 1000	200007158	1.68
9/26/2002 10:00	KESTNER PROC. COND. 1000	200003634	1.70
10/9/2002 10:00	KESTNER PROC. COND. 1000	200005587	1.71

Sample Date/Time	User Sample ID	Sample ID	PH
8/10/2003 10:00	KESTNER PROC. COND. 1000	200059330	1.71
9/17/2002 10:00	KESTNER PROC. COND. 1000	200002202	1.72
10/8/2002 10:00	KESTNER PROC. COND. 1000	200005442	1.73
10/26/2002 10:00	KESTNER PROC. COND. 1000	200008333	1.73
9/28/2003 10:00	KESTNER PROC. COND. 1000	200068272	1.73
10/14/2002 10:00	KESTNER PROC. COND. 1000	200006359	1.74
11/9/2002 10:00	KESTNER PROC. COND. 1000	200010597	1.74
6/30/2003 10:00	KESTNER PROC. COND. 1000	200052169	1.74
8/19/2003 10:00	KESTNER PROC. COND. 1000	200060897	1.74
9/2/2003 10:00	KESTNER PROC. COND. 1000	200063492	1.75
10/31/2002 10:00	KESTNER PROC. COND. 1000	200009056	1.77
8/16/2003 10:00	KESTNER PROC. COND. 1000	200060389	1.77
11/5/2002 10:00	KESTNER PROC. COND. 1000	200009939	1.79
9/13/2002 10:00	KESTNER PROC. COND. 1000	200001548	1.81
11/13/2002 10:00	KESTNER PROC. COND. 1000	200011275	1.81
11/26/2002 10:00	KESTNER PROC. COND. 1000	200013391	1.82
12/1/2002 10:00	KESTNER PROC. COND. 1000	200014202	1.82
6/2/2003 10:00	KESTNER PROC. COND. 1000	200047059	1.83
8/17/2003 10:00	KESTNER PROC. COND. 1000	200060564	1.83
10/15/2002 10:00	KESTNER PROC. COND. 1000	200006508	1.84
11/2/2002 10:00	KESTNER PROC. COND. 1000	200009470	1.84
12/7/2002 10:00	KESTNER PROC. COND. 1000	200015187	1.84
6/5/2003 10:00	KESTNER PROC. COND. 1000	200047583	1.84
8/23/2003 10:00	KESTNER PROC. COND. 1000	200061619	1.84
10/6/2002 10:00	KESTNER PROC. COND. 1000	200005160	1.85
10/11/2002 10:00	KESTNER PROC. COND. 1000	200005888	1.85
11/1/2002 10:00	KESTNER PROC. COND. 1000	200009295	1.85
11/12/2002 10:00	KESTNER PROC. COND. 1000	200011086	1.85
11/27/2002 10:00	KESTNER PROC. COND. 1000	200013533	1.85
12/5/2002 10:00	KESTNER PROC. COND. 1000	200014836	1.85
9/18/2002 10:00	KESTNER PROC. COND. 1000	200002348	1.86
8/18/2003 10:00	KESTNER PROC. COND. 1000	200060745	1.86
11/30/2002 10:00	KESTNER PROC. COND. 1000	200014064	1.87
4/8/2003 10:00	KESTNER PROC. COND. 1000	200037188	1.87
6/27/2003 10:00	KESTNER PROC. COND. 1000	200051580	1.87
9/15/2003 10:00	KESTNER PROC. COND. 1000	200065917	1.87
9/30/2003 10:00	KESTNER PROC. COND. 1000	200068611	1.87
11/4/2002 10:00	KESTNER PROC. COND. 1000	200009800	1.88
11/6/2002 10:00	KESTNER PROC. COND. 1000	200010081	1.88
12/12/2002 10:00	KESTNER PROC. COND. 1000	200015973	1.88
12/30/2002 10:00	KESTNER PROC. COND. 1000	200019133	1.88
9/25/2003 10:00	KESTNER PROC. COND. 1000	200067691	1.88
10/12/2002 10:00	KESTNER PROC. COND. 1000	200006043	1.89
11/3/2002 10:00	KESTNER PROC. COND. 1000	200009636	1.89
9/25/2002 10:00	KESTNER PROC. COND. 1000	200003469	1.90
12/6/2002 10:00	KESTNER PROC. COND. 1000	200015006	1.90
6/13/2003 10:00	KESTNER PROC. COND. 1000	200049059	1.91
9/9/2003 10:00	KESTNER PROC. COND. 1000	200064801	1.91
12/3/2002 10:00	KESTNER PROC. COND. 1000	200014525	1.92
12/4/2002 10:00	KESTNER PROC. COND. 1000	200014668	1.92

Sample Date/Time	User Sample ID	Sample ID	PH
5/31/2003 10:00	KESTNER PROC. COND. 1000	200046661	1.92
6/25/2003 10:00	KESTNER PROC. COND. 1000	200051201	1.92
12/8/2002 10:00	KESTNER PROC. COND. 1000	200015326	1.93
4/12/2003 10:00	KESTNER PROC. COND. 1000	200037903	1.93
6/3/2003 10:00	KESTNER PROC. COND. 1000	200047211	1.93
8/21/2003 10:00	KESTNER PROC. COND. 1000	200061246	1.93
8/26/2003 10:00	KESTNER PROC. COND. 1000	200062152	1.93
9/3/2003 10:00	KESTNER PROC. COND. 1000	200063648	1.93
9/10/2003 10:00	KESTNER PROC. COND. 1000	200064964	1.93
10/10/2002 10:00	KESTNER PROC. COND. 1000	200005739	1.94
11/25/2002 10:00	KESTNER PROC. COND. 1000	200013238	1.94
12/31/2002 10:00	KESTNER PROC. COND. 1000	200019289	1.94
8/13/2003 10:00	KESTNER PROC. COND. 1000	200059840	1.94
9/7/2003 10:00	KESTNER PROC. COND. 1000	200064422	1.94
10/30/2002 10:00	KESTNER PROC. COND. 1000	200008912	1.95
6/20/2003 10:00	KESTNER PROC. COND. 1000	200050356	1.95
6/21/2003 10:00	KESTNER PROC. COND. 1000	200050536	1.95
8/30/2003 10:00	KESTNER PROC. COND. 1000	200062962	1.95
9/1/2003 10:00	KESTNER PROC. COND. 1000	200063331	1.95
9/12/2003 10:00	KESTNER PROC. COND. 1000	200065369	1.95
10/1/2003 10:00	KESTNER PROC. COND. 1000	200068769	1.95
10/2/2003 10:00	KESTNER PROC. COND. 1000	200068932	1.95
10/13/2002 10:00	KESTNER PROC. COND. 1000	200006184	1.96
12/10/2002 10:00	KESTNER PROC. COND. 1000	200015653	1.96
8/8/2003 10:00	KESTNER PROC. COND. 1000	200058897	1.96
8/12/2003 10:00	KESTNER PROC. COND. 1000	200059671	1.96
8/31/2003 10:00	KESTNER PROC. COND. 1000	200063128	1.96
9/27/2003 10:00	KESTNER PROC. COND. 1000	200068069	1.96
11/8/2002 10:00	KESTNER PROC. COND. 1000	200010421	1.97
11/11/2002 10:00	KESTNER PROC. COND. 1000	200010946	1.97
11/18/2002 10:00	KESTNER PROC. COND. 1000	200012116	1.97
12/2/2002 10:00	KESTNER PROC. COND. 1000	200014361	1.97
2/1/2003 10:00	KESTNER PROC. COND. 1000	200025128	1.97
8/20/2003 10:00	KESTNER PROC. COND. 1000	200061061	1.97
1/3/2003 10:00	KESTNER PROC. COND. 1000	200019812	1.98
6/1/2003 10:00	KESTNER PROC. COND. 1000	200046868	1.98
6/22/2003 10:00	KESTNER PROC. COND. 1000	200050718	1.98
10/3/2003 10:00	KESTNER PROC. COND. 1000	200069114	1.98
12/9/2002 10:00	KESTNER PROC. COND. 1000	200015502	1.99
12/13/2002 10:00	KESTNER PROC. COND. 1000	200016147	1.99
10/8/2003 10:00	KESTNER PROC. COND. 1000	200069951	1.99
4/11/2003 10:00	KESTNER PROC. COND. 1000	200037717	2.00
4/14/2003 10:00	KESTNER PROC. COND. 1000	200038282	2.00
9/4/2003 10:00	KESTNER PROC. COND. 1000	200063838	2.00
11/10/2002 10:00	KESTNER PROC. COND. 1000	200010749	2.01
12/11/2002 10:00	KESTNER PROC. COND. 1000	200015790	2.01
4/2/2003 10:00	KESTNER PROC. COND. 1000	200036179	2.01
1/18/2003 10:00	KESTNER PROC. COND. 1000	200022663	2.02
4/10/2003 10:00	KESTNER PROC. COND. 1000	200037544	2.02
4/16/2003 10:00	KESTNER PROC. COND. 1000	200038616	2.02

Sample Date/Time	User Sample ID	Sample ID	PH
5/16/2003 10:00	KESTNER PROC. COND. 1000	200043921	2.02
5/29/2003 10:00	KESTNER PROC. COND. 1000	200046232	2.02
6/14/2003 10:00	KESTNER PROC. COND. 1000	200049243	2.02
7/27/2003 10:00	KESTNER PROC. COND. 1000	200056706	2.02
8/3/2003 10:00	KESTNER PROC. COND. 1000	200057917	2.02
9/5/2003 10:00	KESTNER PROC. COND. 1000	200064052	2.02
9/24/2003 10:00	KESTNER PROC. COND. 1000	200067516	2.02
9/26/2003 10:00	KESTNER PROC. COND. 1000	200067897	2.02
11/14/2002 10:00	KESTNER PROC. COND. 1000	200011448	2.03
4/7/2003 10:00	KESTNER PROC. COND. 1000	200037035	2.03
4/9/2003 10:00	KESTNER PROC. COND. 1000	200037367	2.03
4/17/2003 10:00	KESTNER PROC. COND. 1000	200038855	2.03
6/4/2003 10:00	KESTNER PROC. COND. 1000	200047380	2.03
6/6/2003 10:00	KESTNER PROC. COND. 1000	200047778	2.03
6/19/2003 10:00	KESTNER PROC. COND. 1000	200050150	2.03
6/23/2003 10:00	KESTNER PROC. COND. 1000	200050898	2.03
6/24/2003 10:00	KESTNER PROC. COND. 1000	200051048	2.03
6/29/2003 10:00	KESTNER PROC. COND. 1000	200051956	2.03
9/17/2003 10:00	KESTNER PROC. COND. 1000	200066242	2.03
10/7/2003 10:00	KESTNER PROC. COND. 1000	200069792	2.03
12/14/2002 10:00	KESTNER PROC. COND. 1000	200016346	2.04
1/4/2003 10:00	KESTNER PROC. COND. 1000	200020013	2.04
4/19/2003 10:00	KESTNER PROC. COND. 1000	200039222	2.04
4/20/2003 10:00	KESTNER PROC. COND. 1000	200039379	2.04
6/9/2003 10:00	KESTNER PROC. COND. 1000	200048355	2.04
6/28/2003 10:00	KESTNER PROC. COND. 1000	200051790	2.04
7/8/2003 10:00	KESTNER PROC. COND. 1000	200053577	2.04
8/9/2003 10:00	KESTNER PROC. COND. 1000	200059126	2.04
8/29/2003 10:00	KESTNER PROC. COND. 1000	200062758	2.04
9/6/2003 10:00	KESTNER PROC. COND. 1000	200064256	2.04
9/29/2003 10:00	KESTNER PROC. COND. 1000	200068453	2.04
1/20/2003 10:00	KESTNER PROC. COND. 1000	200023099	2.05
3/25/2003 10:00	KESTNER PROC. COND. 1000	200034727	2.05
4/24/2003 10:00	KESTNER PROC. COND. 1000	200040024	2.05
5/24/2003 10:00	KESTNER PROC. COND. 1000	200045318	2.05
6/7/2003 10:00	KESTNER PROC. COND. 1000	200047968	2.05
12/21/2002 10:00	KESTNER PROC. COND. 1000	200017611	2.06
12/27/2002 10:00	KESTNER PROC. COND. 1000	200018610	2.06
2/2/2003 10:00	KESTNER PROC. COND. 1000	200025309	2.06
3/19/2003 10:00	KESTNER PROC. COND. 1000	200033588	2.06
8/2/2003 10:00	KESTNER PROC. COND. 1000	200057705	2.06
12/17/2002 10:00	KESTNER PROC. COND. 1000	200016918	2.07
12/25/2002 10:00	KESTNER PROC. COND. 1000	200018234	2.07
12/29/2002 10:00	KESTNER PROC. COND. 1000	200018927	2.07
1/15/2003 10:00	KESTNER PROC. COND. 1000	200022156	2.07
4/18/2003 10:00	KESTNER PROC. COND. 1000	200039053	2.07
5/28/2003 10:00	KESTNER PROC. COND. 1000	200046063	2.07
8/24/2003 10:00	KESTNER PROC. COND. 1000	200061811	2.07
5/27/2003 10:00	KESTNER PROC. COND. 1000	200045898	2.08
8/22/2003 10:00	KESTNER PROC. COND. 1000	200061426	2.08

Sample Date/Time	User Sample ID	Sample ID	PH
8/25/2003 10:00	KESTNER PROC. COND. 1000	200061992	2.08
12/28/2002 10:00	KESTNER PROC. COND. 1000	200018763	2.09
1/1/2003 10:00	KESTNER PROC. COND. 1000	200019460	2.09
4/22/2003 10:00	KESTNER PROC. COND. 1000	200039695	2.09
5/25/2003 10:00	KESTNER PROC. COND. 1000	200045530	2.09
5/30/2003 10:00	KESTNER PROC. COND. 1000	200046461	2.09
9/13/2003 10:00	KESTNER PROC. COND. 1000	200065536	2.09
9/19/2003 10:00	KESTNER PROC. COND. 1000	200066636	2.09
1/16/2003 10:00	KESTNER PROC. COND. 1000	200022336	2.10
4/27/2003 10:00	KESTNER PROC. COND. 1000	200040562	2.10
6/10/2003 10:00	KESTNER PROC. COND. 1000	200048504	2.10
6/11/2003 10:00	KESTNER PROC. COND. 1000	200048669	2.10
7/31/2003 10:00	KESTNER PROC. COND. 1000	200057354	2.10
8/4/2003 10:00	KESTNER PROC. COND. 1000	200058119	2.10
9/23/2003 10:00	KESTNER PROC. COND. 1000	200067329	2.10
11/17/2002 10:00	KESTNER PROC. COND. 1000	200011960	2.11
12/15/2002 10:00	KESTNER PROC. COND. 1000	200016523	2.11
1/2/2003 10:00	KESTNER PROC. COND. 1000	200019633	2.11
2/24/2003 10:00	KESTNER PROC. COND. 1000	200029503	2.11
3/1/2003 10:00	KESTNER PROC. COND. 1000	200030473	2.11
4/6/2003 10:00	KESTNER PROC. COND. 1000	200036864	2.11
4/21/2003 10:00	KESTNER PROC. COND. 1000	200039543	2.11
6/8/2003 10:00	KESTNER PROC. COND. 1000	200048184	2.11
1/17/2003 10:00	KESTNER PROC. COND. 1000	200022501	2.12
1/25/2003 10:00	KESTNER PROC. COND. 1000	200023937	2.12
4/1/2003 10:00	KESTNER PROC. COND. 1000	200036001	2.12
4/23/2003 10:00	KESTNER PROC. COND. 1000	200039847	2.12
12/24/2002 10:00	KESTNER PROC. COND. 1000	200018082	2.13
12/26/2002 10:00	KESTNER PROC. COND. 1000	200018458	2.13
8/28/2003 10:00	KESTNER PROC. COND. 1000	200062545	2.13
9/18/2003 10:00	KESTNER PROC. COND. 1000	200066422	2.13
10/4/2003 10:00	KESTNER PROC. COND. 1000	200069282	2.13
11/16/2002 10:00	KESTNER PROC. COND. 1000	200011770	2.14
1/7/2003 10:00	KESTNER PROC. COND. 1000	200020623	2.14
1/22/2003 10:00	KESTNER PROC. COND. 1000	200023416	2.14
1/24/2003 10:00	KESTNER PROC. COND. 1000	200023752	2.14
5/3/2003 10:00	KESTNER PROC. COND. 1000	200041590	2.14
9/16/2003 10:00	KESTNER PROC. COND. 1000	200066073	2.14
1/6/2003 10:00	KESTNER PROC. COND. 1000	200020457	2.15
4/5/2003 10:00	KESTNER PROC. COND. 1000	200036699	2.15
5/23/2003 10:00	KESTNER PROC. COND. 1000	200045131	2.15
7/6/2003 10:00	KESTNER PROC. COND. 1000	200053259	2.15
9/14/2003 10:00	KESTNER PROC. COND. 1000	200065738	2.15
11/15/2002 10:00	KESTNER PROC. COND. 1000	200011612	2.16
1/10/2003 10:00	KESTNER PROC. COND. 1000	200021231	2.16
2/27/2003 10:00	KESTNER PROC. COND. 1000	200030020	2.16
3/13/2003 10:00	KESTNER PROC. COND. 1000	200032465	2.16
3/18/2003 10:00	KESTNER PROC. COND. 1000	200033376	2.16
5/1/2003 10:00	KESTNER PROC. COND. 1000	200041232	2.16
5/6/2003 10:00	KESTNER PROC. COND. 1000	200042121	2.16

Sample Date/Time	User Sample ID	Sample ID	PH
3/31/2003 10:00	KESTNER PROC. COND. 1000	200035844	2.17
6/15/2003 10:00	KESTNER PROC. COND. 1000	200049435	2.17
7/1/2003 10:00	KESTNER PROC. COND. 1000	200052318	2.17
7/28/2003 10:00	KESTNER PROC. COND. 1000	200056866	2.17
12/16/2002 10:00	KESTNER PROC. COND. 1000	200016748	2.18
12/22/2002 10:00	KESTNER PROC. COND. 1000	200017779	2.18
1/5/2003 10:00	KESTNER PROC. COND. 1000	200020242	2.18
4/13/2003 10:00	KESTNER PROC. COND. 1000	200038098	2.18
5/4/2003 10:00	KESTNER PROC. COND. 1000	200041773	2.18
5/18/2003 10:00	KESTNER PROC. COND. 1000	200044241	2.18
7/30/2003 10:00	KESTNER PROC. COND. 1000	200057178	2.18
2/19/2003 10:00	KESTNER PROC. COND. 1000	200028564	2.19
4/25/2003 10:00	KESTNER PROC. COND. 1000	200040229	2.19
5/26/2003 10:00	KESTNER PROC. COND. 1000	200045743	2.19
2/25/2003 10:00	KESTNER PROC. COND. 1000	200029653	2.20
3/12/2003 10:00	KESTNER PROC. COND. 1000	200032283	2.20
12/18/2002 10:00	KESTNER PROC. COND. 1000	200017064	2.21
1/23/2003 10:00	KESTNER PROC. COND. 1000	200023581	2.21
3/16/2003 10:00	KESTNER PROC. COND. 1000	200033036	2.21
3/27/2003 10:00	KESTNER PROC. COND. 1000	200035088	2.21
4/26/2003 10:00	KESTNER PROC. COND. 1000	200040386	2.21
5/17/2003 10:00	KESTNER PROC. COND. 1000	200044090	2.21
6/12/2003 10:00	KESTNER PROC. COND. 1000	200048849	2.21
8/1/2003 10:00	KESTNER PROC. COND. 1000	200057545	2.21
1/31/2003 10:00	KESTNER PROC. COND. 1000	200024966	2.22
3/3/2003 10:00	KESTNER PROC. COND. 1000	200030834	2.22
3/10/2003 10:00	KESTNER PROC. COND. 1000	200032007	2.22
3/11/2003 10:00	KESTNER PROC. COND. 1000	200032146	2.22
4/29/2003 10:00	KESTNER PROC. COND. 1000	200040885	2.22
5/21/2003 10:00	KESTNER PROC. COND. 1000	200044768	2.22
3/8/2003 10:00	KESTNER PROC. COND. 1000	200031632	2.23
3/21/2003 10:00	KESTNER PROC. COND. 1000	200034091	2.23
3/26/2003 10:00	KESTNER PROC. COND. 1000	200034894	2.23
1/8/2003 10:00	KESTNER PROC. COND. 1000	200020804	2.24
1/21/2003 10:00	KESTNER PROC. COND. 1000	200023257	2.24
3/4/2003 10:00	KESTNER PROC. COND. 1000	200030984	2.24
3/6/2003 10:00	KESTNER PROC. COND. 1000	200031319	2.24
4/15/2003 10:00	KESTNER PROC. COND. 1000	200038450	2.24
5/2/2003 10:00	KESTNER PROC. COND. 1000	200041406	2.24
1/19/2003 10:00	KESTNER PROC. COND. 1000	200022909	2.26
3/9/2003 10:00	KESTNER PROC. COND. 1000	200031800	2.26
4/30/2003 10:00	KESTNER PROC. COND. 1000	200041050	2.26
5/10/2003 10:00	KESTNER PROC. COND. 1000	200042834	2.26
5/11/2003 10:00	KESTNER PROC. COND. 1000	200043056	2.26
7/29/2003 10:00	KESTNER PROC. COND. 1000	200057007	2.26
1/9/2003 10:00	KESTNER PROC. COND. 1000	200021037	2.27
3/2/2003 10:00	KESTNER PROC. COND. 1000	200030653	2.27
3/20/2003 10:00	KESTNER PROC. COND. 1000	200033885	2.27
5/19/2003 10:00	KESTNER PROC. COND. 1000	200044456	2.27
9/8/2003 10:00	KESTNER PROC. COND. 1000	200064641	2.27
3/7/2003 10:00	KESTNER PROC. COND. 1000	200031475	2.28

Sample Date/Time	User Sample ID	Sample ID	PH
3/17/2003 10:00	KESTNER PROC. COND. 1000	200033235	2.28
6/17/2003 10:00	KESTNER PROC. COND. 1000	200049784	2.28
9/21/2003 10:00	KESTNER PROC. COND. 1000	200067003	2.29
1/26/2003 10:00	KESTNER PROC. COND. 1000	200024143	2.30
5/5/2003 10:00	KESTNER PROC. COND. 1000	200041964	2.30
5/20/2003 10:00	KESTNER PROC. COND. 1000	200044608	2.30
8/5/2003 10:00	KESTNER PROC. COND. 1000	200058277	2.30
2/26/2003 10:00	KESTNER PROC. COND. 1000	200029814	2.31
3/22/2003 10:00	KESTNER PROC. COND. 1000	200034260	2.33
6/16/2003 10:00	KESTNER PROC. COND. 1000	200049630	2.33
8/7/2003 10:00	KESTNER PROC. COND. 1000	200058681	2.33
10/6/2003 10:00	KESTNER PROC. COND. 1000	200069631	2.33
3/15/2003 10:00	KESTNER PROC. COND. 1000	200032858	2.34
5/8/2003 10:00	KESTNER PROC. COND. 1000	200042481	2.34
5/12/2003 10:00	KESTNER PROC. COND. 1000	200043255	2.34
8/6/2003 10:00	KESTNER PROC. COND. 1000	200058457	2.34
10/5/2003 10:00	KESTNER PROC. COND. 1000	200069457	2.34
7/2/2003 10:00	KESTNER PROC. COND. 1000	200052468	2.36
2/23/2003 10:00	KESTNER PROC. COND. 1000	200029301	2.37
3/23/2003 10:00	KESTNER PROC. COND. 1000	200034419	2.37
3/28/2003 10:00	KESTNER PROC. COND. 1000	200035274	2.37
7/4/2003 10:00	KESTNER PROC. COND. 1000	200052889	2.37
2/18/2003 10:00	KESTNER PROC. COND. 1000	200028419	2.39
3/30/2003 10:00	KESTNER PROC. COND. 1000	200035662	2.39
5/7/2003 10:00	KESTNER PROC. COND. 1000	200042276	2.39
3/24/2003 10:00	KESTNER PROC. COND. 1000	200034585	2.40
5/9/2003 10:00	KESTNER PROC. COND. 1000	200042655	2.40
2/20/2003 10:00	KESTNER PROC. COND. 1000	200028741	2.41
7/5/2003 10:00	KESTNER PROC. COND. 1000	200053084	2.41
2/21/2003 10:00	KESTNER PROC. COND. 1000	200028908	2.42
6/18/2003 10:00	KESTNER PROC. COND. 1000	200049949	2.42
3/5/2003 10:00	KESTNER PROC. COND. 1000	200031144	2.43
1/29/2003 10:00	KESTNER PROC. COND. 1000	200024604	2.46
1/30/2003 10:00	KESTNER PROC. COND. 1000	200024800	2.47
9/20/2003 10:00	KESTNER PROC. COND. 1000	200066807	2.47
3/14/2003 10:00	KESTNER PROC. COND. 1000	200032652	2.48
2/22/2003 10:00	KESTNER PROC. COND. 1000	200029104	2.50
7/7/2003 10:00	KESTNER PROC. COND. 1000	200053425	2.50
1/27/2003 10:00	KESTNER PROC. COND. 1000	200024317	2.52
7/3/2003 10:00	KESTNER PROC. COND. 1000	200052695	2.67
4/28/2003 10:00	KESTNER PROC. COND. 1000	200040730	2.69
1/28/2003 10:00	KESTNER PROC. COND. 1000	200024456	2.70
7/26/2003 10:00	KESTNER PROC. COND. 1000	200056539	6.46
11/7/2002 10:00	KESTNER PROC. COND. 1000	200010233	6.48
12/19/2002 10:00	KESTNER PROC. COND. 1000	200017229	7.16
9/11/2003 10:00	KESTNER PROC. COND. 1000	200065157	196.00
9/21/2002 18:00	KESTNER PROC. COND. 1800	200003029	1.38
9/25/2002 18:00	KESTNER PROC. COND. 1800	200003640	1.42
10/17/2002 18:00	KESTNER PROC. COND. 1800	200006974	1.42
10/22/2002 18:00	KESTNER PROC. COND. 1800	200007810	1.42

Sample Date/Time	User Sample ID	Sample ID	PH
9/15/2002 18:00	KESTNER PROC. COND. 1800	200002035	1.44
10/18/2002 18:00	KESTNER PROC. COND. 1800	200007165	1.44
10/23/2002 18:00	KESTNER PROC. COND. 1800	200007979	1.46
9/19/2002 18:00	KESTNER PROC. COND. 1800	200002661	1.47
9/22/2002 18:00	KESTNER PROC. COND. 1800	200003190	1.47
10/15/2002 18:00	KESTNER PROC. COND. 1800	200006660	1.52
9/4/2002 18:00	KESTNER PROC. COND. 1800	200000231	1.55
10/21/2002 18:00	KESTNER PROC. COND. 1800	200007645	1.55
10/25/2002 18:00	KESTNER PROC. COND. 1800	200008340	1.55
9/28/2002 18:00	KESTNER PROC. COND. 1800	200004083	1.56
9/20/2002 18:00	KESTNER PROC. COND. 1800	200002807	1.57
9/27/2002 18:00	KESTNER PROC. COND. 1800	200003944	1.57
11/28/2002 18:00	KESTNER PROC. COND. 1800	200013904	1.57
8/15/2003 18:00	KESTNER PROC. COND. 1800	200060399	1.58
9/11/2002 18:00	KESTNER PROC. COND. 1800	200001397	1.59
10/9/2002 18:00	KESTNER PROC. COND. 1800	200005745	1.59
10/29/2002 18:00	KESTNER PROC. COND. 1800	200008919	1.60
10/19/2002 18:00	KESTNER PROC. COND. 1800	200007304	1.63
8/10/2003 18:00	KESTNER PROC. COND. 1800	200059527	1.65
9/2/2003 18:00	KESTNER PROC. COND. 1800	200063658	1.65
9/26/2002 18:00	KESTNER PROC. COND. 1800	200003798	1.66
10/7/2003 18:00	KESTNER PROC. COND. 1800	200069961	1.66
6/1/2003 18:00	KESTNER PROC. COND. 1800	200047069	1.68
10/8/2002 18:00	KESTNER PROC. COND. 1800	200005593	1.69
9/24/2002 18:00	KESTNER PROC. COND. 1800	200003475	1.70
6/30/2003 18:00	KESTNER PROC. COND. 1800	200052328	1.70
9/25/2003 18:00	KESTNER PROC. COND. 1800	200067907	1.70
9/28/2003 18:00	KESTNER PROC. COND. 1800	200068463	1.70
10/24/2002 18:00	KESTNER PROC. COND. 1800	200008180	1.71
10/27/2002 18:00	KESTNER PROC. COND. 1800	200008654	1.71
10/31/2002 18:00	KESTNER PROC. COND. 1800	200009302	1.71
9/5/2003 18:00	KESTNER PROC. COND. 1800	200064266	1.71
9/1/2003 18:00	KESTNER PROC. COND. 1800	200063502	1.72
6/27/2003 18:00	KESTNER PROC. COND. 1800	200052040	1.73
8/18/2003 18:00	KESTNER PROC. COND. 1800	200060907	1.73
10/26/2002 18:00	KESTNER PROC. COND. 1800	200008500	1.74
6/28/2003 18:00	KESTNER PROC. COND. 1800	200051966	1.74
8/14/2003 18:00	KESTNER PROC. COND. 1800	200060234	1.74
8/19/2003 18:00	KESTNER PROC. COND. 1800	200061071	1.74
9/4/2003 18:00	KESTNER PROC. COND. 1800	200064062	1.76
12/1/2002 18:00	KESTNER PROC. COND. 1800	200014368	1.77
6/21/2003 18:00	KESTNER PROC. COND. 1800	200050728	1.77
8/16/2003 18:00	KESTNER PROC. COND. 1800	200060574	1.77
9/12/2002 18:00	KESTNER PROC. COND. 1800	200001553	1.78
10/28/2002 18:00	KESTNER PROC. COND. 1800	200008794	1.79
11/26/2002 18:00	KESTNER PROC. COND. 1800	200013540	1.79
8/11/2003 18:00	KESTNER PROC. COND. 1800	200059681	1.79
8/13/2003 18:00	KESTNER PROC. COND. 1800	200060040	1.79
11/27/2002 18:00	KESTNER PROC. COND. 1800	200013699	1.80

Sample Date/Time	User Sample ID	Sample ID	PH
11/29/2002 18:00	KESTNER PROC. COND. 1800	200014071	1.80
12/9/2002 18:00	KESTNER PROC. COND. 1800	200015660	1.80
4/9/2003 18:00	KESTNER PROC. COND. 1800	200037554	1.81
7/29/2003 18:00	KESTNER PROC. COND. 1800	200057188	1.81
8/17/2003 18:00	KESTNER PROC. COND. 1800	200060755	1.81
8/20/2003 18:00	KESTNER PROC. COND. 1800	200061256	1.81
8/21/2003 18:00	KESTNER PROC. COND. 1800	200061436	1.81
8/23/2003 18:00	KESTNER PROC. COND. 1800	200061821	1.81
8/8/2003 18:00	KESTNER PROC. COND. 1800	200059136	1.82
9/3/2003 18:00	KESTNER PROC. COND. 1800	200063848	1.82
9/30/2003 18:00	KESTNER PROC. COND. 1800	200068779	1.82
9/3/2002 18:00	KESTNER PROC. COND. 1800	200000121	1.83
11/2/2002 18:00	KESTNER PROC. COND. 1800	200009643	1.83
11/30/2002 18:00	KESTNER PROC. COND. 1800	200014209	1.83
12/5/2002 18:00	KESTNER PROC. COND. 1800	200015013	1.83
6/3/2003 18:00	KESTNER PROC. COND. 1800	200047390	1.83
9/7/2003 18:00	KESTNER PROC. COND. 1800	200064651	1.83
9/27/2003 18:00	KESTNER PROC. COND. 1800	200068282	1.83
9/29/2003 18:00	KESTNER PROC. COND. 1800	200068621	1.83
10/13/2002 18:00	KESTNER PROC. COND. 1800	200006366	1.84
6/25/2003 18:00	KESTNER PROC. COND. 1800	200051412	1.84
8/12/2003 18:00	KESTNER PROC. COND. 1800	200059850	1.84
10/3/2003 18:00	KESTNER PROC. COND. 1800	200069292	1.84
10/6/2002 18:00	KESTNER PROC. COND. 1800	200005317	1.85
10/12/2002 18:00	KESTNER PROC. COND. 1800	200006191	1.86
11/7/2002 18:00	KESTNER PROC. COND. 1800	200010428	1.86
11/9/2002 18:00	KESTNER PROC. COND. 1800	200010756	1.86
9/24/2003 18:00	KESTNER PROC. COND. 1800	200067701	1.86
10/1/2003 18:00	KESTNER PROC. COND. 1800	200068942	1.86
12/24/2002 18:00	KESTNER PROC. COND. 1800	200018242	1.87
2/19/2003 18:00	KESTNER PROC. COND. 1800	200028751	1.87
10/5/2002 18:00	KESTNER PROC. COND. 1800	200005166	1.88
11/4/2002 18:00	KESTNER PROC. COND. 1800	200009946	1.88
11/12/2002 18:00	KESTNER PROC. COND. 1800	200011282	1.88
12/31/2002 18:00	KESTNER PROC. COND. 1800	200019468	1.88
6/9/2003 18:00	KESTNER PROC. COND. 1800	200048514	1.88
8/9/2003 18:00	KESTNER PROC. COND. 1800	200059340	1.88
9/9/2003 18:00	KESTNER PROC. COND. 1800	200064974	1.88
3/7/2003 18:00	KESTNER PROC. COND. 1800	200031642	1.89
4/5/2003 18:00	KESTNER PROC. COND. 1800	200036874	1.89
8/30/2003 18:00	KESTNER PROC. COND. 1800	200063138	1.89
9/12/2003 18:00	KESTNER PROC. COND. 1800	200065546	1.89
11/5/2002 18:00	KESTNER PROC. COND. 1800	200010088	1.90
12/2/2002 18:00	KESTNER PROC. COND. 1800	200014532	1.90
12/13/2002 18:00	KESTNER PROC. COND. 1800	200016354	1.90
4/10/2003 18:00	KESTNER PROC. COND. 1800	200037727	1.90
6/5/2003 18:00	KESTNER PROC. COND. 1800	200047788	1.90
6/12/2003 18:00	KESTNER PROC. COND. 1800	200049069	1.90
7/31/2003 18:00	KESTNER PROC. COND. 1800	200057555	1.90
8/1/2003 18:00	KESTNER PROC. COND. 1800	200057715	1.90
8/31/2003 18:00	KESTNER PROC. COND. 1800	200063341	1.90

Sample Date/Time	User Sample ID	Sample ID	PH
9/17/2002 18:00	KESTNER PROC. COND. 1800	200002353	1.91
10/11/2002 18:00	KESTNER PROC. COND. 1800	200006050	1.91
11/10/2002 18:00	KESTNER PROC. COND. 1800	200010953	1.91
9/17/2003 18:00	KESTNER PROC. COND. 1800	200066432	1.91
11/25/2002 18:00	KESTNER PROC. COND. 1800	200013398	1.92
12/4/2002 18:00	KESTNER PROC. COND. 1800	200014843	1.92
12/11/2002 18:00	KESTNER PROC. COND. 1800	200015980	1.92
1/20/2003 18:00	KESTNER PROC. COND. 1800	200023267	1.92
4/8/2003 18:00	KESTNER PROC. COND. 1800	200037377	1.92
5/29/2003 18:00	KESTNER PROC. COND. 1800	200046471	1.92
9/13/2003 18:00	KESTNER PROC. COND. 1800	200065748	1.92
11/3/2002 18:00	KESTNER PROC. COND. 1800	200009807	1.93
4/11/2003 18:00	KESTNER PROC. COND. 1800	200037913	1.93
8/26/2003 18:00	KESTNER PROC. COND. 1800	200062317	1.93
10/10/2002 18:00	KESTNER PROC. COND. 1800	200005894	1.94
11/8/2002 18:00	KESTNER PROC. COND. 1800	200010604	1.94
5/28/2003 18:00	KESTNER PROC. COND. 1800	200046242	1.94
6/13/2003 18:00	KESTNER PROC. COND. 1800	200049253	1.94
6/19/2003 18:00	KESTNER PROC. COND. 1800	200050366	1.94
8/28/2003 18:00	KESTNER PROC. COND. 1800	200062768	1.94
9/23/2003 18:00	KESTNER PROC. COND. 1800	200067526	1.94
12/3/2002 18:00	KESTNER PROC. COND. 1800	200014675	1.95
12/30/2002 18:00	KESTNER PROC. COND. 1800	200019297	1.95
1/4/2003 18:00	KESTNER PROC. COND. 1800	200020252	1.95
2/2/2003 18:00	KESTNER PROC. COND. 1800	200025519	1.95
2/24/2003 18:00	KESTNER PROC. COND. 1800	200029663	1.95
6/6/2003 18:00	KESTNER PROC. COND. 1800	200047978	1.95
6/20/2003 18:00	KESTNER PROC. COND. 1800	200050546	1.95
6/23/2003 18:00	KESTNER PROC. COND. 1800	200051058	1.95
6/29/2003 18:00	KESTNER PROC. COND. 1800	200052179	1.95
8/2/2003 18:00	KESTNER PROC. COND. 1800	200057927	1.95
8/25/2003 18:00	KESTNER PROC. COND. 1800	200062162	1.95
9/26/2003 18:00	KESTNER PROC. COND. 1800	200068079	1.95
11/13/2002 18:00	KESTNER PROC. COND. 1800	200011455	1.96
7/1/2003 18:00	KESTNER PROC. COND. 1800	200052478	1.96
7/30/2003 18:00	KESTNER PROC. COND. 1800	200057364	1.96
8/3/2003 18:00	KESTNER PROC. COND. 1800	200058129	1.96
8/22/2003 18:00	KESTNER PROC. COND. 1800	200061629	1.96
10/5/2003 18:00	KESTNER PROC. COND. 1800	200069641	1.96
12/8/2002 18:00	KESTNER PROC. COND. 1800	200015509	1.97
2/1/2003 18:00	KESTNER PROC. COND. 1800	200025319	1.97
5/30/2003 18:00	KESTNER PROC. COND. 1800	200046671	1.97
5/31/2003 18:00	KESTNER PROC. COND. 1800	200046878	1.97
6/14/2003 18:00	KESTNER PROC. COND. 1800	200049445	1.97
6/24/2003 18:00	KESTNER PROC. COND. 1800	200051211	1.97
7/7/2003 18:00	KESTNER PROC. COND. 1800	200053587	1.97
7/27/2003 18:00	KESTNER PROC. COND. 1800	200056876	1.97
12/10/2002 18:00	KESTNER PROC. COND. 1800	200015797	1.98
4/16/2003 18:00	KESTNER PROC. COND. 1800	200038865	1.98
7/6/2003 18:00	KESTNER PROC. COND. 1800	200053435	1.98

Sample Date/Time	User Sample ID	Sample ID	PH
9/11/2003 18:00	KESTNER PROC. COND. 1800	200065379	1.98
11/11/2002 18:00	KESTNER PROC. COND. 1800	200011093	1.99
12/12/2002 18:00	KESTNER PROC. COND. 1800	200016155	1.99
1/19/2003 18:00	KESTNER PROC. COND. 1800	200023109	1.99
4/17/2003 18:00	KESTNER PROC. COND. 1800	200039063	1.99
5/27/2003 18:00	KESTNER PROC. COND. 1800	200046073	1.99
9/14/2003 18:00	KESTNER PROC. COND. 1800	200065927	1.99
9/15/2003 18:00	KESTNER PROC. COND. 1800	200066083	1.99
1/1/2003 18:00	KESTNER PROC. COND. 1800	200019641	2.00
4/24/2003 18:00	KESTNER PROC. COND. 1800	200040239	2.00
5/5/2003 18:00	KESTNER PROC. COND. 1800	200042131	2.00
6/22/2003 18:00	KESTNER PROC. COND. 1800	200050908	2.00
10/7/2002 18:00	KESTNER PROC. COND. 1800	200005448	2.01
12/21/2002 18:00	KESTNER PROC. COND. 1800	200017787	2.01
3/21/2003 18:00	KESTNER PROC. COND. 1800	200034270	2.01
4/20/2003 18:00	KESTNER PROC. COND. 1800	200039553	2.01
4/23/2003 18:00	KESTNER PROC. COND. 1800	200040034	2.01
5/24/2003 18:00	KESTNER PROC. COND. 1800	200045540	2.01
8/4/2003 18:00	KESTNER PROC. COND. 1800	200058287	2.01
12/27/2002 18:00	KESTNER PROC. COND. 1800	200018771	2.02
3/25/2003 18:00	KESTNER PROC. COND. 1800	200034904	2.02
4/21/2003 18:00	KESTNER PROC. COND. 1800	200039705	2.02
5/6/2003 18:00	KESTNER PROC. COND. 1800	200042286	2.02
5/25/2003 18:00	KESTNER PROC. COND. 1800	200045753	2.02
10/4/2003 18:00	KESTNER PROC. COND. 1800	200069467	2.02
4/19/2003 18:00	KESTNER PROC. COND. 1800	200039389	2.03
8/24/2003 18:00	KESTNER PROC. COND. 1800	200062002	2.03
1/21/2003 18:00	KESTNER PROC. COND. 1800	200023426	2.04
4/13/2003 18:00	KESTNER PROC. COND. 1800	200038292	2.04
5/15/2003 18:00	KESTNER PROC. COND. 1800	200043931	2.04
8/29/2003 18:00	KESTNER PROC. COND. 1800	200062972	2.04
9/16/2003 18:00	KESTNER PROC. COND. 1800	200066252	2.04
10/2/2003 18:00	KESTNER PROC. COND. 1800	200069124	2.04
11/1/2002 18:00	KESTNER PROC. COND. 1800	200009477	2.05
12/7/2002 18:00	KESTNER PROC. COND. 1800	200015333	2.05
12/20/2002 18:00	KESTNER PROC. COND. 1800	200017619	2.05
3/19/2003 18:00	KESTNER PROC. COND. 1800	200033895	2.05
4/7/2003 18:00	KESTNER PROC. COND. 1800	200037198	2.05
4/12/2003 18:00	KESTNER PROC. COND. 1800	200038108	2.05
5/26/2003 18:00	KESTNER PROC. COND. 1800	200045908	2.05
9/18/2003 18:00	KESTNER PROC. COND. 1800	200066646	2.05
1/17/2003 18:00	KESTNER PROC. COND. 1800	200022673	2.06
1/25/2003 18:00	KESTNER PROC. COND. 1800	200024153	2.06
5/17/2003 18:00	KESTNER PROC. COND. 1800	200044251	2.06
6/15/2003 18:00	KESTNER PROC. COND. 1800	200049640	2.06
9/6/2003 18:00	KESTNER PROC. COND. 1800	200064432	2.06
11/17/2002 18:00	KESTNER PROC. COND. 1800	200012123	2.07
11/18/2002 18:00	KESTNER PROC. COND. 1800	200012270	2.07
11/24/2002 18:00	KESTNER PROC. COND. 1800	200013245	2.07
1/6/2003 18:00	KESTNER PROC. COND. 1800	200020633	2.07
1/18/2003 18:00	KESTNER PROC. COND. 1800	200022919	2.07

Sample Date/Time	User Sample ID	Sample ID	PH
4/6/2003 18:00	KESTNER PROC. COND. 1800	200037045	2.07
4/15/2003 18:00	KESTNER PROC. COND. 1800	200038626	2.07
6/10/2003 18:00	KESTNER PROC. COND. 1800	200048679	2.07
12/6/2002 18:00	KESTNER PROC. COND. 1800	200015194	2.08
1/24/2003 18:00	KESTNER PROC. COND. 1800	200023947	2.08
3/18/2003 18:00	KESTNER PROC. COND. 1800	200033598	2.08
4/1/2003 18:00	KESTNER PROC. COND. 1800	200036189	2.08
5/4/2003 18:00	KESTNER PROC. COND. 1800	200041974	2.08
5/18/2003 18:00	KESTNER PROC. COND. 1800	200044466	2.08
6/4/2003 18:00	KESTNER PROC. COND. 1800	200047593	2.08
6/7/2003 18:00	KESTNER PROC. COND. 1800	200048194	2.08
11/6/2002 18:00	KESTNER PROC. COND. 1800	200010240	2.09
11/15/2002 18:00	KESTNER PROC. COND. 1800	200011777	2.09
1/3/2003 18:00	KESTNER PROC. COND. 1800	200020023	2.09
5/23/2003 18:00	KESTNER PROC. COND. 1800	200045328	2.09
6/11/2003 18:00	KESTNER PROC. COND. 1800	200048859	2.09
9/19/2003 18:00	KESTNER PROC. COND. 1800	200066817	2.09
9/18/2002 18:00	KESTNER PROC. COND. 1800	200002515	2.10
12/15/2002 18:00	KESTNER PROC. COND. 1800	200016756	2.10
1/5/2003 18:00	KESTNER PROC. COND. 1800	200020467	2.10
1/30/2003 18:00	KESTNER PROC. COND. 1800	200024976	2.10
1/31/2003 18:00	KESTNER PROC. COND. 1800	200025138	2.10
4/22/2003 18:00	KESTNER PROC. COND. 1800	200039857	2.10
4/26/2003 18:00	KESTNER PROC. COND. 1800	200040572	2.10
5/3/2003 18:00	KESTNER PROC. COND. 1800	200041783	2.10
7/8/2003 18:00	KESTNER PROC. COND. 1800	200053767	2.10
12/16/2002 18:00	KESTNER PROC. COND. 1800	200016926	2.11
3/10/2003 18:00	KESTNER PROC. COND. 1800	200032156	2.11
3/12/2003 18:00	KESTNER PROC. COND. 1800	200032475	2.11
3/30/2003 18:00	KESTNER PROC. COND. 1800	200035854	2.11
8/27/2003 18:00	KESTNER PROC. COND. 1800	200062555	2.11
9/20/2003 18:00	KESTNER PROC. COND. 1800	200067013	2.11
11/14/2002 18:00	KESTNER PROC. COND. 1800	200011619	2.12
12/14/2002 18:00	KESTNER PROC. COND. 1800	200016531	2.12
12/25/2002 18:00	KESTNER PROC. COND. 1800	200018466	2.12
12/26/2002 18:00	KESTNER PROC. COND. 1800	200018618	2.12
6/8/2003 18:00	KESTNER PROC. COND. 1800	200048365	2.12
12/28/2002 18:00	KESTNER PROC. COND. 1800	200018935	2.13
1/2/2003 18:00	KESTNER PROC. COND. 1800	200019822	2.13
11/16/2002 18:00	KESTNER PROC. COND. 1800	200011967	2.14
12/18/2002 18:00	KESTNER PROC. COND. 1800	200017237	2.14
1/8/2003 18:00	KESTNER PROC. COND. 1800	200021047	2.14
4/30/2003 18:00	KESTNER PROC. COND. 1800	200041242	2.14
5/1/2003 18:00	KESTNER PROC. COND. 1800	200041416	2.14
5/16/2003 18:00	KESTNER PROC. COND. 1800	200044100	2.14
7/5/2003 18:00	KESTNER PROC. COND. 1800	200053269	2.14
9/22/2003 18:00	KESTNER PROC. COND. 1800	200067339	2.14
1/15/2003 18:00	KESTNER PROC. COND. 1800	200022346	2.15
1/23/2003 18:00	KESTNER PROC. COND. 1800	200023762	2.15
6/16/2003 18:00	KESTNER PROC. COND. 1800	200049794	2.15

Sample Date/Time	User Sample ID	Sample ID	PH
12/17/2002 18:00	KESTNER PROC. COND. 1800	200017072	2.16
3/8/2003 18:00	KESTNER PROC. COND. 1800	200031810	2.16
8/5/2003 18:00	KESTNER PROC. COND. 1800	200058467	2.16
3/9/2003 18:00	KESTNER PROC. COND. 1800	200032017	2.17
5/19/2003 18:00	KESTNER PROC. COND. 1800	200044618	2.17
1/7/2003 18:00	KESTNER PROC. COND. 1800	200020814	2.18
3/3/2003 18:00	KESTNER PROC. COND. 1800	200030994	2.18
5/8/2003 18:00	KESTNER PROC. COND. 1800	200042665	2.18
9/21/2003 18:00	KESTNER PROC. COND. 1800	200067182	2.18
4/14/2003 18:00	KESTNER PROC. COND. 1800	200038460	2.19
10/6/2003 18:00	KESTNER PROC. COND. 1800	200069802	2.19
3/17/2003 18:00	KESTNER PROC. COND. 1800	200033386	2.20
3/2/2003 18:00	KESTNER PROC. COND. 1800	200030844	2.21
3/4/2003 18:00	KESTNER PROC. COND. 1800	200031154	2.21
3/6/2003 18:00	KESTNER PROC. COND. 1800	200031485	2.21
4/18/2003 18:00	KESTNER PROC. COND. 1800	200039232	2.21
5/7/2003 18:00	KESTNER PROC. COND. 1800	200042491	2.21
7/26/2003 18:00	KESTNER PROC. COND. 1800	200056716	2.21
1/22/2003 18:00	KESTNER PROC. COND. 1800	200023591	2.22
4/25/2003 18:00	KESTNER PROC. COND. 1800	200040396	2.22
5/10/2003 18:00	KESTNER PROC. COND. 1800	200043066	2.22
5/21/2003 18:00	KESTNER PROC. COND. 1800	200044963	2.22
1/9/2003 18:00	KESTNER PROC. COND. 1800	200021241	2.23
3/11/2003 18:00	KESTNER PROC. COND. 1800	200032293	2.23
3/22/2003 18:00	KESTNER PROC. COND. 1800	200034429	2.23
4/28/2003 18:00	KESTNER PROC. COND. 1800	200040895	2.23
5/12/2003 18:00	KESTNER PROC. COND. 1800	200043422	2.23
2/21/2003 18:00	KESTNER PROC. COND. 1800	200029114	2.24
4/29/2003 18:00	KESTNER PROC. COND. 1800	200041060	2.25
2/23/2003 18:00	KESTNER PROC. COND. 1800	200029513	2.26
3/1/2003 18:00	KESTNER PROC. COND. 1800	200030663	2.26
3/15/2003 18:00	KESTNER PROC. COND. 1800	200033046	2.26
3/26/2003 18:00	KESTNER PROC. COND. 1800	200035098	2.26
7/4/2003 18:00	KESTNER PROC. COND. 1800	200053094	2.26
3/31/2003 18:00	KESTNER PROC. COND. 1800	200036011	2.27
5/11/2003 18:00	KESTNER PROC. COND. 1800	200043265	2.27
8/7/2003 18:00	KESTNER PROC. COND. 1800	200058907	2.27
2/25/2003 18:00	KESTNER PROC. COND. 1800	200029824	2.28
3/5/2003 18:00	KESTNER PROC. COND. 1800	200031329	2.28
3/13/2003 18:00	KESTNER PROC. COND. 1800	200032662	2.28
5/9/2003 18:00	KESTNER PROC. COND. 1800	200042844	2.28
5/20/2003 18:00	KESTNER PROC. COND. 1800	200044778	2.28
3/16/2003 18:00	KESTNER PROC. COND. 1800	200033245	2.29
3/20/2003 18:00	KESTNER PROC. COND. 1800	200034101	2.29
3/27/2003 18:00	KESTNER PROC. COND. 1800	200035284	2.29
6/17/2003 18:00	KESTNER PROC. COND. 1800	200049959	2.29
2/22/2003 18:00	KESTNER PROC. COND. 1800	200029311	2.30
3/24/2003 18:00	KESTNER PROC. COND. 1800	200034737	2.30
4/27/2003 18:00	KESTNER PROC. COND. 1800	200040740	2.30
6/18/2003 18:00	KESTNER PROC. COND. 1800	200050160	2.31

Sample Date/Time	User Sample ID	Sample ID	PH
3/28/2003 18:00	KESTNER PROC. COND. 1800	200035478	2.33
1/10/2003 18:00	KESTNER PROC. COND. 1800	200021408	2.34
5/2/2003 18:00	KESTNER PROC. COND. 1800	200041600	2.35
2/26/2003 18:00	KESTNER PROC. COND. 1800	200030030	2.38
3/29/2003 18:00	KESTNER PROC. COND. 1800	200035672	2.39
2/20/2003 18:00	KESTNER PROC. COND. 1800	200028918	2.41
7/2/2003 18:00	KESTNER PROC. COND. 1800	200052705	2.41
1/26/2003 18:00	KESTNER PROC. COND. 1800	200024327	2.47
1/27/2003 18:00	KESTNER PROC. COND. 1800	200024466	2.47
1/29/2003 18:00	KESTNER PROC. COND. 1800	200024810	2.47
8/6/2003 18:00	KESTNER PROC. COND. 1800	200058691	2.47
3/23/2003 18:00	KESTNER PROC. COND. 1800	200034595	2.49
2/17/2003 18:00	KESTNER PROC. COND. 1800	200028429	2.52
7/3/2003 18:00	KESTNER PROC. COND. 1800	200052899	2.52
1/28/2003 18:00	KESTNER PROC. COND. 1800	200024614	2.60
9/8/2003 18:00	KESTNER PROC. COND. 1800	200064811	194.00
9/2/2004 15:08	Mountain Fuel Well 9/2/04	200093467	6.93
4/19/2004 13:19	Neutralization Sump	200082855	2.72
4/6/2003 14:00	NF Treated Water Tk	200037405	2.27
4/6/2003 14:00	NF1B Concentrate	200037409	2.09
4/6/2003 14:00	NF1B Feed	200037407	2.18
4/6/2003 14:00	NF1B Permeate	200037408	2.21
4/6/2003 14:00	NF2 Concentrate	200037412	2.12
4/6/2003 14:00	NF2 Feed	200037410	2.22
4/6/2003 14:00	NF2 Permeate	200037411	2.28
1/5/2003 2:00	OWS NF-1	200020220	1.70
2/2/2003 2:00	OWS NF-1	200025287	1.72
9/17/2002 2:00	OWS NF-1	200002186	1.77
9/16/2002 2:00	OWS NF-1	200002014	1.92
11/14/2002 2:00	OWS NF-1	200011428	1.92
9/14/2002 2:00	OWS NF-1	200001702	1.94
9/29/2002 2:00	OWS NF-1	200004061	1.94
10/30/2002 2:00	OWS NF-1	200008892	1.95
1/28/2003 2:00	OWS NF-1	200024434	2.01
11/30/2002 2:00	OWS NF-1	200014044	2.12
12/1/2002 2:00	OWS NF-1	200014182	2.13
7/27/2003 2:00	OWS NF-1	200056684	2.20
8/8/2003 2:00	OWS NF-1	200058875	2.28
6/20/2003 2:00	OWS NF-1	200050334	2.30
1/21/2003 2:00	OWS NF-1	200023235	2.35
9/15/2002 2:00	OWS NF-1	200001838	2.41
10/14/2002 2:00	OWS NF-1	200006340	2.58
5/10/2003 2:00	OWS NF-1	200042812	2.64
11/29/2002 2:00	OWS NF-1	200013877	2.77
4/16/2003 2:00	OWS NF-1	200038594	6.31
9/13/2002 2:00	PCTF NF-1	200001531	1.48
9/6/2002 2:00	PCTF NF-1	200000564	1.52
9/9/2002 2:00	PCTF NF-1	200000990	1.53
9/11/2002 2:00	PCTF NF-1	200001234	1.64
9/12/2002 2:00	PCTF NF-1	200001375	1.75

Sample Date/Time	User Sample ID	Sample ID	PH
9/23/2002 2:00	PCTS NF-1	200003167	1.25
9/21/2002 2:00	PCTS NF-1	200002784	1.33
10/24/2002 2:00	PCTS NF-1	200007951	1.39
9/22/2002 2:00	PCTS NF-1	200003006	1.41
10/25/2002 2:00	PCTS NF-1	200008152	1.50
10/26/2002 2:00	PCTS NF-1	200008312	1.53
9/24/2002 2:00	PCTS NF-1	200003302	1.54
9/27/2002 2:00	PCTS NF-1	200003775	1.57
10/22/2002 2:00	PCTS NF-1	200007618	1.58
10/27/2002 2:00	PCTS NF-1	200008472	1.60
10/28/2002 2:00	PCTS NF-1	200008626	1.61
9/17/2002 2:00	PCTS NF-1	200002185	1.65
10/31/2002 2:00	PCTS NF-1	200009035	1.65
9/28/2002 2:00	PCTS NF-1	200003921	1.66
9/20/2002 2:00	PCTS NF-1	200002638	1.67
10/30/2002 2:00	PCTS NF-1	200008891	1.67
10/9/2002 2:00	PCTS NF-1	200005570	1.68
9/25/2002 2:00	PCTS NF-1	200003452	1.69
9/26/2002 2:00	PCTS NF-1	200003617	1.69
10/29/2002 2:00	PCTS NF-1	200008766	1.69
10/19/2002 2:00	PCTS NF-1	200007138	1.70
10/10/2002 2:00	PCTS NF-1	200005722	1.71
9/11/2003 2:00	PCTS NF-1	200065134	1.71
11/2/2002 2:00	PCTS NF-1	200009449	1.72
12/6/2002 2:00	PCTS NF-1	200014985	1.72
11/13/2002 2:00	PCTS NF-1	200011254	1.73
11/27/2002 2:00	PCTS NF-1	200013512	1.73
11/6/2002 2:00	PCTS NF-1	200010060	1.75
9/14/2002 2:00	PCTS NF-1	200001701	1.77
10/16/2002 2:00	PCTS NF-1	200006633	1.77
11/10/2002 2:00	PCTS NF-1	200010728	1.77
10/18/2002 2:00	PCTS NF-1	200006947	1.78
8/13/2003 2:00	PCTS NF-1	200059817	1.78
8/15/2003 2:00	PCTS NF-1	200060201	1.78
9/29/2002 2:00	PCTS NF-1	200004060	1.79
10/20/2002 2:00	PCTS NF-1	200007277	1.79
11/12/2002 2:00	PCTS NF-1	200011065	1.80
9/19/2002 2:00	PCTS NF-1	200002493	1.81
10/12/2002 2:00	PCTS NF-1	200006024	1.81
10/13/2002 2:00	PCTS NF-1	200006164	1.81
4/13/2003 2:00	PCTS NF-1	200038075	1.81
4/15/2003 2:00	PCTS NF-1	200038427	1.81
6/30/2003 2:00	PCTS NF-1	200052146	1.81
8/14/2003 2:00	PCTS NF-1	200060007	1.81
9/15/2002 2:00	PCTS NF-1	200001837	1.82
10/6/2002 2:00	PCTS NF-1	200005143	1.82
10/7/2002 2:00	PCTS NF-1	200005294	1.82
10/14/2002 2:00	PCTS NF-1	200006339	1.82
9/6/2003 2:00	PCTS NF-1	200064233	1.82
11/28/2002 2:00	PCTS NF-1	200013671	1.83

Sample Date/Time	User Sample ID	Sample ID	PH
12/8/2002 2:00	PCTS NF-1	200015305	1.83
12/22/2002 2:00	PCTS NF-1	200017757	1.83
8/11/2003 2:00	PCTS NF-1	200059494	1.83
11/3/2002 2:00	PCTS NF-1	200009615	1.84
11/30/2002 2:00	PCTS NF-1	200014043	1.84
6/21/2003 2:00	PCTS NF-1	200050513	1.84
10/11/2002 2:00	PCTS NF-1	200005871	1.85
11/7/2002 2:00	PCTS NF-1	200010212	1.86
11/11/2002 2:00	PCTS NF-1	200010925	1.86
12/9/2002 2:00	PCTS NF-1	200015481	1.86
11/25/2002 2:00	PCTS NF-1	200013217	1.87
4/8/2003 2:00	PCTS NF-1	200037165	1.87
9/2/2003 2:00	PCTS NF-1	200063469	1.87
11/4/2002 2:00	PCTS NF-1	200009779	1.88
12/5/2002 2:00	PCTS NF-1	200014815	1.88
12/12/2002 2:00	PCTS NF-1	200015952	1.88
12/13/2002 2:00	PCTS NF-1	200016125	1.89
2/2/2003 2:00	PCTS NF-1	200025286	1.89
9/3/2003 2:00	PCTS NF-1	200063625	1.89
8/17/2003 2:00	PCTS NF-1	200060541	1.90
8/28/2003 2:00	PCTS NF-1	200062522	1.90
11/8/2002 2:00	PCTS NF-1	200010400	1.91
12/7/2002 2:00	PCTS NF-1	200015166	1.92
6/1/2003 2:00	PCTS NF-1	200046845	1.92
6/25/2003 2:00	PCTS NF-1	200051178	1.92
8/18/2003 2:00	PCTS NF-1	200060722	1.92
11/5/2002 2:00	PCTS NF-1	200009918	1.94
4/10/2003 2:00	PCTS NF-1	200037521	1.94
4/11/2003 2:00	PCTS NF-1	200037694	1.94
9/8/2003 2:00	PCTS NF-1	200064618	1.94
9/10/2003 2:00	PCTS NF-1	200064941	1.94
12/4/2002 2:00	PCTS NF-1	200014647	1.95
7/1/2003 2:00	PCTS NF-1	200052295	1.95
8/10/2003 2:00	PCTS NF-1	200059307	1.95
8/22/2003 2:00	PCTS NF-1	200061403	1.95
8/23/2003 2:00	PCTS NF-1	200061596	1.95
9/4/2003 2:00	PCTS NF-1	200063815	1.95
9/26/2003 2:00	PCTS NF-1	200067874	1.95
10/8/2002 2:00	PCTS NF-1	200005425	1.96
6/14/2003 2:00	PCTS NF-1	200049220	1.96
6/23/2003 2:00	PCTS NF-1	200050875	1.96
12/11/2002 2:00	PCTS NF-1	200015769	1.97
12/30/2002 2:00	PCTS NF-1	200019111	1.97
3/25/2003 2:00	PCTS NF-1	200034704	1.97
4/9/2003 2:00	PCTS NF-1	200037344	1.97
6/28/2003 2:00	PCTS NF-1	200051767	1.97
6/29/2003 2:00	PCTS NF-1	200051933	1.97
8/9/2003 2:00	PCTS NF-1	200059103	1.97
8/20/2003 2:00	PCTS NF-1	200061038	1.97

Sample Date/Time	User Sample ID	Sample ID	PH
12/10/2002 2:00	PCTS NF-1	200015632	1.98
1/4/2003 2:00	PCTS NF-1	200019990	1.98
1/7/2003 2:00	PCTS NF-1	200020600	1.98
8/21/2003 2:00	PCTS NF-1	200061223	1.98
11/26/2002 2:00	PCTS NF-1	200013370	1.99
12/21/2002 2:00	PCTS NF-1	200017589	1.99
3/26/2003 2:00	PCTS NF-1	200034871	1.99
5/23/2003 2:00	PCTS NF-1	200045108	1.99
11/9/2002 2:00	PCTS NF-1	200010576	2.00
12/26/2002 2:00	PCTS NF-1	200018436	2.00
1/31/2003 2:00	PCTS NF-1	200024943	2.00
11/19/2002 2:00	PCTS NF-1	200012242	2.01
12/25/2002 2:00	PCTS NF-1	200018212	2.01
6/13/2003 2:00	PCTS NF-1	200049036	2.01
8/27/2003 2:00	PCTS NF-1	200062284	2.01
9/5/2003 2:00	PCTS NF-1	200064029	2.01
9/16/2002 2:00	PCTS NF-1	200002013	2.02
9/18/2002 2:00	PCTS NF-1	200002331	2.02
11/14/2002 2:00	PCTS NF-1	200011427	2.02
12/2/2002 2:00	PCTS NF-1	200014340	2.02
12/27/2002 2:00	PCTS NF-1	200018588	2.02
9/27/2003 2:00	PCTS NF-1	200068046	2.02
1/1/2003 2:00	PCTS NF-1	200019438	2.03
9/15/2003 2:00	PCTS NF-1	200065894	2.03
10/8/2003 2:00	PCTS NF-1	200069928	2.03
1/6/2003 2:00	PCTS NF-1	200020434	2.04
4/16/2003 2:00	PCTS NF-1	200038593	2.04
4/18/2003 2:00	PCTS NF-1	200039030	2.04
5/30/2003 2:00	PCTS NF-1	200046438	2.04
5/31/2003 2:00	PCTS NF-1	200046638	2.04
6/24/2003 2:00	PCTS NF-1	200051025	2.04
8/16/2003 2:00	PCTS NF-1	200060366	2.04
11/17/2002 2:00	PCTS NF-1	200011939	2.05
12/3/2002 2:00	PCTS NF-1	200014504	2.05
12/14/2002 2:00	PCTS NF-1	200016324	2.05
12/31/2002 2:00	PCTS NF-1	200019267	2.05
6/4/2003 2:00	PCTS NF-1	200047357	2.05
6/12/2003 2:00	PCTS NF-1	200048826	2.05
8/12/2003 2:00	PCTS NF-1	200059648	2.05
9/13/2003 2:00	PCTS NF-1	200065513	2.05
4/12/2003 2:00	PCTS NF-1	200037880	2.06
6/2/2003 2:00	PCTS NF-1	200047036	2.06
8/26/2003 2:00	PCTS NF-1	200062129	2.06
8/30/2003 2:00	PCTS NF-1	200062939	2.06
9/9/2003 2:00	PCTS NF-1	200064778	2.06
9/25/2003 2:00	PCTS NF-1	200067668	2.06
10/2/2003 2:00	PCTS NF-1	200068909	2.06
12/20/2002 2:00	PCTS NF-1	200017419	2.07
1/3/2003 2:00	PCTS NF-1	200019789	2.07
3/19/2003 2:00	PCTS NF-1	200033565	2.07

Sample Date/Time	User Sample ID	Sample ID	PH
5/28/2003 2:00	PCTS NF-1	200046040	2.07
6/10/2003 2:00	PCTS NF-1	200048481	2.07
9/28/2003 2:00	PCTS NF-1	200068249	2.07
1/25/2003 2:00	PCTS NF-1	200023914	2.08
6/9/2003 2:00	PCTS NF-1	200048332	2.08
6/26/2003 2:00	PCTS NF-1	200051379	2.08
8/29/2003 2:00	PCTS NF-1	200062735	2.08
9/7/2003 2:00	PCTS NF-1	200064399	2.08
9/14/2003 2:00	PCTS NF-1	200065715	2.08
1/18/2003 2:00	PCTS NF-1	200022640	2.09
2/25/2003 2:00	PCTS NF-1	200029630	2.09
8/19/2003 2:00	PCTS NF-1	200060874	2.09
8/25/2003 2:00	PCTS NF-1	200061969	2.09
8/31/2003 2:00	PCTS NF-1	200063105	2.09
9/30/2003 2:00	PCTS NF-1	200068588	2.09
3/22/2003 2:00	PCTS NF-1	200034237	2.10
4/25/2003 2:00	PCTS NF-1	200040206	2.10
6/15/2003 2:00	PCTS NF-1	200049412	2.10
11/18/2002 2:00	PCTS NF-1	200012095	2.11
12/1/2002 2:00	PCTS NF-1	200014181	2.11
10/1/2003 2:00	PCTS NF-1	200068746	2.11
1/19/2003 2:00	PCTS NF-1	200022886	2.12
5/26/2003 2:00	PCTS NF-1	200045720	2.12
5/29/2003 2:00	PCTS NF-1	200046209	2.12
8/24/2003 2:00	PCTS NF-1	200061788	2.12
9/1/2003 2:00	PCTS NF-1	200063308	2.12
9/12/2003 2:00	PCTS NF-1	200065346	2.12
1/20/2003 2:00	PCTS NF-1	200023076	2.13
1/22/2003 2:00	PCTS NF-1	200023393	2.13
3/11/2003 2:00	PCTS NF-1	200032123	2.13
4/22/2003 2:00	PCTS NF-1	200039672	2.13
5/17/2003 2:00	PCTS NF-1	200044067	2.13
7/2/2003 2:00	PCTS NF-1	200052445	2.13
9/29/2003 2:00	PCTS NF-1	200068430	2.13
10/3/2003 2:00	PCTS NF-1	200069091	2.13
11/16/2002 2:00	PCTS NF-1	200011749	2.14
1/24/2003 2:00	PCTS NF-1	200023729	2.14
3/13/2003 2:00	PCTS NF-1	200032442	2.14
5/6/2003 2:00	PCTS NF-1	200042098	2.14
8/1/2003 2:00	PCTS NF-1	200057522	2.14
1/17/2003 2:00	PCTS NF-1	200022478	2.15
12/15/2002 2:00	PCTS NF-1	200016501	2.16
4/14/2003 2:00	PCTS NF-1	200038259	2.16
6/7/2003 2:00	PCTS NF-1	200047945	2.16
1/21/2003 2:00	PCTS NF-1	200023234	2.17
3/4/2003 2:00	PCTS NF-1	200030962	2.17
3/10/2003 2:00	PCTS NF-1	200031984	2.17
4/27/2003 2:00	PCTS NF-1	200040539	2.17
6/11/2003 2:00	PCTS NF-1	200048646	2.17
9/17/2003 2:00	PCTS NF-1	200066219	2.17
12/16/2002 2:00	PCTS NF-1	200016726	2.18

Sample Date/Time	User Sample ID	Sample ID	PH
12/29/2002 2:00	PCTS NF-1	200018905	2.18
3/12/2003 2:00	PCTS NF-1	200032260	2.18
5/27/2003 2:00	PCTS NF-1	200045875	2.18
6/3/2003 2:00	PCTS NF-1	200047188	2.18
8/4/2003 2:00	PCTS NF-1	200058096	2.18
9/23/2003 2:00	PCTS NF-1	200067306	2.18
9/24/2003 2:00	PCTS NF-1	200067493	2.18
10/5/2003 2:00	PCTS NF-1	200069434	2.18
2/24/2003 2:00	PCTS NF-1	200029480	2.19
1/16/2003 2:00	PCTS NF-1	200022313	2.20
3/17/2003 2:00	PCTS NF-1	200033212	2.20
4/23/2003 2:00	PCTS NF-1	200039824	2.20
4/26/2003 2:00	PCTS NF-1	200040363	2.20
6/8/2003 2:00	PCTS NF-1	200048161	2.20
6/27/2003 2:00	PCTS NF-1	200051557	2.20
3/16/2003 2:00	PCTS NF-1	200033013	2.21
3/31/2003 2:00	PCTS NF-1	200035821	2.21
4/19/2003 2:00	PCTS NF-1	200039199	2.21
5/4/2003 2:00	PCTS NF-1	200041750	2.21
2/19/2003 2:00	PCTS NF-1	200028541	2.22
4/20/2003 2:00	PCTS NF-1	200039356	2.22
10/7/2003 2:00	PCTS NF-1	200069769	2.22
11/15/2002 2:00	PCTS NF-1	200011591	2.23
1/5/2003 2:00	PCTS NF-1	200020219	2.23
1/9/2003 2:00	PCTS NF-1	200021014	2.23
2/27/2003 2:00	PCTS NF-1	200029997	2.23
3/20/2003 2:00	PCTS NF-1	200033862	2.23
4/21/2003 2:00	PCTS NF-1	200039520	2.23
5/5/2003 2:00	PCTS NF-1	200041941	2.23
5/24/2003 2:00	PCTS NF-1	200045295	2.23
8/2/2003 2:00	PCTS NF-1	200057682	2.23
12/28/2002 2:00	PCTS NF-1	200018741	2.24
3/24/2003 2:00	PCTS NF-1	200034562	2.24
3/28/2003 2:00	PCTS NF-1	200035251	2.24
4/6/2003 2:00	PCTS NF-1	200036841	2.24
4/7/2003 2:00	PCTS NF-1	200037012	2.24
5/1/2003 2:00	PCTS NF-1	200041209	2.24
12/17/2002 2:00	PCTS NF-1	200016896	2.25
1/2/2003 2:00	PCTS NF-1	200019611	2.25
3/18/2003 2:00	PCTS NF-1	200033353	2.25
7/6/2003 2:00	PCTS NF-1	200053236	2.25
1/8/2003 2:00	PCTS NF-1	200020781	2.26
1/23/2003 2:00	PCTS NF-1	200023558	2.26
3/7/2003 2:00	PCTS NF-1	200031452	2.26
5/18/2003 2:00	PCTS NF-1	200044218	2.26
6/17/2003 2:00	PCTS NF-1	200049761	2.26
9/16/2003 2:00	PCTS NF-1	200066050	2.26
9/22/2003 2:00	PCTS NF-1	200067149	2.26
3/2/2003 2:00	PCTS NF-1	200030631	2.27
3/6/2003 2:00	PCTS NF-1	200031296	2.27

Sample Date/Time	User Sample ID	Sample ID	PH
4/24/2003 2:00	PCTS NF-1	200040001	2.27
5/11/2003 2:00	PCTS NF-1	200043033	2.27
8/8/2003 2:00	PCTS NF-1	200058874	2.27
12/18/2002 2:00	PCTS NF-1	200017042	2.28
3/9/2003 2:00	PCTS NF-1	200031777	2.28
4/30/2003 2:00	PCTS NF-1	200041027	2.28
5/8/2003 2:00	PCTS NF-1	200042458	2.28
9/20/2003 2:00	PCTS NF-1	200066784	2.28
7/28/2003 2:00	PCTS NF-1	200056843	2.29
12/19/2002 2:00	PCTS NF-1	200017207	2.30
5/3/2003 2:00	PCTS NF-1	200041567	2.30
6/22/2003 2:00	PCTS NF-1	200050695	2.30
8/3/2003 2:00	PCTS NF-1	200057894	2.30
8/7/2003 2:00	PCTS NF-1	200058658	2.30
2/1/2003 2:00	PCTS NF-1	200025105	2.31
2/26/2003 2:00	PCTS NF-1	200029791	2.31
3/5/2003 2:00	PCTS NF-1	200031121	2.31
3/8/2003 2:00	PCTS NF-1	200031609	2.31
1/26/2003 2:00	PCTS NF-1	200024120	2.32
7/31/2003 2:00	PCTS NF-1	200057331	2.32
9/21/2003 2:00	PCTS NF-1	200066980	2.32
3/21/2003 2:00	PCTS NF-1	200034068	2.33
5/10/2003 2:00	PCTS NF-1	200042811	2.33
5/21/2003 2:00	PCTS NF-1	200044745	2.33
6/16/2003 2:00	PCTS NF-1	200049607	2.33
5/19/2003 2:00	PCTS NF-1	200044433	2.34
5/25/2003 2:00	PCTS NF-1	200045507	2.34
6/19/2003 2:00	PCTS NF-1	200050127	2.34
10/4/2003 2:00	PCTS NF-1	200069259	2.34
3/15/2003 2:00	PCTS NF-1	200032835	2.35
3/1/2003 2:00	PCTS NF-1	200030451	2.36
3/3/2003 2:00	PCTS NF-1	200030812	2.36
8/6/2003 2:00	PCTS NF-1	200058434	2.36
3/23/2003 2:00	PCTS NF-1	200034396	2.37
5/7/2003 2:00	PCTS NF-1	200042253	2.37
3/14/2003 2:00	PCTS NF-1	200032629	2.38
5/9/2003 2:00	PCTS NF-1	200042632	2.38
5/12/2003 2:00	PCTS NF-1	200043232	2.38
7/30/2003 2:00	PCTS NF-1	200057155	2.38
8/5/2003 2:00	PCTS NF-1	200058254	2.38
9/18/2003 2:00	PCTS NF-1	200066399	2.39
1/15/2003 2:00	PCTS NF-1	200022133	2.40
3/30/2003 2:00	PCTS NF-1	200035639	2.40
4/28/2003 2:00	PCTS NF-1	200040707	2.40
4/29/2003 2:00	PCTS NF-1	200040862	2.40
7/8/2003 2:00	PCTS NF-1	200053554	2.40
9/19/2003 2:00	PCTS NF-1	200066613	2.40
5/20/2003 2:00	PCTS NF-1	200044585	2.41
2/23/2003 2:00	PCTS NF-1	200029278	2.43
2/20/2003 2:00	PCTS NF-1	200028718	2.46

Sample Date/Time	User Sample ID	Sample ID	PH
3/29/2003 2:00	PCTS NF-1	200035445	2.48
1/29/2003 2:00	PCTS NF-1	200024581	2.53
2/22/2003 2:00	PCTS NF-1	200029081	2.54
1/28/2003 2:00	PCTS NF-1	200024433	2.58
2/21/2003 2:00	PCTS NF-1	200028885	2.60
7/3/2003 2:00	PCTS NF-1	200052672	2.62
1/27/2003 2:00	PCTS NF-1	200024294	2.66
1/30/2003 2:00	PCTS NF-1	200024777	2.69
7/4/2003 2:00	PCTS NF-1	200052866	2.72
11/1/2002 2:00	PCTS NF-1	200009274	3.00
7/5/2003 2:00	PCTS NF-1	200053061	3.19
5/16/2003 2:00	PCTS NF-1	200043898	4.34
7/27/2003 2:00	PCTS NF-1	200056683	11.78
1/10/2003 2:00	PCTS NF-1	200021684	2.29
9/13/2004 12:24	Phos Ditch Water	200094238	6.32
10/20/2002 12:00	Phos ground leak	200007683	1.82
5/5/2003 10:00	PPA Cooling Tower	200042699	7.80
7/28/2003 8:46	PPA Vent Scrubber	200057215	7.16
4/30/2004 15:16	PPA Water Line	200083738	6.74
4/6/2003 14:00	Process Condensate	200037406	2.22
5/14/2005 13:09	Reclaim Water Buildup	200110477	9.18
5/5/2003 10:00	Sulfuric Acid Cooling Tower	200042700	7.80
9/10/2002 11:00	Tk 51 Wash out	200001452	0.75
4/6/2003 14:00	Wash Water	200037404	12.24
4/30/2004 18:56	Well #9	200083741	1.73
4/16/2004 15:47	Well #9	200082632	2.29
5/16/2003 9:15	West #3 Pond Seep	200044289	1.76

Sample Date/Time	User Sample ID	Sample ID	Fluoride, ppm	Fluoride, %
6/16/2003 14:25	#4 H2O wash sol.	200050034	41.0	
5/12/2005 13:00	#5 Evap Boil Out Sample # 2	200110331		3.71
5/12/2005 13:00	#5 Evap Boil Out Sample # 3	200110332		3.35
5/12/2005 13:00	#5 Evap Boil Out Sample # 4	200110333		3.20
5/12/2005 13:00	#5 Evap Boil Out Sample # 5	200110334		3.19
5/12/2005 13:00	#5 Evap Boil Out Sample # 6	200110335		3.00
5/12/2005 13:00	#5 Evap Boil Out Sample # 7	200110336		2.94
5/12/2005 13:00	#5 Evap Boil Out Sample # 8	200110337		3.03
4/8/2005 9:55	#7 Evap Boil Out 4/7/05 Sample #2	200107860		1.54
4/8/2005 9:55	#7 Evap Boil Out 4/7/05 Sample #3	200107861		1.47
4/8/2005 9:55	#7 Evap Boil Out 4/7/05 Sample #4	200107862		1.47
4/8/2005 9:55	#7 Evap Boil Out 4/7/05 Sample #5	200107863		1.44
4/8/2005 9:55	#7 Evap Boil Out 4/7/05 Sample #6	200107864		1.43
4/8/2005 9:55	#7 Evap Boil Out 4/7/05 Sample #7	200107865		1.44
4/8/2005 9:55	#7 Evap Boil Out 4/7/05 Sample #8	200107866		1.44
5/31/2005 8:21	#7 Evap Boil Out- Sample #2	200111645		1.00
5/31/2005 8:21	#7 Evap Boil Out- Sample #3	200111646		1.46
5/31/2005 8:21	#7 Evap Boil Out- Sample #4	200111647		2.93
5/31/2005 8:21	#7 Evap Boil Out- Sample #5	200111648		2.07
5/31/2005 8:21	#7 Evap Boil Out- Sample #6	200111649		2.41
5/31/2005 8:21	#7 Evap Boil Out- Sample #7	200111650		2.54
5/31/2005 8:21	#7 Evap Boil Out- Sample #8	200111651		2.61
5/31/2005 8:21	#7 Evap Boil Out- Sample #9	200111652		2.19
3/28/2005 13:49	#7 Evap Sample #10	200107123	12668.2	
3/28/2005 13:49	#7 Evap Sample #2	200107115	12210.1	
3/28/2005 13:49	#7 Evap Sample #3	200107116	12361.0	
3/28/2005 13:49	#7 Evap Sample #4	200107117	12454.2	
3/28/2005 13:49	#7 Evap Sample #5	200107118	12631.0	
3/28/2005 13:49	#7 Evap Sample #6	200107119	12447.4	
3/28/2005 13:49	#7 Evap Sample #7	200107120	12359.1	
3/28/2005 13:49	#7 Evap Sample #8	200107121	12491.0	
3/28/2005 13:49	#7 Evap Sample #9	200107122	12488.9	
4/19/2005 9:34	#8 Evap boil out Sample #2	200108651		1.32
4/19/2005 9:34	#8 Evap boil out Sample #3	200108652		1.54
4/19/2005 9:34	#8 Evap boil out Sample #4	200108653		1.60
4/19/2005 9:34	#8 Evap boil out Sample #5	200108654		1.55
4/19/2005 9:34	#8 Evap boil out Sample #6	200108655		1.52
4/19/2005 9:34	#8 Evap boil out Sample #7	200108656		1.47
4/19/2005 9:34	#8 Evap boil out Sample #8	200108657		1.47
4/19/2005 9:34	#8 Evap boil out Sample #9	200108658		1.43
5/12/2005 13:06	#9 Well Water 5/12/2005	200110338		0.03
5/7/2003 13:57	4/13 Process Condensate	200042703	330.0	
5/7/2003 13:57	4/16 Process Condensate	200042704	910.0	
5/7/2003 13:57	4/17 Process Condensate	200042705	881.0	
5/7/2003 13:57	4/18 Process Condensate	200042706	930.0	
5/7/2003 13:57	4/19 Process Condensate	200042707	697.0	
5/7/2003 13:57	4/20 Process Condensate	200042708	793.0	
5/7/2003 13:57	5/1 Process Condensate	200042709	749.0	
9/11/2002 10:00	52 PROCESS COND	200001570		2.68
7/1/2003 2:00	52 PROCESS COND	200052591		0.00
1/20/2003 2:00	52% Proc Cond	200023305		2.73

Sample Date/Time	User Sample ID	Sample ID	Fluoride, ppm	Fluoride, %
9/4/2002 2:00	52% PROCESS COND.	200000188		2.62
9/5/2002 2:00	52% PROCESS COND.	200000318		0.94
9/6/2002 2:00	52% PROCESS COND.	200000543		1.93
9/9/2002 2:00	52% PROCESS COND.	200000969		0.02
9/10/2002 2:00	52% PROCESS COND.	200001082		0.01
9/11/2002 2:00	52% PROCESS COND.	200001213		37.95
9/12/2002 2:00	52% PROCESS COND.	200001354		0.04
9/15/2002 2:00	52% PROCESS COND.	200001816		3.04
9/16/2002 2:00	52% PROCESS COND.	200001992		0.06
9/17/2002 2:00	52% PROCESS COND.	200002164		0.28
9/18/2002 2:00	52% PROCESS COND.	200002310		2.74
9/19/2002 2:00	52% PROCESS COND.	200002472		0.77
9/20/2002 2:00	52% PROCESS COND.	200002617		2.74
9/21/2002 2:00	52% PROCESS COND.	200002763		3.24
9/22/2002 2:00	52% PROCESS COND.	200002985		3.29
9/23/2002 2:00	52% PROCESS COND.	200003146		2.82
9/24/2002 2:00	52% PROCESS COND.	200003281		2.71
9/25/2002 2:00	52% PROCESS COND.	200003431		0.09
9/26/2002 2:00	52% PROCESS COND.	200003596		0.09
9/27/2002 2:00	52% PROCESS COND.	200003754		2.82
9/28/2002 2:00	52% PROCESS COND.	200003900		1.15
9/29/2002 2:00	52% PROCESS COND.	200004039		0.06
10/6/2002 2:00	52% PROCESS COND.	200005122		3.08
10/8/2002 2:00	52% PROCESS COND.	200005404		3.22
10/9/2002 2:00	52% PROCESS COND.	200005549		2.63
10/10/2002 2:00	52% PROCESS COND.	200005701		0.10
10/11/2002 2:00	52% PROCESS COND.	200005850		0.11
10/12/2002 2:00	52% PROCESS COND.	200006003		2.48
10/13/2002 2:00	52% PROCESS COND.	200006143		0.09
10/14/2002 2:00	52% PROCESS COND.	200006318		0.09
10/15/2002 2:00	52% PROCESS COND.	200006467		0.04
10/16/2002 2:00	52% PROCESS COND.	200006612		0.05
10/18/2002 2:00	52% PROCESS COND.	200006926		0.44
10/19/2002 2:00	52% PROCESS COND.	200007117		0.63
10/20/2002 2:00	52% PROCESS COND.	200007256		0.31
10/23/2002 2:00	52% PROCESS COND.	200007762		4.22
10/24/2002 2:00	52% PROCESS COND.	200007930		3.34
10/25/2002 2:00	52% PROCESS COND.	200008131		0.42
10/26/2002 2:00	52% PROCESS COND.	200008291		0.03
10/27/2002 2:00	52% PROCESS COND.	200008451		0.41
10/28/2002 2:00	52% PROCESS COND.	200008605		0.05
10/29/2002 2:00	52% PROCESS COND.	200008745		0.09
10/30/2002 2:00	52% PROCESS COND.	200008870		0.06
10/31/2002 2:00	52% PROCESS COND.	200009014		0.04
11/1/2002 2:00	52% PROCESS COND.	200009253		0.06
11/2/2002 2:00	52% PROCESS COND.	200009428		4.06
11/3/2002 2:00	52% PROCESS COND.	200009594		0.60
11/4/2002 2:00	52% PROCESS COND.	200009758		3.08
11/5/2002 2:00	52% PROCESS COND.	200009897		3.20
11/6/2002 2:00	52% PROCESS COND.	200010039		3.62
11/7/2002 2:00	52% PROCESS COND.	200010191		4.22

Sample Date/Time	User Sample ID	Sample ID	Fluoride, ppm	Fluoride, %
11/8/2002 2:00	52% PROCESS COND.	200010379		3.69
11/9/2002 2:00	52% PROCESS COND.	200010555		0.04
11/10/2002 2:00	52% PROCESS COND.	200010707		0.04
11/11/2002 2:00	52% PROCESS COND.	200010904		0.09
11/18/2002 2:00	52% PROCESS COND.	200012074		2.50
11/19/2002 2:00	52% PROCESS COND.	200012221		3.32
11/20/2002 2:00	52% PROCESS COND.	200012372		4.12
11/24/2002 2:00	52% PROCESS COND.	200013031		0.07
11/25/2002 2:00	52% PROCESS COND.	200013196		0.05
11/26/2002 2:00	52% PROCESS COND.	200013349		0.02
11/27/2002 2:00	52% PROCESS COND.	200013491		0.01
11/28/2002 2:00	52% PROCESS COND.	200013650		0.02
11/29/2002 2:00	52% PROCESS COND.	200013855		0.03
11/30/2002 2:00	52% PROCESS COND.	200014022		0.00
12/1/2002 2:00	52% PROCESS COND.	200014160		0.02
12/2/2002 2:00	52% PROCESS COND.	200014319		3.56
12/3/2002 2:00	52% PROCESS COND.	200014483		3.80
12/4/2002 2:00	52% PROCESS COND.	200014626		3.72
12/5/2002 2:00	52% PROCESS COND.	200014794		3.72
12/7/2002 2:00	52% PROCESS COND.	200015145		0.03
12/8/2002 2:00	52% PROCESS COND.	200015284		0.02
12/10/2002 2:00	52% PROCESS COND.	200015611		0.04
12/11/2002 2:00	52% PROCESS COND.	200015748		0.04
12/12/2002 2:00	52% PROCESS COND.	200015931		0.12
12/13/2002 2:00	52% PROCESS COND.	200016104		0.05
12/14/2002 2:00	52% PROCESS COND.	200016303		0.55
12/15/2002 2:00	52% PROCESS COND.	200016480		0.02
12/17/2002 2:00	52% PROCESS COND.	200016875		2.57
12/18/2002 2:00	52% PROCESS COND.	200017021		2.70
12/20/2002 2:00	52% PROCESS COND.	200017398		2.70
12/21/2002 2:00	52% PROCESS COND.	200017568		2.13
12/22/2002 2:00	52% PROCESS COND.	200017736		2.40
12/25/2002 2:00	52% PROCESS COND.	200018191		0.01
12/26/2002 2:00	52% PROCESS COND.	200018415		0.00
12/27/2002 2:00	52% PROCESS COND.	200018567		0.00
12/28/2002 2:00	52% PROCESS COND.	200018720		0.01
12/29/2002 2:00	52% PROCESS COND.	200018884		0.01
12/30/2002 2:00	52% PROCESS COND.	200019090		0.01
1/1/2003 2:00	52% PROCESS COND.	200019417		2.53
1/2/2003 2:00	52% PROCESS COND.	200019590		2.73
1/3/2003 2:00	52% PROCESS COND.	200019768		2.74
1/4/2003 2:00	52% PROCESS COND.	200019969		2.71
1/5/2003 2:00	52% PROCESS COND.	200020198		3.03
1/6/2003 2:00	52% PROCESS COND.	200020413		3.30
1/7/2003 2:00	52% PROCESS COND.	200020579		2.32
1/8/2003 2:00	52% PROCESS COND.	200020760		2.55
1/9/2003 2:00	52% PROCESS COND.	200020993		0.01
1/10/2003 2:00	52% PROCESS COND.	200021187		2.21
1/17/2003 2:00	52% PROCESS COND.	200022457		0.50
1/18/2003 2:00	52% PROCESS COND.	200022619		1.94

Sample Date/Time	User Sample ID	Sample ID	Fluoride, ppm	Fluoride, %
1/19/2003 2:00	52% PROCESS COND.	200022865		2.34
1/20/2003 2:00	52% PROCESS COND.	200023055		2.73
1/21/2003 2:00	52% PROCESS COND.	200023213		2.80
1/22/2003 2:00	52% PROCESS COND.	200023372		2.91
1/23/2003 2:00	52% PROCESS COND.	200023537		2.67
1/24/2003 2:00	52% PROCESS COND.	200023708		0.02
1/25/2003 2:00	52% PROCESS COND.	200023893		0.17
1/26/2003 2:00	52% PROCESS COND.	200024099		0.44
1/27/2003 2:00	52% PROCESS COND.	200024273		2.49
1/30/2003 2:00	52% PROCESS COND.	200024756		2.80
1/31/2003 2:00	52% PROCESS COND.	200024922		2.93
2/1/2003 2:00	52% PROCESS COND.	200025084		2.76
2/2/2003 2:00	52% PROCESS COND.	200025265		2.48
2/3/2003 2:00	52% PROCESS COND.	200025465		2.68
2/16/2003 2:00	52% PROCESS COND.	200028053		0.02
2/18/2003 2:00	52% PROCESS COND.	200028375		2.29
2/19/2003 2:00	52% PROCESS COND.	200028520		2.91
2/20/2003 2:00	52% PROCESS COND.	200028697		2.32
2/21/2003 2:00	52% PROCESS COND.	200028864		2.94
2/22/2003 2:00	52% PROCESS COND.	200029060		2.61
2/23/2003 2:00	52% PROCESS COND.	200029257		0.57
2/24/2003 2:00	52% PROCESS COND.	200029459		0.00
2/25/2003 2:00	52% PROCESS COND.	200029609		0.00
2/26/2003 2:00	52% PROCESS COND.	200029770		0.00
2/27/2003 2:00	52% PROCESS COND.	200029976		2.59
3/1/2003 2:00	52% PROCESS COND.	200030431		0.01
3/2/2003 2:00	52% PROCESS COND.	200030611		2.56
3/3/2003 2:00	52% PROCESS COND.	200030792		2.51
3/4/2003 2:00	52% PROCESS COND.	200030942		2.92
3/5/2003 2:00	52% PROCESS COND.	200031101		2.53
3/6/2003 2:00	52% PROCESS COND.	200031276		2.72
3/7/2003 2:00	52% PROCESS COND.	200031432		2.59
3/8/2003 2:00	52% PROCESS COND.	200031589		2.49
3/9/2003 2:00	52% PROCESS COND.	200031757		4.37
3/10/2003 2:00	52% PROCESS COND.	200031964		0.00
3/11/2003 2:00	52% PROCESS COND.	200032103		0.00
3/12/2003 2:00	52% PROCESS COND.	200032240		0.00
3/13/2003 2:00	52% PROCESS COND.	200032422		0.00
3/14/2003 2:00	52% PROCESS COND.	200032609		1.63
3/15/2003 2:00	52% PROCESS COND.	200032815		0.10
3/16/2003 2:00	52% PROCESS COND.	200032993		2.61
3/17/2003 2:00	52% PROCESS COND.	200033192		2.42
3/18/2003 2:00	52% PROCESS COND.	200033333		2.75
3/19/2003 2:00	52% PROCESS COND.	200033545		0.00
3/20/2003 2:00	52% PROCESS COND.	200033842		2.68
3/21/2003 2:00	52% PROCESS COND.	200034048		2.74
3/22/2003 2:00	52% PROCESS COND.	200034217		2.87
3/23/2003 2:00	52% PROCESS COND.	200034376		2.69
3/24/2003 2:00	52% PROCESS COND.	200034542		2.65
3/25/2003 2:00	52% PROCESS COND.	200034684		0.00

Sample Date/Time	User Sample ID	Sample ID	Fluoride, ppm	Fluoride, %
3/26/2003 2:00	52% PROCESS COND.	200034851		0.02
3/27/2003 2:00	52% PROCESS COND.	200035045		0.00
3/28/2003 2:00	52% PROCESS COND.	200035231		0.00
3/29/2003 2:00	52% PROCESS COND.	200035425		2.47
3/30/2003 2:00	52% PROCESS COND.	200035619		2.63
4/1/2003 2:00	52% PROCESS COND.	200035958		0.08
4/6/2003 2:00	52% PROCESS COND.	200036821		2.13
4/7/2003 2:00	52% PROCESS COND.	200036992		1.74
4/8/2003 2:00	52% PROCESS COND.	200037145		3.07
4/9/2003 2:00	52% PROCESS COND.	200037324		0.00
4/10/2003 2:00	52% PROCESS COND.	200037501		0.00
4/11/2003 2:00	52% PROCESS COND.	200037674		0.00
4/13/2003 2:00	52% PROCESS COND.	200038055		2.60
4/14/2003 2:00	52% PROCESS COND.	200038239		0.00
4/15/2003 2:00	52% PROCESS COND.	200038407		0.07
4/16/2003 2:00	52% PROCESS COND.	200038573		1.05
4/17/2003 2:00	52% PROCESS COND.	200038812		3.28
4/18/2003 2:00	52% PROCESS COND.	200039010		310.00
4/19/2003 2:00	52% PROCESS COND.	200039179		2.85
4/20/2003 2:00	52% PROCESS COND.	200039336		2.70
4/21/2003 2:00	52% PROCESS COND.	200039500		2.80
4/22/2003 2:00	52% PROCESS COND.	200039652		0.00
4/23/2003 2:00	52% PROCESS COND.	200039804		2.13
4/24/2003 2:00	52% PROCESS COND.	200039981		0.02
4/25/2003 2:00	52% PROCESS COND.	200040186		0.02
4/26/2003 2:00	52% PROCESS COND.	200040343		0.00
4/27/2003 2:00	52% PROCESS COND.	200040519		0.00
4/28/2003 2:00	52% PROCESS COND.	200040687		2.62
4/29/2003 2:00	52% PROCESS COND.	200040842		3.26
4/30/2003 2:00	52% PROCESS COND.	200041007		3.34
5/1/2003 2:00	52% PROCESS COND.	200041189		0.15
5/2/2003 2:00	52% PROCESS COND.	200041363		3.18
5/3/2003 2:00	52% PROCESS COND.	200041547		3.20
5/4/2003 2:00	52% PROCESS COND.	200041730		0.00
5/5/2003 2:00	52% PROCESS COND.	200041921		0.00
5/6/2003 2:00	52% PROCESS COND.	200042078		0.00
5/7/2003 2:00	52% PROCESS COND.	200042233		0.00
5/8/2003 2:00	52% PROCESS COND.	200042438		0.05
5/11/2003 2:00	52% PROCESS COND.	200043013		0.00
5/12/2003 2:00	52% PROCESS COND.	200043212		0.00
5/13/2003 2:00	52% PROCESS COND.	200043369		0.00
5/14/2003 2:00	52% PROCESS COND.	200043525		0.00
5/15/2003 2:00	52% PROCESS COND.	200043686		0.43
5/16/2003 2:00	52% PROCESS COND.	200043878		0.00
5/17/2003 2:00	52% PROCESS COND.	200044047		2.73
5/18/2003 2:00	52% PROCESS COND.	200044198		2.81
5/19/2003 2:00	52% PROCESS COND.	200044413		0.05
5/20/2003 2:00	52% PROCESS COND.	200044565		1.19
5/21/2003 2:00	52% PROCESS COND.	200044725		2.42
5/24/2003 2:00	52% PROCESS COND.	200045275		0.00
5/25/2003 2:00	52% PROCESS COND.	200045487		0.00

Sample Date/Time	User Sample ID	Sample ID	Fluoride, ppm	Fluoride, %
5/26/2003 2:00	52% PROCESS COND.	200045700		0.00
5/27/2003 2:00	52% PROCESS COND.	200045855		0.00
5/28/2003 2:00	52% PROCESS COND.	200046020		2.23
5/29/2003 2:00	52% PROCESS COND.	200046189		2.55
5/30/2003 2:00	52% PROCESS COND.	200046418		2.53
5/31/2003 2:00	52% PROCESS COND.	200046618		2.71
6/1/2003 2:00	52% PROCESS COND.	200046825		0.26
6/2/2003 2:00	52% PROCESS COND.	200047016		2.90
6/3/2003 2:00	52% PROCESS COND.	200047168		3.37
6/4/2003 2:00	52% PROCESS COND.	200047337		2.26
6/5/2003 2:00	52% PROCESS COND.	200047540		3.86
6/6/2003 2:00	52% PROCESS COND.	200047735		1.57
6/7/2003 2:00	52% PROCESS COND.	200047925		2.18
6/8/2003 2:00	52% PROCESS COND.	200048141		0.00
6/9/2003 2:00	52% PROCESS COND.	200048312		0.00
6/10/2003 2:00	52% PROCESS COND.	200048461		0.00
6/11/2003 2:00	52% PROCESS COND.	200048626		0.00
6/12/2003 2:00	52% PROCESS COND.	200048806		3.04
6/13/2003 2:00	52% PROCESS COND.	200049016		2.45
6/14/2003 2:00	52% PROCESS COND.	200049200		2.83
6/15/2003 2:00	52% PROCESS COND.	200049392		2.62
6/16/2003 2:00	52% PROCESS COND.	200049587		2.99
6/17/2003 2:00	52% PROCESS COND.	200049741		3.08
6/18/2003 2:00	52% PROCESS COND.	200049906		0.37
6/19/2003 2:00	52% PROCESS COND.	200050107		2.92
6/20/2003 2:00	52% PROCESS COND.	200050313		2.51
6/21/2003 2:00	52% PROCESS COND.	200050493		2.91
6/22/2003 2:00	52% PROCESS COND.	200050675		3.15
6/23/2003 2:00	52% PROCESS COND.	200050855		0.00
6/24/2003 2:00	52% PROCESS COND.	200051005		0.00
6/25/2003 2:00	52% PROCESS COND.	200051158		0.00
6/26/2003 2:00	52% PROCESS COND.	200051359		0.00
6/27/2003 2:00	52% PROCESS COND.	200051537		0.27
7/2/2003 2:00	52% PROCESS COND.	200052425		0.00
7/3/2003 2:00	52% PROCESS COND.	200052652		0.00
7/4/2003 2:00	52% PROCESS COND.	200052846		0.00
7/5/2003 2:00	52% PROCESS COND.	200053041		2.79
7/6/2003 2:00	52% PROCESS COND.	200053216		2.76
7/7/2003 2:00	52% PROCESS COND.	200053382		3.13
7/25/2003 2:00	52% PROCESS COND.	200056356		0.00
7/26/2003 2:00	52% PROCESS COND.	200056496		0.00
7/27/2003 2:00	52% PROCESS COND.	200056663		0.00
7/28/2003 2:00	52% PROCESS COND.	200056823		0.00
7/29/2003 2:00	52% PROCESS COND.	200056964		0.00
7/30/2003 2:00	52% PROCESS COND.	200057135		0.00
8/1/2003 2:00	52% PROCESS COND.	200057502		2.77
8/2/2003 2:00	52% PROCESS COND.	200057662		3.06
8/3/2003 2:00	52% PROCESS COND.	200057874		2.93
8/4/2003 2:00	52% PROCESS COND.	200058076		2.44
8/5/2003 2:00	52% PROCESS COND.	200058234		1.57
8/6/2003 2:00	52% PROCESS COND.	200058414		2.20

Sample Date/Time	User Sample ID	Sample ID	Fluoride, ppm	Fluoride, %
8/7/2003 2:00	52% PROCESS COND.	200058638		0.07
8/8/2003 2:00	52% PROCESS COND.	200058854		0.00
8/9/2003 2:00	52% PROCESS COND.	200059083		0.00
8/10/2003 2:00	52% PROCESS COND.	200059287		0.01
8/11/2003 2:00	52% PROCESS COND.	200059474		1.78
8/12/2003 2:00	52% PROCESS COND.	200059628		2.95
8/13/2003 2:00	52% PROCESS COND.	200059797		2.73
8/14/2003 2:00	52% PROCESS COND.	200059987		2.51
8/15/2003 2:00	52% PROCESS COND.	200060181		2.68
8/16/2003 2:00	52% PROCESS COND.	200060346		2.73
8/17/2003 2:00	52% PROCESS COND.	200060521		2.60
8/18/2003 2:00	52% PROCESS COND.	200060702		2.60
8/19/2003 2:00	52% PROCESS COND.	200060854		2.53
8/20/2003 2:00	52% PROCESS COND.	200061018		2.22
8/21/2003 2:00	52% PROCESS COND.	200061203		0.10
8/22/2003 2:00	52% PROCESS COND.	200061383		0.05
8/23/2003 2:00	52% PROCESS COND.	200061576		0.00
8/24/2003 2:00	52% PROCESS COND.	200061768		0.00
8/25/2003 2:00	52% PROCESS COND.	200061949		0.00
8/26/2003 2:00	52% PROCESS COND.	200062109		0.00
8/27/2003 2:00	52% PROCESS COND.	200062264		2.38
8/28/2003 2:00	52% PROCESS COND.	200062502		2.27
8/29/2003 2:00	52% PROCESS COND.	200062715		2.52
8/30/2003 2:00	52% PROCESS COND.	200062919		2.27
8/31/2003 2:00	52% PROCESS COND.	200063085		3.01
9/1/2003 2:00	52% PROCESS COND.	200063288		2.83
9/2/2003 2:00	52% PROCESS COND.	200063449		2.33
9/3/2003 2:00	52% PROCESS COND.	200063605		1.60
9/4/2003 2:00	52% PROCESS COND.	200063795		2.77
9/5/2003 2:00	52% PROCESS COND.	200064009		2.82
9/6/2003 2:00	52% PROCESS COND.	200064213		2.56
9/7/2003 2:00	52% PROCESS COND.	200064379		0.00
9/8/2003 2:00	52% PROCESS COND.	200064598		0.00
9/9/2003 2:00	52% PROCESS COND.	200064758		0.00
9/11/2003 2:00	52% PROCESS COND.	200065114		0.00
9/12/2003 2:00	52% PROCESS COND.	200065326		2.30
9/13/2003 2:00	52% PROCESS COND.	200065493		2.34
9/14/2003 2:00	52% PROCESS COND.	200065695		2.42
9/15/2003 2:00	52% PROCESS COND.	200065874		2.83
9/16/2003 2:00	52% PROCESS COND.	200066030		2.06
9/17/2003 2:00	52% PROCESS COND.	200066199		2.41
9/18/2003 2:00	52% PROCESS COND.	200066379		2.70
9/19/2003 2:00	52% PROCESS COND.	200066593		1.30
9/20/2003 2:00	52% PROCESS COND.	200066764		2.44
9/21/2003 2:00	52% PROCESS COND.	200066960		2.53
9/22/2003 2:00	52% PROCESS COND.	200067129		0.01
9/23/2003 2:00	52% PROCESS COND.	200067286		0.00
9/24/2003 2:00	52% PROCESS COND.	200067473		0.00
9/25/2003 2:00	52% PROCESS COND.	200067648		0.00
9/26/2003 2:00	52% PROCESS COND.	200067854		0.00
9/27/2003 2:00	52% PROCESS COND.	200068026		2.53

Sample Date/Time	User Sample ID	Sample ID	Fluoride, ppm	Fluoride, %
9/28/2003 2:00	52% PROCESS COND.	200068229		2.40
9/29/2003 2:00	52% PROCESS COND.	200068410		1.54
9/30/2003 2:00	52% PROCESS COND.	200068568		2.47
10/1/2003 2:00	52% PROCESS COND.	200068726		2.63
10/2/2003 2:00	52% PROCESS COND.	200068889		2.50
10/3/2003 2:00	52% PROCESS COND.	200069071		2.36
10/4/2003 2:00	52% PROCESS COND.	200069239		2.49
10/5/2003 2:00	52% PROCESS COND.	200069414		2.29
10/6/2003 2:00	52% PROCESS COND.	200069588		2.31
10/7/2003 2:00	52% PROCESS COND.	200069749		2.46
10/8/2003 2:00	52% PROCESS COND.	200069908		0.00
5/20/2005 0:00	A Evap boil out - Sample #2	200111168		0.99
5/20/2005 0:00	A Evap boil out - Sample #3	200111169		1.28
5/20/2005 0:00	A Evap boil out - Sample #4	200111170		1.33
5/20/2005 0:00	A Evap boil out - Sample #5	200111171		1.22
5/20/2005 0:00	A Evap boil out - Sample #6	200111172		1.17
5/20/2005 0:00	A Evap boil out - Sample #7	200111173		1.08
5/20/2005 0:00	A Evap boil out - Sample #8	200111174		1.12
6/1/2005 10:08	A Evap Boil Out Test 5/27/05 2hr.	200111730		2.84
6/1/2005 10:08	A Evap Boil Out Test 5/27/05 4hr.	200111731		3.18
6/1/2005 10:08	A Evap Boil Out Test 5/27/05 6hr.	200111732		3.15
6/1/2005 10:08	A Evap Boil Out Test 5/27/05 8hr.	200111733		3.04
6/1/2005 10:08	A Evap Boil Out Test 5/27/05 cool down	200111734		1.41
6/1/2005 10:08	A Evap Boil Out Test 5/27/05 Sample #2	200111727		0.95
6/1/2005 10:08	A Evap Boil Out Test 5/27/05 Sample #3	200111728		1.49
6/1/2005 10:08	A Evap Boil Out Test 5/27/05 Sample #4	200111729		3.27
9/14/2005 13:06	B EVAP	200119412		1.67
5/16/2005 11:25	B Evap Boil- 2 hrs.	200110631		3.83
5/16/2005 11:25	B Evap Boil- 30 min. into cool down	200110633		3.64
5/16/2005 11:25	B Evap Boil- 4 hr. end of boil	200110634		3.69
4/11/2005 13:01	B Evap boil out 4/8/05 Sample #2	200108065	15381.3	
4/11/2005 13:01	B Evap boil out 4/8/05 Sample #3	200108066	16920.8	
4/11/2005 13:01	B Evap boil out 4/8/05 Sample #4	200108067	16302.1	
4/11/2005 13:01	B Evap boil out 4/8/05 Sample #5	200108068	15683.9	
4/11/2005 13:01	B Evap boil out 4/8/05 Sample #6	200108069	14568.1	
4/11/2005 13:01	B Evap boil out 4/8/05 Sample #7	200108070	14384.3	
4/11/2005 13:01	B Evap boil out 4/8/05 Sample #8	200108071	14160.7	
3/30/2005 7:45	B Evap Boil Out Sample #10	200107235		1.26
3/30/2005 7:45	B Evap Boil Out Sample #2	200107227		1.22
3/30/2005 7:45	B Evap Boil Out Sample #3	200107228		1.48
3/30/2005 7:45	B Evap Boil Out Sample #4	200107229		1.36
3/30/2005 7:45	B Evap Boil Out Sample #5	200107230		1.30
3/30/2005 7:45	B Evap Boil Out Sample #6	200107231		1.29
3/30/2005 7:45	B Evap Boil Out Sample #7	200107232		1.22
3/30/2005 7:45	B Evap Boil Out Sample #8	200107233		1.25
3/30/2005 7:45	B Evap Boil Out Sample #9	200107234		1.26
5/16/2005 11:25	B Evap Boil- Sample #2	200110628		2.96
5/16/2005 11:25	B Evap Boil- Sample #3	200110629		3.64
5/16/2005 11:25	B Evap Boil- Sample #4	200110630		3.74
5/16/2005 11:25	B Evap Boil-150	200110632		3.85

Sample Date/Time	User Sample ID	Sample ID	Fluoride, ppm	Fluoride, %
4/27/2005 11:54	B Evap Boilout 4/26/05 Sample #2	200109220		3.76
4/27/2005 11:54	B Evap Boilout 4/26/05 Sample #3	200109221		3.80
4/27/2005 11:54	B Evap Boilout 4/26/05 Sample #5	200109222		3.64
4/27/2005 11:54	B Evap Boilout 4/26/05 Sample #6	200109223		3.70
4/27/2005 11:54	B Evap Boilout 4/26/05 Sample #7	200109224		3.74
4/27/2005 11:54	B Evap Boilout 4/26/05 Sample #8	200109225		3.92
9/14/2005 13:06	B EVAP DECANT	200119413		0.88
12/19/2002 10:00	BCLW	200018270	311016.0	
9/9/2002 6:00	CLCOMP	200000932		1.67
9/16/2002 6:00	CLCOMP	200001954		2.28
9/23/2002 6:00	CLCOMP	200003108		2.58
9/30/2002 6:00	CLCOMP	200004168		1.62
10/7/2002 6:00	CLCOMP	200005233		2.11
10/14/2002 6:00	CLCOMP	200006275		2.36
10/21/2002 6:00	CLCOMP	200007404		1.41
10/28/2002 6:00	CLCOMP	200008562		2.89
11/4/2002 6:00	CLCOMP	200009715		2.46
11/11/2002 6:00	CLCOMP	200010861		2.52
11/18/2002 6:00	CLCOMP	200012031		2.83
11/25/2002 6:00	CLCOMP	200013153		3.61
12/2/2002 6:00	CLCOMP	200014276		2.63
12/9/2002 6:00	CLCOMP	200015417		2.35
12/16/2002 6:00	CLCOMP	200016662		2.06
12/23/2002 6:00	CLCOMP	200017848		2.26
12/30/2002 6:00	CLCOMP	200019047		2.24
1/6/2003 6:00	CLCOMP	200020370		2.21
1/13/2003 6:00	CLCOMP	200021748		2.23
1/20/2003 6:00	CLCOMP	200023022		2.23
1/27/2003 6:00	CLCOMP	200024240		2.08
2/3/2003 6:00	CLCOMP	200025432		1.72
2/10/2003 6:00	CLCOMP	200026995		1.85
2/17/2003 6:00	CLCOMP	200028198		2.05
2/24/2003 6:00	CLCOMP	200029426		2.15
3/3/2003 6:00	CLCOMP	200030760		1.99
3/10/2003 6:00	CLCOMP	200031934		2.33
3/17/2003 6:00	CLCOMP	200033162		2.28
3/24/2003 6:00	CLCOMP	200034512		2.38
3/31/2003 6:00	CLCOMP	200035759		1.80
4/7/2003 6:00	CLCOMP	200036950		2.26
4/14/2003 6:00	CLCOMP	200038197		2.39
4/21/2003 6:00	CLCOMP	200039458		2.30
4/28/2003 6:00	CLCOMP	200040645		2.90
5/5/2003 6:00	CLCOMP	200041879		1.26
5/12/2003 6:00	CLCOMP	200043170		2.68
5/19/2003 6:00	CLCOMP	200044371		2.96
5/26/2003 6:00	CLCOMP	200045658		2.40
6/2/2003 6:00	CLCOMP	200046974		2.46
6/9/2003 6:00	CLCOMP	200048270		2.17
6/23/2003 6:00	CLCOMP	200050813		2.31
6/30/2003 6:00	CLCOMP	200052084		2.06
7/7/2003 6:00	CLCOMP	200053340		1.99

Sample Date/Time	User Sample ID	Sample ID	Fluoride, ppm	Fluoride, %
7/28/2003 6:00	CLCOMP	200056781		2.27
8/4/2003 6:00	CLCOMP	200058034		2.64
8/11/2003 6:00	CLCOMP	200059432		3.43
8/18/2003 6:00	CLCOMP	200060660		2.61
8/25/2003 6:00	CLCOMP	200061907		2.70
9/1/2003 6:00	CLCOMP	200063246		2.56
9/8/2003 6:00	CLCOMP	200064556		2.86
9/15/2003 6:00	CLCOMP	200065832		2.07
9/22/2003 6:00	CLCOMP	200067087		2.49
10/6/2003 6:00	CLCOMP	200069546		2.92
10/13/2003 6:00	CLCOMP	200070696		2.66
10/20/2003 6:00	CLCOMP	200071141		2.71
10/27/2003 6:00	CLCOMP	200071569		3.43
11/3/2003 6:00	CLCOMP	200071997		2.62
11/10/2003 6:00	CLCOMP	200072433		2.27
11/17/2003 6:00	CLCOMP	200072887		2.14
11/24/2003 6:00	CLCOMP	200073339		2.79
12/1/2003 6:00	CLCOMP	200073785		3.43
12/8/2003 6:00	CLCOMP	200074209		2.69
12/15/2003 6:00	CLCOMP	200074658		2.99
12/22/2003 6:00	CLCOMP	200075096		2.80
12/29/2003 6:00	CLCOMP	200075540		2.14
1/5/2004 6:00	CLCOMP	200075945		2.96
1/12/2004 6:00	CLCOMP	200076377		2.29
1/19/2004 6:00	CLCOMP	200076816		2.67
1/26/2004 6:00	CLCOMP	200077270		2.58
2/2/2004 6:00	CLCOMP	200077741		2.69
2/9/2004 6:00	CLCOMP	200078173		2.36
2/16/2004 6:00	CLCOMP	200078568		1.34
2/23/2004 6:00	CLCOMP	200079010		2.04
3/1/2004 6:00	CLCOMP	200079399		1.83
3/8/2004 6:00	CLCOMP	200079852		1.98
3/15/2004 6:00	CLCOMP	200080287		1.98
3/22/2004 6:00	CLCOMP	200080710		2.37
3/29/2004 6:00	CLCOMP	200081155		2.20
4/5/2004 6:00	CLCOMP	200081674		2.82
4/12/2004 6:00	CLCOMP	200082174		2.67
4/19/2004 6:00	CLCOMP	200082671		3.15
4/26/2004 6:00	CLCOMP	200083227		1.73
5/3/2004 6:00	CLCOMP	200083783		2.32
5/10/2004 6:00	CLCOMP	200084356		2.20
5/17/2004 6:00	CLCOMP	200084941		2.29
5/24/2004 6:00	CLCOMP	200085536		2.54
5/31/2004 6:00	CLCOMP	200086093		2.66
6/14/2004 6:00	CLCOMP	200087166		2.06
6/21/2004 6:00	CLCOMP	200087689		2.15
6/28/2004 6:00	CLCOMP	200088221		2.17
7/5/2004 6:00	CLCOMP	200088788		3.05
7/12/2004 6:00	CLCOMP	200089302		2.64
7/19/2004 6:00	CLCOMP	200089861		3.04

Sample Date/Time	User Sample ID	Sample ID	Fluoride, ppm	Fluoride, %
7/26/2004 6:00	CLCOMP	200090374		3.01
8/2/2004 6:00	CLCOMP	200090894		2.51
8/9/2004 6:00	CLCOMP	200091432		2.86
8/16/2004 6:00	CLCOMP	200091959		2.90
8/23/2004 6:00	CLCOMP	200092515		2.23
8/30/2004 6:00	CLCOMP	200093057		4.03
9/6/2004 6:00	CLCOMP	200093573		2.14
9/13/2004 6:00	CLCOMP	200094053		2.86
9/20/2004 6:00	CLCOMP	200094550		0.25
9/27/2004 6:00	CLCOMP	200095081		1.32
10/4/2004 6:00	CLCOMP	200095692		2.47
10/11/2004 6:00	CLCOMP	200096293		2.26
10/18/2004 6:00	CLCOMP	200096879		2.54
11/8/2004 6:00	CLCOMP	200098444		2.00
11/15/2004 6:00	CLCOMP	200098922		1.60
11/22/2004 6:00	CLCOMP	200099482		2.43
11/29/2004 6:00	CLCOMP	200099918		2.87
12/6/2004 6:00	CLCOMP	200100338		2.73
12/13/2004 6:00	CLCOMP	200100847		0.99
12/20/2004 6:00	CLCOMP	200101368		2.25
12/27/2004 6:00	CLCOMP	200101787		2.03
1/3/2005 6:00	CLCOMP	200102176		2.79
1/10/2005 6:00	CLCOMP	200102606		1.99
1/17/2005 6:00	CLCOMP	200102969		2.38
1/24/2005 6:00	CLCOMP	200103370		2.18
1/31/2005 6:00	CLCOMP	200103787		2.61
2/7/2005 6:00	CLCOMP	200104214		3.33
2/14/2005 6:00	CLCOMP	200104629		2.80
2/21/2005 6:00	CLCOMP	200105049		2.93
2/28/2005 6:00	CLCOMP	200105464		2.86
3/7/2005 6:00	CLCOMP	200105911		2.81
3/14/2005 6:00	CLCOMP	200106320		2.73
3/21/2005 6:00	CLCOMP	200106681		2.47
3/28/2005 6:00	CLCOMP	200107064		2.69
4/4/2005 6:00	CLCOMP	200107546		2.87
4/11/2005 6:00	CLCOMP	200108026		3.20
4/18/2005 6:00	CLCOMP	200108517		2.42
4/25/2005 6:00	CLCOMP	200109024		3.14
5/2/2005 6:00	CLCOMP	200109529		2.59
5/9/2005 6:00	CLCOMP	200110058		3.13
5/16/2005 6:00	CLCOMP	200110569		3.67
5/23/2005 6:00	CLCOMP	200111057		3.47
5/30/2005 6:00	CLCOMP	200111544		2.81
6/6/2005 6:00	CLCOMP	200112049		3.01
6/27/2005 6:00	CLCOMP	200113413		2.02
7/4/2005 6:00	CLCOMP	200113906		1.95
7/11/2005 6:00	CLCOMP	200114405		3.29
7/18/2005 6:00	CLCOMP	200114869		2.36
7/25/2005 6:00	CLCOMP	200115402		2.39
8/1/2005 6:00	CLCOMP	200116112		2.76
8/8/2005 6:00	CLCOMP	200116647		2.35

Sample Date/Time	User Sample ID	Sample ID	Fluoride, ppm	Fluoride, %
8/15/2005 6:00	CLCOMP	200117155		3.25
8/22/2005 6:00	CLCOMP	200117660		2.79
8/29/2005 6:00	CLCOMP	200118188		2.91
9/5/2005 6:00	CLCOMP	200118691		2.83
9/12/2005 6:00	CLCOMP	200119212		2.42
6/16/2003 6:00	CLOMP	200049837		2.29
9/29/2003 6:00	Closed Loop	200069164		2.97
9/3/2002 8:04	CLOSED LOOP COMP	200000251		1.65
11/1/2004 0:00	Closed Loop Comp	200098135	19869.1	
12/19/2002 10:00	CLW	200018269	339155.0	
2/19/2003 14:00	Coalescer Bleed	200028995		0.11
2/19/2003 14:00	Coalescer Exit	200028994		0.11
12/19/2002 10:00	Comp	200018268	307667.0	
4/23/2003 10:00	Composite Permeate	200040429	0.7	
7/27/2003 16:00	CONC 24-50	200057411	7134.0	
7/26/2003 16:00	CONC 27-0	200057405	15165.0	
7/26/2003 16:00	CONC 27-21	200057407	17276.0	
7/26/2003 16:00	CONC 27-7	200057406	15836.0	
7/27/2003 16:00	CONC 54-0	200057409	9381.0	
7/27/2003 16:00	CONC 54-20	200057410	9058.0	
1/21/2003 8:31	Fluoride Vent Scrubber	200023649	22.0	
11/22/2002 13:07	Fluoride Vent Scrubber FV1A	200013588	14.0	
11/22/2002 13:07	Fluoride Vent Scrubber FV1B	200013589	18.0	
11/22/2002 13:07	Fluoride Vent Scrubber FV2A	200013590	17.0	
11/22/2002 13:07	Fluoride Vent Scrubber FV2B	200013591	17.0	
1/27/2003 9:45	Fluoride Vent Scrubber Liq.1/27	200025032	22.0	
1/27/2003 9:45	Fluoride Vent Scrubber Liq.1/29	200025033	25.2	
9/19/2002 10:00	HK Permeate	200002826	5309.0	
9/19/2002 10:00	HK Permeate from 7/25/02	200002828	6861.0	
4/13/2003 15:25	NF Treated H2O tank	200043778	548.0	
4/6/2003 14:00	NF Treated Water Tk	200037405	227.0	
4/13/2003 15:25	NF1 Conc.	200043781	1125.0	
2/19/2003 14:00	NF1 Concentrate	200028993		0.11
2/19/2003 14:00	NF1 Feed	200028991		0.10
4/13/2003 15:25	NF1 Feed	200043779	1451.0	
4/13/2003 15:25	NF1 Perm.	200043780	915.0	
2/19/2003 14:00	NF1 permeate	200028992		0.09
4/6/2003 14:00	NF1B Concentrate	200037409	191.0	
4/6/2003 14:00	NF1B Feed	200037407	283.0	
4/6/2003 14:00	NF1B Permeate	200037408	240.0	
4/13/2003 15:26	NF2 Conc.	200043784	1288.0	
2/19/2003 14:00	NF2 Concentrate	200028998		0.10
4/6/2003 14:00	NF2 Concentrate	200037412	285.0	
2/19/2003 14:00	NF2 Feed	200028996		0.09
4/6/2003 14:00	NF2 Feed	200037410	367.0	
4/13/2003 15:25	NF2 Feed	200043782	797.0	
4/13/2003 15:25	NF2 Perm.	200043783	584.0	
2/19/2003 14:00	NF2 Permeate	200028997		0.09
4/6/2003 14:00	NF2 Permeate	200037411	270.0	
3/4/2003 8:00	NF-500	200031226	450.0	
3/4/2003 8:00	NF-Perm	200031227	318.0	

Sample Date/Time	User Sample ID	Sample ID	Fluoride, ppm	Fluoride, %
4/23/2003 10:00	P-20 Int. Permeate	200040425	1.0	
12/19/2002 10:00	PCLW	200018271	339388.0	
4/23/2003 10:00	PES-50H Int. Permeate	200040426	1.2	
9/3/2002 7:57	POND COMP	200000250		1.27
9/9/2002 6:00	POND COMP	200000930		1.35
9/16/2002 6:00	POND COMP	200001952		1.51
9/23/2002 6:00	POND COMP	200003106		1.56
9/30/2002 6:00	POND COMP	200004166		1.24
10/7/2002 6:00	POND COMP	200005231		1.63
10/14/2002 6:00	POND COMP	200006273		1.40
10/21/2002 6:00	POND COMP	200007402		2.66
10/28/2002 6:00	POND COMP	200008560		1.42
11/4/2002 6:00	POND COMP	200009713		1.43
11/11/2002 6:00	POND COMP	200010859		1.41
11/18/2002 6:00	POND COMP	200012029		1.28
11/25/2002 6:00	POND COMP	200013151		1.36
12/2/2002 6:00	POND COMP	200014274		1.21
12/9/2002 6:00	POND COMP	200015415		1.31
12/16/2002 6:00	POND COMP	200018337		1.19
12/23/2002 6:00	POND COMP	200018338		1.18
12/30/2002 6:00	POND COMP	200019045		1.22
1/6/2003 6:00	POND COMP	200020368		1.16
1/13/2003 6:00	POND COMP	200021746		1.17
1/20/2003 6:00	POND COMP	200023020		1.77
1/27/2003 6:00	POND COMP	200024238		1.19
2/3/2003 6:00	POND COMP	200025430		1.25
2/10/2003 6:00	POND COMP	200026993		1.31
2/17/2003 6:00	POND COMP	200028196		1.31
2/24/2003 6:00	POND COMP	200029424		1.28
3/3/2003 6:00	POND COMP	200030758		1.33
3/10/2003 6:00	POND COMP	200031932		1.29
3/17/2003 6:00	POND COMP	200033160		1.38
3/24/2003 6:00	POND COMP	200034510		1.44
3/31/2003 6:00	POND COMP	200035757		1.44
4/7/2003 6:00	POND COMP	200036948		1.41
4/14/2003 6:00	POND COMP	200038195		1.53
4/21/2003 6:00	POND COMP	200039456		1.50
4/28/2003 6:00	POND COMP	200040643		1.64
5/5/2003 6:00	POND COMP	200041877		2.80
5/12/2003 6:00	POND COMP	200043168		1.56
5/19/2003 6:00	POND COMP	200044369		1.53
5/26/2003 6:00	POND COMP	200045656		1.55
6/2/2003 6:00	POND COMP	200046972		1.53
6/9/2003 6:00	POND COMP	200048268		1.54
6/16/2003 6:00	POND COMP	200049543		1.68
6/23/2003 6:00	POND COMP	200050811		1.67
6/30/2003 6:00	POND COMP	200052082		1.68
7/7/2003 6:00	POND COMP	200053338		1.68
7/28/2003 6:00	POND COMP	200056779		1.48
8/4/2003 6:00	POND COMP	200058032		1.67
8/11/2003 6:00	POND COMP	200059430		2.04

Sample Date/Time	User Sample ID	Sample ID	Fluoride, ppm	Fluoride, %
8/18/2003 6:00	POND COMP	200060658		1.66
8/25/2003 6:00	POND COMP	200061905		1.79
9/1/2003 6:00	POND COMP	200063244		1.67
9/8/2003 6:00	POND COMP	200064554		1.72
9/15/2003 6:00	POND COMP	200065830		2.19
9/29/2003 6:00	Pond Comp	200069163		1.70
10/6/2003 6:00	POND COMP	200069544		1.69
10/13/2003 6:00	POND COMP	200070694		1.79
10/20/2003 6:00	POND COMP	200071139		1.86
10/27/2003 6:00	POND COMP	200071567		2.18
11/3/2003 6:00	POND COMP	200071995		1.85
11/10/2003 6:00	POND COMP	200072431		1.71
11/17/2003 6:00	POND COMP	200072885		1.56
11/24/2003 6:00	POND COMP	200073337		1.68
12/1/2003 6:00	POND COMP	200073783		1.70
12/8/2003 6:00	POND COMP	200074207		1.17
12/15/2003 6:00	POND COMP	200074656		1.25
12/22/2003 6:00	POND COMP	200075094		1.40
12/29/2003 6:00	POND COMP	200075538		1.06
1/5/2004 6:00	POND COMP	200075943		1.22
1/12/2004 6:00	POND COMP	200076375		1.00
1/19/2004 6:00	POND COMP	200076814		1.00
1/26/2004 6:00	POND COMP	200077268		1.02
2/2/2004 6:00	POND COMP	200077739		1.09
2/9/2004 6:00	POND COMP	200078171		1.15
2/16/2004 6:00	POND COMP	200078566		1.11
2/23/2004 6:00	POND COMP	200079008		0.81
3/1/2004 6:00	POND COMP	200079397		1.11
3/8/2004 6:00	POND COMP	200079850		1.07
3/15/2004 6:00	POND COMP	200080285		1.11
3/22/2004 6:00	POND COMP	200080708		1.19
3/29/2004 6:00	POND COMP	200081153		1.18
4/12/2004 6:00	POND COMP	200082172		1.36
4/19/2004 6:00	POND COMP	200082669		1.22
4/26/2004 6:00	POND COMP	200083225		0.94
5/3/2004 6:00	POND COMP	200083781		1.56
5/10/2004 6:00	POND COMP	200084354		3.02
5/17/2004 6:00	POND COMP	200084939		1.46
5/24/2004 6:00	POND COMP	200085534		1.44
5/31/2004 6:00	POND COMP	200086091		1.35
6/14/2004 6:00	POND COMP	200087164		1.17
6/21/2004 6:00	POND COMP	200087687		1.04
6/28/2004 6:00	POND COMP	200088219		1.15
7/5/2004 6:00	POND COMP	200088786		1.27
7/12/2004 6:00	POND COMP	200089300		1.44
7/19/2004 6:00	POND COMP	200089859		1.81
7/26/2004 6:00	POND COMP	200090372		1.32
8/2/2004 6:00	POND COMP	200090892		1.39
8/9/2004 6:00	POND COMP	200091430		1.27
8/16/2004 6:00	POND COMP	200091957		1.61
8/23/2004 6:00	POND COMP	200092513		1.49

Sample Date/Time	User Sample ID	Sample ID	Fluoride, ppm	Fluoride, %
8/30/2004 6:00	POND COMP	200093055		1.69
9/6/2004 6:00	POND COMP	200093571		0.80
9/13/2004 6:00	POND COMP	200094051		1.28
9/20/2004 6:00	POND COMP	200094548		1.29
9/27/2004 6:00	POND COMP	200095079		2.89
10/4/2004 6:00	POND COMP	200095690		1.26
10/11/2004 6:00	POND COMP	200096291		0.91
11/1/2004 6:00	POND COMP	200097946		0.93
11/8/2004 6:00	POND COMP	200098442		1.06
11/15/2004 6:00	POND COMP	200098920		0.71
11/22/2004 6:00	POND COMP	200099480		1.08
11/29/2004 6:00	POND COMP	200099916		1.15
12/6/2004 6:00	POND COMP	200100336		1.14
12/20/2004 6:00	POND COMP	200101366		1.39
12/27/2004 6:00	POND COMP	200101785		1.30
1/3/2005 6:00	POND COMP	200102174		1.28
1/10/2005 6:00	POND COMP	200102604		1.19
1/17/2005 6:00	POND COMP	200102967		1.29
1/24/2005 6:00	POND COMP	200103368		1.18
1/31/2005 6:00	POND COMP	200103785		1.28
2/7/2005 6:00	POND COMP	200104212		1.51
2/14/2005 6:00	POND COMP	200104627		1.34
2/21/2005 6:00	POND COMP	200105047		1.46
2/28/2005 6:00	POND COMP	200105462		1.50
3/7/2005 6:00	POND COMP	200105909		1.39
3/14/2005 6:00	POND COMP	200106318		1.56
3/21/2005 6:00	POND COMP	200106679		1.26
3/28/2005 6:00	POND COMP	200107062		1.22
4/4/2005 6:00	POND COMP	200107544		1.24
4/11/2005 6:00	POND COMP	200108024		1.44
4/18/2005 6:00	POND COMP	200108515		1.39
4/25/2005 6:00	POND COMP	200109022		1.32
5/2/2005 6:00	POND COMP	200109527		1.31
5/9/2005 6:00	POND COMP	200110056		1.35
5/16/2005 6:00	POND COMP	200110567		1.30
5/23/2005 6:00	POND COMP	200111055		1.10
5/30/2005 6:00	POND COMP	200111542		0.91
6/6/2005 6:00	POND COMP	200112047		0.93
7/4/2005 6:00	POND COMP	200113904		0.80
7/11/2005 6:00	POND COMP	200114403		0.97
7/18/2005 6:00	POND COMP	200114867		1.05
7/25/2005 6:00	POND COMP	200115400		1.14
8/1/2005 6:00	POND COMP	200116110		1.23
8/8/2005 6:00	POND COMP	200116645		1.35
8/15/2005 6:00	POND COMP	200117153		1.49
8/22/2005 6:00	POND COMP	200117658		1.59
8/29/2005 6:00	POND COMP	200118186		1.75
9/5/2005 6:00	POND COMP	200118689		1.29
9/12/2005 6:00	POND COMP	200119210		0.83
12/13/2004 6:00	PONDCOMP	200100880		1.18

Sample Date/Time	User Sample ID	Sample ID	Fluoride, ppm	Fluoride, %
9/27/2002 10:00	PPA Vent Scrubber	200004103		0.20
7/28/2003 8:46	PPA Vent Scrubber	200057215	345.0	
10/11/2002 11:00	PPA Vent Scubber Blowdown	200006713		0.06
2/19/2003 14:00	Process Condensate	200028990		0.09
4/6/2003 14:00	Process Condensate	200037406	209.0	
10/4/2002 10:30	Raw Water	200005186	0.4	
11/14/2002 7:24	Run 1Back 1/2	200011796	30.8	
11/14/2002 7:24	Run 1Front 1/2	200011795	1.9	
11/14/2002 7:24	Run 2 Back 1/2	200011798	11.5	
11/14/2002 7:24	Run 2Front 1/2	200011797	0.4	
4/6/2003 14:00	Wash Water	200037404	230.0	

Well 9 Data

All values are in %

Date	Fluoride	pH	Al2O3	P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	Si	Ti	V	Y	Zn	Cond	TDS
9/22/04	0.2301	1.94	0.0448	0.165	0.0512	0.0001	0.0002	0.0001	0.0251	0.1181	0.0057	0.0343	0.0096	0.0001	0.0526	0.0003	0.0004	0.0001	0.0010	8930	6017
9/29/04	0.6414	1.75	0.1493	0.485	0.0959	0.0002	0.0006	0.0001	0.1164	0.1706	0.0149	0.0674	0.0241	0.0004	0.1558	0.0009	0.0010	0.0001	0.0032	21300	14271
10/4/04	0.1717	2.15	0.0340	0.168	0.0433	0.0001	0.0001	0.0000	0.0166	0.1180	0.0053	0.0308	0.0124	0.0001	0.0329	0.0001	0.0003	0.0000	0.0009	7640	5119
10/29/04	0.0365	3.08	0.0171	0.048	0.0428	0.0000	0.0000	0.0000	0.0047	0.1072	0.0028	0.0271	0.0058	0.0001	0.0080	0.0000	0.0001	0.0000	0.0003	3120	2090
4/26/05	0.0772	2.74	0.0051	0.031	0.0301	0.0000	0.0000	0.0000	0.0012	0.0667	0.0017	0.0152	0.0026	0.0000	0.0067	0.0000	0.0001	0.0000	0.0002	2680	1796
4/28/05	0.0391	2.88	0.0071	0.045	0.0407	0.0000	0.0000	0.0000	0.0016	0.0922	0.0024	0.0208	0.0039	0.0000	0.0080	0.0001	0.0001	0.0000	0.0002	2870	1923
5/12/05	0.0300	2.73	0.0066	0.054	0.0416	0.0000	0.0000	0.0000	0.0020	0.0926	0.0023	0.0216	0.0047	0.0000	0.0076	0.0000	0.0001	0.0000	0.0003	2850	1910
5/26/05	0.0087	3.71	0.0051	0.025	0.0368	0.0000	0.0000	0.0000	0.0011	0.0908	0.0015	0.0198	0.0062	0.0000	0.0046	0.0000	0.0000	0.0000	0.0001	2300	1541
5/29/05	0.0079	4.67	0.0030	0.020	0.0345	0.0000	0.0000	0.0000	0.0002	0.0848	0.0010	0.0195	0.0025	0.0000	0.0039	0.0000	0.0001	0.0000	0.0001	2100	1407
5/31/05	0.0086	5.26	0.0045	0.0175	0.0389	0.0000	0.0000	0.0000	0.0009	0.0891	0.0011	0.0203	0.0024	0.0000	0.0038	0.0000	0.0001	0.0000	0.0001	2140	1434
6/1/05		5.26																		2020	1353
6/3/05		5.39																		2010	1347
6/7/05		5.45																		2010	1347
6/8/05		5.44																		2050	1374
6/20/05	0.0424	2.40	0.0271	0.1550	0.0461	0.0001	0.0001	0.0000	0.0044	0.1379	0.0052	0.0355	0.0087	0.0002	0.0105	0.0000	0.0003	0.0000	0.0009	5250	3518
6/21/05	0.0453	2.46	0.0273	0.1230	0.0362	0.0001	0.0001	0.0000	0.0040	0.1119	0.0038	0.0314	0.0089	0.0001	0.0100	0.0000	0.0001	0.0000	0.0008	4470	2995
6/22/05		2.38																		5300	3551
6/23/05	0.0578	2.30	0.0290	0.1885	0.0404	0.0001	0.0001	0.0001	0.0053	0.1195	0.0051	0.0316	0.0121	0.0002	0.0088	0.0000	0.0003	0.0000	0.0011	5960	3993
6/24/05		2.23																		6240	4181
6/27/05	0.0175	2.83	0.0081	0.0460	0.0363	0.0000	0.0000	0.0000	0.0016	0.0892	0.0020	0.0213	0.0053	0.0001	0.0055	0.0000	0.0001	0.0000	0.0003	2820	1889
6/28/05		2.81																		3210	2151
6/29/05		2.99																		3100	2077
6/30/05		3.03																		2840	1903
7/1/05		3.18																		3010	2017
7/6/05		3.50																		2340	1566
7/7/05		3.57																		2390	1601
7/11/05		3.68																		2350	1575
7/12/05		3.75																		2340	1568
7/13/05		3.81																		2240	1501
7/15/05	0.0087	4.91	0.0046	0.022	0.0376	0.0000	0.0000	0.0000	0.0008	0.0855	0.0016	0.0200	0.0047	0.0000	0.0039	0.0000	0.0000	0.0000	0.0001	2890	1936
7/18/05		5.30																		2230	1494
7/19/05		5.16																		2480	1662
7/20/05		5.19																		2060	1380
7/21/05		5.24																		2070	1387
7/22/05		5.25																		2170	1464
7/25/05		5.47																		2020	1353
7/26/05		5.51																		2000	1340
7/27/05		5.54																		2020	1353
7/28/05		5.57																		2666	1786
7/29/05	0.0063	5.56	0.0034	0.0135	0.0353	0.0000	0.0000	0.0000	0.0006	0.0809	0.0012	0.0186	0.0042	0.0000	0.0030	0.0000	0.0000	0.0000	1E-04	2850	1910
8/1/05		5.52																		1990	1333
8/2/05		5.58																		2010	1347
8/3/05		5.51																		2480	1662
8/5/05		5.61																		2060	1380
8/8/05		5.64																		1970	1320
8/9/05		5.74																		2050	1374
8/10/05		5.79																		1990	1333
8/11/05		5.81																		2070	1387
8/12/05		5.88																		2060	1380
8/15/05	0.0001	6.03	0.0006	0.0045	0.0400	0.0000	0.0000	0.0000	0.0002	0.0945	0.0013	0.0215	0.0036	0.0000	0.0028	0.0000	0.0000	0.0000	0.0001	1980	1327
8/16/05		6.02																		2090	1400
8/17/05		6.03																		2010	1347
8/18/05		6.09																		2070	1387
8/19/05		6.19																		2730	1829
8/22/05		6.19																		1980	1327
8/23/05		6.14																		2700	1809
8/24/05		6.18																		2610	1749
8/25/05		6.17																		2670	1789
8/26/05		6.21																		2020	1353
8/29/05		6.20																		2740	1836
8/30/05		6.26																		2570	1722
8/31/05		6.27																		1960	1313
9/1/05		6.26																		2600	1742
9/2/05		6.29																		2590	1735
9/6/05		6.30																		2160	1447
9/7/05		6.30																		1930	1293
9/8/05		6.33																		2590	1735
9/9/05		6.27																		2320	1554
9/12/05	0.0000	5.95	0.0008	0.0070	0.0340	0.0000	0.0000	0.0000	0.0002	0.0756	0.0008	0.0171	0.0067	0.0000	0.0056	0.0000	0.0001	0.0000	0.0000	1980	1327
9/12/05		5.95																		2250	1508
9/13/05		5.88																		2520	1688
9/14/05		5.85																		2010	1347
9/15/05		5.84																		2610	1749
9/16/05		2.97																		2860	1923
9/16/05		5.52																		2620	1755
9/19/05		5.83																		2530	1695
9/20/05		6.93																		2710	1816

Sample	Depth (Feet)	pH	Conductivity	TDS
MW-05-02	124	7.42	854	572
MW-05-02	225	7.38	890	596
MW-05-02	275	7.52	824	552

Filtration of sample did not affect the conductivity

Sample Date/Time	User Sample ID	Al2O3	P2O5	CaO	Fe2O3	H2SO4	K	MgO	Na	Si	F	pH	Cond	TDS
5/3/2005 11:23	#1 Well Water	0.0000	0.0000	0.0343	0.0000	0.0679	0.0040	0.0164	0.0059	0.0023	0.0000	6.42	2270	1521
5/3/2005 11:23	#9 Well Water	0.0063	0.0405	0.0418	0.0015	0.0938	0.0021	0.0211	0.0040	0.0066	0.0208	2.95	2650	1776
5/3/2005 11:23	Pond Water	0.0018	0.0435	0.0061	0.0010	0.0161	0.0011	0.0012	0.0014	0.0087	0.0309	2.36	3000	2010
5/3/2005 11:23	Closed Loop	0.0015	0.0435	0.0031	0.0007	0.0087	0.0009	0.0013	0.0008	0.0274	0.1076	2.13	7222	4838
5/3/2005 11:23	Filtrate	0.0018	0.0580	0.0008	0.0010	0.0031	0.0004	0.0010	0.0003	0.0016	0.0046	2.39	2050	1374
5/3/2005 11:23	SPA	0.0012	0.0385	0.0000	0.0007	0.0012	0.0005	0.0001	0.0003	0.0000	0.0000	2.45	1460	978

Well 9 Analysis

	Jun-2004	Mar-2005	% Decrease
Antimony	0.02	0.00	83
Arsenic	0.05	0.01	82
Barium	0.09	<.05	
Beryllium	0.03	0.00	92
Cadmium	1.13	0.14	88
Chromium	1.61	0.27	83
Mercury	<.001	<.001	
Chloride	170.00	53.00	69
Hydrogen Sulfide	<.1	<.1	
Iron	120.00	10.10	92
Manganese	23.20	1.87	92
Dissolved Solids	8522.00	2142.00	75
Zinc	16.10	1.88	88
Silver	<.02	<.02	
Aluminum	449.00	20.30	95
Alkalinity (as CaCO3)	<5	<5	
Nitrate as N	208.00	11.20	95
Sulfate	2002.00	795.00	60
Nickel	2.68	0.26	90
Selenium	0.03	0.01	83
Sodium	267.00	65.90	75
Thallium	0.01	0.00	86
Fluoride	1999.00	142.00	93
Ammonia as N	37.40	6.10	84
Calcium	402.00	288.00	28
Hardness (as CaCO3)	2329.00	726.00	69
Magnesium	382.00	124.00	68
pH	2.40	3.50	
Pottasium	60.90	15.10	75
Silica (as SiO3)	1035.00	132.00	87
Lead	0.01	<.003	
Copper	1.07	0.09	92
Conductivity uS/cm	7390.00	2200.00	70
Total Phos	1039.00	154.00	85
	10.00	5.00	50

1 Well Water Test

	Weight # 1 Well	Weight PW	Gallons Water	Gallons Pond Water	Projected Gallons/Min Water	Projected Gallons/Min Pond Water	Start pH	End pH
Test 1	200	4.50	0.05282	0.00114	150.0	3.25	6.3	2.99

	Weight # 1 Well	Weight 42%	Gallons Water	Gallons 42%	Projected Gallons/Min Water	Projected Gallons/Min 42 % Acid	Start pH	End pH
Test 2	200	0.50	0.05282	0.00008	150.0	0.24	6.3	2.48

	Weight # 1 Well	Weight SPA	Gallons Water	Gallons SPA	Gallons/Min Water	Projected Gallons/Min SPA	Start pH	End pH
Test 3	200	0.30	0.05282	0.00004	150.0	0.11	6.3	2.65

Sample Date/Time	User Sample ID	Al2O3	P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	Si	Ti	V	Y	Zn	pH
12/8/2004 7:42	MW 13 #1 12/7/2004	0.0806	0.0335	0.0211	0.0000	0.0000	0.0000	0.0093	0.1682	0.0026	0.0469	0.0109	0.0002	0.0064	0.0000	0.0000	0.0000	0.0005	3.14
12/8/2004 7:42	MW 13 #2 12/7/2004	0.0838	0.0335	0.0219	0.0000	0.0000	0.0000	0.0096	0.1753	0.0028	0.0489	0.0114	0.0002	0.0068	0.0000	0.0000	0.0000	0.0006	3.14

		Well #1				Well #9		
		pH	Conductivity	TDS		pH	Conductivity	TDS
3/8/2004						4.41		
3/16/2004		7.05						
4/16/2004						2.29		
5/4/2004						2.44		
5/5/2004		6.37						
6/4/2004						2.22		
6/7/2004		6.50				2.20		
6/8/2004	4:30 PM					2.26	6650	4834
6/10/2004	5:00 PM					2.26	9040	5786
6/11/2004	4:30 PM					2.49	5720	3360
6/14/2004	7:00 AM					2.60	4510	2886
6/14/2004	5:00 PM	6.12	2000	1280		2.63	4440	2842
6/15/2004	7:00 AM	6.03				2.63	4450	2848
6/15/2004	5:00 PM					2.66	4330	2771
6/16/2004	8:00 AM	5.98	1888	1203				
6/16/2004	5:00 PM	6.23	1890	1209		2.75	3840	2458
6/17/2004	5:00 PM	6.32	2050	1374		2.80	4556	3053
6/18/2004	7:00 AM					2.91	4510	3021
6/21/2004	7:00 AM	6.37	2300	1541		2.74	4530	3035
6/21/2004	5:00 PM	6.36	2430	1628		2.73	4710	3155
6/22/2004	7:00 AM	6.31	2120	1420		2.99	3550	2379
6/23/2004	7:00 AM	6.66	2530	1695		3.04	3310	2218
6/24/2004	7:00 AM	6.40	1390	931		2.91	3390	2271
6/24/2004	5:00 AM	6.52	2300	1541		2.90	3410	2285
6/25/2004	7:00 AM					2.79	3480	2332
6/28/2004	7:00 AM	6.44	2370	1588		2.51	5150	3451
6/28/2004	4:30 PM	6.40	2400	1608		2.44	6400	4288
6/29/2004	5:00 PM					2.42	5930	3973
6/30/2004	7:00 AM	6.80	2260	1514				
6/30/2004	5:00 PM	6.53	2490	1668		2.52	4820	3229
7/1/2004	5:00 PM	6.61	2560	1715		2.53	4780	3202
7/2/2004	7:00 AM					2.55	4810	3223
7/6/2004	7:00 AM	6.49	2310	1548		2.51	4740	3176
7/7/2004	7:00 AM	6.48	2320	1554				
7/8/2004	7:00 AM	6.44	2380	1595				
7/9/2004	7:00 AM	6.52	2310	1548				
7/12/2004	7:00 AM	6.38	2320	1554				
7/13/2004	7:00 AM	6.31	2480	1662				
7/14/2004	7:00 AM	6.15	2090	1400				
7/14/2004	5:00 PM	6.50	2240	1501				
7/15/2004	7:00 AM	6.57	1840	1233		2.02		
7/16/2004	7:00 AM	6.11	2150	1440				
7/16/2004	11:30 AM	6.29						
7/19/2004	7:00 AM	6.30	2160	1447		2.56	6390	4281
7/20/2004	7:00 AM	6.44	2500	1675		2.56	5230	3504
7/21/2004	7:00 AM	6.30	2250	1508		2.62	4950	3317
7/22/2004	7:00 AM	6.33	2230	1494		2.54	4850	3250
7/23/2004	7:00 AM	6.47	2180	1460		2.48	5060	3390
7/26/2004	7:00 AM	6.11	2130	1438		2.53	4730	3167
7/27/2004	7:00 AM	6.42	2590	1735		2.51	4610	3089

		Well #1				Well #9		
		pH	Conductivity	TDS		pH	Conductivity	TDS
		Well #1				Well #9		
		pH	Conductivity	TDS		pH	Conductivity	TDS
7/28/2004	7:00 AM	6.46	2520	1688		2.59	4510	3022
7/29/2004	7:00 AM	6.40	2550	1709		2.57	4610	3089
7/30/2004	7:00 AM	6.20	2100	1407		2.6	4970	3330
8/2/2004	7:00 AM	6.41	2310	1547		2.6	4360	2921
8/3/2004	7:00 AM	7.00	1900	1273		2.56	4660	3122
8/4/2004	7:00 AM	6.72	2380	1594		2.49	4630	3102
8/5/2004	7:00 AM	6.46	2360	1581		2.5	4490	3008
8/6/2004	7:00 AM					2.55	4430	2968
8/9/2004	7:00 AM	6.43	2440	1635		2.47	4910	3289
8/10/2004	7:00 AM					2.49	5170	3464
8/11/2004	7:00 AM					2.34	5760	3859
8/12/2004	7:00 AM					2.44	6520	4368
8/13/2004	7:00 AM					2.44	6790	4549
8/16/2004	7:00 AM	6.27	2170	1454		2.4	6570	4401
8/17/2004	7:00 AM	6.27	2180	1467		2.28	6300	4221
8/18/2004	7:00 AM	6.25	2280	1528		2.34	6020	4033
8/19/2004	7:00 AM	6.47	2580	1729		2.31	6680	4476
8/20/2004	7:00 AM					2.2	8725	5846
8/23/2004	7:00 AM	6.47	2380	1595				
8/24/2004	7:00 AM	6.40	2360	1581				
8/25/2004	7:00 AM					2.15	12200	8174
8/26/2004	7:00 AM	6.66	2420	1621		2.20	10300	6901
8/27/2004	7:00 AM					2.10	9160	6137
8/30/2004	7:00 AM	7.05	2430	1628		2.12	9580	6419
8/31/2004	7:00 AM	7.16	2250	1508		2.13	9000	6030
9/1/2004	7:00 AM	7.13	2210	1480		2.11	4010	2686
9/2/2004	7:00 AM	7.10	2250	1508		2.14	8720	5842
9/3/2004	7:00 AM					2.10	8920	5976
9/7/2004	7:00 AM	7.28	2110	1414		2.02	12600	8442
9/8/2004	7:00 AM	7.33	2150	1441		2.11	10400	6968
9/9/2004	7:00 AM	7.22	2065	1384		2.03	11650	7806
9/13/2004	7:00 AM	7.28	2175	1457				
9/14/2004	7:00 AM	7.47	2120	1420				
9/15/2004	7:00 AM	8.07	1970	1320		1.91	17500	11725
9/16/2004	7:00 AM	6.51	2230	1494		1.89	12200	8174
9/17/2004	7:00 AM	6.60	2170	1454		1.96	10000	6700
9/20/2004	7:00 AM	6.60	2170	1454		1.95	9590	6425
9/21/2004	7:00 AM	6.59	2290	1534		1.95	9020	6043
9/22/2004	7:00 AM	6.53	2320	1554		1.96	8820	5909
9/23/2004	7:00 AM	6.55	2160	1447		1.96	9180	6151
9/24/2004	7:00 AM	6.56	2140	1434		1.99	8320	5574
9/27/2004	7:00 AM	6.42	2150	1441		1.94	9490	6358
9/28/2004	7:00 AM	6.61	2390	1601		1.91	10800	7236
9/29/2004	7:00 AM	6.65	2680	1795		1.75	21300	14271
9/30/2004	7:00 AM	6.45	2740	1836				
10/1/2004	7:00 AM	6.38	2700	1890				
10/2/2004								
10/3/2004								
10/4/2004	7:00 AM	6.47	2600	1742		2.15	7640	5119
10/5/2004	7:00 AM	6.5	2640	1769		2.08	7180	4811
10/6/2004	7:00 AM	6.6	2580	1729		2.13	7040	4717
10/7/2004	7:00 AM	6.5	2590	1735		2.14	6470	4335
10/8/2004	7:00 AM	6.5	2430	1628		2.18	6790	4549
10/9/2004								
10/10/2004								
10/11/2004	7:00 AM	6.38	2790	1869		2.46	5440	3645
10/12/2004	7:00 AM	6.44	2920	1956		2.44	5570	3732
10/13/2004	7:00 AM	6.37	2710	1816		2.52	5850	3920
10/14/2004	7:00 AM	6.52	2720	1822		2.57	?	?
10/15/2004	7:00 AM	6.59	2700	1809		2.55	5260	3524
10/16/2004								
10/17/2004								
10/18/2004	7:00 AM	6.41	2360	1581		2.6	4110	2754
10/19/2004	7:00 AM	6.37	2230	1494		2.71	3830	2566

3/20/2001

Sample ID	Analyte Name	Reported Conc (Samp), ppm 1	2	3	Avg
PPA Well #3 Filtered	Mg	100	100	101	**100**
PPA Well #3 Filtered	Al	0.2	0.2	0.2	**0.2**
PPA Well #3 Filtered	Fe	0.1	0.1	0.1	**0.1**
PPA Well #3 Filtered	Ca	202	200	202	**201**
PPA Well #3 Filtered	Cd	0.0	0.0	0.0	**0.0**
PPA Well #3 Filtered	Cr	ND	ND	ND	**ND**
PPA Well #3 Filtered	Cu	0.0	0.0	0.0	**0.0**
PPA Well #3 Filtered	S	368	369	373	**370**
PPA Well #3 Filtered	K	10.1	10.1	10.2	**10.1**
PPA Well #3 Filtered	Ni	0.1	0.1	0.1	**0.1**
PPA Well #3 Filtered	Si	17.7	17.7	17.9	**17.8**
PPA Well #3 Filtered	Ti	ND	ND	ND	**ND**
PPA Well #3 Filtered	V	0	0	0	**ND**
PPA Well #3 Filtered	Y	0.0	0.0	0.0	**0.0**
PPA Well #3 Filtered	Zn	0.1	0.1	0.1	**0.1**

pH	6.68
TDS	
Conductivity	1650 Micromohs/cm

Analysis

Sample ID	Date	TDS (g/l)	Total Suspended Solids (g/l)	pH	TOC (ppm)	Carbonate (ppm)	Bicarbonate (ppm)	Ca (ppm)	SO_4 (ppm)	Al (ppm)	Cd (ppm)	Cr (ppm)	Cu (ppm)	Fe (ppm)	K (ppm)	Mg (ppm)	Na (ppm)	Ni (ppm)	Si (ppm)	Ti (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
PPA Well # 9	7/11/2001	1.4	0.045	6.72				204	863	0.08	0.003	ND	0.003	0.18	5.2	71	72	0.03	16	0.005	0.008	0.001	0.01

AGR_010231

9 Well

		# 2	# 10	# 20	# 30
TSS $_{(0.45um)}$	g/l	0.071	0.018	0.016	0.017
TDS	g/l	1.40	1.75	1.63	1.84
pH		5.87	5.67	5.74	5.94
F	(ppm)	>0.02	>0.02	>0.02	>0.02
P2O5	(ppm)				
Al	(ppm)	1.5	0.4	0.2	0.1
As	(ppm)				
B	(ppm)				
Ba	(ppm)				
Ca	(ppm)	182	226	232	233
Cd	(ppm)				
Co	(ppm)				
Cr	(ppm)	0.02	0.02	0.01	0.02
Cu	(ppm)				
Fe	(ppm)	23	5	2	0.9
K	(ppm)	13	14	14	13
Li	(ppm)				
Mg	(ppm)	76	104	106	107
Mn	(ppm)	3	5	4	3
Na	(ppm)	46	74	80	85
Ni	(ppm)				
Pb	(ppm)	0.1	0.1	0.1	0.1
SO_4	(ppm)	749	1080	1110	1100
Sb	(ppm)				
Si	(ppm)	20	23	23	23
Ti	(ppm)				
U	(ppm)				
V	(ppm)				
Zn	(ppm)	2	2	2	0.9

Specials

DATE	SAMPLE ID	pH	Pb (ppm)	SO_4 (ppm)	Sb (ppm)	Si (ppm)
08/17/01	# 9 Well Water	7.01	1.4	186.0	1.9	3.8
08/18/01	# 9 Well Water	6.77	1.4	157.8	1.0	3.9
08/19/01	# 9 Well Water	6.68	1.4	202.1	3.0	2.0
08/28/01	PPA Well (# 9)	6.82	1.3	33.7	3.9	2.0

Sample I.D.
Pond Water Monthly Grab

Date	P_2O_5 Grav	P_2O_5 ICAP	MgO	AL_2O_3	Fe_2O_3	CaO	Cd	Cr	Cu	H_2SO_4	K	Na	Ni	Si	Ti	V	Y	Zn	Si Cold Digest.	% F	F/Si
JAN-01		0.71	0.0220	0.0203	0.0160	0.1834	0.0007	0.0010	0.0017	0.4040	0.0149	0.0579	0.0004	0.0327	0.0002	0.0017	0.0009	0.0040	0.2464	1.11	6.7
FEB-01		0.79	0.0215	0.0303	0.0188	0.2068	0.0006	0.0011	0.0018	0.4420	0.0300	0.0582	0.0003	0.0307	0.0003	0.0019	0.0007	0.0049	0.2478	1.05	6.2
MAR-01		0.78	0.0215	0.0344	0.0187	0.2368	0.0007	0.0011	0.0022	0.4874		0.0745	0.0004	0.0168	0.0000	0.0023	0.0008	0.0050	0.2204	1.12	7.2
APR-01		0.04	0.0217	0.0357	0.0202	0.2514	0.0007	0.0012	0.0025	0.5092		0.0656	0.0001	0.1022	0.0000	0.0023	0.0008	0.0051	0.3076	1.35	6.5
MAY-01		1.03	0.0236	0.0420	0.0241	0.2851	0.0008	0.0014	0.0030	0.6001	0.0230	0.0814	0.0005	0.0435	0.0004	0.0026	0.0010	0.0057	0.3573	1.74	7.2
JUNE-01		1.16	0.0209	0.0506	0.0270	0.3085	0.0007	0.0014	0.0033	0.6602	0.7340	0.0235	0.0006	0.0808	0.0042	0.0028	0.0011	0.0001	0.4678	1.73	5.4

Bentalls H2O 11/20/2003

SAMPLE	Al2O3	P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Ni	Si	Ti	V	Y	Zn	pH	TOC	$CaCO_3$
Bentalls H2O	0.0005	0.011	0.0574	0	0	0	0.0001	0.1056	0.0014	0.0198	0.0001	0.0013	0	0.0001	0	0	7.1	17.7 ppm	1620ppm

Element / Date	Raw H2O R1MIX Dry Duct Dap	PondH2O RUN2MIX Dry Duct Dap	PondH2O RUN3MIX stack	Raw H2O RUN4MIX Mix tankSlk	Fresh H2O RUN5MIX Gren Duct	Pond H2O RUN7MIX Gren Duct	Pond H2O To granular Scrubber	Raw H2O To granular Scrubber	Raw H2O RUN1FILT Dry Duct Dap	PondH2O RUN2FILT Dry Duct Dap	PondH2O RUN3FILT stack	Raw H2O RUN4FILT Mix tankSlk	Fresh H2O RUN5FILT Gren Duct	Pond H2O RUN7FILT Gren Duct	Raw H2O R1unwshC Dry Duct Dap	PondH2O R2unwshC Dry Duct Dap	PondH2O R3unwshC stack	Raw H2O R4unwshC Mix tankSlk	Fresh H2O R5unwshC Gren Duct	Pond H2O R7unwshC Gren Duct	Raw H2O 1MethWshCk Dry Duct Dap	PondH2O 2MethwshCk Dry Duct Dap	PondH2O 3MethwshCk stack	Raw H2O 4MethwshCk Mix tankSlk	Fresh H2O 5MethwshCk Gren Duct	Pond H2O 7MethwshCk Gren Duct
P2O5	17.4	14.1	16.6	20.7	21.4	16.1	0.72	0.018	15.6	13.4	16.2	20.5	20.0	17.3	23.3	17.7	24.2	24.8	25.3	22.6	20.5	14.3	21.2	21.2	21.0	19.4
MgO	0.3078	0.2461	0.2821	0.4052	0.4017	0.3325	0.0281	0.0235	0.0583	0.0969	0.0924	0.0938	0.1411	0.1230	2.221	1.125	2.702	2.876	2.201	1.898	2.927	2.046	3.638	3.482	3.428	3.132
AL2O3	0.5030	0.4602	0.4143	0.7169	0.7261	0.5847	0.0227	0.0000	0.0762	0.149	0.1353	0.2044	0.2883	0.2242	3.479	2.348	3.979	3.433	3.773	2.002	4.745	4.441	5.896	5.919	5.950	5.540
Fe2O3	0.3633	0.2733	0.2867	0.4285	0.4359	0.357	0.0221	0.0000	0.0945	0.0850	0.1415	0.2182	0.2684	0.2051	2.158	1.348	1.811	1.49	1.516	1.306	2.567	2.644	3.806	2.547	2.537	2.523
CaO	0.4603	0.3489	0.4427	0.4453	0.3843	0.3834	0.2040	0.0468	0.3854	0.3268	0.3868	0.3665	0.3223	0.3487	1.147	0.5752	1.299	0.9020	0.8668	0.8211	1.026	0.6266	2.049	1.534	1.584	1.411
Cd	0.0104	0.0070	0.0093	0.0111	0.0107	0.0091	0.0007	0.0000	0.0089	0.0007	0.0082	0.0100	0.0090	0.0080	0.0226	0.0089	0.0252	0.0202	0.0178	0.0171	0.0187	0.0090	0.0384	0.0300	0.0309	0.0273
Cr	0.0204	0.0165	0.0185	0.0252	0.025	0.0208	0.0008	0.0000	0.0135	0.0108	0.0164	0.0235	0.0240	0.0205	0.0552	0.0506	0.047	0.0407	0.0386	0.0369	0.0741	0.0854	0.0605	0.0520	0.0434	0.0459
Cu	0.0009	0.0011	0.0013	0.0009	0.0005	0.0007	0.0017	0.0000	0.001	0.0012	0.0014	0.001	0.0008	0.0009	0.0010	0.0012	0.0013	0.0014	0.0007	0.0010	0.0013	0.001	0.0012	0.0012	0.0007	0.0007
H2SO4	1.066	1.531	1.769	2.226	2.007	1.816	0.3690	0.0404	1.898	1.506	1.718	2.269	2.630	1.912	2.750	1.042	2.880	2.814	2.478	2.421	1.821	0.7001	3.492	2.784	2.85	2.458
K	0.0517	0.0440	0.0360	0.0203	0.0138	0.0040	0.0269	0.0000	0.0051	0.0184	0.0415	0.0633	0.0407	0.0472	0.0207	0.0533	0.0432	0.0035	0.013	0.0243	0.0033	0.0083	0.0208	0.0828	0.0503	0.056
Na	0.0431	0.0304	0.0524	0.0433	0.0281	0.0308	0.0465	0.0070	0.0422	0.0403	0.0541	0.0403	0.0267	0.0423	0.0503	0.0530	0.0519	0.0431	0.0439	0.0457	0.0319	0.0121	0.0304	0.041	0.0303	0.0323
Ni	0.0098	0.0061	0.0092	0.0105	0.0103	0.0083	0.0005	0.0000	0.0090	0.0060	0.0089	0.0111	0.0107	0.0094	0.0133	0.007	0.0149	0.0127	0.0121	0.0103	0.0109	0.003	0.0142	0.0103	0.0093	0.0073
Si	0.0954	0.0804	0.0916	0.0508	0.0515	0.1086	0.0775	0.0021	0.1107	0.1111	0.1219	0.0504	0.0550	0.0517	0.3063	0.182	0.5011	0.2912	0.1166	0.1241	0.4081	0.5573	0.5066	0.2932	0.2425	0.3106
Ti	0.0039	0.0032	0.0028	0.0047	0.0048	0.0037	0.0002	0.0001	0.0003	0.0002	0.0006	0.0011	0.0019	0.0009	0.0243	0.0196	0.0269	0.0213	0.0234	0.0213	0.0341	0.0397	0.0436	0.0420	0.0407	0.0426
V	0.0287	0.0233	0.0249	0.0355	0.0355	0.0291	0.0014	0.0000	0.0161	0.0161	0.0106	0.0209	0.0208	0.0248	0.0995	0.0667	0.0944	0.0850	0.0845	0.0715	0.1360	0.1692	0.1254	0.1271	0.1164	0.1091
Y	0.0064	0.0045	0.0054	0.0072	0.0070	0.0059	0.0004	0.0000	0.0032	0.0019	0.0042	0.0056	0.0051	0.005	0.0247	0.0200	0.0208	0.0164	0.0139	0.0144	0.0336	0.0371	0.0333	0.0264	0.0225	0.0230
Zn	0.0847	0.0653	0.0827	0.1085	0.1015	0.0854	0.0046	0.0001	0.0808	0.0646	0.0855	0.1103	0.1003	0.0955	0.1057	0.0782	0.1008	0.1108	0.1131	0.0885	0.0886	0.0550	0.0675	0.0876	0.0708	0.0003
%Sol Meth Wsh	7.50	5.84	6.92	7.55	6.17	5.81																				
% F Distillation			1.29				0.97				1.03												6.33			
% F Electrode	1.31	1.44	1.43	1.37	1.28	1.33	1.21	0.15	0.69	1.02	1.20	0.74	0.67	1.03	5.50	5.71	6.85	5.51	4.46	5.20	6.41	6.26	7.25	6.37	5.79	6.77

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Well #9 Analysis

		Values are in %																				
Sample Date/Time	User Sample ID	Fluoride	pH	Al2O3	P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	Si	Ti	V	Y	Zn	Conductivity	TDS
September 22, 2004	#9 Well Hot Digestion	0.2301	1.94	0.0448	0.165	0.0512	0.0001	0.0002	0.0001	0.0251	0.1181	0.0057	0.0343	0.0096	0.0001	0.0526	0.0003	0.0004	0.0001	0.0010	8980	6017
September 29, 2004	#9 Well Hot Digestion	0.6414	1.75	0.1493	0.485	0.0959	0.0002	0.0006	0.0001	0.1184	0.1706	0.0149	0.0674	0.0241	0.0004	0.1558	0.0009	0.0010	0.0001	0.0032	21300	14271
October 4, 2004	#9 Well Hot Digestion	0.1717	2.15	0.0340	0.158	0.0433	0.0001	0.0001	0.0000	0.0166	0.1180	0.0053	0.0306	0.0124	0.0001	0.0329	0.0001	0.0003	0.0000	0.0009	7640	5119
October 29, 2004	#9 Well Hot Digestion	0.0365	3.08	0.0171	0.048	0.0428	0.0000	0.0000	0.0000	0.0047	0.1072	0.0028	0.0271	0.0058	0.0001	0.0090	0.0000	0.0001	0.0000	0.0003	3120	2090
November 12, 2004	#9 Well Solids -Fusion	13.8		9.233	12.6	16.24	0.0001	0.0912	0.0933	15.6900	3.3290	0.6852	0.4520		0.0000	3.0690	0.3776	0.0000	0.0165	0.1919		

		Values are in %																				
Sample Date/Time	User Sample ID	Fluoride	pH	Al2O3	P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	Si	Ti	V	Y	Zn	Conductivity	TDS
September 22, 2004	#9 Well Hot Digestion	0.230	1.94	0.0448	0.165	0.0512	0.0001	0.0002	0.0001	0.0251	0.1181	0.0057	0.0343	0.0096	0.0001	0.0526	0.0003	0.0004	0.0001	0.0010	8980	6017
September 29, 2004	#9 Well Hot Digestion	0.641	1.75	0.1493	0.485	0.0959	0.0002	0.0006	0.0001	0.1184	0.1706	0.0149	0.0674	0.0241	0.0004	0.1558	0.0009	0.0010	0.0001	0.0032	21300	14271
October 4, 2004	#9 Well Hot Digestion	0.172	2.15	0.0340	0.158	0.0433	0.0001	0.0001	0.0000	0.0166	0.1180	0.0053	0.0308	0.0124	0.0001	0.0329	0.0001	0.0003	0.0000	0.0009	7640	5119
October 29, 2004	#9 Well Hot Digestion	0.037	3.08	0.0171	0.048	0.0428	0.0000	0.0000	0.0000	0.0047	0.1072	0.0028	0.0271	0.0056	0.0001	0.0090	0.0000	0.0001	0.0000	0.0003	3120	2090
April 26, 2005	#9 Well Hot Digestion	0.077	2.74	0.0051	0.031	0.0301	0.0000	0.0000	0.0000	0.0012	0.0667	0.0017	0.0152	0.0026	0.0000	0.0067	0.0000	0.0001	0.0000	0.2002	2680	1796
April 28, 2005	#9 Well Hot Digestion	0.039	2.88	0.0071	0.045	0.0407	0.0000	0.0000	0.0000	0.0016	0.0922	0.0024	0.0208	0.0039	0.0000	0.0080	0.0001	0.0001	0.0000	0.0002	2870	1923
May 12, 2005	#9 Well Hot Digestion	0.030	2.73	0.0086	0.054	0.0415	0.0000	0.0000	0.0000	0.0020	0.0926	0.0023	0.0216	0.0047	0.0000	0.0076	0.0000	0.0001	0.0000	0.0003	2850	1910
May 25, 2005	#9 Well Hot Digestion	0.009	3.71	0.0051	0.025	0.0388	0.0000	0.0000	0.0000	0.0011	0.0908	0.0015	0.0198	0.0062	0.0000	0.0046	0.0000	0.0000	0.0000	0.0001	2300	1541

Well #9 Analysis

		Values are in %																				
Sample Date/Time	User Sample ID	Fluoride	pH	Al2O3	P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	Si	Ti	V	Y	Zn	Conductivity	TDS
September 22, 2004	#9 Well Hot Digestion	0.2301	1.94	0.0448	0.165	0.0512	0.0001	0.0002	0.0001	0.0251	0.1181	0.0057	0.0343	0.0096	0.0001	0.0526	0.0003	0.0004	0.0001	0.0010	8980	6017
September 29, 2004	#9 Well Hot Digestion	0.6414	1.75	0.1493	0.485	0.0959	0.0002	0.0006	0.0001	0.1184	0.1706	0.0149	0.0674	0.0241	0.0004	0.1558	0.0009	0.0010	0.0001	0.0032	21300	14271
October 4, 2004	#9 Well Hot Digestion	0.1717	2.15	0.0340	0.158	0.0433	0.0001	0.0001	0.0000	0.0166	0.1180	0.0053	0.0308	0.0124	0.0001	0.0329	0.0001	0.0003	0.0000	0.0009	7640	5119
October 29, 2004	#9 Well Hot Digestion	0.0365	3.08	0.0171	0.048	0.0428	0.0000	0.0000	0.0000	0.0047	0.1072	0.0028	0.0271	0.0058	0.0001	0.0090	0.0000	0.0001	0.0000	0.0003	3120	2090
November 12, 2004	#9 Well Solids -Fusion	13.8		9.233	12.6	16.24	0.0001	0.0912	0.0933	15.6900	3.3290	0.6852	0.4520		0.0000	3.0690	0.3778	0.0000	0.0155	0.1919		
January 4, 2005	#9 Well Solids -Fusion	8.72		4.172	29.7	8.536		0.5198	0.000	27.38	2.364	0.8694	0.122			0.0616	0.3197		0.0357	0.0372		
26-Apr-2005	#9 Well Hot Digestion	0.0772	2.74	0.0051	0.0310	0.0301	0.0000	0.0000	0.0000	0.0012	0.0667	0.0017	0.0152	0.0026	0.0000	0.0067	0.0000	0.0001	0.0000	0.2002	2680	1796
28-Apr-2005	#9 Well Hot Digestion	0.0391	2.88	0.0071	0.045	0.0407	0.0000	0.0000	0.0000	0.0016	0.0922	0.0024	0.0208	0.0039	0.0000	0.0080	0.0001	0.0001	0.0000	0.0002	2870	1923

Sample Date/Time	User Sample ID	Fluoride	pH	Al2O3	P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	Si	Ti	V	Y	Zn	Conductivity	TDS
September 29, 2004	#9 Well Hot Digestion	0.6414	1.75	0.1493	0.485	0.0959	0.0002	0.0006	0.0001	0.1184	0.1706	0.0149	0.0674	0.0241	0.0004	0.1558	0.0009	0.0010	0.0001	0.0032	21300	14271
26-Apr-2005	#9 Well Hot Digestion	0.0772	2.74	0.0051	0.0310	0.0301	0.0000	0.0000	0.0000	0.0012	0.0667	0.0017	0.0152	0.0026	0.0000	0.0067	0.0000	0.0001	0.0000	0.2002	2680	1796
28-Apr-2005	#9 Well Hot Digestion	0.0391	2.88	0.0071	0.045	0.0407	0.0000	0.0000	0.0000	0.0016	0.0922	0.0024	0.0208	0.0039	0.0000	0.0080	0.0001	0.0001	0.0000	0.0002	2870	1923

1 Well Water Test

	Weight # 1 Well	Weight PW	Gallons Water	Gallons Pond Water	Projected Gallons Water	Projected Gallons Pond Water	Start pH	End pH
Test 1	200	30.70	0.05282	0.0080	200.0	30.29	7.66	2.03

	Weight # 1 Well	Weight 42%	Gallons Water	Gallons 42%	Projected Gallons Water	Projected Gallons 42 % Acid	Start pH	End pH
Test 2	200	1.80	0.05282	0.0003	200.0	1.06	7.64	1.99

	Weight # 1 Well	Weight SPA	Gallons Water	Gallons SPA	Projected Gallons Water	Projected Gallons SPA	Start pH	End pH
Test 3	200	1.58	0.05282	0.0002	200.0	0.79	7.62	2.00

Water Tests

	Cooling Water In	Cooling Water Out	Incoming Scrubber H2O	Scrubber Liquor
pH	6.42	5.98	7.57	7.96
ppm F	11.44	14.24	17.03	6.64
ppm Cl	57.98	17.82	17.44	58.15

Summary

	pH	% P2O5	% MgO	% Al2O3	% Fe2O3	% CaO	% Cd	% Cr	% Cu	% H2SO4	% K	% Na	% Ni	% Si	% Ti	% V	% Y	% Zn
Tank12	#DIV/0!	27.77	0.342	0.946	0.423	0.503	0.00813	0.03303	0.00024	1.839	0.0929	0.1272	0.00624	0.2441	0.00724	0.05844	0.00614	0.0949
WPond	1.25	0.925	0.030	0.037	0.013	0.256	0.00085	0.00102	0.00235	0.524	0.0279	0.1000	0.00042	0.0075	0.00024	0.00198	0.00083	0.0053
EPond	1.22	0.888	0.027	0.037	0.014	0.270	0.00082	0.00099	0.00276	0.562	0.0257	0.1058	0.00037	0.0176	0.00025	0.00196	0.00093	0.0049
Decant	1.21	0.927	0.026	0.040	0.015	0.300	0.00083	0.00109	0.00324	0.625	0.0308	0.1233	0.00036	0.0199	0.00026	0.00206	0.00121	0.0050
#1SToe	1.45	1.300	0.039	0.038	0.042	0.136	0.00284	0.00293	0.00377	0.560	0.0282	0.1769	0.00088	0.0159	0.00130	0.00374	0.00005	0.0125
#1EDrain	1.65	1.623	0.037	0.011	0.036	0.207	0.00273	0.00296	0.00318	0.359	0.0277	0.1662	0.00098	0.0142	0.00089	0.00394	0.00004	0.0123
#1NToe	1.82	1.518	0.033	0.002	0.025	0.237	0.00247	0.00231	0.00283	0.202	0.0239	0.1475	0.00083	0.0210	0.00029	0.00335	0.00001	0.0112
#3Tails	2.50	1.499	0.083	0.030	0.002	0.227	0.00209	0.00061	0.00184	0.309	0.0826	0.1523	0.00147	0.0084	0.00001	0.00243	0.00001	0.0132
Stirred	240hrs	1.046	0.029	0.057	0.020	0.240	0.00202	0.0013	0.0048	0.4686	0.0245	0.1442	0.0010	0.0230	0.0003	0.0024	0.0027	0.0071
Decanted	240hrs	1.103	0.031	0.068	0.021	0.249	0.00306	0.0014	0.0061	0.4898	0.0262	0.1455	0.0007	0.0289	0.0003	0.0026	0.0035	0.0087
Stirred	0hrs	0.970	0.028	0.042	0.016	0.297	0.00082	0.00116	0.00378	0.64104	0.03254	0.13049	0.00042	0.00899	0.00026	0.00208	0.00115	0.00527
Decanted	0hrs	0.963	0.028	0.043	0.016	0.306	0.00083	0.00116	0.00378	0.64565	0.03339	0.13008	0.00040	0.01266	0.00027	0.00214	0.00117	0.00534

	pH	P2O5	70% Ratio MgO	Al2O3	Fe2O3	CaO	Cd	Cr	Cu	H2SO4	K	Na	Ni	Si	Ti	V	Y	Zn
Tank12		70.0	0.861	2.385	1.066	1.267	0.008	0.083	0.001	4.635	0.234	0.321	0.016	0.615	0.018	0.147	0.015	0.239
WPond		70.0	2.231	2.773	1.014	19.326	0.064	0.077	0.178	39.661	2.110	7.562	0.031	0.568	0.018	0.150	0.062	0.404
EPond		70.0	2.104	2.937	1.090	21.286	0.064	0.078	0.218	44.308	2.028	8.342	0.029	1.388	0.019	0.155	0.073	0.385
Decant		70.0	1.977	3.006	1.109	22.670	0.063	0.082	0.245	47.185	2.324	9.308	0.027	1.503	0.020	0.156	0.091	0.381
#1SToe		70.0	2.079	2.055	2.280	7.344	0.153	0.158	0.203	30.170	1.518	9.530	0.047	0.856	0.070	0.202	0.003	0.673
#1EDrain		70.0	1.617	0.481	1.574	8.925	0.118	0.128	0.137	15.489	1.194	7.171	0.042	0.614	0.038	0.170	0.002	0.530
#1NToe		70.0	1.509	0.077	1.131	10.918	0.114	0.106	0.130	9.296	1.104	6.804	0.038	0.967	0.013	0.155	0.001	0.518
#3Tails		70.0	3.876	1.409	0.099	10.579	0.097	0.028	0.086	14.440	3.858	7.111	0.069	0.392	0.000	0.113	0.000	0.617
Stirred	240hrs	70.0	1.939	3.788	1.357	16.070	0.135	0.085	0.321	31.377	1.642	9.656	0.065	1.538	0.019	0.157	0.183	0.473
Decanted	240hrs	70.0	1.989	4.314	1.312	15.828	0.194	0.087	0.390	31.081	1.663	9.234	0.044	1.836	0.019	0.166	0.220	0.551
Stirred	0hrs	70.0	2.043	3.059	1.131	21.452	0.059	0.084	0.273	46.242	2.347	9.413	0.030	0.648	0.019	0.150	0.083	0.380
Decanted	0hrs	70.0	2.045	3.138	1.129	22.260	0.060	0.084	0.275	46.922	2.427	9.453	0.029	0.920	0.020	0.156	0.085	0.388

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Analysis

Sample ID	Date	TDS (g/l)	Total Suspended Solids (g/l)	pH	TOC (ppm)	Carbonate (ppm)	HCO3 (ppm)	Ca (ppm)	SO_4 (ppm)	Al (ppm)	Cd (ppm)	Cr (ppm)	Cu (ppm)	Fe (ppm)	K (ppm)	Mg (ppm)	Na (ppm)	Ni (ppm)	Si (ppm)	Ti (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
PPA Well # 9	7/11/2001	1.4	0.045	6.72	22	0	282	204	883	0.08	0.003	ND	0.003	0.18	5.2	71	72	0.03	18	0.005	0.008	0.001	0.01

		PH OP	TJA ACID OP																	
		pH	Al2O3	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	P2O5	P2O5v	Si	Ti	V	Y	Zn
		PH	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%
Sample Date/Time	User Sample ID	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)
4/30/2004 15:16	PPA Water Line	6.74	0	0.0181	0	0	0	0.0002	0.0248	0	0.0125	0.0013	0	0.003	0.002	0.0019	0	0	0	0

	FLUORIDE STD PPM OP										TJA ACID OP								
	Fluoride	Al2O3	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	P2O5	P2O5v	Si	Ti	V	Y	Zn
	PPM	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%
User Sample ID	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)
PPA Closed Loop 10:45 2/01/05	42038.5	0.0007	0.0000	0.0000	0.0000	0.0000	0.0002	0.0002	0.0004	0.0001	0.0000	0.0000	0.0130	0.0120	1.0070	0.0000	0.0000	0.0000	0.0001

mls pond water	pH	rise Delta pH	run Delta	rise/run
0.83	5.94			
2.10	3.75	-2.19	1.27	-172.44
2.30	3.71	0.04	0.20	20.00
2.75	3.68	0.03	0.45	6.67
3.40	3.65	0.03	0.65	4.62
4.30	3.64	0.01	0.90	1.11
5.05	3.62	0.02	0.75	2.67
5.60	3.62	0.00	0.55	0.00
6.50	3.59	0.03	0.90	3.33
7.10	3.58	0.01	0.60	1.67
8.40	3.56	0.02	1.30	1.54
9.40	3.55	0.01	1.00	1.00
10.45	3.53	0.02	1.05	1.90
12.25	3.48	0.05	1.80	2.78
14.00	3.45	0.03	1.75	1.71
15.18	3.42	0.03	1.18	2.54
16.05	3.40	0.02	0.87	2.30
17.15	3.40	0.00	1.10	0.00
18.50	3.38	0.02	1.35	1.48
20.23	3.35	0.03	1.73	1.73
21.90	3.32	0.03	1.67	1.80
23.40	3.30	0.02	1.50	1.33
25.10	3.29	0.01	1.70	0.59
26.35	3.28	0.01	1.25	0.80
28.00	3.26	0.02	1.65	1.21
30.00	3.24	0.02	2.00	1.00
33.00	3.21	0.03	3.00	1.00
34.00	3.19	0.02	1.00	2.00
34.55	3.20	0.01	0.55	1.82
37.20	3.16	0.04	2.65	1.51
38.00	3.13	0.03	0.80	3.75
38.50	3.11	0.02	0.50	4.00
39.13	3.07	0.04	0.63	6.35
39.54	3.05	0.02	0.41	4.88
40.20	2.99	0.06	0.66	9.09
41.00	2.93	0.06	0.80	7.50
41.30	2.91	0.02	0.30	6.67
41.68	2.89	0.02	0.38	5.26
42.10	2.86	0.03	0.42	7.14
42.53	2.83	0.03	0.43	6.98
43.18	2.80	0.03	0.65	4.62
43.50	2.78	0.02	0.32	6.25
43.70	2.77	0.01	0.20	5.00
44.10	2.75	0.02	0.40	5.00
44.58	2.72	0.03	0.48	6.25
45.00	2.70	0.02	0.42	4.76
45.40	2.68	0.02	0.40	5.00
45.80	2.67	0.01	0.40	2.50
46.10	2.66	0.01	0.30	3.33
46.60	2.64	0.02	0.50	4.00
46.73	2.63	0.01	0.13	7.69
47.00	2.62	0.01	0.27	3.70
47.60	2.60	0.02	0.60	3.33
48.00	2.59	0.01	0.40	2.50
48.50	2.57	0.02	0.50	4.00
49.00	2.56	0.01	0.50	2.00
49.50	2.55	0.01	0.50	2.00
50.00	2.53	0.02	0.50	4.00
50.70	2.51	0.02	0.70	2.86
51.60	2.49	0.02	0.90	2.22
51.98	2.48	0.01	0.38	2.63
53.40	2.45	0.03	1.42	2.11

AGR_010244

Key Analytical Data On Mass Balance Sample Set From PCTS and OWS Nanofiltration Systems

PCTS Mass Balance Sample Set Taken On 9/2/2001
OWS Mass Balance Sample Set Taken On 9/2/2001

	Sample ID	pH	TOC (ReRun) (ppm)	TBP (ppm)	F (ppm)	P_2O_5 (ppm)	Si (ppm)	Ca (ppm)	SO4 (ppm)
NF2 Permeate (PCTS NF-2 Sample Port)	96-15-1	1.60	276	83	4034	66	889	0.18	0.83
NF2 Vessel #1 Permeate (PCTS)	96-15-2	1.71	263	26	2520	16	591	0.06	0.8
NF2 Vessel #2 Permeate (PCTS)	96-15-3	1.73	261	17	2550	9	592	0.06	0.68
NF2 Vessel #3 Permeate (PCTS)	96-15-4	1.68	262	21	2653	12	624	0.08	0.66
NF2 Vessel #4 Permeate (PCTS)	96-15-5	1.74	261	25	3445	18	793	0.15	0.71
NF2 Vessel #5 Permeate (PCTS)	96-15-6	1.70	260	22	3336	15	806	0.04	0.62
NF2 Vessel #6 Permeate (PCTS)	96-15-7	1.46	323	149	5417	169	1300	0.08	0.76
NF2 Feed (PCTS)	96-15-8	1.50	307	134	4795	168	1090	0.16	0.87
NF2 Concentrate (PCTS)	96-15-9	1.43	386	314	6577	317	1560	0.74	0.72
NF1A Permeate (PCTS NF-1A Sample Port)	96-15-10	1.45	344	217	5041	256	1220	0.49	1.2
NF1A Vessel #1 Permeate (PCTS)	96-15-11	1.51	323	91	4083	211	1020	0.4	1.2
NF1A Vessel #2 Permeate (PCTS)	96-15-12	1.58	327	185	3882	228	993	0.31	0.82
NF1A Vessel #3 Permeate (PCTS)	96-15-13	1.60	335	78	3973	250	1010	0.2	0.84
NF1A Vessel #4 Permeate (PCTS)	96-15-14	1.54	331	196	4947	254	1200	0.16	0.72
NF1A Vessel #5 Permeate (PCTS)	96-15-15	1.61	331	201	4903	241	1130	0.28	0.73
NF1A Vessel #6 Permeate (PCTS)	96-15-16	1.62	343	377	6521	255	1130	4.5	3.6
NF1A Feed Sample Port (PCTS)	96-15-17	1.39	480	472	7598	347	1680	2.9	1.7
NF1A Concentrate Sample Port (PCTS)	96-15-18	1.37	478	662	8168	348	1760	2.1	1.4
Coalescer Sample Taken Before Tote	96-15-19	1.34	433	447	9141	345	1900	1.7	1.3
Top Initial Sample From Tote Containing Bleed (start sample for 23)	96-15-20	1.37	515	629	9433	354	1960	0.38	0.66
Bottom Initial Sample From Tote Containing Bleed (start sample for 24)	96-15-21	1.32	467	562	9455	351	1930	1.2	0.51
9/3/2001 8:15 pm (10 GPM) Coalescer Sample	96-15-22	1.38	531	770	9656	370	1840	0.27	2.3
Midnight Top Sample From Full Tote (From Under Surface)(6 hrs later)	96-15-23	1.39	453	499	9504	375	1910	0.5	1.6
Midnight Bottom Sample From Full Tote (6 hrs later)	96-15-24	1.37	414	376	9406	352	1890	0.75	0.93
NF2 OWS Permeate Sample 9/2/2001 7:00 pm	96-16-1	1.64	138	47	2041	2910	515	0.37	142
NF2 OWS Permeate Sample 9/4/2001 midnight	96-16-2	1.63	155	35	2049	1930	538	0.18	137
NF2 OWS Concentrate 9/2/2001 7:00 pm	96-16-3	1.59	189	125	3355	3720	832	143	204
NF2 OWS Feed 9/2/2001 7:00 pm	96-16-4	1.60	170	87	3266	3320	702	86	175
NF1 OWS Permeate 9/2/2001 7:00 pm	96-16-5	1.60	173	107	2512	3220	702	77.2	168
NF1 OWS Feed 9/2/2001 7:00 pm	96-16-6	1.51	233	213	5555	4880	1150	270	308
NF1 OWS Concentrate 9/2/2001 7:00 pm	96-16-7	1.54	228	219	5941	4990	1220	301	323
UF1 OWS Permeate 9/2/2001 7:00 pm	96-16-8	1.56	245	264	4842	4530	1060	213	271
UF1 OWS Feed 9/2/2001 7:00 pm	96-16-9	1.59	244	251	5602	4940	1170	274	287
UF1 OWS Concentrate 9/2/2001 7:00 pm	96-16-10	1.58	241	255	5344	4890	1190	283	289

Notes
ND = Not Detected
Isopar was ND in all samples

Well #9 Analysis

		Values are in %																				
Sample Date/Time	User Sample ID	Fluoride	pH	Al2O3	P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	Si	Ti	V	Y	Zn	Conductivity	TDS
September 22, 2004	#9 Well Hot Digestion	0.2301	1.94	0.0448	0.165	0.0512	0.0001	0.0002	0.0001	0.0251	0.1181	0.0057	0.0343	0.0096	0.0001	0.0526	0.0003	0.0004	0.0001	0.0010		
September 29, 2004	#9 Well Hot Digestion	0.6414	1.75	0.1493	0.485	0.0959	0.0002	0.0006	0.0001	0.1184	0.1706	0.0149	0.0674	0.0241	0.0004	0.1558	0.0009	0.0010	0.0001	0.0032	21300	14271

Sample I.D.
Pond Water Monthly Grab

Date	P_2O_5 Grav	P_2O_5 ICAP	MgO	Al_2O_3	Fe_2O_3	CaO	Cd	Cr	Cu	H_2SO_4	K	Na	Ni	Si	Ti	V	Y	Zn	Si Cold Digest.	% F	FISI
JAN-01		0.71	0.0226	0.0293	0.0160	0.1834	0.0007	0.0010	0.0017	0.4040	0.0149	0.0573	0.0004	0.0327	0.0002	0.0017	0.0008	0.0016	0.2454	1.11	6.7
FEB-01		0.79	0.0215	0.0363	0.0168	0.2068	0.0006	0.0011	0.0016	0.4420	0.0390	0.0502	0.0003	0.0307	0.0003	0.0019	0.0007	0.0019	0.2478	1.05	6.2
MAR-01		0.78	0.0215	0.0344	0.0187	0.2368	0.0007	0.0011	0.0022	0.4674		0.0745	0.0004	0.0168	0.0000	0.0023	0.0008	0.0050	0.2294	1.12	7.2
APR-01		0.94	0.0217	0.0357	0.0202	0.2514	0.0007	0.0012	0.0025	0.5092		0.0856	0.0001	0.1022	0.0000	0.0023	0.0008	0.0051	0.3075	1.35	6.5
MAY-01		1.03	0.0236	0.0420	0.0241	0.2851	0.0006	0.0014	0.0030	0.6004	0.0230	0.0814	0.0005	0.0435	0.0004	0.0026	0.0010	0.0057	0.3573	1.74	7.2
JUNE-01		1.18	0.0299	0.0506	0.0270	0.3085	0.0007	0.0014	0.0033	0.6862	0.7340	0.0235	0.0006	0.0698	0.0042	0.0028	0.0011	0.0061	0.4678	1.73	5.4

Benlalis H2O 11/20/2003

SAMPLE	Al2O3	P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Ni	Si	Ti	V	Y	Zn	pH	TOC	$CaCO_3$
Benlalis H2O	0.0005	0.011	0.0574	0	0	0	0.0001	0.1856	0.0014	0.0198	0.0001	0.0013	0	0.0001	0	0	7.1	17.7 ppm	1620ppm

Element / Date	Raw H20 RINSE Dry Duct Dep	Pond H20 RINSE Dry Duct Dep	Pond H20 RUN2MIX stack	Raw H20 RUN4MIX Mix tank Clk	Fresh H20 RUN5MIX Green Duct	Pond H20 RUN5MIX Green Duct	Pond H20 To granular Scrubber	Raw H20 To granular Scrubber	Raw H20 RUN1FILT Dry Duct Dep	Pond H20 RUN2FILT Dry Duct Dep	Pond H20 RUN2FILT stack	Raw H20 RUN4FILT Mix tank Clk	Fresh H20 RUN5FILT Green Duct	Pond H20 RUN5FILT Green Duct	Raw H20 RUN6FILT Dry Duct Dep	Pond H20 RUN6FILT Dry Duct Dep	Pond H20 RUN6FILT stack	Raw H20 RUN6FILT Mix tank Clk	Fresh H20 RUN6FILT Green Duct	Pond H20 RUN6FILT Green Duct	Raw H20 1MetWshCK Dry Duct Dep	Pond H20 1MetWshCk Dry Duct Dep	Pond H20 2MetWshCk stack	Raw H20 2MetWshCk Mix tank Clk	Fresh H20 2MetWshCk Green Duct	Pond H20 2MetWshCk Green Duct
P2O5	17.4	14.1	18.6	20.7	21.4	18.1	0.72	0.018	15.8	13.4	16.2	20.5	20.6	17.3	23.3	17.7	24.2	24.8	25.3	22.6	20.5	14.3	21.2	21.2	21.6	19.4
MgO	0.2678	0.2454	0.2821	0.4052	0.4017	0.3325	0.0281	0.0235	0.0583	0.0009	0.0924	0.0038	0.1411	0.1236	2.221	1.125	2.702	2.078	2.204	1.606	2.027	2.840	3.030	3.402	3.428	3.132
AL2O3	0.5638	0.4602	0.4143	0.7189	0.7201	0.5847	0.0227	0.0000	0.0782	0.149	0.1353	0.2044	0.2863	0.2242	3.470	2.348	3.979	3.403	3.773	2.902	4.745	4.441	5.806	5.910	5.050	5.540
Fe2O3	0.2633	0.2733	0.2867	0.4285	0.4359	0.357	0.0221	0.0000	0.0845	0.0850	0.1415	0.2192	0.3084	0.2081	2.158	1.348	1.041	1.45	1.910	1.360	2.587	2.944	3.008	2.547	2.537	2.523
CaO	0.4603	0.3489	0.4427	0.4453	0.3843	0.3834	0.2040	0.0450	0.3854	0.3209	0.3868	0.3605	0.3223	0.3467	1.147	0.5752	1.200	0.9020	0.8000	0.8211	1.020	0.8368	2.040	1.534	1.584	1.411
Cd	0.0104	0.0078	0.0093	0.0111	0.0107	0.0091	0.0007	0.0000	0.0020	0.0007	0.0082	0.0100	0.0090	0.0080	0.0226	0.0093	0.0252	0.0262	0.0178	0.0171	0.0187	0.0000	0.0284	0.0300	0.0300	0.0275
Cr	0.0204	0.0105	0.0185	0.0252	0.025	0.0206	0.0008	0.0000	0.0135	0.0105	0.0104	0.0235	0.0248	0.0205	0.0552	0.0500	0.047	0.0407	0.0300	0.0300	0.0741	0.0654	0.0605	0.0520	0.0434	0.0459
Cu	0.0009	0.0011	0.0013	0.0009	0.0005	0.0007	0.0017	0.0000	0.001	0.0012	0.0014	0.001	0.0006	0.0009	0.0010	0.0012	0.0013	0.0014	0.0007	0.0010	0.0013	0.001	0.0012	0.0012	0.0007	0.0007
H2SO4	1.068	1.531	1.759	2.220	2.007	1.810	0.3056	0.6494	1.858	1.568	1.715	2.200	2.039	1.912	2.750	1.642	2.880	2.814	2.478	2.421	1.821	3.7091	3.402	2.704	2.85	2.458
K	0.0517	0.0440	0.0386	0.0293	0.0139	0.0040	0.0209	0.0000	0.0081	0.0184	0.0415	0.0033	0.0437	0.0472	0.0207	0.0533	0.0452	0.0035	0.013	0.0243	0.0033	0.0083	0.0208	0.0020	0.0563	0.000
Na	0.0437	0.0394	0.0524	0.0433	0.0281	0.0358	0.0405	0.0070	0.0422	0.0403	0.0541	0.0483	0.0257	0.0423	0.0503	0.0530	0.0510	0.0431	0.0430	0.0457	0.0310	0.0124	0.0304	0.041	0.0363	0.0373
Ni	0.0098	0.0081	0.0083	0.0105	0.0103	0.0083	0.0005	0.0000	0.0000	0.0000	0.0089	0.0111	0.0107	0.0084	0.0133	0.007	0.0149	0.0127	0.0121	0.0103	0.0100	0.003	0.0142	0.0103	0.0003	0.0073
Si	0.0054	0.0804	0.0940	0.0508	0.0515	0.1006	0.0776	0.0021	0.1107	0.1111	0.1210	0.0504	0.0558	0.0517	0.3053	0.162	0.5011	0.2012	0.1100	0.1241	0.4021	0.5573	0.5000	0.2032	0.2425	0.3100
Ti	0.0050	0.0032	0.0038	0.0047	0.0048	0.0037	0.0002	0.0001	0.0003	0.0002	0.0006	0.0011	0.0019	0.0008	0.0243	0.0196	0.0200	0.0215	0.0234	0.0215	0.0341	0.0397	0.0430	0.0420	0.0407	0.0426
V	0.0287	0.0235	0.0240	0.0355	0.0355	0.0201	0.0014	0.0000	0.0151	0.0151	0.0106	0.0209	0.0208	0.0248	0.0005	0.0007	0.0044	0.0050	0.0545	0.0715	0.1300	0.1002	0.1294	0.1271	0.1104	0.1001
Y	0.0064	0.0046	0.0054	0.0072	0.0070	0.0050	0.0004	0.0000	0.0032	0.0019	0.0042	0.0058	0.0061	0.005	0.0247	0.0200	0.0208	0.0164	0.0139	0.0144	0.0336	0.0371	0.0330	0.0264	0.0225	0.0200
Zn	0.0047	0.0053	0.0027	0.1085	0.1015	0.0854	0.0045	0.0001	0.0898	0.0546	0.0055	0.1103	0.1003	0.0025	0.1057	0.0782	0.1006	0.1198	0.1131	0.0885	0.0900	0.0550	0.0075	0.0870	0.0798	0.0603
%Sol Meth Wsh	7.50	5.04	0.02	7.05	6.17	5.01																				
% F Distillation			1.29				0.07				1.03												6.33			
% F Electrode	1.31	1.44	1.43	1.37	1.20	1.33	1.21	0.15	0.69	1.02	1.20	0.74	0.57	1.03	5.50	5.71	8.85	5.51	4.40	5.20	6.41	6.20	7.25	6.37	5.79	6.77
	Run1 Str.	Run2 Str.	Run3 Str.	Run4 Str.	Run5 Str	Run6 Str.	Run7 Str.	Run1	Run2	Run3	Run4	Run5	Raw H2O													

AGR_010247

Excel Material Report
Default Subreport 1

		FLUORIDE BY WT. OP									TJA ACID OP										
		Fluoride	Al2O3	Averaged P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	P2O5	P2O5v	Si	Ti	V	Y	Zn
		wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%
Sample Date/Time	User Sample ID	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)
1/5/2004 6:00	CLCOMP	2.96	0.0222	0.6	0.0463	0.0003	0.0006	0.0001	0.0116	0.1147	0.0067	0.0172	0.0165	0.0001	0.611	0.608	0.5562	0.000001	0.0007	0.0002	0.0029
1/12/2004 6:00	CLCOMP	2.29	0.0234	0.7	0.052	0.0001	0.0009	0.0002	0.0134	0.1581	0.00001	0.0264	0.0643	0.00001	0.695	0.667	0.577	0.001	0.0054	0.0001	0.0038
1/19/2004 6:00	CLCOMP	2.67	0.0217	0.6	0.0447	0.0003	0.0006	0.0001	0.0109	0.1119	0.0059	0.0166	0.0152	0.0002	0.591	0.592	0.6146	0.0001	0.001	0.0002	0.0029
1/26/2004 6:00	CLCOMP	2.58	0.0298	1.4	0.0498	0.0003	0.0014	0	0.026	0.1458	0.0074	0.0326	0.0676	0.0004	1.42	1.41	0.6201	0.0009	0.0043	0.0004	0.0073
2/2/2004 6:00	CLCOMP	2.69	0.0264	0.7	0.05	0.0003	0.0007	0.0001	0.0133	0.1217	0.0102	0.0188	0.0193	0.0003	0.681	0.687	0.6394	0.0002	0.0004	0.0002	0.0036
2/9/2004 6:00	CLCOMP	2.36	0.0296	0.9	0.0757	0.0004	0.0009	0.0001	0.0166	0.1854	0.011	0.0244	0.0197	0.0004	0.87	0.864	0.5483	0.0005	0.0016	0.0003	0.0046
2/16/2004 6:00	CLCOMP	1.34	0.0454	1.2	0.0991	0.0006	0.0013	0	0.0233	0.2571	0.0294	0.0321	0.0688	0.0012	1.19	1.19	0.3612	0.0048	0.0038	0.0004	0.0066
2/23/2004 6:00	CLCOMP	2.04	0.033	0.9	0.0761	0.0004	0.0009	0.0001	0.0167	0.1859	0.0106	0.0267	0.0136	0.0003	0.863	0.863	0.357	0.0006	0.0018	0.0003	0.0046
3/1/2004 6:00	CLCOMP	1.83	0.0696	1.9	0.0847	0.0008	0.0019	0.0003	0.04	0.235	0.0117	0.0546	0.0158	0.0007	1.93	1.95	0.4039	0.0007	0.0037	0.0007	0.0101
3/8/2004 6:00	CLCOMP	1.98	0.0228	0.6	0.0425	0.0003	0.0006	0.0001	0.0123	0.1025	0.0064	0.0179	0.0192	0.0003	0.566	0.564	0.4478	0	0.0005	0.0001	0.0029
3/15/2004 6:00	CLCOMP	1.98	0.0165	0.5	0.034	0.0002	0.0004	0.0001	0.009	0.0819	0.003	0.0154	0.0081	0.0002	0.461	0.461	0.4778	0.0001	0.0008	0.0002	0.0024
3/22/2004 6:00	CLCOMP	2.37	0.0261	0.7	0.0646	0.0004	0.0007	0.0002	0.0144	0.1608	0.0067	0.0228	0.0204	0.0004	0.685	0.687	0.6232	0.0001	0.0013	0.0002	0.0041
3/29/2004 6:00	CLCOMP	2.2	0.018	0.5	0.0388	0.0002	0.0005	0.0001	0.0099	0.0968	0.0051	0.017	0.0119	0.0002	0.502	0.5	0.565	0	0.0009	0.0002	0.0027
4/5/2004 6:00	CLCOMP	2.62	0.0294	0.8	0.0455	0.0003	0.0008	0.0002	0.0163	0.1186	0.0039	0.0233	0.0113	0.0004	0.809	0.814	0.6511	0.0001	0.0016	0.0003	0.0042
4/12/2004 6:00	CLCOMP	2.67	0.0276	0.7	0.0677	0.0004	0.0007	0.0002	0.0145	0.1674	0.0097	0.0231	0.0232	0.0003	0.666	0.693	0.6537	0.0002	0.0013	0.0003	0.0036
4/19/2004 6:00	CLCOMP	3.15	0.0184	0.4	0.0337	0.0002	0.0005	0.0001	0.0087	0.0839	0.0044	0.0138	0.013	0.0002	0.453	0.445	0.7536	0	0.0009	0.0002	0.002
4/26/2004 6:00	CLCOMP	1.73	0.0461	1.1	0.13	0.0008	0.0013	0.0003	0.0257	0.3599	0.0151	0.0354	0.0376	0.0005	1.14	1.15	0.4901	0.0002	0.0022	0.0005	0.0058
5/3/2004 6:00	CLCOMP	2.32	0.0474	1.2	0.1322	0.0008	0.0014	0.0003	0.026	0.384	0.0187	0.0368	0.0519	0.0005	1.16	1.16	0.451	0.0002	0.0023	0.0004	0.0058
5/10/2004 6:00	CLCOMP	2.2	0.0499	1.2	0.1482	0.0008	0.0014	0.0003	0.0253	0.4024	0.0227	0.0389	0.0726	0.0005	1.22	1.23	0.4796	0.0003	0.0022	0.0005	0.006
5/17/2004 6:00	CLCOMP	2.29	0.0382	1.1	0.1056	0.0006	0.0012	0.0003	0.0212	0.315	0.017	0.0334	0.0587	0.0004	1.05	1.05	0.4963	0.0002	0.0018	0.0002	0.0051
5/24/2004 6:00	CLCOMP	2.54	0.034	0.9	0.0756	0.0005	0.001	0.0002	0.0179	0.2349	0.0162	0.0274	0.0458	0.0004	0.869	0.875	0.5531	0.0002	0.0011	0.0003	0.0041
5/31/2004 6:00	CLCOMP	2.66	0.0344	0.9	0.0617	0.0005	0.001	0.0002	0.0172	0.1823	0.0085	0.0286	0.0384	0.0004	0.867	0.866	0.5881	0.0002	0.0015	0.0002	0.0043
6/14/2004 6:00	CLCOMP	2.06	0.0369	1	0.0965	0.0006	0.0012	0.0003	0.0207	0.2932	0.0173	0.0344	0.0504	0.0005	0.993	0.997	0.4903	0.0002	0.0019	0.0002	0.0051
6/21/2004 6:00	CLCOMP	2.15	0.0269	0.7	0.06	0.0003	0.0008	0.0002	0.0129	0.1573	0.0083	0.0243	0.0223	0.0003	0.656	0.655	0.4342	0.0001	0.0012	0.0002	0.0032
6/28/2004 6:00	CLCOMP	2.17	0.07	2.1	0.0742	0.0008	0.0021	0.0005	0.0392	0.2496	0.0089	0.0546	0.0186	0.001	2.1	2.08	0.4674	0.0003	0.0036	0.0005	0.0098
7/5/2004 6:00	CLCOMP	3.05	0.0347	0.9	0.0437	0.0004	0.001	0.0002	0.0177	0.1418	0.0062	0.0255	0.0143	0.0004	0.943	0.938	0.615	0.0001	0.0016	0.0002	0.0043
7/12/2004 6:00	CLCOMP	2.64	0.0646	1.7	0.1037	0.0008	0.0018	0.0004	0.0329	0.325	0.0187	0.0504	0.0404	0.0009	1.75	1.74	0.5504	0.000001	0.003	0.0006	0.0083
7/19/2004 6:00	CLCOMP	3.04	0.0408	1.1	0.0974	0.0005	0.0012	0.0003	0.0194	0.2583	0.0193	0.0326	0.0308	0.0005	1.07	1.08	0.5929	0.0002	0.0018	0.0005	0.0051
7/26/2004 6:00	CLCOMP	3.01	0.0311	0.8	0.0736	0.0004	0.001	0.0002	0.0154	0.2076	0.0143	0.0245	0.0359	0.0003	0.848	0.845	0.645	0.0001	0.0016	0.0002	0.004
8/2/2004 6:00	CLCOMP	2.51	0.0243	0.7	0.0604	0.0004	0.0008	0.0002	0.0125	0.1764	0.0129	0.022	0.0255	0.0003	0.728	0.731	0.5625	0.0001	0.0012	0.0001	0.0034
8/9/2004 6:00	CLCOMP	2.86	0.0259	0.6	0.0598	0.0003	0.0007	0.0002	0.0114	0.158	0.0108	0.0206	0.0207	0.0004	0.646	0.653	0.6794	0.0002	0.0008	0.0003	0.0031
8/16/2004 6:00	CLCOMP	2.9	0.0283	0.8	0.0623	0.0004	0.0008	0.0002	0.0131	0.1726	0.0116	0.022	0.0227	0.0003	0.752	0.751	0.6067	0.0002	0.0013	0.0002	0.0035
8/23/2004 6:00	CLCOMP	2.23	0.0437	1.4	0.0655	0.0006	0.0014	0.0003	0.0235	0.2089	0.0134	0.0369	0.0358	0.0006	1.41	1.41	0.5486	0.0002	0.0026	0.0003	0.0073
8/30/2004 6:00	CLCOMP	4.03	0.0233	0.7	0.0365	0.0003	0.0007	0.0001	0.0107	0.095	0.008	0.0206	0.0153	0.0003	0.741	0.735	0.6263	0.0001	0.0011	0.0003	0.0039
9/6/2004 6:00	CLCOMP	2.14	0.0359	1.2	0.04	0.0004	0.0011	0.0002	0.018	0.1121	0.0094	0.0336	0.0142	0.0006	1.2	1.19	0.575	0.0001	0.0021	0.0004	0.0068
9/13/2004 6:00	CLCOMP	2.86	0.0246	0.7	0.0552	0.0003	0.0008	0.0001	0.0117	0.1303	0.0111	0.0194	0.0118	0.0004	0.679	0.675	0.5822	0.0001	0.0012	0.0002	0.0036
9/20/2004 6:00	CLCOMP	0.25	0.0574	2	0.0528	0.0007	0.002	0.0003	0.0314	0.1897	0.0111	0.0444	0.0152	0.0009	1.96	1.96	0.5653	0.0003	0.0036	0.0005	0.0106
9/27/2004 6:00	CLCOMP	1.32	0.0296	0.8	0.0442	0.0003	0.0008	0.0001	0.0124	0.1183	0.0078	0.0212	0.0127	0.0004	0.76	0.764	0.6981	0.0002	0.0014	0.0002	0.0041

Water Tests

	Cooling Water In	Cooling Water Out	Incoming Scrubber H2O	Scrubber Liquor
pH	6.42	5.98	7.57	7.96
ppm F	11.44	14.24	17.03	6.64
ppm Cl	57.98	17.82	17.44	58.15

# 9 Well Solids	16-Mar-2004
	Values in % w/w
	Dried (Acid Method)
P2O5	31.3
MgO	0.4763
Al2O3	6.38
Fe2O3	32.83
CaO	3.50
Cd	0.0040
Cr	0.0364
Cu	0.0185
H2SO4	0.5663
K	0.2118
Na	0.2373
Ni	0.0047
Si	0.7635
Ti	0.0033
V	0.1314
Y	0.0148
Zn	0.0432
Fluoride	4.27
Calcined Loss (1700 F)	

# 9 Well Water	
pH	4.12

Five gallons of #9 well were allowed to sit over the weekend 3/13-3/15.
The entire five gallons was filtered through a 1 micron (um) filter. (3/15/04)
Solids were dried at 55 C and analyzed by acid digestion.

The filtered sample appeared slightly green but clear.

Generic Any Materials
Default Subreport 1

			FLUORIDE STD PPM OP
			Fluoride
			PPM
Sample Date/Time	User Sample ID	Sample ID	(AVG)
3/10/2004 10:08	#9 Well Water F	200080133	492.3

	Values are in %																					
Sample Date/Time	User Sample ID	Fluoride	pH	Al2O3	P2O5	CaO	Cd	Cr	CU	Fe2O3	H2SO4	K	MgO	Na	Ni	Si	Ti	V	Y	Zn	Conductivity	TDS
September 22, 2004	#9 Well Hot Digestion	0.2301	1.94	0.0448	0.165	0.0512	0.0001	0.0002	0.0001	0.0251	0.1181	0.0057	0.0343	0.0096	0.0001	0.0525	0.0003	0.0004	0.0001	0.0010	8980	6017
September 29, 2004	#9 Well Hot Digestion	0.6414	1.75	0.1493	0.485	0.0959	0.0002	0.0006	0.0001	0.1184	0.1706	0.0149	0.0674	0.0241	0.0004	0.1556	0.0009	0.0010	0.0001	0.0032	21300	14271
October 4, 2004	#9 Well Hot Digestion	0.1717	2.15	0.0340	0.158	0.0433	0.0001	0.0001	0.0000	0.0165	0.1180	0.0053	0.0308	0.0124	0.0001	0.0329	0.0001	0.0003	0.0000	0.0009	7640	5119
October 29, 2004	#9 Well Hot Digestion	0.0365	3.08	0.0171	0.048	0.0428	0.0000	0.0000	0.0000	0.0047	0.1072	0.0028	0.0271	0.0058	0.0001	0.0090	0.0000	0.0001	0.0000	0.0003	3120	2090
April 26, 2005	#9 Well Hot Digestion	0.0772	2.74	0.0051	0.031	0.0301	0.0000	0.0000	0.0000	0.0012	0.0667	0.0017	0.0152	0.0026	0.0000	0.0067	0.0000	0.0001	0.0000	0.2002	2680	1796
April 28, 2005	#9 Well Hot Digestion	0.0391	2.88	0.0071	0.045	0.0407	0.0000	0.0000	0.0000	0.0016	0.0922	0.0024	0.0208	0.0039	0.0000	0.0080	0.0001	0.0001	0.0000	0.0002	2870	1923
May 12, 2005	#9 Well Hot Digestion	0.0300	2.73	0.0086	0.054	0.0415	0.0000	0.0000	0.0000	0.0020	0.0926	0.0023	0.0216	0.0047	0.0000	0.0076	0.0000	0.0001	0.0000	0.0003	2850	1910
May 25, 2005	#9 Well Hot Digestion	0.0087	3.71	0.0051	0.025	0.0388	0.0000	0.0000	0.0000	0.0011	0.0908	0.0015	0.0198	0.0062	0.0000	0.0046	0.0000	0.0000	0.0000	0.0001	2300	1541
May 29, 2005	#9 Well Hot Digestion	0.0079	4.57	0.0030	0.020	0.0345	0.0000	0.0000	0.0000	0.0002	0.0848	0.0010	0.0195	0.0025	0.0000	0.0039	0.0000	0.0001	0.0000	0.0001	2100	1407
May 31, 2005	#9 Well Hot Digestion	0.0086	5.26	0.0045	0.018	0.0389	0.0000	0.0000	0.0000	0.0009	0.0891	0.0011	0.0203	0.0024	0.0000	0.0038	0.0000	0.0001	0.0000	0.0001	2140	1434
June 1, 2005			5.26																		2020	1353
June 3, 2005			5.39																		2010	1347
June 7, 2005			5.45																		2010	1347
June 8, 2005			5.44																		2050	1374
June 20, 2005	#9 Well Hot Digestion	0.0424	2.40	0.0271	0.1560	0.0461	0.0001	0.0001	0.0000	0.0044	0.1379	0.0052	0.0355	0.0087	0.0002	0.0105	0.0000	0.0003	0.0000	0.0009	5250	3518

		Fluoride	Al2O3	Averaged P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	P2O5	P2O5v	Si	Ti	V	Y	Zn
		wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%
Sample Date/Time	User Sample ID	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)
5/12/2005 13:06	#9 Well Water 5/12/2005	0.0300	0.0086	0.1000	0.0415	0.0000	0.0000	0.0000	0.0020	0.0926	0.0023	0.0216	0.0047	0.0000	0.0540	0.0530	0.0076	0.0000	0.0001	0.0000	0.0003

Generic: Any Materials
Default Subreport 1

			PH OP									TJA ACID OP										
			pH	Al2O3	Averaged P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	ICP Sample ID	K	MgO	Na	Ni	P2O5	P2O5v	Si	Ti	V	Y	Zn
			PH	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	none	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%
Sample Date/Time	User Sample ID	Sample ID	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)
3/8/2004 15:17	#9 Well Water	200080002	4.41	0.0551	0.1	0.0259	0	0	0.0001	0.003	0.1656		0.0007	0.0459	0.0191	0.0002	0.051	0.05	0.0086	0	0	0	0.0006

	PH OP									TJA ACID OP										
	pH	Al2O3	Averaged P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	P2O5	P2O5v	Si	Ti	V	Y	Zn
	PH	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%
User Sample ID	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)
# 10 Well 8/24/04	6.8	0	0	0.022	0	0	0	0.0011	0.0317	0.0007	0.013	0.003	0	0.001	0	0.0014	0	0	0	0

#3 Tailings Piezometers

6/3/93

	Cooling Pond	#3 Tails Pond	NW Gyp	1+00	8+00(60)	14+00(60)	17+00Toe	17+00(40)	17+00(60)	36+00(40)	36+00(60)
pH	1	3	2	5	3	3	3	3	3	3	3
P2O5	0.5855	0.224	0.791	0.4635	1.46	1.57	1.88	0.3755	0.8845	1.24	0.5445
MgO	0.0213	0.0184	0.0176	0.0743	0.0378	0.0438	0.038	0.0054	0.0166	0.0415	0.0277
Al2O3	0.0251	0.0037	0.0031	0.0002	0.0061	0.0051	0.0049	0.0051	0.0087	0.0024	0.0009
Fe2O3	0.0123	0.0005	0.0025	0.0001	0.0011	0.0008	0.0025	0.0001	0.0003	0.0004	0.0002
CaO	0.1835	0.0747	0.1211	0.0763	0.162	0.175	0.2177	0.1002	0.1523	0.1643	0.1071
CdO	0.0003	0.0003	0.0008	0.0001	0.0028	0.0028	0.0026	0.0008	0.0018	0.0026	0.0011
Cr	0.0007	0.0001	0.0006	0	0.0004	0.0003	0.0012	0.0001	0.0001	0.0001	0.0001
Cu	0.0008	0.0003	0.0003	0.0001	0.0158	0.0069	0.0037	0.0031	0.0065	0.0017	0.0009
H2SO4	0.3979	0.1506	0.1257	0.3957	0.267	0.2592	0.216	0.2153	0.2332	0.2575	0.2669
K2O	0.0304	0.0189	0.0784	0.1291	0.1954	0.2216	0.1809	0.1283	0.1466	0.2145	0.1726
Na2O	0.0975	0.0364	0.0588	0.1113	0.1742	0.1611	0.1491	0.0445	0.1029	0.1487	0.0592
Ni	0.0002	0.0002	0.0003	0.0007	0.0014	0.0015	0.001	0.0002	0.0007	0.0016	0.0005
SiO2	0.1229	0.0062	0.0085	0.0086	0.0097	0.0089	0.0098	0.0073	0.0082	0.0087	0.0096
Ti	0.0002	0	0	0	0	0	0.0001	0	0	0	0
V2O5	0.0019	0.0006	0.002	0	0.0037	0.0019	0.0045	0.0005	0.0019	0.0008	0.0004
Y	0.0003	0	0	0	0	0	0	0	0	0	0
ZnO	0.0029	0.0021	0.005	0.0015	0.0161	0.0215	0.0132	0.0036	0.0095	0.014	0.0062
F											
ppm Cd/%P2O5	4.48	11.72	8.85	1.89	16.78	15.61	12.10	18.64	17.81	18.35	17.68

AGR_010256

Pond & Closed Loop Water

All Metals Analysis are Cold Digest

				Red Water		Astaris	
			P_2O_5	F	F / Si	F	F / Si
Date	Time	Sample ID	%	%	Ratio	%	Ratio
09/17/01		PW	1.51	1.48	6.44	1.52	6.61
09/17/01		CL	1.16	1.88	7.51	1.89	7.55
09/17/01	1800	PW	1.49	1.44	6.26	1.49	6.48
06/17/01	1800	CL	1.10	1.84	6.64	2.00	7.21
09/17/01	0600	PW	1.48	1.42	6.18	1.54	6.70
09/17/01	0600	CL	1.21	1.61	6.43	1.72	6.87
09/18/01	0600	PW	1.51	1.39	5.87	1.43	6.04
09/18/01	0600	CL	1.14	1.70	6.13	1.80	6.49
09/19/01	1800	PW	1.48	1.38	6.00	1.35	5.87
09/19/01	1800	CL	0.87	1.46	6.17	1.54	6.51
09/19/01	0600	PW	1.46	1.37	5.96	1.39	6.04
09/19/01	0600	CL	1.08	1.54	6.15	1.54	6.15

		PH OP	TJA ACID OP																	
		pH	Al2O3	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	P2O5	P2O5v	Si	Ti	V	Y	Zn
		PH	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%
Sample Date/Time	User Sample ID	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)
4/30/2004 15:16	PPA Water Line	6.74	0	0.0181	0	0	0	0.0002	0.0248	0	0.0125	0.0013	0	0.003	0.002	0.0019	0	0	0	0

Excel Material Report
Default Subreport 1

		FLUORIDE STD PPM OP								TJA ACID OP										
		Fluoride	Al2O3	Averaged P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	Si	Ti	V	Y	Zn
		PPM	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%
Sample Date/Time	User Sample ID	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)
7/12/2004 16:23	PPA Ditch Water	0	0.0004	0.0025	0.0215	0	0	0	0	0.0324	0	0.0131	0.0034	0	0.0015	0	0	0	0

Sample Date/Time	User Sample ID	Fluoride
1/3/2005 6:00	POND COMP	1.28
1/10/2005 6:00	POND COMP	1.19
1/17/2005 6:00	POND COMP	1.29
1/24/2005 6:00	POND COMP	1.18
1/31/2005 6:00	POND COMP	1.28
2/7/2005 6:00	POND COMP	1.51
2/14/2005 6:00	POND COMP	1.34
2/21/2005 6:00	POND COMP	1.46
2/28/2005 6:00	POND COMP	1.50
3/1/2004 6:00	POND COMP	1.11
3/7/2005 6:00	POND COMP	1.39
3/8/2004 6:00	POND COMP	1.07
3/14/2005 6:00	POND COMP	1.56
3/15/2004 6:00	POND COMP	1.11
3/22/2004 6:00	POND COMP	1.19
3/29/2004 6:00	POND COMP	1.18
4/12/2004 6:00	POND COMP	1.36
4/19/2004 6:00	POND COMP	1.22
4/26/2004 6:00	POND COMP	0.94
5/3/2004 6:00	POND COMP	1.56
5/10/2004 6:00	POND COMP	3.02
5/17/2004 6:00	POND COMP	1.46
5/24/2004 6:00	POND COMP	1.44
5/31/2004 6:00	POND COMP	1.35
6/14/2004 6:00	POND COMP	1.17
6/21/2004 6:00	POND COMP	1.04
6/28/2004 6:00	POND COMP	1.15
7/5/2004 6:00	POND COMP	1.27
7/12/2004 6:00	POND COMP	1.44
7/19/2004 6:00	POND COMP	1.81
7/26/2004 6:00	POND COMP	1.32
8/2/2004 6:00	POND COMP	1.39
8/9/2004 6:00	POND COMP	1.27
8/16/2004 6:00	POND COMP	1.61
8/23/2004 6:00	POND COMP	1.49
8/30/2004 6:00	POND COMP	1.69
9/6/2004 6:00	POND COMP	0.80
9/13/2004 6:00	POND COMP	1.28
9/20/2004 6:00	POND COMP	1.29
9/27/2004 6:00	POND COMP	2.89
10/4/2004 6:00	POND COMP	1.26
10/11/2004 6:00	POND COMP	0.91
11/1/2004 6:00	POND COMP	0.93
11/8/2004 6:00	POND COMP	1.06
11/15/2004 6:00	POND COMP	0.71
11/22/2004 6:00	POND COMP	1.08
11/29/2004 6:00	POND COMP	1.15
12/6/2004 6:00	POND COMP	1.14
12/13/2004 6:00	PONDCOMP	1.18
12/20/2004 6:00	POND COMP	1.39
12/27/2004 6:00	POND COMP	1.30
Average		**1.33**

		Fluoride	Al2O3	Averaged P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	P2O5	P2O5v	Si	Ti	V	Y	Zn
		wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%
Sample Date/Time	User Sample ID	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)
5/12/2005 13:06	#9 Well Water 5/12/2005	0.0300	0.0086	0.1000	0.0415	0.0000	0.0000	0.0000	0.0020	0.0926	0.0023	0.0216	0.0047	0.0000	#####	0.0530	0.0076	#####	0.0001	0.0000	0.0003

Generic Any Materials
Default Subreport 1

			FLUORIDE STD PPM OP
			Fluoride
			PPM
Sample Date/Time	User Sample ID	Sample ID	(AVG)
3/10/2004 10:08	#9 Well Water F	200080133	492.3

	FLUORIDE STD PPM OP									TJA ACID OP									
	Fluoride	Al2O3	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	P2O5	P2O5v	Si	Ti	V	Y	Zn
	PPM	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%
User Sample ID	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)
PPA Closed Loop 10:45 2/01/05	42038.5	0.0007	0.0000	0.0000	0.0000	0.0000	0.0002	0.0002	0.0004	0.0001	0.0000	0.0000	0.0130	0.0120	1.0070	0.0000	0.0000	0.0000	0.0001

		Closed' Avg Closed Loop	Average Pond Water	Difference CL - PW
RPO	**F/Si**			
Astaris	**F/Si**	7.02	6.21	0.82
%	**P_2O_5**	0.84	1.43	-0.59
RPO %	**F**	0.00	1.42	-1.42
Astaris %	**F**	1.85	1.25	0.60
%	**MgO**	0.019	0.033	-0.015
%	**Al_2O_3**	0.032	0.059	-0.026
%	**Fe_2O_3**	0.020	0.035	-0.015
%	**CaO**	0.095	0.237	-0.143
%	**Cd**	0.0004	0.0008	-0.0004
%	**Cr**	0.0009	0.0020	-0.0011
%	**Cu**	0.0004	0.0021	-0.0016
%	**H_2SO_4**	0.22	0.52	-0.31
%	**K**	0.01	0.24	-0.23
%	**Na**	0.027	0.10	-0.07
%	**Ni**	0.0004	0.0006	-0.0002
%	**Si**	0.38	0.30	0.08
%	**Ti**	0.0002	0.0007	-0.0005
%	**V**	0.0017	0.0032	-0.0014
%	**Y**	0.0003	0.0007	-0.0003
%	**Zn**	0.0043	0.0073	-0.0030
(ppm)	**As**	2.29	1.95	0.34
(ppm)	**B**	3.20	4.55	-1.35
(ppm)	**Ba**	0.55	0.65	-0.10
(ppm)	**Co**	0.08	0.11	-0.04
(ppm)	**Li**	0.27	0.40	-0.13
(ppm)	**Mn**	4.50	5.98	-1.48
(ppm)	**Sb**	0.42	0.48	-0.06
(ppm)	**U**	8.67	12.04	-3.38
(ppm)	**TBP**		13.8	
(ppm)	**Isopar**		ND	

		Closed Average	Comp 9/3 - 9/8	Comp 8/25 - 9/2	Comp 8/16 - 8/24	Comp 7/29 - 8/4	Comp 7/22 - 7/28	Comp 7/15 - 7/21	Comp 7/8 - 7/14	Comp 7/1 - 7/7	Comp 6/24 - 6/30	Comp 6/17 - 6/23	Comp 6/10 -6/16	Comp 6/3 - 6/9	Comp 5/28 - 6/2
RPO	F/Si	6.44													
Astaris	F/Si	7.02	6.91	6.91	7.64	6.69	7.22	6.79	6.65	6.85	5.79	5.06	7.04	6.45	8.99
%	P_2O_5	0.84	1.99	2.34	2.97	1.50	1.53	1.32	1.80	1.47	1.63	1.49	1.10	0.97	1.24
RPO %	F														
Astaris %	F	1.85	1.67	1.65	2.17	2.10	2.15	2.25	1.89	2.13	1.45	1.54	2.00	1.79	2.25
%	MgO	0.01886	0.0468	0.051	0.059	0.036	0.034	0.031	0.041	0.035	0.034	0.034	0.026	0.023	0.028
%	Al_2O_3	0.03238	0.0685	0.0865	0.11	0.062	0.059	0.051	0.069	0.057	0.059	0.061	0.041	0.038	0.047
%	Fe_2O_3	0.01979	0.0538	0.0617	0.077	0.042	0.041	0.038	0.050	0.040	0.040	0.038	0.028	0.024	0.03
%	CaO	0.09474	0.1842	0.1917	0.18	0.19	0.17	0.15	0.20	0.17	0.18	0.17	0.13	0.11	0.14
%	Cd	0.00041	0.001	0.0012	0.001	0.0007	0.0008	0.0006	0.0009	0.0008	0.0008	0.0008	0.0006	0.0005	0.0007
%	Cr	0.00094	0.0022	0.0025	0.003	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.0012
%	Cu	0.00043	0.0005	0.0005	0.0004	0.0003	0.0003	0.0003	0.0004	0.0003	0.0004	0.0004	0.0003	0.0003	0.0003
%	H_2SO_4	0.21604	0.467	0.4833	0.46	0.42	0.38	0.36	0.47	0.39	0.40	0.40	0.30	0.26	0.32
%	K	0.00837	0.0211	0.0166											
%	Na	0.02700	0.0813	0.0827											
%	Ni	0.00044	0.0006	0.0009	0.001	0.0004	0.0006	0.0005	0.0007	0.0006	0.0006	0.0005	0.0005	0.0004	0.0004
%	Si	0.37710	0.3573	0.3529	0.42	0.46	0.44	0.49	0.42	0.46	0.37	0.45	0.42	0.41	0.37
%	Ti	0.00015	0.0004	0.0004	0.0004	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001
%	V	0.00174	0.0041	0.0047	0.006	0.003	0.003	0.003	0.004	0.003	0.003	0.003	0.002	0.002	0.002
%	Y	0.00032	0.0005	0.0006	0.001	0.0005	0.0005	0.0003	0.0005	0.0005	0.0006	0.0004	0.0004	0.0004	0.0005
%	Zn	0.00426	0.0099	0.0115	0.015	0.0075	0.007	0.007	0.009	0.008	0.008	0.008	0.006	0.005	0.006
(ppm)	As	2.28667													
(ppm)	B	3.19933													
(ppm)	Ba	0.54800													
(ppm)	Co	0.07527													
(ppm)	Li	0.26933													
(ppm)	Mn	4.50000													
(ppm)	Sb	0.41929													
(ppm)	U	8.66667													
	pH														

		Closed Average	Comp 9/3 - 9/8	Comp 8/25 - 9/2	Comp 5/16 - 5/27	Comp 5/1 - 5/15 ?	3/24/2002	3/3/2002	3/2/2002	3/1/2002	2/28/2002	2/27/2002	2/26/2002	0600 2/24/2002	1800 2/23/2002
RPO	F/Si	6.44													
Astaris	F/Si	7.02	6.91	6.91	7.12	5.55	6.42	8.65	8.70	7.32	6.84	7.58	5.97	6.46	6.71
%	P_2O_5	0.84	1.99	2.34	1.43	1.11	0.71	0.56	0.73	0.66	0.54	0.79	1.18	1.02	1.00
RPO %	F														
Astaris %	F	1.85	1.67	1.65	1.59	1.39	1.78	1.17	1.00	0.99	1.25	1.23	1.09	1.18	1.27
%	MgO	0.01886	0.0468	0.051	0.034	0.026	0.018	0.016	0.020	0.018	0.016	0.019	0.026	0.028	0.025
%	Al_2O_3	0.03238	0.0685	0.0865	0.052	0.044	0.029	0.021	0.023	0.025	0.021	0.028	0.048	0.053	0.048
%	Fe_2O_3	0.01979	0.0538	0.0617	0.037	0.028	0.018	0.014	0.018	0.016	0.013	0.019	0.029	0.032	0.03
%	CaO	0.09474	0.1842	0.1917	0.16	0.14	0.092	0.067	0.084	0.082	0.072	0.086	0.15	0.16	0.15
%	Cd	0.00041	0.001	0.0012	0.0009	0.0006	0.0004	0.0003	0.0004	0.0003	0.0003	0.0004	0.0006	0.0007	0.0006
%	Cr	0.00094	0.0022	0.0025	0.0015	0.0011	0.0008	0.0006	0.0008	0.0008	0.0006	0.0009	0.001	0.002	0.001
%	Cu	0.00043	0.0005	0.0005	0.0004	0.0003	0.0002	0.0001	0.0002	0.0001	0.0001	0.0002	0.0003	0.0004	0.0004
%	H_2SO_4	0.21604	0.467	0.4833	0.38	0.31	0.19	0.15	0.20	0.18	0.15	0.20	0.32	0.36	0.33
%	K	0.00837	0.0211	0.0166											
%	Na	0.02700	0.0813	0.0827											
%	Ni	0.00044	0.0006	0.0009	0.0005	0.0003	0.0003	0.0002	0.0002	0.0002	0.0001	0.0003	0.0004	0.0005	0.0005
%	Si	0.37710	0.3573	0.3529	0.33	0.37	0.41	0.20	0.17	0.20	0.27	0.24	0.27	0.27	0.28
%	Ti	0.00015	0.0004	0.0004	0.0003	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002
%	V	0.00174	0.0041	0.0047	0.003	0.002	0.002	0.001	0.002	0.001	0.001	0.002	0.003	0.003	0.003
%	Y	0.00032	0.0005	0.0006	0.0004	0.0004	0.0003	0.0001	0.0001	0.0001	0.0002	0.0001	0.0005	0.0006	0.0006
%	Zn	0.00426	0.0099	0.0115	0.008	0.006	0.004	0.003	0.004	0.004	0.003	0.004	0.007	0.007	0.007
(ppm)	As	2.28667													
(ppm)	B	3.19933													
(ppm)	Ba	0.54800													
(ppm)	Co	0.07527													
(ppm)	Li	0.26933													
(ppm)	Mn	4.50000													
(ppm)	Sb	0.41929													
(ppm)	U	8.66667													
	pH														

		Closed Average	2/22/2002	1800 2/21/2002	1800 2/20/2002	0600 2/19/2002	0600 2/18/2002	0600 2/17/2002	0600 2/16/2002	0600 2/15/2002	1800 2/15/2002	0600 2/14/2002	0600 2/13/2002	1800 2/13/2002	1800 2/12/2002
RPO	F/Si	6.44													
Astaris	F/Si	7.02	8.71	6.90	6.92	0.96	2.03	0.53	7.17	7.32	7.08	6.23	6.40	2.75	6.60
%	P_2O_5	0.84	1.05	1.18	1.36	0.013	0.011	0.005	0.73	0.59	0.65	0.60	0.93	0.010	0.99
RPO %	F														
Astaris %	F	1.85	1.12	1.12	1.17	0.0026	0.011	0.0025	1.31	1.98	2.49	1.94	1.99	0.013	1.83
%	MgO	0.01886	0.022	0.025	0.028	0.019	0.021	0.020	0.019	0.013	0.014	0.014	0.022	0.019	0.022
%	Al_2O_3	0.03238	0.041	0.046	0.053	0.0006	0.0004	0.0002	0.027	0.022	0.025	0.025	0.041	0.0001	0.036
%	Fe_2O_3	0.01979	0.025	0.028	0.032	0.0004	0.0004	0.0001	0.017	0.014	0.015	0.015	0.023	0.0009	0.024
%	CaO	0.09474	0.13	0.14	0.15	0.029	0.034	0.029	0.069	0.061	0.068	0.065	0.11	0.031	0.097
%	Cd	0.00041	0.0006	0.0007	0.0007	0.0001	0.0001	0.0001	0.0004	0.0003	0.0003	0.0003	0.0005	0.0001	0.0005
%	Cr	0.00094	0.001	0.001	0.002	0.0001	0.0001	0.0001	0.0008	0.0006	0.0007	0.0007	0.001	0.0001	0.001
%	Cu	0.00043	0.0003	0.0004	0.0004	0.0001	0.0001	0.0001	0.0002	0.0001	0.0002	0.0001	0.0003	0.0001	0.0003
%	H_2SO_4	0.21604	0.28	0.31	0.35	0.10	0.11	0.099	0.15	0.14	0.15	0.14	0.24	0.099	0.24
%	K	0.00837													
%	Na	0.02700													
%	Ni	0.00044	0.0003	0.0005	0.0005	0.0001	0.0001	0.0001	0.0005	0.0002	0.0002	0.0002	0.0002	0.0001	0.0004
%	Si	0.37710	0.19	0.24	0.25	0.004	0.008	0.007	0.27	0.40	0.52	0.46	0.46	0.007	0.41
%	Ti	0.00015	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
%	V	0.00174	0.002	0.002	0.003	0.0001	0.0001	0.0001	0.001	0.001	0.001	0.001	0.002	0.0001	0.002
%	Y	0.00032	0.0005	0.0005	0.0006	0.0001	0.0001	0.0001	0.0003	0.0003	0.0003	0.0003	0.0004	0.0001	0.0001
%	Zn	0.00426	0.006	0.006	0.007	0.0001	0.0001	0.0001	0.004	0.003	0.003	0.003	0.005	0.0001	0.005
(ppm)	As	2.28667													
(ppm)	B	3.19933													
(ppm)	Ba	0.54800													
(ppm)	Co	0.07527													
(ppm)	Li	0.26933													
(ppm)	Mn	4.50000													
(ppm)	Sb	0.41929													
(ppm)	U	8.66667													
	pH														

		Closed Average	0600 2/11/2002	0600 2/10/2002	1800 2/10/2002	0600 2/9/2002	0600 2/8/2002	1800 2/8/2002	0600 2/7/2002	1800 2/7/2002	0600 2/6/2002	1800 2/6/2002	0600 2/5/2002	Comp 1/4 - 2/4	1/3/2002
RPO	F/Si	6.44													
Astaris	F/Si	7.02	6.45	6.03	5.26	5.14	6.59	6.37	7.59	7.47	5.32	5.38	5.54	6.01	6.38
%	P_2O_5	0.84	0.96	0.77	0.82	0.9	0.75	0.92	0.43	0.54	0.52	0.43	0.94	0.67	0.79
RPO %	F														
Astaris %	F	1.85	1.79	1.59	1.28	1.46	1.65	1.12	2.72	2.93	2.34	1.93	1.61	1.91	2.20
%	MgO	0.01886	0.02	0.018	0.018	0.021	0.017	0.020	0.009	0.010	0.010	0.010	0.021	0.016	0.016
%	Al_2O_3	0.03238	0.038	0.031	0.033	0.039	0.028	0.034	0.022	0.024	0.024	0.022	0.041	0.032	0.03
%	Fe_2O_3	0.01979	0.024	0.019	0.020	0.022	0.018	0.022	0.010	0.012	0.012	0.010	0.022	0.015	0.018
%	CaO	0.09474	0.100	0.088	0.095	0.100	0.073	0.100	0.029	0.034	0.032	0.042	0.100	0.069	0.091
%	Cd	0.00041	0.0005	0.0004	0.0004	0.0005	0.0004	0.0005	0.0001	0.0002	0.0002	0.0002	0.0005	0.0003	0.0004
%	Cr	0.00094	0.001	0.0009	0.0009	0.001	0.0008	0.001	0.0005	0.0006	0.0006	0.0005	0.001	0.0009	0.0009
%	Cu	0.00043	0.0003	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0003	0.0002	0.0004
%	H_2SO_4	0.21604	0.23	0.19	0.21	0.22	0.17	0.24	0.072	0.083	0.077	0.089	0.23	0.15	0.20
%	K	0.00837													
%	Na	0.02700													
%	Ni	0.00044	0.0003	0.0003	0.0002	0.0003	0.0003	0.0003	0.0002	0.0002	0.0001	0.0001	0.0004	0.0004	0.0003
%	Si	0.37710	0.41	0.39	0.36	0.42	0.37	0.26	0.53	0.58	0.65	0.53	0.43	0.47	0.51
%	Ti	0.00015	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001
%	V	0.00174	0.002	0.002	0.002	0.002	0.002	0.002	0.0008	0.001	0.001	0.0009	0.002	0.002	0.002
%	Y	0.00032	0.0002	0.0003	0.0004	0.0007	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002	0.0003	0.0003	0.0003
%	Zn	0.00426	0.005	0.004	0.005	0.005	0.004	0.005	0.002	0.003	0.003	0.002	0.005	0.004	0.004
(ppm)	As	2.28667													
(ppm)	B	3.19933													
(ppm)	Ba	0.54800													
(ppm)	Co	0.07527													
(ppm)	Li	0.26933													
(ppm)	Mn	4.50000													
(ppm)	Sb	0.41929													
(ppm)	U	8.66667													
	pH														

		Closed Average	1/2/2002	1800 1/1/2002	0600 1/1/2002	12/31/2002	12/30/2002	12/29/2002	12/28/2002	12/27/2002	12/26/2001	12/25/2001	12/24/2001	12/23/2001	12/22/2001
RPO	F/Si	6.44													
Astaris	F/Si	7.02	7.18	7.87	6.54	6.49	6.95	7.21	7.30	7.25	7.86	7.60	1.18	7.16	7.24
%	P_2O_5	0.84	0.93	1.12	1.02	1.06	1.21	1.02	1.05	0.58	1.12	1.07	0.007	1.08	1.11
RPO %	F														
Astaris %	F	1.85	1.70	1.81	1.46	1.36	1.41	1.61	2.37	2.06	2.02	1.80	0.0032	1.55	1.47
%	MgO	0.01886	0.018	0.021	0.019	0.020	0.023	0.020	0.016	0.010	0.021	0.021	0.021	0.021	0.022
%	Al_2O_3	0.03238	0.035	0.040	0.037	0.040	0.042	0.036	0.036	0.021	0.041	0.039	0.0003	0.039	0.041
%	Fe_2O_3	0.01979	0.020	0.024	0.022	0.023	0.027	0.022	0.022	0.012	0.024	0.023	0.0001	0.023	0.024
%	CaO	0.09474	0.098	0.13	0.12	0.13	0.14	0.11	0.094	0.048	0.13	0.13	0.039	0.13	0.13
%	Cd	0.00041	0.0004	0.0006	0.0005	0.0006	0.0006	0.0005	0.0004	0.0003	0.0006	0.0005	0.0001	0.0005	0.0006
%	Cr	0.00094	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.0006	0.001	0.001	0.0001	0.001	0.001
%	Cu	0.00043	0.0004	0.0006	0.0006	0.0006	0.0007	0.0005	0.0003	0.0002	0.0006	0.0006	0.0001	0.0006	0.0006
%	H_2SO_4	0.21604	0.23	0.29	0.28	0.29	0.33	0.26	0.21	0.12	0.29	0.29	0.11	0.29	0.30
%	K	0.00837													
%	Na	0.02700													
%	Ni	0.00044	0.0004	0.0005	0.0004	0.0004	0.0005	0.0004	0.0003	0.0002	0.0004	0.0004	0.0001	0.0004	0.0004
%	Si	0.37710	0.35	0.34	0.33	0.31	0.30	0.33	0.48	0.42	0.38	0.35	0.004	0.32	0.30
%	Ti	0.00015	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001	0.0002	0.0002	0.0001	0.0002	0.0002
%	V	0.00174	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.002	0.002	0.0001	0.002	0.002
%	Y	0.00032	0.0004	0.0003	0.0004	0.0004	0.0003	0.0002	0.0003	0.0002	0.0005	0.0004	0.0001	0.0004	0.0005
%	Zn	0.00426	0.004	0.005	0.005	0.005	0.006	0.005	0.005	0.003	0.005	0.005	0.0001	0.005	0.005
(ppm)	As	2.28667													
(ppm)	B	3.19933													
(ppm)	Ba	0.54800													
(ppm)	Co	0.07527													
(ppm)	Li	0.26933													
(ppm)	Mn	4.50000													
(ppm)	Sb	0.41929													
(ppm)	U	8.66667													
	pH														

		Closed Average	12/21/2001	12/20/2001	0600 12/19/2001	1800 12/19/2001	0600 12/18/2001	1800 12/18/2001	12/16/2001						0600 12/4/2001
RPO	F/Si	6.44													
Astaris	F/Si	7.02	7.39	7.35	6.19	6.27	5.80	5.82	5.91	5.94	6.22	6.48	6.41	5.69	9.11
%	P_2O_5	0.84	1.15	1.16	1.14	1.14	1.13	1.14	0.75	0.86	1.00	1.00	1.21	1.34	2.31
RPO %	F														
Astaris %	F	1.85	1.75	1.64	1.59	1.40	1.53	1.26	1.84	2.13	1.85	1.84	1.56	1.04	1.54
%	MgO	0.01886	0.022	0.022	0.022	0.022	0.022	0.022	0.014	0.016	0.019	0.019	0.024	0.027	0.039
%	Al_2O_3	0.03238	0.042	0.043	0.043	0.043	0.042	0.043	0.028	0.032	0.037	0.037	0.044	0.052	0.088
%	Fe_2O_3	0.01979	0.025	0.025	0.026	0.025	0.025	0.025	0.017	0.020	0.022	0.022	0.027	0.031	0.052
%	CaO	0.09474	0.14	0.14	0.14	0.15	0.14	0.15	0.091	0.11	0.12	0.13	0.15	0.19	0.19
%	Cd	0.00041	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0004	0.0004	0.0005	0.0005	0.0006	0.0008	0.001
%	Cr	0.00094	0.001	0.001	0.001	0.001	0.001	0.001	0.0008	0.001	0.001	0.001	0.001	0.002	0.003
%	Cu	0.00043	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0005	0.0005	0.0007	0.0007	0.0008	0.001	0.001
%	H_2SO_4	0.21604	0.30	0.31	0.32	0.32	0.31	0.32	0.20	0.23	0.27	0.28	0.35	0.42	0.45
%	K	0.00837													
%	Na	0.02700													
%	Ni	0.00044	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0003	0.0003	0.0004	0.0003	0.0004	0.0005	0.0009
%	Si	0.37710	0.35	0.33	0.38	0.33	0.39	0.32	0.46	0.53	0.44	0.42	0.36	0.27	0.25
%	Ti	0.00015	0.0002	0.0002	0.0001	0.0001	0.0002	0.0002	0.0001	0.0002	0.0002	0.0002	0.0003	0.0003	0.0004
%	V	0.00174	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.005
%	Y	0.00032	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0003	0.0004	0.0004	0.0004	0.0004	0.0006	0.0009
%	Zn	0.00426	0.006	0.006	0.006	0.006	0.006	0.006	0.004	0.004	0.005	0.005	0.006	0.007	0.012
(ppm)	As	2.28667													
(ppm)	B	3.19933													
(ppm)	Ba	0.54800													
(ppm)	Co	0.07527													
(ppm)	Li	0.26933													
(ppm)	Mn	4.50000													
(ppm)	Sb	0.41929													
(ppm)	U	8.66667													
	pH														

		Closed Average	1800 12/4/2001	12/3/2001	12/2/2001	12/1/2001	11/30/2001	11/29/2001	0600 11/28/2001	1800 11/27/2001	0600 11/26/2001	1800 11/26/2001	0600 11/25/2001	11/24/2001	11/23/2001
RPO	F/Si	6.44													
Astaris	F/Si	7.02	7.55	10.35	8.24	10.88	8.30	8.87	8.47	10.52	0.46	7.76	9.51	9.58	8.27
%	P_2O_5	0.84	1.22	0.36	0.95	0.30	1.05	0.74	1.14	1.37	0.007	0.21	0.30	0.46	0.34
RPO %	F														
Astaris %	F	1.85	1.43	2.80	1.17	2.65	1.46	1.62	1.49	1.21	0.0034	3.20	1.93	1.88	2.35
%	MgO	0.01886	0.025	0.006	0.020	0.005	0.020	0.015	0.021	0.028	0.035	0.004	0.005	0.008	0.006
%	Al_2O_3	0.03238	0.047	0.012	0.036	0.010	0.040	0.027	0.04	0.051	0.0001	0.007	0.014	0.015	0.012
%	Fe_2O_3	0.01979	0.028	0.007	0.021	0.006	0.023	0.016	0.024	0.03	0.002	0.004	0.006	0.009	0.007
%	CaO	0.09474	0.17	0.017	0.13	0.009	0.13	0.097	0.13	0.2	0.043	0.006	0.018	0.029	0.021
%	Cd	0.00041	0.0007	0.0001	0.0005	0.0001	0.0005	0.0003	0.0005	0.0007	0.00001	0.0001	0.0001	0.0001	0.0001
%	Cr	0.00094	0.002	0.0004	0.001	0.0003	0.001	0.0008	0.001	0.002	0.00001	0.0003	0.0004	0.0005	0.0003
%	Cu	0.00043	0.001	0.0001	0.0009	0.0001	0.0009	0.0006	0.001	0.001	0.00001	0.0001	0.0001	0.0002	0.0001
%	H_2SO_4	0.21604	0.37	0.039	0.28	0.024	0.29	0.22	0.29	0.44	0.14	0.010	0.019	0.065	0.043
%	K	0.00837													
%	Na	0.02700													
%	Ni	0.00044	0.0004	0.0001	0.0003	0.0001	0.003	0.0001	0.0004	0.0004	0.0001	0.001	0.0002	0.0001	0.0001
%	Si	0.37710	0.28	0.40	0.21	0.36	0.26	0.27	0.26	0.17	0.011	0.61	0.30	0.29	0.42
%	Ti	0.00015	0.0003	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0003	0.00001	0.0001	0.0001	0.0001	0.0001
%	V	0.00174	0.003	0.0007	0.002	0.0005	0.002	0.002	0.002	0.003	0.00002	0.0004	0.0006	0.0009	0.0007
%	Y	0.00032	0.0005	0.0001	0.0004	0.0001	0.0004	0.0002	0.0004	0.0005			0.0004	0.0001	0.0002
%	Zn	0.00426	0.006	0.002	0.005	0.001	0.005	0.004	0.005	0.007	0.00001	0.001	0.001	0.002	0.002
(ppm)	As	2.28667													
(ppm)	B	3.19933													
(ppm)	Ba	0.54800													
(ppm)	Co	0.07527													
(ppm)	Li	0.26933													
(ppm)	Mn	4.50000													
(ppm)	Sb	0.41929													
(ppm)	U	8.66667													
	pH														

		Closed Average	11/22/2001	0600 11/20/2001	1800 11/20/2001	0600 11/19/2001	1800 11/19/2001	0600 11/18/2001	11/17/2001	11/16/2001	11/15/2001	0600 11/14/2001	1800 11/14/2001	0600 11/13/2001	0600 11/11/2001
RPO	F/Si	6.44													
Astaris	F/Si	7.02	7.59	8.31	9.05	8.20	7.22	8.10	8.28	7.73	8.96	6.99	9.88	10.11	7.13
%	P_2O_5	0.84	1.41	0.30	0.22	0.20	0.21	0.23	0.22	0.9	0.61	1.02	0.54	0.53	0.38
RPO %	F														
Astaris %	F	1.85	1.13	2.36	3.55	3.66	3.27	3.78	3.64	1.62	2.85	1.23	1.27	1.30	2.41
%	MgO	0.01886	0.029	0.005	0.004	0.004	0.004	0.004	0.004	0.024	0.014	0.025	0.011	0.012	0.008
%	Al_2O_3	0.03238	0.055	0.012	0.007	0.009	0.01	0.012	0.009	0.024	0.025	0.043	0.018	0.019	0.017
%	Fe_2O_3	0.01979	0.031	0.006	0.004	0.004	0.004	0.005	0.005	0.024	0.015	0.025	0.015	0.012	0.008
%	CaO	0.09474	0.22	0.011	0.006	0.011	0.014	0.018	0.010	0.13	0.085	0.20	0.053	0.055	0.046
%	Cd	0.00041	0.0007	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0006	0.0003	0.0006	0.0002	0.0002	0.0001
%	Cr	0.00094	0.002	0.0004	0.0003	0.0002	0.0002	0.0003	0.0003	0.001	0.0008	0.001	0.0007	0.0007	0.0005
%	Cu	0.00043	0.001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.002	0.0007	0.002	0.0006	0.0006	0.0003
%	H_2SO_4	0.21604	0.46	0.016	0.011	0.001	0.016	0.023	0.024	0.37	0.19	0.43	0.13	0.13	0.093
%	K	0.00837				0.001	0.001	0.0002	0.0008	0.027	0.012				
%	Na	0.02700				0.0004	0.0005	0.0005	0.0009	0.073	0.031				
%	Ni	0.00044	0.006	0.0002	0.0001	0.001	0.001	0.001	0.001	0.0009	0.001	0.0005	0.0003	0.0002	0.0001
%	Si	0.37710	0.22	0.42	0.58	0.66	0.67	0.69	0.65	0.31	0.47	0.26	0.19	0.19	0.50
%	Ti	0.00015	0.0003	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0003	0.0002	0.0003	0.0001	0.0001	0.0001
%	V	0.00174	0.003	0.0006	0.0004	0.0004	0.0004	0.0005	0.0004	0.002	0.001	0.003	0.001	0.001	0.0009
%	Y	0.00032	0.0005	0.0002	0.0001	0.0002	0.0004	0.0003	0.0002	0.0001	0.0001	0.0005	0.0001	0.00001	0.0003
%	Zn	0.00426	0.007	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.003	0.005	0.003	0.0023	0.002
(ppm)	As	2.28667													
(ppm)	B	3.19933													
(ppm)	Ba	0.54800													
(ppm)	Co	0.07527													
(ppm)	Li	0.26933													
(ppm)	Mn	4.50000													
(ppm)	Sb	0.41929													
(ppm)	U	8.66667													
	pH														

		Closed Average	11/11/2001	11/10/2001	11/9/2001	600 11/8/2001	600 11/7/2001	11/6/2001	11/6/2001	1800 11/5/2001	600 11/5/2001	11/4/2001	11/3/2001	11/2/2001	1800 11/1/2001
RPO	F/Si	6.44													
Astaris	F/Si	7.02	7.28	7.65	8.78	8.66	6.25	4.59	12.43	8.21	6.95	6.52	7.12	8.12	8.27
%	P_2O_5	0.84	0.45	0.50	0.47	0.47	1.00	0.51	0.96	0.51	0.96	0.41	0.33	0.42	0.51
RPO %	F														
Astaris %	F	1.85	2.56	3.26	2.79	2.93	1.48	1.74	3.11	3.11	1.74	2.16	2.89	3.02	2.63
%	MgO	0.01886	0.01	0.007	0.006	0.006	0.026	0.010	0.024	0.010	0.024	0.011	0.006	0.007	0.010
%	Al_2O_3	0.03238	0.02	0.019	0.017	0.016	0.044	0.019	0.042	0.019	0.042	0.018	0.016	0.015	0.018
%	Fe_2O_3	0.01979	0.010	0.010	0.010	0.009	0.024	0.010	0.023	0.010	0.023	0.010	0.007	0.008	0.010
%	CaO	0.09474	0.057	0.012	0.006	0.004	0.19	0.018	0.15	0.018	0.15	0.049	0.016	0.011	0.024
%	Cd	0.00041	0.0002	0.0001	0.0001	0.0001	0.0005	0.0001	0.0004	0.0001	0.0004	0.0002	0.0001	0.0001	0.0002
%	Cr	0.00094	0.0006	0.0007	0.0007	0.0007	0.001	0.0007	0.001	0.0007	0.001	0.0006	0.0005	0.0006	0.0007
%	Cu	0.00043	0.0005	0.0001	0.0001	0.0001	0.002	0.0001	0.002	0.0001	0.002	0.0004	0.0001	0.0001	0.0002
%	H_2SO_4	0.21604	0.12	0.029	0.023	0.022	0.42	0.052	0.34	0.052	0.34	0.11	0.026	0.032	0.069
%	K	0.00837													
%	Na	0.02700													
%	Ni	0.00044	0.0002	0.0002	0.0002	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0002	0.0001
%	Si	0.37710	0.52	0.63	0.47	0.50	0.35	0.56	0.37	0.56	0.37	0.49	0.60	0.55	0.47
%	Ti	0.00015	0.0001	0.0001	0.0001	0.0001	0.0003	0.0001	0.0002	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001
%	V	0.00174	0.001	0.001	0.001	0.001	0.002	0.001	0.002	0.001	0.002	0.001	0.0007	0.0009	0.001
%	Y	0.00032	0.0003	0.0003	0.0001	0.0001	0.0005	0.0001	0.0003	0.0001	0.0003	0.0002	0.0002	0.0001	0.0001
%	Zn	0.00426	0.002	0.002	0.002	0.002	0.005	0.002	0.005	0.002	0.005	0.002	0.002	0.002	0.002
(ppm)	As	2.28667													
(ppm)	B	3.19933													
(ppm)	Ba	0.54800													
(ppm)	Co	0.07527													
(ppm)	Li	0.26933													
(ppm)	Mn	4.50000													
(ppm)	Sb	0.41929													
(ppm)	U	8.66667													
	pH														

		Closed Average	600 11/1/2001	600 10/31/2001	1800 10/30/2001	600 10/30/2001	1800 10/29/2001	600 10/19/2001	10/28/2001	10/27/2001	600 10/25/2001	600 10/24/2001	1800 10/23/2001	1800 10/22/2001	600 10/22/2001
RPO	F/Si	6.44													
Astaris	F/Si	7.02	7.85	8.67	7.34	7.15	6.36	6.90	6.56	6.69	5.86	6.62	7.47	7.20	6.56
%	P_2O_5	0.84	0.54	0.71	0.40	0.29	1.00	0.87	1.32	0.98	0.88	1.02	1.09	1.06	1.10
RPO %	F														
Astaris %	F	1.85	2.76	2.64	2.83	2.95	1.85	1.96	2.13	1.99	2.02	1.88	1.97	1.90	1.73
%	MgO	0.01886	0.010	0.015	0.008	0.005	0.027	0.021	0.026	0.024	0.020	0.025	0.026	0.027	0.024
%	Al_2O_3	0.03238	0.021	0.028	0.016	0.011	0.043	0.037	0.055	0.043	0.035	0.036	0.04	0.038	0.042
%	Fe_2O_3	0.01979	0.011	0.015	0.008	0.006	0.025	0.021	0.029	0.023	0.020	0.024	0.025	0.025	0.024
%	CaO	0.09474	0.037	0.072	0.038	0.009	0.17	0.13	0.22	0.17	0.13	0.17	0.17	0.18	0.21
%	Cd	0.00041	0.0002	0.0003	0.0001	0.0001	0.0005	0.0004	0.0005	0.0005	0.0004	0.0005	0.0006	0.0006	0.0005
%	Cr	0.00094	0.0008	0.001	0.0005	0.0005	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002
%	Cu	0.00043	0.0003	0.0007	0.0003	0.00001	0.002	0.001	0.001	0.002	0.001	0.002	0.002	0.002	0.002
%	H_2SO_4	0.21604	0.093	0.18	0.089	0.019	0.39	0.32	0.46	0.37	0.30	0.37	0.39	0.42	0.43
%	K	0.00837													
%	Na	0.02700													
%	Ni	0.00044	0.0003	0.0004	0.0001	0.0002	0.0005	0.0003	0.0004	0.0003	0.0003	0.0003	0.0004	0.0003	0.0003
%	Si	0.37710	0.52	0.45	0.57	0.61	0.43	0.42	0.48	0.44	0.51	0.42	0.39	0.39	0.39
%	Ti	0.00015	0.0001	0.0001	0.0001	0.00001	0.0004	0.0003	0.0004	0.0003	0.0002	0.0003	0.0003	0.0004	0.0004
%	V	0.00174	0.001	0.002	0.0009	0.0006	0.003	0.002	0.003	0.002	0.002	0.002	0.003	0.003	0.003
%	Y	0.00032	0.0001	0.0001	0.0001	0.0002	0.0003	0.0003	0.0005	0.0004	0.0003	0.0004	0.0002	0.0002	0.0004
%	Zn	0.00426	0.002	0.003	0.002	0.001	0.005	0.004	0.006	0.005	0.004	0.005	0.005	0.005	0.005
(ppm)	As	2.28667													
(ppm)	B	3.19933													
(ppm)	Ba	0.54800													
(ppm)	Co	0.07527													
(ppm)	Li	0.26933													
(ppm)	Mn	4.50000													
(ppm)	Sb	0.41929													
(ppm)	U	8.66667													
	pH														

		Closed Average	10/21/2001	10/20/2001	10/19/2001	10/18/2001	1800 10/16/2001	600 10/16/2001	1800 10/15/2001	600 10/15/2001	1800 10/14/2001	600 10/14/2001	1800 10/13/2001	600 10/13/2001	1800 10/12/2001
RPO	F/Si	6.44													
Astaris	F/Si	7.02	6.54	7.03	7.53	6.79	7.36	6.94	6.87	6.29	6.87	7.59	6.35	6.81	6.91
%	P_2O_5	0.84	0.95	0.94	0.96	0.92	0.91	0.91	1.13	0.97	0.86	1.00	0.88	1.06	0.91
RPO %	F														
Astaris %	F	1.85	1.68	2.14	2.14	2.16	2.24	2.16	1.86	2.00	2.23	2.26	2.02	1.89	1.73
%	MgO	0.01886	0.029	0.024	0.025	0.021	0.022	0.022	0.027	0.023	0.021	0.025	0.021	0.026	0.022
%	Al_2O_3	0.03238	0.043	0.038	0.035	0.034	0.038	0.038	0.041	0.040	0.035	0.040	0.034	0.034	0.03
%	Fe_2O_3	0.01979	0.026	0.024	0.024	0.021	0.021	0.022	0.026	0.023	0.02	0.024	0.02	0.025	0.023
%	CaO	0.09474	0.21	0.19	0.17	0.16	0.15	0.15	0.16	0.15	0.14	0.17	0.13	0.14	0.13
%	Cd	0.00041	0.0005	0.0004	0.0005	0.0004	0.0005	0.0005	0.0006	0.0005	0.0005	0.0006	0.0005	0.0006	0.0005
%	Cr	0.00094	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
%	Cu	0.00043	0.002	0.002	0.002	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.002	0.002
%	H_2SO_4	0.21604	0.44	0.39	0.37	0.33	0.34	0.33	0.39	0.34	0.31	0.39	0.31	0.39	0.34
%	K	0.00837													
%	Na	0.02700													
%	Ni	0.00044	0.0004	0.0004	0.0003	0.0002	0.0004	0.0004	0.0005	0.0004	0.0004	0.0005	0.0003	0.0004	0.0004
%	Si	0.37710	0.38	0.45	0.42	0.47	0.46	0.46	0.40	0.47	0.48	0.44	0.47	0.41	0.37
%	Ti	0.00015	0.0003	0.0003	0.0003	0.0002	0.0004	0.0005	0.0005	0.0005	0.0004	0.0005	0.0004	0.0005	0.0004
%	V	0.00174	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
%	Y	0.00032	0.0005	0.0004	0.0003	0.0004	0.0004	0.0004	0.0002	0.0004	0.0004	0.0003	0.0003	0.0001	0.0001
%	Zn	0.00426	0.005	0.005	0.005	0.004	0.004	0.004	0.005	0.005	0.004	0.005	0.004	0.005	0.005
(ppm)	As	2.28667													
(ppm)	B	3.19933													
(ppm)	Ba	0.54800													
(ppm)	Co	0.07527													
(ppm)	Li	0.26933													
(ppm)	Mn	4.50000													
(ppm)	Sb	0.41929													
(ppm)	U	8.66667													
	pH														

		Closed Average	600 10/11/2001	1800 10/11/2001	1800 10/10/2001	1800 10/9/2001	600 10/9/2001	1800 10/8/2001	600 10/8/2001	600 10/7/2001	unknown	unknown	600 10/4/2001	600 10/3/2001	1800 10/2/2001
RPO	F/Si	6.44													
Astaris	F/Si	7.02	5.77	8.56	6.93	6.09	6.26	6.56	5.95	6.24	7.04	6.38	6.51	6.02	6.27
%	P_2O_5	0.84	0.81	0.96	1.05	1.07	0.97	0.97	1.10	0.90	0.79	1.04	1.07	1.00	1.09
RPO %	F														
Astaris %	F	1.85	1.60	1.91	1.64	1.69	1.61	1.73	1.53	1.52	2.43	2.33	2.07	1.71	1.78
%	MgO	0.01886	0.019	0.023	0.026	0.026	0.024	0.022	0.025	0.02	0.017	0.026	0.024	0.022	0.026
%	Al_2O_3	0.03238	0.034	0.03	0.028	0.045	0.042	0.038	0.045	0.037	0.03	0.042	0.042	0.039	0.045
%	Fe_2O_3	0.01979	0.019	0.021	0.025	0.025	0.023	0.022	0.026	0.021	0.017	0.021	0.024	0.023	0.025
%	CaO	0.09474	0.13	0.12	0.13	0.2	0.17	0.16	0.19	0.16	0.089	0.097	0.17	0.17	0.21
%	Cd	0.00041	0.0004	0.0005	0.0006	0.0006	0.0006	0.0005	0.0006	0.0005	0.0003	0.0004	0.0006	0.0005	0.0006
%	Cr	0.00094	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
%	Cu	0.00043	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.0008	0.0007	0.002	0.002	0.002
%	H_2SO_4	0.21604	0.29	0.31	0.38	0.43	0.38	0.36	0.42	0.34	0.2	0.2	0.37	0.38	0.45
%	K	0.00837													
%	Na	0.02700											0.062	0.025	0.079
%	Ni	0.00044	0.0003	0.0004	0.0005	0.0005	0.0004	0.0004	0.0004	0.0004	0.0003	0.001	0.0004	0.0004	0.0004
%	Si	0.37710	0.41	0.33	0.35	0.41	0.38	0.39	0.38	0.36	0.51	0.54	0.47	0.42	0.42
%	Ti	0.00015	0.0003	0.0004	0.0004	0.0004	0.0003	0.002	0.003	0.002	0.002	0.002	0.0004		0.0006
%	V	0.00174	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.002
%	Y	0.00032	0.0004	0.0001	0.0001	0.0005	0.0005	0.0004	0.0005	0.0004	0.0002	0.0006	0.0004	0.0005	0.0005
%	Zn	0.00426	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.005	0.005	0.005	0.005
(ppm)	As	2.28667													
(ppm)	B	3.19933													
(ppm)	Ba	0.54800													
(ppm)	Co	0.07527													
(ppm)	Li	0.26933													
(ppm)	Mn	4.50000													
(ppm)	Sb	0.41929													
(ppm)	U	8.66667													
	pH														

		Closed Average	1800 10/1/2001	600 10/1/2001	600 9/29/2001	1800 9/29/2001	1800 9/27/2001	600 9/26/2001	600 9/25/2001	600 9/24/2001	1800 9/24/2001	600 9/23/2001	1800 9/23/2001	600 9/22/2001	600 9/21/2001
RPO	F/Si	6.44													
Astaris	F/Si	7.02	6.01	6.24	6.65	5.99	10.23	7.26	7.14	6.83	6.86	7.15	6.82	6.80	6.87
%	P_2O_5	0.84	0.98	1.09	0.90	0.91	0.76	0.84	0.93	1.23	1.05	1.16	1.10	1.21	1.12
RPO %	F														
Astaris %	F	1.85	1.83	1.90	1.71	1.54	1.73	1.67	1.69	1.57	1.81	1.74	1.66	1.61	1.72
%	MgO	0.01886	0.023	0.026	0.022	0.022	0.018	0.018	0.021	0.030	0.022	0.026	0.024	0.020	0.026
%	Al_2O_3	0.03238	0.04	0.046	0.036	0.036	0.030	0.028	0.036	0.048	0.042	0.044	0.043	0.035	0.045
%	Fe_2O_3	0.01979	0.022	0.026	0.021	0.021	0.017	0.018	0.021	0.031	0.023	0.024	0.023	0.020	0.025
%	CaO	0.09474	0.16	0.21	0.15	0.15	0.13	0.11	0.15	0.21	0.17	0.19	0.15	0.16	0.19
%	Cd	0.00041	0.0005	0.0006	0.0005	0.0005	0.0004	0.0004	0.0005	0.0007	0.0005	0.0006	0.0005	0.000	0.0006
%	Cr	0.00094	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001
%	Cu	0.00043	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002
%	H_2SO_4	0.21604	0.37	0.46	0.33	0.35	0.29	0.27	0.35	0.46	0.38	0.42	0.35	0.34	0.42
%	K	0.00837								0.024	0.019	0.018	0.015	0.013	0.019
%	Na	0.02700	0.067	0.077	0.065	0.064	0.054	0.041	0.041	0.087	0.072	0.087	0.071	0.073	0.077
%	Ni	0.00044	0.0004	0.0004	0.0003	0.0003	0.0002	0.0004	0.0004	0.0005	0.0005	0.0004	0.0005	0.0003	0.0004
%	Si	0.37710	0.45	0.45	0.38	0.38	0.25	0.34	0.35	0.34	0.39	0.36	0.36	0.35	0.37
%	Ti	0.00015					0.0002	0.0007		0.0004	0.0003	0.0004	0.0004	0.0003	0.0004
%	V	0.00174	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.003	0.003	0.002	0.003
%	Y	0.00032	0.0005	0.0006	0.0004	0.0004	0.0004	0.0001	0.0004	0.0006	0.0005	0.0005	0.0005	0.0004	0.0005
%	Zn	0.00426	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.006	0.005	0.005	0.005	0.004	0.005
(ppm)	As	2.28667								2.4	3.3	2.9	2.6	2.2	2.5
(ppm)	B	3.19933								3.6	5.0	2.3	2.7	3.8	4.8
(ppm)	Ba	0.54800								0.58	0.46	0.57	0.48	0.80	0.52
(ppm)	Co	0.07527								0.12	0.09	0.07	0.05	0.03	0.05
(ppm)	Li	0.26933								0.32	0.26	0.29	0.26	0.22	0.29
(ppm)	Mn	4.50000								5.6	4.2	4.7	4.5	3.7	4.7
(ppm)	Sb	0.41929								0.26	0.36	0.41	0.69	0.43	0.46
(ppm)	U	8.66667								8.9	7.4	9.2	8.2	6.7	8.2
	pH														

		Closed Average	1800 9/21/2001	600 9/20/2001	1800 9/20/2001	600 9/19/2001	1800 9/19/2001	600 9/18/2001	600 9/17/2001	1800 9/17/2001	9/17/2001
RPO	F/Si	6.44		6.24	6.27	6.15	6.17	6.13	6.43	6.63	7.51
Astaris	F/Si	7.02	6.72	6.37	6.89	6.15	6.50	6.49	6.87	7.21	7.55
%	P_2O_5	0.84	1.15	1.19	1.13	1.08	0.87	1.14	1.21	1.1	1.16
RPO %	F			1.52	1.74	1.54	1.46	1.70	1.61	1.84	1.88
Astaris %	F	1.85	1.59	1.55	1.91	1.54	1.54	1.80	1.72	2.00	1.89
%	MgO	0.01886	0.027	0.028	0.024	0.024	0.019	0.026	0.026	0.025	0.026
%	Al_2O_3	0.03238	0.046	0.049	0.047	0.041	0.032	0.044	0.047	0.043	0.044
%	Fe_2O_3	0.01979	0.026	0.027	0.026	0.023	0.02	0.026	0.028	0.025	0.025
%	CaO	0.09474	0.18	0.20	0.19	0.150	0.16	0.19	0.18	0.17	0.17
%	Cd	0.00041	0.0006	0.0007	0.0006	0.0005	0.0004	0.0006	0.0006	0.0006	0.0006
%	Cr	0.00094	0.002	0.002	0.002	0.001	0.001	0.002	0.002	0.001	0.002
%	Cu	0.00043	0.002	0.002	0.002	0.001	0.001	0.002	0.002	0.002	0.002
%	H_2SO_4	0.21604	0.41	0.44	0.41	0.3500	0.34	0.41	0.42	0.4	0.39
%	K	0.00837	0.018	0.360	0.400	0.550	0.51	0.87	0.55	0.44	0.023
%	Na	0.02700	0.079	0.083	0.072	0.062	0.06	0.073	0.074	0.074	0.064
%	Ni	0.00044	0.0005	0.0005	0.0003	0.0004	0.0002	0.0003	0.0003	0.0003	0.0005
%	Si	0.37710	0.35	0.36	0.41	0.37	0.35	0.41	0.37	0.41	0.37
%	Ti	0.00015	0.0004	0.002	0.003	0.004	0.004	0.006	0.003	0.003	0.0004
%	V	0.00174	0.003	0.002	0.002	0.002	0.001	0.001	0.002	0.002	0.002
%	Y	0.00032	0.0005	0.0006	0.0005	0.0005	0.0004	0.0006	0.0006	0.0005	0.0003
%	Zn	0.00426	0.005	0.005	0.005	0.005	0.004	0.005	0.005	0.005	0.005
(ppm)	As	2.28667	1.7	1.8	1.9	2.4	2.1	2.3	1.8	2.4	2
(ppm)	B	3.19933	3.6	2.8	3.7	2.8	4.1	6.2	0.46	0.63	1.5
(ppm)	Ba	0.54800	0.53	0.51	0.47	0.43	0.69	0.49	0.5	0.5	0.69
(ppm)	Co	0.07527	0.06	0.07	0.07	0.05	0.04	0.09	0.1	0.1	0.14
(ppm)	Li	0.26933	0.29	0.31	0.27	0.24	0.22	0.27	0.27	0.27	0.26
(ppm)	Mn	4.50000	4.8	4.7	4.5	4.3	3.5	4.5	4.5	4.4	4.9
(ppm)	Sb	0.41929	0.47	0.36	0.32	0.57	0.59	0.39	0.3	0.26	<0.1
(ppm)	U	8.66667	8.9	9.7	8.3	7.9	8.2	7.9	9.6	9.8	11.1
	pH										

		Pond Water Average	Comp 9/3 - 9/8	Comp 8/25 - 9/2	Comp 8/16 - 8/24	Comp 7/29 - 8/4	Comp 7/22 - 7/28	Comp 7/15 - 7/21	Comp 7/8 - 7/14	Comp 7/1 - 7/7	Comp 6/25 - 6/30	Comp 6/17 - 6/24	Comp 6/10 - 6/16	Comp 6/3 - 6/9	Comp 5/28 - 6/2	Comp 5/16 - 5/27	Comp 5/1 - 5/15 ?
RPO	F/Si	6.10															
Astaris	F/Si	6.21	6.51	6.20	7.77	6.73	6.59	5.91	5.91	6.10	6.01	5.71	5.60	5.53	6.51	6.02	5.20
%	P_2O_5	1.43	2.27	2.21	2.08	2.08	2.15	1.96	2.15	2.07	1.99	1.91	1.69	1.63	1.69	1.81	1.63
RPO %	F	1.42															
Astaris %	F	1.25	1.35	1.27	1.63	1.52	1.47	1.28	1.36	1.32	1.22	1.12	1.06	1.01	1.41	1.14	0.95
%	MgO	0.03339	0.0533	0.0541	0.05	0.0506	0.049	0.049	0.049	0.049	0.043	0.045	0.039	0.039	0.038	0.043	0.036
%	Al_2O_3	0.05886	0.0903	0.0921	0.09	0.0874	0.089	0.091	0.090	0.086	0.074	0.079	0.067	0.066	0.066	0.073	0.061
%	Fe_2O_3	0.03470	0.0635	0.0618	0.06	0.0592	0.06	0.061	0.059	0.058	0.049	0.051	0.044	0.043	0.042	0.048	0.040
%	CaO	0.23734	0.2559	0.2572	0.27	0.2695	0.28	0.28	0.27	0.27	0.24	0.25	0.23	0.21	0.21	0.24	0.18
%	Cd	0.00080	0.0012	0.0014	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.0009	0.0009	0.0012	0.0009
%	Cr	0.00200	0.0029	0.0025	0.002	0.0022	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.0017
%	Cu	0.00205	0.0006	0.0008	0.0005	0.0004	0.0005	0.0004	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0006	0.0004
%	H_2SO_4	0.52421	0.5668	0.5832	0.60	0.6011	0.59	0.60	0.59	0.59	0.51	0.55	0.51	0.48	0.46	0.50	0.42
%	K	0.24062	0.0237	0.0168													
%	Na	0.09508	0.0977	0.1057													
%	Ni	0.00059	0.001	0.0008	0.00	0.0007	0.0007	0.0008	0.0008	0.0008	0.0007	0.0006	0.0007	0.0006	0.0005	0.0007	0.0005
%	Si	0.30198	0.3064	0.3028	0.31	0.3339	0.33	0.32	0.34	0.32	0.30	0.29	0.28	0.27	0.32	0.28	0.27
%	Ti	0.00066	0.0005	0.0004	0.0004	0.0003	0.0004	0.0004	0.0004	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0004	0.0003
%	V	0.00316	0.0047	0.0045	0.005	0.0041	0.004	0.004	0.004	0.004	0.0037	0.0041	0.0034	0.0032	0.0032	0.0036	0.0031
%	Y	0.00067	0.001	0.0009	0.0009	0.0008	0.0009	0.0009	0.001	0.0009	0.0008	0.0008	0.0007	0.0007	0.0007	0.0008	0.0006
%	Zn	0.00730	0.0113	0.0114	0.011	0.0105	0.010	0.011	0.011	0.011	0.010	0.011	0.009	0.009	0.009	0.010	0.008
(ppm)	As	1.95000															
(ppm)	B	4.55083															
(ppm)	Ba	0.64750															
(ppm)	Co	0.11250															
(ppm)	Li	0.39583															
(ppm)	Mn	5.97500															
(ppm)	Sb	0.47818															
(ppm)	U	12.04167															
(ppm)	TBP	13.8		5			0					30	19				6
(ppm)	Isopar			0			0						ND				ND
(ppm)	TOC	23.0		30			29						23				
%	N	0.02		0.02			0.01						0.02				
	pH	1.1															
Cd/P2O5		5.65		6.33	4.81	4.81	4.65	5.10	4.65	4.83	5.03	5.24	5.92	5.52	5.33	6.63	5.52

		Pond Water Average	3/24/2002	Comp 2/27-3/3	Comp 2/21-2/24	Comp 2/15-2/20	Comp 2/11 - 2/14	Comp 2/8 - 2/10	Comp 2/7/2002	Comp 2/6/2002	0600 2/5/2002	Comp 1/4 -2/4	1/3/2002	1/2/2002	Comp 12/27-1/1	Comp 12/20-12/26	Comp 12/1/2001
RPO	F/Si	6.10															
Astaris	F/Si	6.21	5.32	6.05	6.05	6.38	5.78	5.38	5.21	5.27	5.46	5.17	5.85	6.11	5.85	6.41	5.91
%	P_2O_5	1.43	1.49	1.60	1.63	1.61	1.60	1.58	1.57	1.66	1.54	1.50	1.44	1.44	1.47	1.51	1.51
RPO %	F	1.42															
Astaris %	F	1.25	0.90	0.86	0.86	0.95	0.86	0.80	0.81	0.82	0.85	0.84	0.95	0.95	0.91	1.04	1.00
%	MgO	0.03339	0.035	0.036	0.034	0.034	0.034	0.035	0.034	0.035	0.033	0.031	0.029	0.029	0.029	0.029	0.030
%	Al_2O_3	0.05886	0.064	0.065	0.064	0.064	0.065	0.065	0.067	0.067	0.065	0.065	0.056	0.056	0.056	0.056	0.058
%	Fe_2O_3	0.03470	0.039	0.040	0.039	0.039	0.039	0.039	0.038	0.039	0.037	0.035	0.033	0.033	0.033	0.033	0.034
%	CaO	0.23734	0.21	0.20	0.20	0.20	0.20	0.19	0.19	0.23	0.19	0.19	0.20	0.19	0.19	0.19	0.20
%	Cd	0.00080	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
%	Cr	0.00200	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
%	Cu	0.00205	0.0004	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0006	0.0008	0.0008	0.0009	0.0009	0.001
%	H_2SO_4	0.52421	0.45	0.44	0.44	0.44	0.44	0.43	0.43	0.49	0.42	0.43	0.43	0.43	0.43	0.43	0.45
%	K	0.24062															
%	Na	0.09508															
%	Ni	0.00059	0.0006	0.0005	0.0006	0.0005	0.0005	0.0006	0.0007	0.0007	0.0007	0.0006	0.0006	0.0006	0.0006	0.0005	0.0006
%	Si	0.30198	0.25	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.23	0.24	0.24	0.23	0.23	0.24	0.25
%	Ti	0.00066	0.0003	0.0003	0.0003	0.0003	0.0002	0.0002	0.0002	0.0006	0.0003	0.0002	0.0003	0.0003	0.0003	0.0003	0.0002
%	V	0.00316	0.003	0.003	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
%	Y	0.00067	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0006	0.0007	0.0007	0.0007	0.0006	0.0007
%	Zn	0.00730	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.008	0.008	0.007	0.007	0.007	0.007	0.008
(ppm)	As	1.95000															
(ppm)	B	4.55083															
(ppm)	Ba	0.64750															
(ppm)	Co	0.11250															
(ppm)	Li	0.39583															
(ppm)	Mn	5.97500															
(ppm)	Sb	0.47818															
(ppm)	U	12.04167															
(ppm)	TBP	13.8															
(ppm)	Isopar																
(ppm)	TOC	23.0															
%	N	0.02															
	pH	1.1															
Cd/P2O5		5.65	6.04	5.63	5.52	5.59	5.63	5.70	5.73	5.42	5.19	5.33	5.56	5.56	5.44	5.30	5.30

		Pond Water Average	Comp 12/18/2001	12/16/2001						0600 12/4/2001	1800 12/4/2001	12/3/2001	12/2/2001	12/1/2001	11/30/2001	11/29/2001	0600 11/28/2001
RPO	F/Si	6.10															
Astaris	F/Si	6.21	5.26	5.57	5.57	5.69	5.69	5.69	5.48	7.63	7.72	8.38	8.01	8.33	7.72	7.98	8.09
%	P_2O_5	1.43	1.49	1.49	1.49	1.48	1.52	1.50	1.51	1.56	1.55	1.59	1.60	1.60	1.38	1.61	1.64
RPO %	F	1.42															
Astaris %	F	1.25	0.89	0.98	0.98	1.00	1.00	1.00	1.00	0.98	0.94	1.02	1.03	1.07	0.94	1.08	1.04
%	MgO	0.03339	0.029	0.029	0.029	0.030	0.030	0.030	0.030	0.033	0.032	0.031	0.031	0.033	0.032	0.033	0.033
%	Al_2O_3	0.05886	0.057	0.057	0.057	0.057	0.057	0.058	0.058	0.062	0.060	0.059	0.059	0.061	0.053	0.061	0.062
%	Fe_2O_3	0.03470	0.034	0.034	0.034	0.034	0.034	0.034	0.035	0.037	0.036	0.036	0.035	0.036	0.032	0.037	0.036
%	CaO	0.23734	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.21	0.21	0.22	0.21	0.23	0.23
%	Cd	0.00080	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0009	0.0008	0.0008	0.0006	0.0008	0.0009
%	Cr	0.00200	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
%	Cu	0.00205	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
%	H_2SO_4	0.52421	0.45	0.46	0.46	0.47	0.47	0.48	0.47	0.50	0.49	0.48	0.49	0.51	0.48	0.52	0.52
%	K	0.24062															
%	Na	0.09508															
%	Ni	0.00059	0.0006	0.0006	0.0006	0.0006	0.0006	0.0005	0.0006	0.0006	0.0006	0.0006	0.0004	0.0005	0.0003	0.0005	0.0005
%	Si	0.30198	0.25	0.26	0.26	0.26	0.26	0.26	0.27	0.19	0.18	0.18	0.19	0.19	0.18	0.20	0.19
%	Ti	0.00066	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0004	0.0004	0.0004	0.0004	0.0002	0.0003	0.0002	0.0003	0.0004
%	V	0.00316	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003	0.004	0.003	0.004	0.004
%	Y	0.00067	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0005	0.0006	0.0005	0.0006	0.0007
%	Zn	0.00730	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.008	0.008
(ppm)	As	1.95000															
(ppm)	B	4.55083															
(ppm)	Ba	0.64750															
(ppm)	Co	0.11250															
(ppm)	Li	0.39583															
(ppm)	Mn	5.97500															
(ppm)	Sb	0.47818															
(ppm)	U	12.04167															
(ppm)	TBP	13.8															
(ppm)	Isopar																
(ppm)	TOC	23.0															
%	N	0.02															
	pH	1.1															
Cd/P2O5		5.65	5.37	5.37	5.37	5.41	5.26	5.33	5.96	5.77	5.81	5.66	5.00	5.00	4.35	4.97	5.49

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		Pond Water Average	1800 11/28/2001	0600 11/27/2001	1800 11/27/2001	0600 11/26/2001	1800 11/26/2001	0600 11/25/2001	11/24/2001	11/23/2001	11/22/2001	11/21/2001	0600 11/20/2001	1800 11/20/2001	0600 11/19/2001	1800 11/19/2001	0600 11/18/2001
RPO	F/Si	6.10															
Astaris	F/Si	6.21	7.80	8.13	8.01	4.57	4.76	7.47	7.39	7.63	7.39	7.39	6.47	6.81	6.46	6.50	6.41
%	P_2O_5	1.43	1.43	1.59	1.58	1.25	1.53	1.57	1.61	1.25	1.46	1.43	1.27	1.26	1.19	1.14	1.13
RPO %	F	1.42															
Astaris %	F	1.25	0.95	1.10	1.03	1.05	1.03	0.91	0.95	0.98	0.95	0.95	1.27	1.29	1.31	1.32	1.30
%	MgO	0.03339	0.034	0.033	0.032	0.031	0.033	0.031	0.032	0.029	0.031	0.031	0.029	0.029	0.03	0.030	0.029
%	Al_2O_3	0.05886	0.053	0.059	0.058	0.051	0.06	0.059	0.060	0.051	0.056	0.054	0.051	0.051	0.053	0.053	0.051
%	Fe_2O_3	0.03470	0.032	0.035	0.034	0.031	0.036	0.034	0.035	0.029	0.032	0.032	0.029	0.029	0.031	0.031	0.029
%	CaO	0.23734	0.21	0.23	0.23	0.25	0.24	0.23	0.24	0.24	0.24	0.23	0.24	0.24	0.25	0.26	0.25
%	Cd	0.00080	0.0008	0.0008	0.0008	0.0008	0.0009	0.0008	0.0008	0.0007	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
%	Cr	0.00200	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
%	Cu	0.00205	0.002	0.002	0.002	0.002	0.002	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
%	H_2SO_4	0.52421	0.47	0.52	0.5	0.52	0.51	0.50	0.52	0.51	0.51	0.51	0.51	0.51	0.54	0.56	0.54
%	K	0.24062													0.034	0.037	0.034
%	Na	0.09508													0.093	0.095	0.094
%	Ni	0.00059	0.0006	0.0006	0.0005	0.0044	0.001	0.0006	0.0006	0.0005	0.0006	0.0006	0.0005	0.0005	0.0009	0.0009	0.001
%	Si	0.30198	0.18	0.20	0.19	0.34	0.32	0.18	0.19	0.19	0.19	0.19	0.29	0.28	0.30	0.30	0.30
%	Ti	0.00066	0.0003	0.0004	0.0004	0.0004	0.0004	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0004	0.0004	0.0003
%	V	0.00316	0.003	0.004	0.004	0.003	0.004	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
%	Y	0.00067	0.0006	0.0006	0.0006			0.0006	0.0006	0.0005	0.0006	0.0006	0.0006	0.0005	0.0006	0.0006	0.0006
%	Zn	0.00730	0.007	0.008	0.008	0.008	0.009	0.008	0.008	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007
(ppm)	As	1.95000															
(ppm)	B	4.55083															
(ppm)	Ba	0.64750															
(ppm)	Co	0.11250															
(ppm)	Li	8.39583															
(ppm)	Mn	5.97500															
(ppm)	Sb	0.47818															
(ppm)	U	12.04167															
(ppm)	TBP	13.8															
(ppm)	Isopar																
(ppm)	TOC	23.0															
%	N	0.02															
	pH	1.1															
Cd/P2O5		5.65	5.59	5.03	5.06	6.40	5.88	5.10	4.97	5.60	5.48	4.90	5.51	5.56	5.88	6.14	6.19

		Pond Water Average	0600 11/14/2001	1800 11/14/2001	0600 11/13/2001	0600 11/12/2001	11/11/2001	11/10/2001	11/9/2001	0600 11/8/2001	0600 11/7/2001	11/6/2001	11/6/2001	1800 11/5/2001	0600 11/5/2001	11/4/2001	11/3/2001
RPO	F/Si	6.10															
Astaris	F/Si	6.21	6.31	6.43	6.77	7.04	6.63	6.46	6.46	6.12	6.27	5.77	5.91	5.77	5.91	5.64	5.78
%	P_2O_5	1.43	1.15	1.13	1.13	1.11	1.11	1.12	1.12	1.13	1.13	1.22	1.18	1.22	1.18	1.19	1.21
RPO %	F	1.42															
Astaris %	F	1.25	1.11	1.13	1.19	1.19	1.21	1.18	1.18	1.20	1.23	1.25	1.24	1.25	1.24	1.26	1.29
%	MgO	0.03339	0.029	0.029	0.029	0.028	0.030	0.030	0.031	0.029	0.03	0.032	0.031	0.032	0.031	0.032	0.033
%	Al_2O_3	0.05886	0.050	0.049	0.050	0.048	0.050	0.051	0.052	0.050	0.051	0.054	0.054	0.054	0.054	0.056	0.057
%	Fe_2O_3	0.03470	0.028	0.027	0.028	0.027	0.027	0.029	0.029	0.027	0.027	0.029	0.029	0.029	0.029	0.031	0.031
%	CaO	0.23734	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.24
%	Cd	0.00080	0.0007	0.0006	0.0007	0.0006	0.0006	0.0007	0.0007	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007
%	Cr	0.00200	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
%	Cu	0.00205	0.002	0.003	0.002	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003
%	H_2SO_4	0.52421	0.50	0.50	0.50	0.49	0.51	0.50	0.51	0.49	0.48	0.52	0.5	0.52	0.5	0.53	0.54
%	K	0.24062															
%	Na	0.09508															
%	Ni	0.00059	0.0005	0.0005	0.0005	0.0004	0.0004	0.0004	0.0004	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
%	Si	0.30198	0.26	0.26	0.26	0.25	0.27	0.27	0.27	0.29	0.29	0.32	0.31	0.32	0.31	0.33	0.33
%	Ti	0.00066	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
%	V	0.00316	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
%	Y	0.00067	0.0005	0.0005	0.0006	0.0005	0.0005	0.0006	0.0006	0.0005	0.0005	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
%	Zn	0.00730	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
(ppm)	As	1.95000															
(ppm)	B	4.55083															
(ppm)	Ba	0.64750															
(ppm)	Co	0.11250															
(ppm)	Li	0.39583															
(ppm)	Mn	5.97500															
(ppm)	Sb	0.47818															
(ppm)	U	12.04167															
(ppm)	TBP	13.8															
(ppm)	Isopar																
(ppm)	TOC	23.0															
%	N	0.02															
	pH	1.1															
Cd/P2O5		5.65	6.09	5.31	6.19	5.41	5.41	6.25	6.25	5.31	5.31	4.92	5.08	4.92	5.08	5.88	5.79

		Pond Water Average	11/2/2001	1800 11/1/2001	0600 11/1/2001	0600 10/31/2001	600 10/30/2001	600 10/29/2001	10/28/2001	10/27/2001	600 10/25/2001	600 10/24/2001	1800 10/23/2001	600 10/23/2001	1800 10/22/2001	600 10/22/2001	10/21/2001
RPO	F/Si	6.10															
Astaris	F/Si	6.21	5.73	6.05	6.19	6.47	5.82	5.74	5.83	5.83	5.87	6.04	5.96	6.12	6.08	6.12	6.27
%	P_2O_5	1.43	1.20	1.23	1.25	1.26	1.30	1.33	1.34	1.33	1.39	1.35	1.30	1.36	1.28	1.29	1.26
RPO %	F	1.42															
Astaris %	F	1.25	1.28	1.31	1.34	1.40	1.30	1.32	1.34	1.34	1.35	1.39	1.41	1.45	1.48	1.49	1.57
%	MgO	0.03339	0.033	0.032	0.033	0.033	0.034	0.035	0.035	0.034	0.034	0.035	0.032	0.033	0.033	0.033	0.033
%	Al_2O_3	0.05886	0.057	0.055	0.056	0.057	0.060	0.060	0.062	0.060	0.059	0.054	0.057	0.059	0.054	0.054	0.052
%	Fe_2O_3	0.03470	0.031	0.030	0.030	0.030	0.032	0.033	0.033	0.032	0.033	0.033	0.031	0.032	0.031	0.032	0.032
%	CaO	0.23734	0.24	0.23	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.26	0.26	0.26	0.27
%	Cd	0.00080	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0007	0.002	0.0007	0.0007	0.0007
%	Cr	0.00200	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.002	0.002
%	Cu	0.00205	0.003	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
%	H_2SO_4	0.52421	0.54	0.53	0.54	0.54	0.57	0.56	0.57	0.55	0.55	0.55	0.53	0.54	0.55	0.55	0.55
%	K	0.24062															
%	Na	0.09508															
%	Ni	0.00059	0.0005	0.0005	0.0005	0.0006	0.0005	0.0005	0.0004	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
%	Si	0.30198	0.33	0.32	0.32	0.32	0.33	0.34	0.34	0.34	0.34	0.34	0.35	0.35	0.36	0.36	0.37
%	Ti	0.00066	0.0003	0.0003	0.0003	0.0004	0.0004	0.0005	0.0004	0.0004	0.0004	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004
%	V	0.00316	0.003	0.003	0.003	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
%	Y	0.00067	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0006	0.0006	0.0006	0.0006	0.0006
%	Zn	0.00730	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.007	0.007	0.007	0.007
(ppm)	As	1.95000															
(ppm)	B	4.55083															
(ppm)	Ba	0.64750															
(ppm)	Co	0.11250															
(ppm)	Li	0.39583															
(ppm)	Mn	5.97500															
(ppm)	Sb	0.47818															
(ppm)	U	12.04167															
(ppm)	TBP	13.8															
(ppm)	Isopar																
(ppm)	TOC	23.0															
%	N	0.02															
	pH	1.1															
Cd/P2O5		5.65	5.83	5.69	5.60	5.56	5.38	5.26	5.22	5.26	5.04	5.93	5.38	14.71	5.47	5.43	5.56

		Pond Water Average	10/20/2001	10/19/2001	10/18/2001	1800 10/16/2001	600 10/16/2001	1800 10/15/2001	600 10/15/2001	1800 10/14/2001	600 10/14/2001	1800 10/13/2001	600 10/13/2001	1800 10/12/2001	600 10/11/2001	1800 10/10/2001	600 10/10/2001
RPO	F/Si	6.10															
Astaris	F/Si	6.21	6.19	6.19	6.11	6.41	5.95	5.87	5.83	5.99	6.07	6.15	5.75	5.91	5.79	5.67	5.75
%	P_2O_5	1.43	1.23	1.27	1.25	1.24	1.27	1.29	1.25	1.32	1.28	1.34	1.32	1.36	1.32	1.30	1.32
RPO %	F	1.42															
Astaris %	F	1.25	1.59	1.55	1.53	1.56	1.49	1.47	1.46	1.50	1.52	1.54	1.44	1.48	1.41	1.42	1.44
%	MgO	0.03339	0.034	0.034	0.034	0.031	0.032	0.032	0.031	0.033	0.031	0.034	0.033	0.033	0.032	0.033	0.033
%	Al_2O_3	0.05686	0.051	0.053	0.053	0.054	0.055	0.055	0.054	0.056	0.055	0.058	0.058	0.059	0.057	0.057	0.058
%	Fe_2O_3	0.03470	0.032	0.032	0.032	0.030	0.031	0.031	0.031	0.032	0.031	0.033	0.033	0.033	0.032	0.032	0.033
%	CaO	0.23734	0.27	0.27	0.27	0.23	0.24	0.24	0.23	0.25	0.24	0.25	0.25	0.26	0.25	0.26	0.26
%	Cd	0.00080	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
%	Cr	0.00200	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
%	Cu	0.00205	0.003	0.003	0.003	0.002	0.003	0.003	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
%	H_2SO_4	0.52421	0.56	0.56	0.56	0.52	0.53	0.53	0.52	0.55	0.53	0.57	0.56	0.58	0.57	0.57	0.58
%	K	0.24062															
%	Na	0.09508															
%	Ni	0.00059	0.0005	0.0004	0.0004	0.0005	0.0006	0.0006	0.0005	0.0006	0.0006	0.0006	0.0007	0.0006	0.0006	0.0005	0.0005
%	Si	0.30198	0.38	0.37	0.37	0.36	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.37	0.37
%	Ti	0.00066	0.0004	0.0004	0.0004	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0005	0.0005	0.0005
%	V	0.00316	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
%	Y	0.00067	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0007	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
%	Zn	0.00730	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.007	0.006	0.007	0.006	0.006	0.007
(ppm)	As	1.95000															
(ppm)	B	4.55083															
(ppm)	Ba	0.64750															
(ppm)	Co	0.11250															
(ppm)	Li	0.39583															
(ppm)	Mn	5.97500															
(ppm)	Sb	0.47818															
(ppm)	U	12.04167															
(ppm)	TBP	13.8															
(ppm)	Isopar																
(ppm)	TOC	23.0															
%	N	0.02															
	pH	1.1															
Cd/P2O5		5.65	5.69	5.51	5.60	6.45	6.30	6.20	6.40	6.06	6.25	5.97	6.06	5.88	6.06	6.15	6.06

AGR_010285

		Pond Water Average	1800 10/9/2001	600 10/9/2001	1800 10/8/2001	600 10/8/2001	1800 10/7/2001	600 10/7/2001	unknown	unknown	unknown	600 10/4/2001	600 10/3/2001	1800 10/2/2001	600 10/2/2001	1800 10/1/2001	600 10/1/2001
RPO	F/Si	6.10															
Astaris	F/Si	6.21	5.37	5.45	5.49	5.76	5.68	5.84	5.79	5.76	5.60	5.51	5.52	5.59	5.67	5.65	5.09
%	P_2O_5	1.43	1.32	1.32	1.34	1.33	1.32	1.35	1.31	1.35	1.32	1.32	1.37	1.38	1.34	0.92	0.92
RPO %	F	1.42															
Astaris %	F	1.25	1.38	1.40	1.41	1.48	1.46	1.50	1.45	1.48	1.44	1.38	1.42	1.40	1.42	1.49	1.48
%	MgO	0.03339	0.034	0.033	0.032	0.032	0.032	0.033	0.032	0.032	0.033	0.032	0.032	0.033	0.032	0.022	0.021
%	Al_2O_3	0.05886	0.058	0.058	0.056	0.057	0.056	0.057	0.054	0.058	0.057	0.055	0.056	0.057	0.056	0.035	0.036
%	Fe_2O_3	0.03470	0.033	0.032	0.032	0.032	0.032	0.032	0.031	0.038	0.033	0.032	0.033	0.033	0.032	0.021	0.02
%	CaO	0.23734	0.27	0.26	0.26	0.26	0.27	0.26	0.26	0.27	0.27	0.26	0.27	0.28	0.27	0.15	0.15
%	Cd	0.00080	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0005	0.0005
%	Cr	0.00200	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001
%	Cu	0.00205	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002
%	H_2SO_4	0.52421	0.59	0.57	0.57	0.58	0.58	0.58	0.57	0.59	0.59	0.58	0.60	0.61	0.59	0.35	0.33
%	K	0.24062															
%	Na	0.09508										0.098	0.099	0.11	0.11	0.06	0.064
%	Ni	0.00059	0.0005	0.0005	0.0005	0.0004	0.0006	0.0006	0.0005	0.0005	0.0006	0.0005	0.0005	0.0005	0.0005	0.0003	0.0003
%	Si	0.30198	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.38	0.38	0.37	0.38	0.37	0.37	0.39	0.43
%	Ti	0.00066	0.0005	0.0005	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.0005		0.0008	0.0007		
%	V	0.00316	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002
%	Y	0.00067	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0003	0.0004
%	Zn	0.00730	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.007	0.007	0.006	0.007	0.007	0.006	0.004	0.004
(ppm)	As	1.95000															
(ppm)	B	4.55083															
(ppm)	Ba	0.64750															
(ppm)	Co	0.11250															
(ppm)	Li	0.39583															
(ppm)	Mn	5.97500															
(ppm)	Sb	0.47818															
(ppm)	U	12.04167															
(ppm)	TBP	13.8															
(ppm)	Isopar																
(ppm)	TOC	23.0															
%	N	0.02															
	pH	1.1										0.87		1.33	0.98	1.08	1.11
Cd/P2O5		5.65	6.06	6.06	5.97	6.02	6.06	5.93	6.11	5.93	6.06	6.06	5.84	5.80	5.97	5.43	5.43

AGR_010286

		Pond Water Average	600 9/30/2001	600 9/29/2001	600 9/26/2001	1800 9/26/2001	600 9/26/2001	600 9/25/2001	1800 9/24/2001	600 9/23/2001	600 9/22/2001	600 9/21/2001	600 9/20/2001	1800 9/20/2001	600 9/19/2001	1800 9/19/2001	600 9/18/2001
RPO	F/Si	6.10											6.04	6.04	5.96	6.00	5.87
Astaris	F/Si	6.21	5.15	5.19	9.06	9.06	5.83	6.08	6.39	6.26	6.27	6.32	5.87	6.09	6.04	5.87	6.04
%	P_2O_5	1.43	1.33	1.25	1.40	1.39	1.40	1.42	1.41	1.42	1.52	1.49	1.19	1.47	1.46	1.48	1.51
RPO %	F	1.42											1.47	1.39	1.37	1.38	1.39
Astaris %	F	1.25	1.29	1.30	1.41	1.41	1.34	1.44	1.47	1.44	1.40	1.41	1.43	1.40	1.39	1.35	1.43
%	MgO	0.03339	0.031	0.033	0.032	0.033	0.033	0.033	0.032	0.033	0.033	0.033	0.028	0.034	0.033	0.033	0.034
%	Al_2O_3	0.05886	0.051	0.055	0.055	0.057	0.057	0.056	0.047	0.059	0.059	0.059	0.049	0.062	0.057	0.056	0.058
%	Fe_2O_3	0.03470	0.031	0.032	0.032	0.032	0.033	0.033	0.032	0.033	0.033	0.033	0.027	0.034	0.034	0.033	0.035
%	CaO	0.23734	0.24	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.20	0.26	0.26	0.25	0.27
%	Cd	0.00080	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0008	0.0008	0.0007	0.0008
%	Cr	0.00200	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
%	Cu	0.00205	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.003	0.003	0.003	0.003
%	H_2SO_4	0.52421	0.52	0.56	0.57	0.57	0.58	0.59	0.58	0.58	0.58	0.58	0.44	0.58	0.58	0.58	0.59
%	K	0.24062							0.03	0.03	0.03	0.03	0.36	0.37	0.57	0.65	0.86
%	Na	0.09508	0.086	0.092	0.1	0.090	0.11	0.089	0.061	0.097	0.094	0.093	0.11	0.11	0.11	0.11	0.11
%	Ni	0.00059	0.0005	0.0006	0.0005	0.0005	0.0006	0.0007	0.0007	0.0005	0.0005	0.0006	0.0005	0.0006	0.0006	0.0002	0.0004
%	Si	0.30198	0.37	0.37	0.23	0.23	0.34	0.35	0.34	0.34	0.33	0.33	0.36	0.34	0.34	0.34	0.35
%	Ti	0.00066			0.0004	0.0005	0.0009		0.0005	0.0005	0.0005	0.0005	0.002	0.003	0.004	0.005	0.006
%	V	0.00316	0.003	0.003	0.0031	0.003	0.003	0.003	0.002	0.004	0.004	0.004	0.002	0.003	0.002	0.002	0.002
%	Y	0.00067	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0006	0.0007	0.0008	0.0007	0.0008
%	Zn	0.00730	0.006	0.006	0.006	0.007	0.007	0.007	0.006	0.007	0.007	0.007	0.005	0.007	0.007	0.007	0.007
(ppm)	As	1.95000							2.1	2.3	2.2	2.3	2.1	1.1	1.7	1.8	2.7
(ppm)	B	4.55083							5.8	4.6	5.4	6.8	3.5	4.8	3.7	7.0	9.7
(ppm)	Ba	0.64750							0.63	0.73	0.59	0.54	0.66	0.60	0.65	0.60	0.68
(ppm)	Co	0.11250							0.10	0.09	0.10	0.08	0.11	0.10	0.11	0.13	0.1
(ppm)	Li	0.39583							0.39	0.41	0.41	0.42	0.39	0.39	0.39	0.39	0.39
(ppm)	Mn	5.97500							5.7	6.2	6.2	6.2	5.8	5.8	5.9	6.0	6.1
(ppm)	Sb	0.47818							0.36	0.62	0.49	0.69	0.44	0.51	0.41	0.64	0.74
(ppm)	U	12.04167							11.0	11.5	11.6	11.8	10.8	12.0	12.5	11.7	11.5
(ppm)	TBP	13.8															
(ppm)	Isopar																
(ppm)	TOC	23.0															
%	N	0.02															
	pH	1.1	1.11	1.13	0.99	1.01	1.11	1.01	1.08	1.10	1.13	1.54	1.24	1.41			
Cd/P2O5		5.65	5.26	6.40	5.71	5.76	5.71	5.63	5.67	5.63	5.26	5.37	5.88	5.44	5.48	4.73	5.30

AGR_010287

		Pond Water Average	600 9/17/2001	1800 9/17/2001	9/17/2001
RPO	F/Si	6.10	6.17	6.26	6.44
Astaris	F/Si	6.21	6.70	6.48	6.61
%	P_2O_5	1.43	1.48	1.49	1.51
RPO %	F	1.42	1.42	1.44	1.48
Astaris %	F	1.25	1.54	1.49	1.52
%	MgO	0.03339	0.034	0.033	0.034
%	Al_2O_3	0.05886	0.06	0.06	0.059
%	Fe_2O_3	0.03470	0.034	0.035	0.033
%	CaO	0.23734	0.26	0.27	0.25
%	Cd	0.00080	0.0008	0.0008	0.0008
%	Cr	0.00200	0.002	0.002	0.002
%	Cu	0.00205	0.003	0.003	0.003
%	H_2SO_4	0.52421	0.59	0.60	0.58
%	K	0.24062	0.50	0.49	0.024
%	Na	0.09508	0.08	0.096	0.093
%	Ni	0.00059	0.0005	0.0005	0.0005
%	Si	0.30198	0.34	0.34	0.34
%	Ti	0.00066	0.003	0.003	0.0005
%	V	0.00316	0.003	0.003	0.003
%	Y	0.00067	0.0008	0.0008	0.0007
%	Zn	0.00730	0.007	0.007	0.006
(ppm)	As	1.95000	1.8	1.7	1.6
(ppm)	B	4.55083	0.81	1.1	1.4
(ppm)	Ba	0.64750	0.66	0.68	0.75
(ppm)	Co	0.11250	0.14	0.13	0.16
(ppm)	Li	0.39583	0.39	0.39	0.39
(ppm)	Mn	5.97500	5.6	5.7	6.5
(ppm)	Sb	0.47818	0.09	0.27	<0.1
(ppm)	U	12.04167	13.3	12.5	14.3
(ppm)	TBP	13.8			
(ppm)	Isopar				
(ppm)	TOC	23.0			
%	N	0.02			
	pH	1.1			
Cd/P2O5		5.65	5.41	5.37	5.30

Phos Scrubber Water samples

see instructions on Instruction sheet

Date	Time	Pond H2O P2O5	Pond H2O %F	1st Stage P2O5	1st Stage % F	2nd Stage P2O5	2nd Stage % F	3rd Stage P2O5	3rd Stage % F	3rd Stage Temp	Blowdown P2O5	% F	Blowdown Temp
10-May-01			1.43		1.43		1.36		1.31				
24-May-01	0800		1.24		1.20		1.35		1.12			1.31	
24-May-01	1200		1.67		1.52		1.50		1.55			1.65	
8-Jun-01	0600	0.93		0.91		0.79		0.98			0.93		
8-Jun-01	0800	1.05	1.19	1.01	1.06	1.01	1.08	0.86	0.98		1.02	1.06	
8-Jun-01	1330	1.07	1.40	0.99	1.26	0.98	1.07	0.83	0.98		1.02	1.07	
8-Jun-01	1830							0.81	1.08		1.03	1.12	
9-Jun-01	1330							0.87	1.21		1.07	1.28	
9-Jun-01	1830							0.87	1.10		1.07	1.26	
9-Jun-01	2300							0.85	1.35		1.04	1.37	
9-Jun-01	0500							0.89	1.05		1.07	1.05	
10-Jun-01	1200							0.005	0.012		0.002	0.00775	
10-Jun-01	1800	0.98	1.45					0.84	1.01		1.02	1.32	
10-Jun-01	0500							0.84	1.21		1.02	1.03	
11-Jun-01	1200	1.08	1.79	1.01	1.41	0.99	1.32	0.81	1.14		1.00	1.34	
11-Jun-01	1800							0.77	1.08		1.02	1.21	
12-Jun-01	1030							0.70	1.10		0.97	1.39	
12-Jun-01	1630							0.66	1.05		0.96	1.44	
13-Jun-01	0930							0.63	1.05		0.94	1.44	
13-Jun-01	1800							0.67	1.06		0.98	1.44	
14-Jun-01	1000							0.70	0.87		1.00	0.93	
14-Jun-01	1700							0.64	1.03		0.92	1.09	
15-Jun-01	1800							0.68	0.83		0.96	1.01	
15-Jun-01	2000							0.09	0.16		0.90	0.78	
15-Jun-01	2400							0.08	0.18	72	0.90	1.27	78
15-Jun-01	0400							0.08	0.18	78	0.90	1.34	92
16-Jun-01	1700							0.10	0.16		0.88	1.09	
17-Jun-01	1000							0.11	0.15	78	0.94	0.91	90
17-Jun-01	1700							0.13	0.16	78	0.91	0.97	92
18-Jun-01	1000							0.12	0.20	78	0.92	0.93	88
19-Jun-01	1000							0.14	0.21	79	0.95	1.40	88
19-Jun-01	1800							0.17	0.21	94	0.97	1.63	85
20-Jun-01	1100							0.17	0.20	79	0.93	0.89	92
21-Jun-01	1800							0.23	0.36	90	0.94	1.23	92
22-Jun-01	0800							0.14	0.22	84	0.94	1.27	94
22-Jun-01	1200							0.14	0.21	82	0.96	1.27	94

New Well Water Analysis

	Well 1120	Well 1415	Well 1510
P ppm	10	10	10
Mg ppm	97.32	90.73	90.67
Al ppm	0.7561	0.7561	0.5041
Fe ppm	0.8716	1.416	0.4462
Ca ppm	228.2	231	229.2
Cd ppm			
Cr ppm	0.0093		
Cu ppm	0.0185		0.0023
S ppm	422.9	287	389.2
K ppm	10.61	12.25	4.634
Na ppm	172	84.23	158.7
Ni ppm	0.0434	0.1445	0.0072
Si ppm	23.85	22.28	21.53
Ti ppm	0.0394	0.0512	0.0236
V ppm		0.006	0.014
Y ppm	0.0037	0.0006	
Zn ppm	0.0057	0.00057	0.0057
pH	6.3	6.4	6.3

	Date	4/2/2002
	Time	09:10
	ID	Fluoride Scubber
		Discharge (DAP)
wt. %	P2O5	0.047
ppm	F	204
wt. %	N	0.02
wt. %	MgO	0.0010
wt. %	Al2O3	0.0021
wt. %	Fe2O3	0.0028
wt. %	CaO	0.0006
wt. %	Cd	ND
wt. %	Cr	ND
wt. %	Cu	ND
wt. %	K	ND
wt. %	Na	ND
wt. %	Ni	0.0001
wt. %	H2SO4	0.0042
wt. %	Si	0.0974
wt. %	Ti	ND
wt. %	V	ND
wt. %	Zn	0.0004

ND = Not Detected

ND = Not Detected

	Date	3/18/2002	3/18/2002	3/18/2002	3/18/2002	3/18/2002	3/18/2002	3/18/2002	3/18/2002	3/18/2002	3/18/2002	3/18/2002	3/18/2002	3/18/2002	3/18/2002	3/18/2002	3/18/2002	3/18/2002
	Time	1044	1100	1104	1120	1110	1109	1300	1300	1010	1258	1325	1223	1315	1309	1300	1315	1316
	ID	GF1	PN1	GS1	GSO1	DS1	DSO1	BF01	BF11	FS1	GF2	PN2	GS2	GSO2	DS2	DSO2	BF02	BF12
	Source	Gran Fan Outlet Drain	Pressed Tank	Gran Scrubber Inlet	Gran Scrubber Outlet	Dryer Scrubber Inlet	Dryer Scrubber Outlet	Bulk Flow Cooler Outlet	Bulk Flow Cooler Inlet	Flocculite Scrubber Drain	Gran Fan Outlet Drain	Pressed Tank	Gran Scrubber Inlet	Gran Scrubber Outlet	Dryer Scrubber Inlet	Dryer Scrubber Outlet	Bulk Flow Cooler Outlet	Bulk Flow Cooler Inlet
wt. %	P2O5	0.0005	14.04	2.00	2.75	1.64	1.67		21.75	0.015	0.0100	20.19	1.95	1.95	1.10	1.10		23.23
ppm	F	545	4020	2103	2305	645	710		4611		191	1507	588	585	276	289		2258
wt. %	Si	ND	0.10	2.99	3.37	1.58	1.61		10.15	0.04	0.03	8.02	2.58	2.58	1.28	1.32		16.94
wt. %	MgO	0.002	2.82	0.17	0.17	0.13	0.13		1.89	0.001	0.002	0.53	0.139	0.14	0.074	0.080		0.71
wt. %	Al2O3	0.0001	0.39	0.091	0.091	0.05	0.051		0.85	ND	0.001	1.38	0.07	0.072	0.044	0.048		1.62
wt. %	Fe2O3	0.006	0.22	0.044	0.043	0.028	0.028		0.42	0.001	0.01	0.53	0.036	0.037	0.023	0.025		0.94
wt. %	Ca	0.003	0.50	0.050	0.050	0.044	0.045		0.49	0.0001	0.01	0.101	0.047	0.040	0.030	0.031		0.144
wt. %	Cd	ND	0.0231	0.0015	0.0015	0.0012	0.0012		0.0228	ND	ND	0.0054	0.0013	0.0014	0.0006	0.0006		0.0003
wt. %	Cr	0.0001	0.0118	0.0022	0.0021	0.0014	0.0014		0.0206	ND	0.0002	0.044	0.0023	0.0023	0.0015	0.0015		0.051
wt. %	Cu	0.00001	0.0168	0.001	0.0011	0.0007	0.0007		0.0115	ND	0.0001	0.0001	0.0007	0.0007	0.0003	0.0003		0.0007
wt. %	K	0.0002	0.0277	0.0052	0.0058	0.0043	0.0046		0.0443	0.0002	ND	0.052	0.004	0.0049	0.0026	0.0027		0.005
wt. %	Na	0.00002	0.0379	0.0090	0.0105	0.0075	0.0074		0.0569	0.0003	0.0003	0.059	0.0069	0.0072	0.0047	0.0048		0.060
wt. %	Ni	0.0002	0.064	0.0045	0.0052	0.0031	0.0032		0.0544	0.00001	0.0002	0.0145	0.0035	0.0035	0.0018	0.0017		0.021
wt. %	SO4	0.010	34.4	8.47	8.7	5.47	5.53		41.85	0.027	0.0021	31.56	8.85	8.87	5.01	5.20		40.45
wt. %	Ti	0.00004	0.0016	0.0003	0.0003	0.0002	0.0002		0.0034	ND	0.0001	0.0055	0.0003	0.0003	0.0002	0.0002		0.0007
wt. %	V	0.00009	0.0207	0.0042	0.0042	0.0026	0.0026		0.0559	0.00009	0.0002	0.0823	0.0042	0.0043	0.0027	0.0029		0.094
wt. %	Zn	0.0002	0.480	0.0270	0.0285	0.0197	0.0202		0.247	ND	0.0002	0.210	0.026	0.027	0.014	0.0152		0.264
wt. %	H2O							1.09	0.53								2.37	2.67

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Sample Date/Time	User Sample ID	Sample ID	Fluoride wt.%
9/9/2002 6:00	CLCOMP	200000932	1.67
9/16/2002 6:00	CLCOMP	200001954	2.28
9/23/2002 6:00	CLCOMP	200003108	2.58
9/30/2002 6:00	CLCOMP	200004168	1.62
10/7/2002 6:00	CLCOMP	200005233	2.11
10/14/2002 6:00	CLCOMP	200006275	2.36
10/21/2002 6:00	CLCOMP	200007404	1.41
10/28/2002 6:00	CLCOMP	200008562	2.89
11/4/2002 6:00	CLCOMP	200009715	2.46
11/11/2002 6:00	CLCOMP	200010861	2.52
11/18/2002 6:00	CLCOMP	200012031	2.83
11/25/2002 6:00	CLCOMP	200013153	3.61
12/2/2002 6:00	CLCOMP	200014276	2.63
12/9/2002 6:00	CLCOMP	200015417	2.35
12/16/2002 6:00	CLCOMP	200016662	2.06
12/23/2002 6:00	CLCOMP	200017848	2.26
12/30/2002 6:00	CLCOMP	200019047	2.24
1/6/2003 6:00	CLCOMP	200020370	2.21
1/13/2003 6:00	CLCOMP	200021748	2.23
1/20/2003 6:00	CLCOMP	200023022	2.23
1/27/2003 6:00	CLCOMP	200024240	2.08
2/3/2003 6:00	CLCOMP	200025432	1.72
2/10/2003 6:00	CLCOMP	200026995	1.85
2/17/2003 6:00	CLCOMP	200028198	2.05
2/24/2003 6:00	CLCOMP	200029426	2.15
3/3/2003 6:00	CLCOMP	200030760	1.99
3/10/2003 6:00	CLCOMP	200031934	2.33
3/17/2003 6:00	CLCOMP	200033162	2.28
3/24/2003 6:00	CLCOMP	200034512	2.38
3/31/2003 6:00	CLCOMP	200035759	1.80
4/7/2003 6:00	CLCOMP	200036950	2.26
4/14/2003 6:00	CLCOMP	200038197	2.39
4/21/2003 6:00	CLCOMP	200039458	2.30
4/28/2003 6:00	CLCOMP	200040645	2.90
5/5/2003 6:00	CLCOMP	200041879	1.26
5/12/2003 6:00	CLCOMP	200043170	2.68
5/19/2003 6:00	CLCOMP	200044371	2.96
5/26/2003 6:00	CLCOMP	200045658	2.40
6/2/2003 6:00	CLCOMP	200046974	2.46
6/9/2003 6:00	CLCOMP	200048270	2.17
6/16/2003 6:00	CLOMP	200049837	2.29
6/23/2003 6:00	CLCOMP	200050813	2.31
6/30/2003 6:00	CLCOMP	200052084	2.06
7/7/2003 6:00	CLCOMP	200053340	1.99

Sample ID	Sample Date/Time	User Sample ID	Fluoride ppm
200028990	2/19/2003 14:00	Process Condensate	908
200028991	2/19/2003 14:00	NF1 Feed	956
200028992	2/19/2003 14:00	NF1 permeate	934
200028993	2/19/2003 14:00	NF1 Concentrate	1099
200028994	2/19/2003 14:00	Coalescer Exit	1128
200028995	2/19/2003 14:00	Coalescer Bleed	1103
200028996	2/19/2003 14:00	NF2 Feed	935
200028997	2/19/2003 14:00	NF2 Permeate	894
200028998	2/19/2003 14:00	NF2 Concentrate	971

	Date	5/24/2002	5/24/2002	5/24/2002	5/24/2002	5/24/2002	5/24/2002	5/24/2002	5/24/2002	5/24/2002
	Time	1031	1020	1026	1033	1019	1029	1025	1024	1022
	ID	GSI-24	DSI-24	SD-24	GRO-24	VAP-24	PN-24	FS-24	TK21-24	FFS-24
	Source	Gran Scrubber Inlet	Dryer Scrubber Inlet	Stack Drain	Granulator Discharge	Vaporizer Drain	Preneut Tank	Fluoride Scrubber Drain	Tank 21	FFS
wt. %	P_2O_5	22.3	26.2	0.77	51.8	0.032	40.7	0.035	44.3	26.8
ppm	F	6854	6782	254	24798	68	13566	144	15081	6507
wt. %	N	1.32	0.73	0.12	10.85	0.10	2.15	0.13	0.18	
wt. %	MgO	0.81	1.01	0.039	1.44	0.0011	1.11	0.0006	1.16	1.02
wt. %	Al_2O_3	1.52	2.02	0.045	1.87	0.0023	1.46	0.0016	1.44	2.05
wt. %	Fe_2O_3	0.62	0.84	0.011	1.10	0.0004	0.86	0.0001	0.90	0.86
wt. %	CaO	0.67	0.80	0.044	1.04	0.0009	0.70	0.0004	0.73	0.8
wt. %	Cd	0.0022	0.0031	0.0001	0.0212		0.0161		0.0188	0.0024
wt. %	Cr	0.048	0.0602	0.011	0.0511	0.0001	0.0409		0.0373	0.0597
wt. %	Cu		0.0006	0.0001	0.0100		0.0075		0.0088	
wt. %	K	0.0665	0.1431	0.0055	0.1296	0.0018	0.0909		0.0456	0.0497
wt. %	Na	0.0827	0.0954	0.0036	0.2351		0.1185		0.0211	0.0879
wt. %	Ni	0.0195	0.0236	0.0007	0.0318		0.0525		0.025	0.0232
wt. %	H_2SO_4	0.62	0.49	0.039	3.58		2.27	0.0043	2.68	0.42
wt. %	Si							0.01		
wt. %	Ti	0.0048	0.0077	0.0001	0.0070		0.0056		0.0053	0.00736
wt. %	V	0.0916	0.1153	0.0032	0.0985	0.0002	0.0789	0.0001	0.0755	0.1167
wt. %	Zn	0.2789	0.3503	0.0112	0.3554	0.0004	0.2793	0.0002	0.2762	0.35
wt. %	Si_{Cold}									
wt. %	H_2O				3.52					
ppm	TBP									544
ppm	Isopar M									176
	pH	2.25	1.89	2.59		3.10	1.51	2.21		

	Date	4/21/2002	4/21/2002	4/21/2002	4/21/2002	4/21/2002	4/21/2002	4/21/2002	4/21/2002	4/21/2002	4/21/2002	4/21/2002
	Time	1024	1047	1047	1038	1038	1021	1029	1048	1055	1030	1108
	ID	GFO21	PN21	GSI21	GSO21	DSI21	DSO21	FS21	GRO21	SD21	TK21	GFO21A
	Source	Gran Fan Outlet Drain	Preneut Tank	Gran Scrubber Inlet	Gran Scrubber Outlet	Dryer Scrubber Inlet	Dryer Scrubber Outlet	Fluoride Scrubber Drain	Granulator Discharge	Stack Drain	TANK 21 TO DAP	Gran Fan Outlet Drain
wt. %	P2O5	0.011	39.8	4.1	4.2	1.6	1.9	0.01	51.2	2.0	35.7	0.05
ppm	F	0.65	1.78	0.47	0.49	0.15	0.15	0.09	2.65	0.17	1.73	0.51
wt. %	N	0.33	2.63	1.19	1.09	0.75	0.72	0.02	10.66	0.55		0.12
wt. %	MgO	0.002	0.95	0.103	0.11	0.047	0.049	0.0004	1.23	0.008	0.92	0.002
wt. %	Al2O3	0.001	1.37	0.13	0.13	0.047	0.051	0.002	1.79	0.042	1.5	0.002
wt. %	Fe2O3	0.004	0.902	0.077	0.079	0.029	0.033	0.001	1.1	0.004	0.94	0.003
wt. %	CaO	0.0001	0.53	0.078	0.081	0.039	0.044		0.89	0.009	0.59	
wt. %	Cd		0.0195	0.002	0.002	0.0007	0.0008		0.0241	0.0002	0.0204	
wt. %	Cr		0.038	0.003	0.003	0.001	0.001		0.046	0.0002	0.04	
wt. %	Cu		0.0079	0.0008	0.0008	0.0003	0.0004	0.0001	0.009	0.0001	0.009	0.0002
wt. %	K		0.038	0.015	0.021	0.014	0.008	0.004	0.12		0.054	
wt. %	Na		0.11	0.005					0.19		0.066	
wt. %	Ni	0.0002	0.025	0.003	0.002	0.0007	0.0009		0.029	0.0005	0.022	
wt. %	H2SO4		2.48	2.32	2.4	1.32	1.32		3.52	0.55	2.49	
wt. %	Si											
wt. %	Ti		0.005	0.0005	0.0004	0.0001	0.0002		0.006		0.005	
wt. %	V		0.079	0.007	0.007	0.003	0.003		0.096	0.0007	0.084	
wt. %	Zn		0.28	0.027	0.029	0.009	0.01		0.33	0.004	0.28	
wt. %	H2O								4.15			
ppm	TBP											
ppm	Isopar M											
	pH	3.54		2.36	2.38	5.29	5.68	3.24		3.81		3.56

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	Date	4/12/2002	4/12/2002	4/12/2002	4/12/2002	4/12/2002	4/12/2002	4/12/2002	4/12/2002	4/12/2002	4/12/2002
	Time	1106	1120	1110	1113	1114	1115	1107	1122	1116	1118
	ID	GFO	PN	GSI	GSO	DSI	DSO	FS	GRO	FFS	TK21
	Source	Gran Fan Outlet Drain	Preneut Tank	Gran Scrubber Inlet	Gran Scrubber Outlet	Dryer Scrubber Inlet	Dryer Scrubber Outlet	Fluoride Scrubber Drain	Granulator Discharge	Fertilizer Feedstock	Tank 21 to DAP
wt. %	P2O5	0.019	41.5	26.3	26.3	27.2	27.5	0.063	50.5	26.8	43.2
ppm	F	13089	18971	5996	5780	4376	4058	941	19346	4042	19317
wt. %	N	ND	2.99	1.23	1.25	0.65	0.62	0.43	10.53	0.15	0.07
wt. %	MgO	0.0007	1.22	0.89	0.89	0.94	0.95	0.0019	1.44	0.95	1.29
wt. %	Al2O3	0.0059	1.6	2.12	2.14	2.34	2.34	0.0041	1.94	2.32	1.49
wt. %	Fe2O3	0.0141	0.91	0.95	0.98	1.01	1.01	0.0013	1.09	0.92	0.88
wt. %	CaO	0.0016	0.88	0.66	0.66	0.68	0.68	0.0012	1.04	0.65	0.95
wt. %	Cd	ND	0.0165	0.0043	0.0044	0.0037	0.0038	ND	0.0200	0.0033	0.0188
wt. %	Cr	ND	0.0454	0.0673	0.0674	0.0741	0.0739	ND	0.0549	0.0741	0.0407
wt. %	Cu	ND	0.0068	0.0006	0.0005	0.0002	0.0002	ND	0.008	ND	0.0078
wt. %	K	0.0019	0.1512	0.1352	0.1203	0.1252	0.1223	0.0002	0.1456	0.1041	0.1396
wt. %	Na	0.0045	0.1546	0.1034	0.0974	0.1039	0.1081	0.0001	0.1935	0.1015	0.1749
wt. %	Ni	ND	0.025	0.0236	0.0231	0.025	0.025	ND	0.0299	0.0252	0.0255
wt. %	H2SO4	0.0019	2.62	0.87	0.89	0.41	0.42	0.0049	3.68	0.31	2.73
wt. %	Si							0.0175			
wt. %	Ti	0.0001	0.0065	0.0087	0.009	0.0095	0.0095	ND	0.0077	0.0086	0.0058
wt. %	V	0.0001	0.0846	0.1336	0.1347	0.1461	0.146	0.0003	0.1021	0.1434	0.0736
wt. %	Zn	0.0002	0.2895	0.3529	0.3529	0.3813	0.3807	0.0008	0.3447	0.3944	0.2815
wt. %	H2O										
ppm	TBP									126	
ppm	Isopar M									ND	

	Date	4/16/2002	4/16/2002	4/16/2002	4/16/2002	4/16/2002	4/16/2002	4/16/2002	4/16/2002	4/16/2002	4/16/2002
	Time	1507	1531	1529	1526	1524	1522	1512	1533	1521	1548
	ID	GFO	PN	GSI	GSO	DSI	DSO	FS	GRO	FFS	SD
	Source	Gran Fan Outlet Drain	Preneut Tank	Gran Scrubber Inlet	Gran Scrubber Outlet	Dryer Scrubber Inlet	Dryer Scrubber Outlet	Fluoride Scrubber Drain	Granulator Discharge	Fertilizer Feedstock	Stack Drain
wt. %	P2O5										
ppm	F	713	368	244	1571	174	96	105	2447	3099	746
wt. %	N	0.01	8.18	1.31	6.96	0.85	0.90	0.02	15.94	0.11	0.35
wt. %	MgO										
wt. %	Al2O3										
wt. %	Fe2O3										
wt. %	CaO										
wt. %	Cd										
wt. %	Cr										
wt. %	Cu										
wt. %	K										
wt. %	Na										
wt. %	Ni										
wt. %	H2SO4										
wt. %	Si										
wt. %	Ti										
wt. %	V										
wt. %	Zn										
wt. %	H2O										
ppm	TBP									101	
ppm	Isopar M									ND	

	Date	4/18/2002	4/18/2002	4/18/2002	4/18/2002	4/18/2002	4/18/2002	4/18/2002	4/18/2002	4/18/2002	4/18/2002
	Time	1407	1433	1425	1425	1418	1418	1411	1436	1442	
	ID	GFO18	PN18	GSI18	GSO18	DSI18	DSO18	FS18	GRO18	SD18	TK21
	Source	Gran Fan Outlet Drain	Preneut Tank	Gran Scrubber Inlet	Gran Scrubber Outlet	Dryer Scrubber Inlet	Dryer Scrubber Outlet	Fluoride Scrubber Drain	Granulator Discharge	Stack Drain	TANK 21 TO DAP
wt. %	P2O5	0.04	41.0	27.2	26.6	26.7	27.0	0.05	51.8	10.7	44.5
ppm	F	5208.1	13176.3	9424.2	9339.9	8794.2	9390.4	554.9	16652.3	2529.6	14415.5
wt. %	N	0.17	2.21	3.17	3.15	2.78	3.07	0.03	11.14	3.07	0.09
wt. %	MgO	0.0008	1.007	0.6687	0.6510	0.6488	0.6616	0.0010	1.263	0.2979	1.081
wt. %	Al2O3	0.0019	1.373	0.8744	0.8628	0.8679	0.8782	0.0014	1.713	0.4925	1.509
wt. %	Fe2O3	0.004	0.8557	0.5495	0.5419	0.5375	0.5464	0.0008	1.061	0.2167	0.9341
wt. %	CaO	0.0009	0.5205	0.3445	0.3386	0.3411	0.3466	0.0003	0.6686	0.1746	0.5797
wt. %	Cd	0	0.0171	0.0115	0.0113	0.0111	0.0113	0	0.0216	0.0029	0.0189
wt. %	Cr	0	0.0366	0.0231	0.0230	0.0227	0.0228	0	0.0454	0.0159	0.0394
wt. %	Cu	0	0.0072	0.0045	0.0048	0.0046	0.0048	0	0.0091	0.0009	0.0079
wt. %	K	0.0070	0.0977	0.0983	0.0731	0.0718	0.0959	0.0026	0.1679	0.0779	0.0529
wt. %	Na	ND	0.0691	0.0101	0.0271	0.0307	0.0236	ND	0.0814	ND	0.0579
wt. %	Ni	ND	0.0209	0.0130	0.0138	0.0132	0.0133	ND	0.0266	0.0081	0.0226
wt. %	H2SO4	0.0043	2.904	1.595	1.563	1.507	1.530	0.0043	3.705	0.8194	2.471
wt. %	Si							0.0086 Cold; 0.0099 hot			
wt. %	Ti	0.0001	0.0052	0.0035	0.0033	0.0033	0.0034	0	0.0066	0.0020	0.0056
wt. %	V	0.0003	0.0699	0.0460	0.0451	0.0443	0.0454	0.0001	0.0870	0.0342	0.0765
wt. %	Zn	0.0003	0.2381	0.1576	0.1533	0.1506	0.1544	0.0004	0.2960	0.1050	0.2630
wt. %	H2O										
ppm	TBP										
ppm	Isopar M										

	Date	4/11/2002	4/11/2002	4/11/2002	4/11/2002	4/11/2002	4/11/2002	4/11/2002	4/11/2002	4/11/2002	4/11/2002	4/11/2002	4/11/2002
	Time	1046	1100	1115	1110	1105	1104	1128	1125	1052	1123	1110	1107
	ID	GFO	PN	GSI	GSO	DSI	DSO	BFO	BFI	FS	GRO	FFS	TK21
	Source	Gran Fan Outlet Drain	Prenout Tank	Gran Scrubber Inlet	Gran Scrubber Outlet	Dryer Scrubber Inlet	Dryer Scrubber Outlet	BulkFlow Cooler Outlet	BulkFlow Cooler Inlet	Fluoride Scrubber Drain	Granulator Discharge	Fertilizer Feedstock	Tank 21 to DAP
wt. %	P2O5	0.018	42.1	24.6	24.6	25.6	25.8			0.043	52.0	26.4	45.1
ppm	F	2825	13145	6362	6722	3921	2047			897	21671	1573	10294
wt. %	N	ND	1.85	1.20	1.46	0.55	0.55			0.03	10.74	0.15	
wt. %	MgO	0.6011	1.02	0.76	0.75	0.82	0.85			0.0015	1.4	0.86	1.14
wt. %	Al2O3	0.0021	1.39	1.79	1.76	2.08	2.14			0.0026	1.87	2.19	1.41
wt. %	Fe2O3	0.0144	0.78	0.75	0.75	0.88	0.91			0.0053	1.07	0.91	0.82
wt. %	CaO	0.0021	0.66	0.63	0.62	0.69	0.71			0.0011	0.94	0.69	0.71
wt. %	Cd	ND	0.0157	0.0053	0.0053	0.0046	0.0047			ND	0.0206	0.0041	0.0177
wt. %	Cr	ND	0.0399	0.0565	0.0555	0.0651	0.0572			ND	0.0535	0.0687	0.0394
wt. %	Cu	ND	0.0053	0.0009	0.0009	0.0003	0.0003			ND	0.0085	ND	0.0074
wt. %	K	ND	0.0812	0.0835	0.0833	0.0905	0.093			ND	0.1446	0.0819	0.0974
wt. %	Na	ND	0.1255	0.0774	0.0768	0.0766	0.0763			ND	0.1599	0.0755	0.1263
wt. %	Ni	ND	0.0221	0.0207	0.0202	0.0225	0.023			ND	0.0296	0.023	0.023
wt. %	H2SO4	0.0016	2.898	0.639	0.649	0.375	0.389			0.0039	4.39	0.271	2.75
wt. %	Si									0.0211			
wt. %	Ti	ND	0.0054	0.0068	0.0067	0.0081	0.0083			ND	0.0072	0.0084	0.0055
wt. %	V	ND	0.0717	0.1102	0.1084	0.1275	0.1314			0.0002	0.0966	0.1349	0.0691
wt. %	Zn	0.0002	0.2417	0.2937	0.2894	0.3334	0.3495			0.0005	0.342	0.3566	0.257
wt. %	H2O							2.60	1.46		1.62		
ppm	TBP										51	148	
ppm	Isopar M										ND	ND	

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	Date	4/21/2002	4/21/2002	4/21/2002	4/21/2002	4/21/2002	4/21/2002	4/21/2002	4/21/2002	4/21/2002
	Time	1444	1500	1501	1454	1450	1450	1446	1501	1455
	ID	GFO21-2	PN21-2	GSI21-2	GSO21-2	DSI21-2	DSO21-2	FS21-2	GRO21-2	TK21-2
	Source	Gran Fan Outlet Drain	Preneut Tank	Gran Scrubber Inlet	Gran Scrubber Outlet	Dryer Scrubber Inlet	Dryer Scrubber Outlet	Fluoride Scrubber Drain	Granulator Discharge	TANK 21 TO DAP
wt. %	P2O5	0.016	41.7	5.19	5.34	2.20	2.27	0.012	51.7	44.6
ppm	F	6035.4	14956.2	4794.2	4883.0	1196.6	1140.5	22198.9	622.3	15465.2
wt. %	N	0.12	2.96	1.67	1.70	1.07	1.08	0.03	10.76	
wt. %	MgO	0.0010	0.8830	0.1229	0.1208	0.0527	0.0557	0.0002	1.118	0.8201
wt. %	Al2O3	0.0015	1.387	0.1624	0.1662	0.0610	0.0638	0.0005	1.715	1.478
wt. %	Fe2O3	0.0041	0.8661	0.1011	0.1035	0.0395	0.0398	0.0018	1.057	0.9211
wt. %	CaO	0.0014	0.6664	0.1045	0.1057	0.0562	0.0582	0.0003	0.9269	0.7462
wt. %	Cd	0	0.0180	0.0024	0.0024	0.0010	0.0010	0.0000	0.0229	0.0194
wt. %	Cr	0	0.0365	0.0043	0.0044	0.0018	0.0018	0.0000	0.0448	0.0391
wt. %	Cu	0	0.0072	0.0010	0.0010	0.0002	0.0005	0.0000	0.0094	0.0079
wt. %	K	ND	0.0886	0.0087	ND	ND	0.0038	ND	0.0666	0.0914
wt. %	Na	ND	0.1320	0.0170	0.0144	0.0030	0.0070	ND	0.1874	0.1482
wt. %	Ni	0.0001	0.0224	0.0031	0.0035	0.0013	0.0012	0.0000	0.0277	0.0197
wt. %	H2SO4	0.0037	2.629	2.736	2.720	3.338	3.300	0.0054	3.461	2.650
wt. %	Si	0.0612	0.0979	0.0518	0.0006	0.0172	0.0173	0.0112	0.2934	0.0900
wt. %	Ti	0	0.0051	0.0006	0.0091	0.0001	0.0002	0.0000	0.0062	0.0053
wt. %	V	0	0.0758	0.0091	0.0017	0.0038	0.0037	0.0000	0.0924	0.0801
wt. %	Zn	0.0002	0.2566	0.0343	0.0355	0.0155	0.0154	0.0001	0.3115	0.2631
	Si Cold							0.0108		
wt. %	H2O								3.66	
ppm	TBP									
ppm	Isopar M									
	pH	3.59		2.95	2.98	2.16	2.22	3.14		

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	Date	4/23/2002	4/23/2002	4/23/2002	4/23/2002	4/23/2002	4/23/2002	4/23/2002	4/23/2002	4/23/2002	4/23/2002	4/23/2002
	Time	1009	1025	1015	1014	1025	1018	1010	1028	1016	1541	1544
	ID	GFO23	PN23	GSI23	GSO23	DSI23	DSO23	FS23	GRO23	TK21-23	GFO23-2	FS23-2
	Source	Gran Fan Outlet Drain	Preneut Tank	Gran Scrubber Inlet	Gran Scrubber Outlet	Dryer Scrubber Inlet	Dryer Scrubber Outlet	Fluoride Scrubber Drain	Granulator Discharge	TANK 21 TO DAP	Run 2 Gran Fan	Run 2 Fluoride Scrubber
wt. %	P2O5	0.031	41.5	1.61	1.66	3.67	4.13	0.022	52.6	48.5	0.092	0.027
ppm	F	2561	9395	950	746	2033	2140	305	14252	11831	2696	137
wt. %	N	0.16	2.6	0.96	1.04	1.05	1.18	0.007	18.87		0.24	0.005
wt. %	MgO	0.0002	1.01	0.0427	0.043	0.0833	0.0859	ND	1.25	1.08	0.0024	0.0001
wt. %	Al2O3	0.0014	1.46	0.0506	0.0517	0.1105	0.1138	0.0005	1.82	1.58	0.0034	0.0008
wt. %	Fe2O3	0.0014	0.871	0.0302	0.0312	0.0671	0.0686	0.0002	1.08	0.925	0.0017	0.0003
wt. %	CaO	0.0026	0.483	0.0465	0.0474	0.0632	0.0628	0.0004	0.632	0.494	0.0025	0.0004
wt. %	Cd	ND	0.0178	0.0007	0.0007	0.0014	0.0015	ND	0.0223	0.0191	ND	ND
wt. %	Cr	0.0001	0.0406	0.0014	0.0014	0.003	0.0031	ND	0.0503	0.0434	0.0001	ND
wt. %	Cu	0.0001	0.0079	0.0003	0.0003	0.0006	0.0007	ND	0.0098	0.0084	ND	ND
wt. %	K	0.0019	0.0723	0.0059	0.0055	0.0054	0.0069	ND	0.0805	0.0642	ND	ND
wt. %	Na	ND	0.0747	0.0054	0.0072	0.0118	0.0131	ND	0.106	0.0758	ND	ND
wt. %	Ni	ND	0.0249	0.0007	0.0007	0.002	0.0022	ND	0.0307	0.0265	ND	ND
wt. %	H2SO4	0.0042	2.18	1.62	1.64	0.86	0.93	0.0051	2.78	2.22	0.0082	0.0041
wt. %	Si							0.0054				
wt. %	Ti	ND	0.0055	0.0002	0.0002	0.0004	0.0004	ND	0.0068	0.0059	ND	ND
wt. %	V	0.0001	0.0797	0.0029	0.003	0.0061	0.0064	ND	0.0988	0.0852	0.0001	0.0001
wt. %	Zn	0.0001	0.2816	0.011	0.0114	0.0223	0.0231	ND	0.3493	0.2991	0.0005	0.0001
wt. %	H2O								4.63			
ppm	TBP											
ppm	Isopar M											
	pH	5.52		6.62	6.89	5.04	5.06	6.01			5.94	7.18

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	Date	4/24/2002	4/24/2002	4/24/2002	4/24/2002	4/24/2002	4/24/2002	4/24/2002	4/24/2002	4/24/2002
	Time	1239	1246	1247	1242	1241	1245	1248	1243	1022
	ID	GFO24	PN24	GSI24	DSI24	DSO24	FS24	GRO24	FFS	VAP-Drain
	Source	Gran Fan Outlet Drain	Preneut Tank	Gran Scrubber Inlet	Dryer Scrubber Inlet	Dryer Scrubber Outlet	Fluoride Scrubber Drain	Granulator Discharge	FFS	Vaporizer
wt. %	P2O5	0.021	19.4	20.9	25.4	25.7	0.031	18.7	23.4	0.26
ppm	F	312	1830	2551	2583	2484	137	2425	2031	548
wt. %	N	0.05	9.52	5.07	5.43	5.63	0.17	15.65		
wt. %	MgO	0.0004	0.36	0.76	0.93	0.96	0.0006	0.72	0.87	0.008
wt. %	Al2O3	0.0012	1.41	1.51	1.83	1.87	0.0016	1.38	1.72	0.011
wt. %	Fe2O3	0.0013	0.63	0.68	0.83	0.85	ND	0.65	0.78	0.005
wt. %	CaO	0.0035	0.0751	0.126	0.148	0.152	ND	0.163	0.135	0.043
wt. %	Cd	ND	0.0018	0.0023	0.0028	0.0027	ND	0.0025	0.0024	0.0002
wt. %	Cr	ND	0.0448	0.0481	0.0584	0.0599	ND	0.0432	0.0545	0.0001
wt. %	Cu	ND	ND	ND	ND	ND	ND	0.0003	ND	ND
wt. %	K	ND	0.0388	0.0563	0.0853	0.0856	ND	0.0596	0.0683	0.0035
wt. %	Na	ND	0.0659	0.0692	0.0793	0.0811	ND	0.0518	0.0688	0.0127
wt. %	Ni	ND	0.0061	0.0166	0.0204	0.0209	ND	0.0155	0.0192	0.0001
wt. %	H2SO4	0.0212	ND	2.29	2.34	2.47	0.009	42.06	0.553	0.0892
wt. %	Si						0.0081			
wt. %	Ti	ND	0.006	0.0065	0.0079	0.0081	ND	0.0064	0.0074	ND
wt. %	V	ND	0.0854	0.0909	0.1105	0.1131	0.0001	0.0815	0.1044	0.0005
wt. %	Zn	0.0001	0.1143	0.2626	0.323	0.3364	0.0003	0.2438	0.3058	0.0018
wt. %	H2O							3.25		
ppm	TBP								157	
ppm	Isopar M								ND	
	pH	8.46		5.67	4.95	5.10	8.44			3.51

	Date	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002	4/4/2002
	Time	1045	1045	1045	1045	1045	1045	1045	1050	1045	1040	1030
	ID	GF	PN	GSI	GSO	DSI	DSO	BFO	BFI	FS	GRO	FFS
	Source	Gran Fan Outlet Drain	Preneut Tank	Gran Scrubber Inlet	Gran Scrubber Outlet	Dryer Scrubber Inlet	Dryer Scrubber Outlet	BulkFlow Cooler Outlet	BulkFlow Cooler Inlet	Fluoride Scrubber Drain	Granulator Discharge	Fertilizer Feedstock
wt. %	P2O5	0.023	15.8	24.5	24.1	27.1	27.5			0.12	19.8	29.1
ppm	F	236	2135	1551	2394	2343	265/975			239	601	285
wt. %	N	0.05	8.79	1.40	1.50	0.95	1.06			0.02	15.78	0.15
wt. %	MgO	0.0018	0.782	0.711	0.704	0.795	0.801			0.0035	0.599	0.842
wt. %	Al2O3	0.0036	1.13	1.69	1.67	1.94	1.98			0.0068	1.41	2.06
wt. %	Fe2O3	0.0063	0.495	0.651	0.647	0.791	0.803			0.0007	0.65	0.815
wt. %	CaO	0.0033	0.199	0.226	0.223	0.2499	0.253			0.0003	0.2276	0.261
wt. %	Cd	0.0001	0.0023	0:0031	0.0031	0.0034	0.0035			0.0001	0.0031	0.0037
wt. %	Cr	0.0001	0.034	0.052	0.0513	0.0590	0.0597			0.0001	0.042	0.0626
wt. %	Cu	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001			0.0001	0.003	0.0001
wt. %	K	0.0002	0.0485	0.0791	0.0769	0.084	0.0898			0.0007	0.0603	0.0922
wt. %	Na		0.0435	0.0702	0.0678	0.0766	0.0796			0.0001	0.052	0.0805
wt. %	Ni	0.0001	0.0211	0.0179	0.0176	0.0201	0.0205			0.0001	0.0144	0.0213
wt. %	H2SO4	0.0118	35.55	1.107	1.092	1.06	1.13			0.008	40.95	0.3416
wt. %	Si									0.0643		
wt. %	Ti	0.0001	0.0046	0.0063	0.0063	0.0076	0.0078			0.0001	0.0063	0.0078
wt. %	V	0.0001	0.0673	0.1005	0.0993	0.1153	0.117			0.0003	0.0814	0.1217
wt. %	Zn	0.0001	0.2819	0.2426	0.2404	0.2715	0.2749			0.001	0.1903	0.2879
wt. %	H2O							1.58	1.63		1.78	
ppm	TBP								67			115
ppm	Isopar M								ND			ND

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	Date	5/21/2002	5/21/2002	5/21/2002	5/21/2002	5/21/2002	5/21/2002	5/21/2002	5/21/2002	5/21/2002
	Time	1515	1510	1510	1518	1510	1516	1510	1510	1510
	ID	GSI-21	DSO-21	SD-21	GRO-21	VAP-21	PN-21	FS-21	TK21-21	FFS-21
	Source	Gran Scrubber Inlet	Dryer Scrubber Inlet	Stack Drain	Granulator Discharge	Vaporizer Drain	Preneut Tank	Fluoride Scrubber Drain	Tank 21	FFS
wt. %	P2O5	23.0	24.5	0.65	51.8	0.029	40.9	0.034	43.8	25.8
ppm	F	7800	7200	800	24600	700	14600	700	17500	7800
wt. %	N	1.46	0.91	0.05	10.59	0.01	1.98	0.03	0.06	
wt. %	MgO	0.7987	1.007	0.0359	1.516	0.0019	1.205	0.0028	1.155	1.019
wt. %	Al2O3	1.367	1.641	0.0342	1.789	0.0006	1.375	0.0025	1.374	2.016
wt. %	Fe2O3	0.5464	0.4084	0.0012	1.068		0.8493		0.8916	0.7607
wt. %	CaO	0.6465	0.7279	0.0334	1.022		0.5322		0.6894	0.7409
wt. %	Cd	0.0033	0.0028		0.0212		0.0165		0.0194	0.0024
wt. %	Cr	0.0477	0.0533		0.0481		0.0406		0.0381	0.0587
wt. %	Cu	0.0005	0.0001		0.0104		0.0087		0.0098	
wt. %	H2SO4	0.6534	0.5155	0.038	3.327		1.965	0.0226	2.448	0.4118
wt. %	K	0.0719	0.0938		0.1334		0.0025		0.0454	0.0619
wt. %	Na	0.0907	0.0855		0.1972		0.1142		0.073	0.0956
wt. %	Ni	0.0208	0.0233	0.0001	0.0339		0.0285		0.0256	0.0229
wt. %	Si									
wt. %	Ti	0.0047	0.004		0.0067		0.0053		0.0053	0.0064
wt. %	V	0.0915	0.1038	0.0026	0.0943	0.0001	0.0785	0.0001	0.0747	0.1117
wt. %	Zn	0.3051	0.3505	0.0095	0.3551	0.0003	0.299	0.0005	0.2872	0.351
wt. %	H2O				3.7					
ppm	TBP									
ppm	Isopar M									
	pH	1.85	1.72	2.69		2.92	1.43	3.69		

	Date	5/17/2002	5/17/2002	5/17/2002	5/17/2002	5/17/2002	5/17/2002	5/17/2002	5/17/2002	5/17/2002
	Time	1558	1546	1555	1605	1546	1600	1555	1546	
	ID	GSI-17C	DSI-17C	SD-17C	GRO-17C	VAP-17C	PN-17C	FS-17C	TK21-17C	FFS-17C
	Source	Gran Scrubber Inlet	Dryer Scrubber Inlet	Stack Drain	Granulator Discharge	Vaporizer Drain	Preneut Tank	Fluoride Scrubber Drain	Tank 21	FFS
wt. %	P2O5	24.8	26.4	12.4	53.5	0.13	41.1	0.07	45.5	25.3
ppm	F	7086	6907	3528	24202	293	17039	410	17930	5245
wt. %	N	1.3	1	0.64	10.59	0.01	1.21	0.02	0.03	
wt. %	MgO	0.8892	0.9885	0.4368	1.607	0.0037	1.214	0.0018	1.067	1.028
wt. %	Al2O3	1.771	2.034	1.162	1.909	0.0074	1.38	0.001	1.383	2.106
wt. %	Fe2O3	0.7626	0.8594	0.741	1.136		0.8275		0.9122	0.7527
wt. %	CaO	0.1889	0.1763	0.36	0.9093		0.3503		0.2769	0.1321
wt. %	Cd	0.0042	0.0039	0.0019	0.0234		0.0167	0.0001	0.019	0.0029
wt. %	Cr	0.0553	0.0625	0.0403	0.0514		0.0384		0.0393	0.0636
wt. %	Cu	0.001	0.0005	0.0008	0.0111		0.0089		0.0101	
wt. %	H2SO4	1.039	1.031	0.6257	3.246	0.0018	1.872	0.0037	1.872	0.8627
wt. %	K	0.0653	0.0696	0.0384	0.1343				0.0403	0.0628
wt. %	Na	0.1102	0.1195	0.0477	0.191		0.0697		0.0133	0.104
wt. %	Ni	0.0224	0.0245	0.0106	0.036		0.0281		0.0242	0.0248
wt. %	Si									
wt. %	Ti	0.0067	0.0076	0.0084	0.0073		0.0051		0.0055	0.0066
wt. %	V	0.1067	0.1205	0.063	0.1004	0.0004	0.076	0.0001	0.077	0.1175
wt. %	Zn	0.3248	0.3605	0.1839	0.381	0.0015	0.2942	0.001	0.2971	0.3734
wt. %	H2O									
ppm	TBP									
ppm	Isopar M									
	pH	1.65	1.46	2.15		2.51	1.78	2.85		

	Date	5/3/2002	5/3/2002	5/3/2002	5/3/2002	5/3/2002	5/3/2002	5/3/2002	5/3/2002	5/3/2002	5/3/2002	5/3/2002	5/3/2002
	Time	952	1004	1246	1013	959	957	957	1020	1243	1011	955	1002
	ID	GFO-3	GSO-3	PN-3	GSI-3	DSI-3	DSO-3	FS-3	GRO-3	FFS	VP-3	SD-3	TK21-3
	Source	Gran Fan Outlet Drain	Gran Scrubber Outlet	Preneut Tank	Gran Scrubber Inlet	Dryer Scrubber Inlet	Dryer Scrubber Outlet	Fluoride Scrubber Drain	Granulator Discharge	FFS	Vaporizer Drain	Stack Drain	Tank 21
wt. %	P2O5	0.06	17.5	40.7	19.4	24.4	24.9	0.10	52.8	25.9	0.08	6.0	45.5
ppm	F	1150	5340	17724	5905	5275	5280	607	24016	5175	528	1620	18265
wt. %	N	0.11	4.12	2.47	4.47	6.72	7.31	0.08	10.81	0.17	0.05	2.36	0.09
wt. %	MgO	0.0001	0.4937	1.039	0.581	0.7546	1.251	0.0023	1.399	0.8732	0.0013	0.0303	1.008
wt. %	Al2O3	0.0011	1.131	1.362	1.268	1.815	1.803	0.0034	1.929	1.906	0.0031	0.1567	1.448
wt. %	Fe2O3		0.4909	0.8467	0.5535	0.7375	0.7317		1.093	0.7544		0.0669	0.9056
wt. %	CaO	0.0009	0.1371	0.5289	0.146	0.115	0.113		0.8897	0.1141		0.0175	0.8036
wt. %	Cd		0.0043	0.0172	0.0049	0.005	0.0055		0.0217	0.0052		0.0004	0.02
wt. %	Cr		0.0322	0.0401	0.0368	0.0547	0.0536		0.053	0.0578		0.0042	0.0385
wt. %	Cu	0.0001	0.0008	0.0078	0.0009	0.0002	0.0002		0.0097	0.0001			0.0092
wt. %	H2SO4	0.003	0.8343	2.317	0.9145	0.9301	0.9113	0.0058	3.522	0.9164	0.0018	0.5173	2.97
wt. %	K	0.0228	0.1391	0.1551	0.1278	0.1476	0.1725	0.0289	0.1629	0.1401	0.019	0.0842	0.2529
wt. %	Na		0.0451	0.1162	0.0574	0.0842	0.0752		0.1934	0.0892		0.0035	0.103
wt. %	Ni		0.0083	0.0259	0.0113	0.0193	0.034		0.0326	0.0229		0.0007	0.022
wt. %	Si	0.0162	0.0479	0.016	0.047	0.0167	0.0114	0.0019	0.1114	0.0145	0.0012	0.0105	0.0543
wt. %	Ti	0.0001	0.0044	0.0055	0.0048	0.0066	0.0066	0.0001	0.0073	0.0067		0.0007	0.0058
wt. %	V	0.0002	0.0662	0.0729	0.074	0.1067	0.1056	0.0002	0.0981	0.1117	0.0002	0.0165	0.0722
wt. %	Zn	0.0001	0.212	0.2776	0.2373	0.3356	0.3457	0.0008	0.355	0.3534	0.0006	0.0357	0.2723
wt. %	H2O								2.91				
ppm	TBP												
ppm	Isopar M												
	pH	7.67	5.72	1.01	5.47	6.47	6.9	6.39			8.4	7.84	1.92

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	Date	5/9/2002	5/9/2002	5/9/2002	5/9/2002	5/9/2002	5/9/2002	5/9/2002	5/9/2002	5/9/2002	5/9/2002	5/9/2002	5/9/2002
	Time	1219	1156	1211	1211	1158	1158	1205	1208	1151	1201	1204	1151
	ID	GFO-9	GSO-9	PN-9	GSI-9	DSI-9	DSO-9	FS-9	GRO-9	FFS-9	VAP-9	SD-9	TK21-9
	Source	Gran Fan Outlet Drain	Gran Scrubber Outlet	Preneut Tank	Gran Scrubber Inlet	Dryer Scrubber Inlet	Dryer Scrubber Outlet	Fluoride Scrubber Drain	Granulator Discharge	FFS	Vaporizer Drain	Stack Drain	Tank 21
wt. %	P2O5	0.04	18.4	40.8	18.7	17.8	18.0	0.036	52.9	26.1	0.047	2.28	44.6
ppm	F	1215	6407	18384	6606	5192	5504	779	25236	6807	617	1002	19048
wt. %	N	0.05	4.48	2.88	4.59	3.35	3.65	0.09	10.87	0.14	0.07	0.66	0.09
wt. %	MgO		0.6035	0.9249	0.6977	0.6554	0.6587		1.287	0.9696	0.0001	0.0085	0.9614
wt. %	Al2O3		1.332	1.34	1.352	1.382	1.381	0.0008	1.833	2.096	0.0002	0.0246	1.389
wt. %	Fe2O3		0.6109	0.9276	0.6198	0.6224	0.6229		1.175	0.9495		0.0081	0.9869
wt. %	CaO		0.1743	0.4695	0.175	0.1552	0.1553		0.853	0.2042		0.0052	0.6809
wt. %	Cd		0.0027	0.0169	0.0027	0.0019	0.002		0.0217	0.0023			0.0194
wt. %	Cr		0.0397	0.0382	0.04	0.0413	0.0413		0.0494	0.0644		0.0001	0.0377
wt. %	Cu		0.0003	0.0073	0.0004				0.0096				0.0084
wt. %	H2SO4	0.0035	1.184	2.248	1.196	0.796	0.8091	0.0042	3.688	0.5279	0.0038	0.5092	2.663
wt. %	K		0.0361	0.0809	0.0331	0.0515	0.0653	0.0235	0.1813	0.151	0.025	0.0573	0.1729
wt. %	Na		0.051	0.1172	0.0571	0.0513	0.0436		0.1707	0.0488			0.0666
wt. %	Ni		0.0096	0.0217	0.0187	0.0151	0.0149		0.0282	0.0225			0.0213
wt. %	Si												
wt. %	Ti		0.0052	0.0053	0.0053	0.0055	0.0055	0.0001	0.007	0.0086	0.0001	0.0003	0.0057
wt. %	V		0.0777	0.0743	0.0788	0.081	0.0809	0.0001	0.0942	0.1231	0.0002	0.003	0.074
wt. %	Zn	0.0001	0.2311	0.2482	0.2351	0.2384	0.2391	0.0002	0.321	0.3655	0.0004	0.006	0.2504
wt. %	H2O								2.66				
ppm	TBP												
ppm	Isopar M												
	pH												

Date	Sample ID	**Fluoride (High)**	Fluoride (Low)
		ppm	ppm
04/28/03	PROCESS COND		724
04/13/03	PROCESS COND	**514**	330
04/16/03	PROCESS COND	**1838**	910
04/17/03	PROCESS COND	**1640**	881
04/18/03	PROCESS COND	**1467**	930
04/19/03	PROCESS COND	**1465**	697
04/20/03	PROCESS COND	**1059**	793
05/01/03	PROCESS COND	**1077**	749

Sample ID	Sample Date/Time	User Sample ID	Al 394.401 ppm	As 197.197 ppm	B 249.772 ppm	Ba 493.408 ppm	Ca 317.933 ppm	Cd 226.502 ppm	Co 228.616 ppm	Cr 283.563 ppm	Cu 324.752 ppm	Fe 238.204 ppm	K 766.490 ppm	Li 670.784 ppm	Mg 279.077 ppm	Mn 257.610 ppm	Mo 202.031 ppm
200042699	5/5/2003 10:00	PPA Cooling Tower	45.9	ND	ND	3.6	1170	ND	ND	5.1	3.8	400	41.8	0.077	232	10.2	0.558
200042700	5/5/2003 10:00	Sulfuric Acid Cooling Tower	1170	ND	ND	646	22700	3.3	ND	101	67.2	8480	409	0.86	2640	481	1.2

Sample ID	Sample Date/Time	User Sample ID	Na 589.592 ppm	Ni 232.003 ppm	Pb 220.353 ppm	SO4 180.665 ppm	SO4 ppm	Sb 206.836 ppm	Se 196.026 ppm	Sn 189.927 ppm	Tl 334.940 ppm	U 367.007 ppm	V 292.402 ppm	Zn 213.857 ppm	pH
200042699	5/5/2003 10:00	PPA Cooling Tower	136	2.8	ND	3730	0.37	ND	ND	ND	3.0	2.1	0.94	3.9	7.8
200042700	5/5/2003 10:00	Sulfuric Acid Cooling Tower	235	11.2	2.48	6680	0.67	ND	ND	ND	42.2	38.3	12.2	200	7.8

8/13/2002

PPA Cooling Tower
Basin Discharge

		Analysis
P2O5	wt %	0.21
MgO	wt %	0.0561
Al2O3	wt %	0.057
Fe2O3	wt %	0.2257
CaO	wt %	1.072
As	wt %	0.0023
Cd	wt %	0.0001
Cr	wt %	0.0033
Cu	wt %	0.0038
H2SO4	wt %	1.345
K	wt %	0.0006
Na	wt %	0.0062
Ni	wt %	0.0003
Si	wt %	0.0242
Ti	wt %	0.0017
V	wt %	0.0007
Y	wt %	0.0002
Zn	wt %	0.003
pH		8.1

			pH
Sample ID	Sample Date/Time	User Sample ID	
200044289	5/16/2003 9:15	West #3 Pond Seep	1.76

		pH
4/26/2002		
Granulation Duct		
	Run 1 Front	6.05
Split/2000 mls	Run 1 Back A	8.84
Split/2000 mls	Run 1 Back B	8.86
	Run 2 Front	4.93
Split/2000 mls	Run 2 Back A	9.23
Split/2000 mls	Run 2 Back B	9.26
Granulation Dryer		
	Run 1 Front	6.55
	Run 1 Back	8.25
	Run 2 Front	6.55
	Run 2 Back	8.28
4/30/2002		
	Dryer Duct Front	6.37
	Dryer Duct Back	8.64
	Gran Duct Front	4.46
Split/2000 mls	Gran Duct Back A	3.75
Split/2000 mls	Gran Duct Back B	3.78
5/3/2002		
	Gran Duct Front	6.36
2000 ml	Gran Duct Back	9.91
	Dryer Duct Front	6.88
	Dryer Duct Back	9.70
5/6/2002		
	Gran Fan Duct Front	4.94
2000 ml	Gran Fan Duct Back	9.33
	Dryer Duct Front	6.44
	Dryer Duct Back	8.93

		pH
4/26/2002		
Granulation Duct		
	Run 1 Front	6.05
Split/2000 mls	Run 1 Back A	8.84
Split/2000 mls	Run 1 Back B	8.86
	Run 2 Front	4.93
Split/2000 mls	Run 2 Back A	9.23
Split/2000 mls	Run 2 Back B	9.26
Granulation Dryer		
	Run 1 Front	6.55
	Run 1 Back	8.25
	Run 2 Front	6.55
	Run 2 Back	8.28
4/30/2002		
	Dryer Duct Front	6.37
	Dryer Duct Back	8.64
	Gran Duct Front	4.46
Split/2000 mls	Gran Duct Back A	3.75
Split/2000 mls	Gran Duct Back B	3.78
5/3/2002		
	Gran Duct Front	6.36
2000 ml	Gran Duct Back	9.91
	Dryer Duct Front	6.88
	Dryer Duct Back	9.70
5/6/2002		
	Gran Fan Duct Front	4.94
2000 ml	Gran Fan Duct Back	9.33
	Dryer Duct Front	6.44
	Dryer Duct Back	8.93

	PH OP									TJA ACID OP										
	pH	Al2O3	Averaged P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	P2O5	P2O5v	Si	Ti	V	Y	Zn
	PH	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%
User Sample ID	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)
# 10 Well 8/24/04	6.8	0	0	0.022	0	0	0	0.0011	0.0317	0.0007	0.013	0.003	0	0.001	0	0.0014	0	0	0	0

Generic Any Materials
Default Subreport 1

			PH OP									T/A ACID OP											
			pH	Al2O3	Averaged P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	ICP Sample ID	K	MgO	Na	Ni	P2O5	P2O5v	Si	Ti	V	Y	Zn
			PH	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	none	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%	wt.%
Sample Date/Time	User Sample ID	Sample ID	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)	(AVG)
3/8/2004 15:17	#9 Well Water	200080002	4.41	0.0551	0.1	0.0259	0	0	0.0001	0.003	0.1656		0.0007	0.0459	0.0191	0.0002	0.051	0.05	0.0086	0	0	0	0.0006

AGR_010316

Well #9 Analysis

	Values are in %																					
Sample Date/Time	User Sample ID	Fluoride	pH	Al2O3	P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	Si	Ti	V	Y	Zn	Conductivity	TDS
September 22, 2004	#9 Well Hot Digestion	0.2301	1.94	0.0448	0.165	0.0512	0.0001	0.0002	0.0001	0.0251	0.1181	0.0057	0.0343	0.0096	0.0001	0.0526	0.0003	0.0004	0.0001	0.0010	8980	6017
September 29, 2004	#9 Well Hot Digestion	0.6414	1.75	0.1493	0.485	0.0958	0.0002	0.0006	0.0001	0.1184	0.1706	0.0149	0.0674	0.0241	0.0004	0.1558	0.0009	0.0010	0.0001	0.0032	21300	14271
October 4, 2004	#9 Well Hot Digestion	0.1717	2.15	0.0340	0.158	0.0433	0.0001	0.0001	0.0000	0.0166	0.1180	0.0053	0.0308	0.0124	0.0001	0.0329	0.0001	0.0003	0.0000	0.0009	7640	5119
October 29, 2004	#9 Well Hot Digestion	0.0365	3.08	0.0171	0.048	0.0428	0.0000	0.0000	0.0000	0.0047	0.1072	0.0028	0.0271	0.0058	0.0001	0.0090	0.0000	0.0001	0.0000	0.0003	3120	2090
April 26, 2005	#9 Well Hot Digestion	0.0772	2.74	0.0051	0.031	0.0301	0.0000	0.0000	0.0000	0.0012	0.0667	0.0017	0.0152	0.0026	0.0000	0.0067	0.0000	0.0001	0.0000	0.2002	2680	1796
April 28, 2005	#9 Well Hot Digestion	0.0391	2.88	0.0071	0.045	0.0407	0.0000	0.0000	0.0000	0.0016	0.0922	0.0024	0.0208	0.0039	0.0000	0.0080	0.0001	0.0001	0.0000	0.0002	2870	1923
May 12, 2005	#9 Well Hot Digestion	0.0300	2.73	0.0086	0.054	0.0415	0.0000	0.0000	0.0000	0.0020	0.0926	0.0023	0.0216	0.0047	0.0000	0.0076	0.0000	0.0001	0.0000	0.0003	2850	1910
May 25, 2005	#9 Well Hot Digestion	0.0087	3.71	0.0051	0.025	0.0388	0.0000	0.0000	0.0000	0.0011	0.0908	0.0015	0.0198	0.0062	0.0000	0.0046	0.0000	0.0000	0.0000	0.0001	2300	1541
May 29, 2005	#9 Well Hot Digestion	0.0079	4.57	0.0030	0.020	0.0345	0.0000	0.0000	0.0000	0.0002	0.0848	0.0010	0.0195	0.0025	0.0000	0.0039	0.0000	0.0001	0.0000	0.0001	2100	1407
May 31, 2005	#9 Well Hot Digestion	0.0086	5.26	0.0045	0.018	0.0389	0.0000	0.0000	0.0000	0.0009	0.0891	0.0011	0.0203	0.0024	0.0000	0.0038	0.0000	0.0001	0.0000	0.0001	2140	1434
June 1, 2005			5.26																		2020	1353
June 3, 2005			5.39																		2010	1347
June 7, 2005			5.45																		2010	1347
June 8, 2005			5.44																		2050	1374
June 20, 2005	#9 Well Hot Digestion	0.0424	2.40	0.0271	0.1560	0.0461	0.0001	0.0001	0.0000	0.0044	0.1379	0.0052	0.0355	0.0087	0.0002	0.0105	0.0000	0.0003	0.0000	0.0009	5250	3518

9 Well

		# 2	# 10	# 20	# 30
TSS $_{(0.45um)}$	g/l	0.071	0.018	0.016	0.017
TDS	g/l	1.40	1.75	1.63	1.84
pH		5.87	5.67	5.74	5.94
F	(ppm)	>0.02	>0.02	>0.02	>0.02
P2O5	(ppm)				
Al	(ppm)	1.5	0.4	0.2	0.1
As	(ppm)				
B	(ppm)				
Ba	(ppm)				
Ca	(ppm)	182	226	232	233
Cd	(ppm)				
Co	(ppm)				
Cr	(ppm)	0.02	0.02	0.01	0.02
Cu	(ppm)				
Fe	(ppm)	23	5	2	0.9
K	(ppm)	13	14	14	13
Li	(ppm)				
Mg	(ppm)	76	104	106	107
Mn	(ppm)	3	5	4	3
Na	(ppm)	46	74	80	85
Ni	(ppm)				
Pb	(ppm)	0.1	0.1	0.1	0.1
SO_4	(ppm)	749	1080	1110	1100
Sb	(ppm)				
Si	(ppm)	20	23	23	23
Ti	(ppm)				
U	(ppm)				
V	(ppm)				
Zn	(ppm)	2	2	2	0.9

Analysis

Sample ID	Date	TDS (g/l)	Total Suspended Solids (g/l)	pH	TOC (ppm)	Carbonate (ppm)	HCO3 (ppm)	Ca (ppm)	SO_4 (ppm)	Al (ppm)	Cd (ppm)	Cr (ppm)	Cu (ppm)	Fe (ppm)	K (ppm)	Mg (ppm)	Na (ppm)	Ni (ppm)	Si (ppm)	Ti (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
PPA Well # 9	7/11/2001	1.4	0.045	6.72	22	0	282	204	883	0.08	0.003	ND	0.003	0.18	5.2	71	72	0.03	18	0.005	0.008	0.001	0.01

Sample I.D.
Pond Water Monthly Grab

Date	P_2O_5 Grav	P_2O_5 ICAP	MgO	AL_2O_3	Fe_2O_3	CaO	Cd	Cr	Cu	H_2SO_4	K	Na	Ni	Si	Ti	V	Y	Zn	% Cold Digas	% F	F/Si
JAN-01		0.71	0.0226	0.0293	0.0168	0.1634	0.0007	0.0010	0.0017	0.4640	0.0149	0.0578	0.0004	0.0327	0.0002	0.0017	0.0006	0.0048	0.2454	1.11	6.7
FEB-01		0.79	0.0215	0.0303	0.0168	0.2068	0.0006	0.0011	0.0018	0.4420	0.0300	0.0582	0.0003	0.0307	0.0003	0.0019	0.0007	0.0049	0.2478	1.05	6.2
MAR-01		0.78	0.0215	0.0344	0.0187	0.2368	0.0007	0.0011	0.0022	0.4674		0.0745	0.0004	0.0168	0.0000	0.0020	0.0008	0.0050	0.2294	1.12	7.2
APR-01		0.94	0.0217	0.0357	0.0202	0.2514	0.0007	0.0012	0.0025	0.5002		0.0856	0.0001	0.1022	0.0000	0.0023	0.0008	0.0051	0.3075	1.35	6.5
MAY-01		1.03	0.0230	0.0420	0.0241	0.2851	0.0008	0.0014	0.0030	0.6004	0.0230	0.0814	0.0005	0.0435	0.0004	0.0026	0.0010	0.0057	0.3573	1.74	7.2
JUNE-01		1.16	0.0299	0.0505	0.0270	0.3085	0.0007	0.0014	0.0033	0.6852	0.7340	0.0235	0.0006	0.0896	0.0042	0.0028	0.0011	0.0061	0.4678	1.73	5.4

Bentalis H2O 11/20/2003

SAMPLE	Al2O3	P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Ni	Si	Ti	V	Y	Zn	pH	TOC	$CaCO_3$
Bentalis H2O	0.0005	0.011	0.0574	0	0	0	0.0001	0.1856	0.0014	0.0198	0.0001	0.0013	0	0.0001	0	0	7.1	17.7 ppm	1020ppm

Element / Date	Raw H2O RUNMIX Dry Duct Dep	Pond H2O RUNMIX Dry Duct Dep	Pond H2O RUNMIX stack	Raw H2O RUNMIX Mix tank Dis	Fresh H2O RUNMIX Gran Duct	Pond H2O RUNMIX Gran Duct	Pond H2O To granular Scrubber	Raw H2O To granular Scrubber	Raw H2O RUNFILT Dry Duct Dep	Pond H2O RUNFILT Dry Duct Dep	Pond H2O RUNFILT stack	Raw H2O RUNFILT Mix tank Dis	Fresh H2O RUNFILT Gran Duct	Pond H2O RUNFILT Gran Duct	Raw H2O 11NovmbC Dry Duct Dep	Pond H2O 11NovmbC Dry Duct Dep	Pond H2O 11NovmbC stack	Raw H2O 11NovmbC Mix tank Dis	Fresh H2O 11NovmbC Gran Duct	Pond H2O 11NovmbC Gran Duct	Raw H2O 18MarchWshCk Dry Duct Dep	Pond H2O 18MarchWshCk Dry Duct Dep	Pond H2O 18MarchWshCk stack	Raw H2O 18MarchWshCk Mix tank Dis	Fresh H2O 18MarchWshCk Gran Duct	Pond H2O 18MarchWshCk Gran Duct
P2O5	17.4	14.1	10.0	20.7	21.4	16.1	0.72	0.015	15.0	13.4	18.2	20.5	20.6	17.3	23.3	17.7	24.2	24.8	25.3	22.6	20.6	14.3	21.2	21.2	21.6	19.4
MgO	0.3678	0.2451	0.2821	0.4062	0.4017	0.3325	0.0281	0.0235	0.0583	0.0060	0.0024	0.0938	0.1411	0.1230	2.221	1.125	2.702	2.076	2.291	1.088	2.827	2.046	3.839	3.482	3.425	3.132
AL2O3	0.5038	0.4002	0.4143	0.7109	0.7291	0.5847	0.0227	0.0008	0.0762	0.149	0.1353	0.2044	0.2863	0.2242	3.479	2.348	3.070	3.453	3.773	2.062	4.745	4.441	5.805	5.018	5.059	5.549
Fe2O3	0.3033	0.2733	0.2867	0.4205	0.4359	0.357	0.0221	0.0000	0.0045	0.0050	0.1415	0.2192	0.2084	0.2081	2.158	1.345	1.041	1.45	1.510	1.066	2.507	2.544	3.066	2.647	2.537	2.623
CaO	0.4603	0.3489	0.4427	0.4453	0.3843	0.3634	0.2040	0.0450	0.3054	0.3208	0.3866	0.3648	0.3223	0.3487	1.147	0.5752	1.209	0.9029	0.8066	0.8211	1.029	0.8268	2.049	1.534	1.584	1.411
Cd	0.0104	0.0070	0.0003	0.0111	0.0107	0.0001	0.0007	0.0000	0.0089	0.0007	0.0082	0.0100	0.0006	0.0080	0.0226	0.0008	0.0262	0.0202	0.0178	0.0171	0.0187	0.0090	0.0384	0.0309	0.0309	0.0273
Cr	0.0204	0.0185	0.0185	0.0252	0.025	0.0208	0.0008	0.0000	0.0135	0.0105	0.0164	0.0235	0.0240	0.0205	0.0552	0.0508	0.047	0.0407	0.0380	0.0309	0.0741	0.0654	0.0505	0.0520	0.0434	0.0459
Cu	0.0009	0.0011	0.0013	0.0009	0.0005	0.0007	0.0017	0.0000	0.001	0.0012	0.0034	0.001	0.0006	0.0009	0.0010	0.0012	0.0015	0.0014	0.0007	0.0010	0.0013	0.001	0.0012	0.0012	0.0007	0.0007
H2SO4	1.966	1.531	1.769	2.225	2.007	1.616	0.3096	0.0194	1.606	1.566	1.719	2.260	2.039	1.912	2.750	1.842	2.880	2.814	2.478	2.421	1.821	0.7091	3.402	2.783	2.85	2.450
K	0.0517	0.0449	0.0360	0.0293	0.0138	0.0049	0.0203	0.0000	0.0061	0.0184	0.0415	0.0633	0.0437	0.0472	0.0207	0.0533	0.0432	0.0036	0.013	0.0243	0.0033	0.0083	0.0208	0.0828	0.0503	0.068
Na	0.0431	0.0304	0.0524	0.0433	0.0281	0.0368	0.0405	0.0070	0.0422	0.0403	0.0541	0.0463	0.0257	0.0423	0.0583	0.0530	0.0519	0.0431	0.0430	0.0457	0.0310	0.0121	0.0304	0.041	0.0303	0.0323
Ni	0.0095	0.0061	0.0062	0.0105	0.0103	0.0063	0.0005	0.0000	0.0000	0.0068	0.0089	0.0111	0.0107	0.0094	0.0133	0.007	0.0149	0.0127	0.0121	0.0103	0.0109	0.003	0.0142	0.0103	0.0093	0.0073
Si	0.0854	0.0604	0.0648	0.0508	0.0515	0.1066	0.0775	0.0021	0.1107	0.1111	0.1219	0.0584	0.0550	0.0517	0.3053	0.182	0.5011	0.2912	0.1106	0.1241	0.4601	0.5573	0.5008	0.2032	0.2425	0.3109
Ti	0.0030	0.0032	0.0028	0.0047	0.0046	0.0037	0.0002	0.0001	0.0003	0.0002	0.0006	0.0011	0.0010	0.0000	0.0245	0.0106	0.0009	0.0210	0.0234	0.0213	0.0341	0.0307	0.0430	0.0420	0.0407	0.0420
V	0.0287	0.0233	0.0249	0.0355	0.0355	0.0281	0.0014	0.0000	0.0101	0.0161	0.0196	0.0269	0.0200	0.0246	0.0965	0.0667	0.0644	0.0650	0.0845	0.0715	0.1306	0.1092	0.1294	0.1271	0.1164	0.1091
Y	0.0004	0.0045	0.0054	0.0072	0.0070	0.0059	0.0004	0.0000	0.0032	0.0010	0.0042	0.0058	0.0061	0.005	0.0247	0.0209	0.0208	0.0164	0.0139	0.0144	0.0336	0.0374	0.0333	0.0204	0.0225	0.0230
Zn	0.0047	0.0053	0.0027	0.1095	0.1015	0.0054	0.0045	0.0001	0.0008	0.0048	0.0058	0.1163	0.1003	0.0955	0.1057	0.0782	0.1068	0.1108	0.1131	0.0085	0.0000	0.0559	0.0075	0.0876	0.0708	0.0600
%Sol Meth Wsh	7.50	5.04	6.02	7.65	8.17	5.81																				
% F Distillation			1.29				0.97				1.03												0.33			
% F Electrode	1.31	1.44	1.43	1.37	1.28	1.33	1.21	0.15	0.50	1.02	1.20	0.74	0.07	1.03	5.50	5.71	6.05	5.61	4.40	5.20	6.44	6.26	7.25	6.37	5.78	6.77
	Run1 Str.	Run2 Str.	Run3 Str.	Run4 Str.	Run5 Str	Run6 Str.	Run7 Str.	Run1	Run2	Run3	Run4	Run5	Raw H2O													

AGR_010320

Scrub expansion

Element	Raw H2O R1MIX	Pond H2O RUN2MIX	Pond H2O RUN3MIX	Raw H2O RUN4MIX	Fresh H2O RUN5MIX	Pond H2O RUN6MIX	Pond H2O	Raw H2O	Raw H2O RUN1FILT	Pond H2O RUN2FILT	Pond H2O RUN3FILT	Raw H2O RUN4FILT	Fresh H2O RUN5FILT	Pond H2O RUN6FILT	Raw H2O R1scrubbC	Pond H2O R2scrubbC	Pond H2O R3scrubbC	Raw H2O R1scrubbC	Fresh H2O R1scrubbC	Pond H2O R2scrubbC	Raw H2O 1MethWshMX	Pond H2O 2MethwshCk	Pond H2O 3MethwshCk	Raw H2O 4MethwshCk	Fresh H2O 3MethwshCk	Pond H2O 7MethwshCk
Date	Dry Dust Dep	Dry Dust Dep	stack	Mix tank Blk	Clean Duct	Clean Duct	To granular Scrubber	To granular Scrubber	Dry Duct Dep	Dry Duct Dep	stack	Mix tank Blk	Clean Duct	Clean Duct	Dry Duct Dep	Dry Duct Dep	stack	Mix tank Blk	Clean Duct	Clean Duct	Dry Duct Dep	Dry Duct Dep	stack	Mix tank Blk	Clean Duct	Clean Duct
P2O5	17.4	14.1	16.6	20.7	21.4	18.1	0.72	0.018	15.5	13.4	16.2	20.5	20.6	17.3	23.3	17.7	24.2	24.6	25.3	22.6	20.5	14.3	21.2	21.2	21.6	19.4
MgO	0.3078	0.2451	0.2821	0.4052	0.4017	0.3225	0.0281	0.0235	0.0563	0.0009	0.0924	0.0936	0.1411	0.1236	2.221	1.125	2.702	2.078	2.201	1.609	2.027	2.046	3.820	3.482	3.426	3.132
Al2O3	0.5626	0.4662	0.4343	0.7189	0.7261	0.6047	0.0327	0.0000	0.0762	0.149	0.1353	0.2044	0.2683	0.2242	3.479	2.348	3.078	3.433	3.773	2.962	4.745	4.441	5.898	5.918	5.059	5.549
Fe2O3	0.3033	0.2733	0.2867	0.4285	0.4350	0.357	0.0221	0.0000	0.0045	0.0050	0.1415	0.2182	0.2684	0.2081	2.158	1.340	1.941	1.45	1.510	1.308	2.567	2.544	3.606	2.547	2.537	2.523
CaO	0.4662	0.3488	0.4427	0.4455	0.5843	0.3834	0.2049	0.0450	0.3054	0.2268	0.3866	0.3665	0.3223	0.3487	1.147	0.5752	1.299	0.9029	0.8065	0.8211	1.026	0.8266	2.049	1.534	1.584	1.411
Cd	0.0104	0.0070	0.0083	0.0111	0.0107	0.0091	0.0007	0.0000	0.0029	0.0007	0.0082	0.0100	0.0096	0.0088	0.0220	0.0068	0.0252	0.0202	0.0178	0.0171	0.0187	0.0050	0.0354	0.0300	0.0309	0.0273
Cr	0.0204	0.0165	0.0185	0.0252	0.025	0.0208	0.0008	0.0000	0.0135	0.0106	0.0194	0.0235	0.0249	0.0205	0.0552	0.0506	0.547	0.0407	0.0380	0.0369	0.0741	0.0854	0.0656	0.0529	0.0434	0.0459
Cu	0.0008	0.0011	0.0013	0.0009	0.0005	0.0007	0.0017	0.0000	0.001	0.0012	0.0014	0.001	0.0008	0.0008	0.0010	0.0017	0.0013	0.0014	0.0007	0.0010	0.0013	0.001	0.0012	0.0012	0.0007	-0.0007
H2SO4	1.004	1.531	1.755	2.220	2.607	1.916	0.3090	0.0184	1.008	1.560	1.719	2.208	2.030	1.012	2.750	1.642	2.880	2.814	2.478	2.421	1.821	0.7001	3.492	2.794	2.05	2.456
K	0.0517	0.0448	0.0369	0.0293	0.0136	0.0046	0.0200	0.0000	0.0081	0.0164	0.0415	0.0633	0.0437	0.0472	0.0257	0.0533	0.0432	0.0355	0.013	0.0243	0.0033	0.0085	0.0296	0.0528	0.0503	0.005
Na	0.0451	0.0394	0.0524	0.0432	0.0281	0.0358	0.0405	0.0070	0.0422	0.0103	0.0541	0.0403	0.0257	0.0423	0.0503	0.0530	0.0519	0.0431	0.0439	0.0457	0.0318	0.0121	0.0384	0.041	0.0383	0.0023
Ni	0.0008	0.0001	0.0082	0.0105	0.0103	0.0083	0.0005	0.0000	0.0090	0.0000	0.0089	0.0111	0.0107	0.0094	0.0133	0.007	0.0149	0.0127	0.0121	0.0103	0.0109	0.003	0.0142	0.0103	0.0093	0.0073
Si	0.0054	0.0084	0.0046	0.0528	0.0515	0.1086	0.0775	0.0021	0.1107	0.1111	0.1210	0.0584	0.0556	0.0517	0.3053	0.182	0.5011	0.2812	0.1160	0.1244	0.4081	0.5573	0.5606	0.2032	0.2425	0.3166
Ti	0.0030	0.0032	0.0028	0.0047	0.0048	0.0037	0.0002	0.0001	0.0003	0.0002	0.0008	0.0011	0.0010	0.0009	0.0243	0.0106	0.0269	0.0213	0.0234	0.0213	0.0341	0.0397	0.0408	0.0420	0.0407	0.0426
V	0.0287	0.0233	0.0249	0.0355	0.0359	0.0281	0.0014	0.0000	0.0161	0.0151	0.0100	0.0269	0.0209	0.0248	0.0096	0.0067	0.0044	0.0050	0.0045	0.0715	0.1300	0.1102	0.1294	0.1271	0.1164	0.1091
Y	0.0054	0.0045	0.0054	0.0072	0.0070	0.0059	0.0004	0.0000	0.0032	0.0019	0.0042	0.0058	0.0081	0.005	0.0217	0.0200	0.0206	0.0154	0.0129	0.0144	0.0326	0.0371	0.0333	0.0284	0.0225	0.0239
Zn	0.0047	0.0053	0.0027	0.1085	0.1015	0.0054	0.0045	0.0001	0.0058	0.0048	0.0055	0.1163	0.1003	0.0066	0.1057	0.0782	0.1005	0.1108	0.1131	0.0985	0.0086	0.0569	0.0075	0.0870	0.0706	0.0003
%Sof Meth Wsh	7.50	5.04	9.02	7.65	6.17	5.81																				
% F Distillation			1.29				0.97				1.03												0.33			
% F Electrode	1.31	1.44	1.43	1.37	1.28	1.33	1.21	0.15	0.09	1.02	1.20	0.74	0.67	1.03	5.56	5.71	6.85	5.51	4.48	5.26	8.41	8.26	7.25	6.37	5.78	6.77

AGR_010321

Sample I.D.
Pond Water Monthly Grab

Date	P_2O_5 Grav	P_2O_5 ICAP	MgO	AL_2O_3	Fe_2O_3	CaO	Cd	Cr	Cu	$H2_5O_4$	K	Na	Ni	Si	Ti	V	Y	Zn	Si Cold Digest.	% F	F/Si
JAN-01		0.71	0.0226	0.0293	0.0160	0.1834	0.0007	0.0010	0.0017	0.4040	0.0149	0.0579	0.0004	0.0327	0.0002	0.0017	0.0006	0.0048	0.2454	1.11	6.7
FEB-01		0.79	0.0215	0.0303	0.0168	0.2068	0.0006	0.0011	0.0018	0.4420	0.0390	0.0582	0.0003	0.0307	0.0003	0.0019	0.0007	0.0049	0.2478	1.05	6.2
MAR-01		0.78	0.0215	0.0344	0.0187	0.2368	0.0007	0.0011	0.0022	0.4874		0.0745	0.0004	0.0168	0.0000	0.0023	0.0008	0.0050	0.2294	1.12	7.2
APR-01		0.94	0.0217	0.0357	0.0202	0.2514	0.0007	0.0012	0.0025	0.5092		0.0856	0.0001	0.1022	0.0000	0.0023	0.0008	0.0051	0.3075	1.35	6.5
MAY-01		1.03	0.0236	0.0420	0.0241	0.2851	0.0008	0.0014	0.0030	0.6004	0.0230	0.0814	0.0005	0.0435	0.0004	0.0026	0.0010	0.0057	0.3573	1.74	7.2
JUNE-01		1.18	0.0299	0.0506	0.0270	0.3085	0.0007	0.0014	0.0033	0.6862	0.7340	0.0235	0.0006	0.0898	0.0042	0.0028	0.0011	0.0061	0.4678	1.73	5.4

Date	Fluoride	pH	Al2O3	P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	Si	Ti	V	Y	Zn	Cond	TDS
9/22/04	0.2301	1.94	0.0448	0.165	0.0512	0.0001	0.0002	0.0001	0.0251	0.1181	0.0057	0.0343	0.0096	0.0001	0.0526	0.0003	0.0004	0.0001	0.0010	8980	6017
9/29/04	0.5414	1.75	0.1493	0.485	0.0959	0.0002	0.0006	0.0001	0.1184	0.1706	0.0149	0.0674	0.0241	0.0004	0.1558	0.0009	0.0010	0.0001	0.0032	21300	14271
10/4/04	0.1717	2.15	0.0340	0.158	0.0433	0.0001	0.0001	0.0000	0.0166	0.1180	0.0053	0.0308	0.0124	0.0001	0.0329	0.0001	0.0003	0.0000	0.0009	7640	5119
10/29/04	0.0365	3.08	0.0171	0.048	0.0428	0.0000	0.0000	0.0000	0.0047	0.1072	0.0028	0.0271	0.0058	0.0001	0.0080	0.0000	0.0001	0.0000	0.0003	3120	2090
4/26/05	0.0772	2.74	0.0051	0.031	0.0301	0.0000	0.0000	0.0000	0.0012	0.0667	0.0017	0.0152	0.0026	0.0000	0.0067	0.0000	0.0001	0.0000	0.0002	2980	1796
4/28/05	0.0391	2.86	0.0071	0.045	0.0407	0.0000	0.0000	0.0000	0.0016	0.0922	0.0024	0.0208	0.0039	0.0000	0.0080	0.0001	0.0001	0.0000	0.0002	2870	1923
5/12/05	0.0300	2.73	0.0086	0.054	0.0415	0.0000	0.0000	0.0000	0.0020	0.0926	0.0023	0.0216	0.0047	0.0000	0.0076	0.0000	0.0001	0.0000	0.0003	2850	1910
5/25/05	0.0087	3.71	0.0051	0.025	0.0388	0.0000	0.0000	0.0000	0.0011	0.0908	0.0015	0.0198	0.0062	0.0000	0.0046	0.0000	0.0000	0.0000	0.0001	2300	1541
5/29/05	0.0079	4.57	0.0030	0.020	0.0345	0.0000	0.0000	0.0000	0.0002	0.0848	0.0010	0.0195	0.0025	0.0000	0.0039	0.0000	0.0001	0.0000	0.0001	2100	1407
5/31/05	0.0086	5.26	0.0045	0.0175	0.0369	0.0000	0.0000	0.0000	0.0009	0.0891	0.0011	0.0203	0.0024	0.0000	0.0036	0.0000	0.0001	0.0000	0.0001	2140	1434
6/1/05		5.26																		2020	1353
6/3/05		5.39																		2010	1347
6/7/05		5.45																		2010	1347
6/8/05		5.44																		2050	1374
6/20/05	0.0424	2.40	0.0271	0.1560	0.0461	0.0001	0.0001	0.0000	0.0044	0.1379	0.0052	0.0355	0.0087	0.0002	0.0105	0.0000	0.0003	0.0000	0.0006	5250	3518
6/21/05	0.0453	2.46	0.0273	0.1230	0.0362	0.0001	0.0001	0.0000	0.0040	0.1119	0.0038	0.0314	0.0089	0.0001	0.0100	0.0000	0.0001	0.0000	0.0006	4470	2995
6/22/05		2.38																		5300	3551
6/23/05	0.0578	2.30	0.0290	0.1885	0.0404	0.0001	0.0001	0.0001	0.0053	0.1195	0.0051	0.0316	0.0121	0.0002	0.0088	0.0000	0.0003	0.0000	0.0011	5950	3993
6/24/05		2.23																		6240	4181
6/27/05	0.0175	2.83	0.0081	0.0460	0.0363	0.0000	0.0000	0.0000	0.0016	0.0892	0.0020	0.0213	0.0053	0.0001	0.0055	0.0000	0.0001	0.0000	0.0003	2820	1889
6/28/05		2.81																		3210	2151
6/29/05		2.99																		3100	2077
6/30/05		3.03																		2840	1903
7/1/05		3.18																		3010	2017
7/6/05		3.50																		2340	1568
7/7/05		3.57																		2390	1601
7/11/05		3.68																		2350	1575
7/12/05		3.75																		2340	1568
7/13/05		3.81																		2240	1501
7/15/05	0.0087	4.91	0.0046	0.022	0.0376	0.0000	0.0000	0.0000	0.0008	0.0855	0.0016	0.0200	0.0047	0.0000	0.0039	0.0000	0.0000	0.0000	0.0001	2890	1936
7/18/05		5.30																		2230	1494
7/19/05		5.15																		2480	1662
7/20/05		5.19																		2060	1380
7/21/05		5.24																		2070	1387
7/22/05		5.25																		2170	1454
7/25/05		5.47																		2020	1353
7/26/05		5.51																		2000	1340
7/27/05		5.54																		2020	1353
7/28/05		5.57																		2666	1786
7/29/05	0.0063	5.56	0.0034	0.0135	0.0353	0.0000	0.0000	0.0000	0.0006	0.0809	0.0012	0.0186	0.0042	0.0000	0.0030	0.0000	0.0000	0.0000	1E-04	2850	1910
8/1/05		5.52																		1990	1333
8/2/05		5.58																		2010	1347
8/3/05		5.51																		2480	1662
8/5/05		5.61																		2060	1380
8/8/05		5.64																		1970	1320
8/9/05		5.74																		2050	1374
8/10/05		5.79																		1990	1333
8/11/05		5.81																		2070	1387
8/12/05		5.88																		2060	1380
8/15/05	0.0001	6.03	0.0006	0.0045	0.0400	0.0000	0.0000	0.0000	0.0002	0.0945	0.0013	0.0215	0.0036	0.0000	0.0028	0.0000	0.0000	0.0000	0.0001	1980	1327
8/16/05		6.02																		2090	1400
8/17/05		6.03																		2010	1347
8/18/05		6.09																		2070	1387
8/19/05		6.19																		2730	1829
8/22/05		6.19																		1980	1327
8/23/05		6.14																		2700	1809
8/24/05		6.18																		2610	1749
8/25/05		6.17																		2670	1789
8/26/05		6.21																		2020	1353
8/29/05		6.20																		2740	1836
8/30/05		6.26																		2570	1722
8/31/05		6.27																		1960	1313
9/1/05		6.26																		2600	1742
9/2/05		6.29																		2590	1735
9/6/05		6.30																		2160	1447
9/7/05		6.30																		1930	1293
9/8/05		6.33																		2590	1735
9/9/06		6.27																		2320	1554
9/12/05	0.0000	5.95	0.0008	0.0070	0.0340	0.0000	0.0000	0.0000	0.0002	0.0756	0.0008	0.0171	0.0067	0.0000	0.0058	0.0000	0.0001	0.0000	0.0000	1980	1327
9/12/05		5.95																		2250	1508
9/13/05		5.88																		2520	1688
9/14/05		5.85																		2010	1347
9/15/05		5.84																		2610	1749
9/16/05		2.97																		2860	1923
9/16/05		5.52																		2620	1755
9/19/05		5.83																		2530	1696
9/20/05		5.93																		2710	1816
9/21/05		5.91																		2700	1809

User Sample ID	Al2O3	P2O5	CaO	Fe2O3	H2SO4	K	MgO	Na	Si	F	pH	Cond	TDS
#1 Well Water	0.0000	0.0000	0.0343	0.0000	0.0679	0.0040	0.0164	0.0059	0.0023	0.0000	6.42	2270	1521
#9 Well Water	0.0063	0.0405	0.0418	0.0015	0.0938	0.0021	0.0211	0.0040	0.0066	0.0208	2.95	2650	1776
Pond Water	0.0018	0.0435	0.0061	0.0010	0.0161	0.0011	0.0012	0.0014	0.0087	0.0309	2.36	3000	2010
Closed Loop	0.0015	0.0435	0.0031	0.0007	0.0087	0.0009	0.0013	0.0008	0.0274	0.1076	2.13	7222	4838
Filtrate	0.0018	0.0580	0.0008	0.0010	0.0031	0.0004	0.0010	0.0003	0.0016	0.0046	2.39	2050	1374
SPA	0.0012	0.0385	0.0000	0.0007	0.0012	0.0005	0.0001	0.0003	0.0000	0.0000	2.45	1460	978

Well 9 Analysis

	Jun-2004	Mar-2005
Antimony	0.02	0.00
Arsenic	0.05	0.01
Barium	0.09	<.05
Beryllium	0.03	0.00
Cadmium	1.13	0.14
Chromium	1.61	0.27
Mercury	<.001	<.001
Chloride	170.00	53.00
Hydrogen Sulfide	<.1	<.1
Iron	120.00	10.10
Manganese	23.20	1.87
Dissolved Solids	8522.00	2142.00
Zinc	16.10	1.88
Silver	<.02	<.02
Aluminum	449.00	20.30
Alkalinity (as CaCO3)	<5	<5
Nitrate as N	208.00	11.20
Sulfate	2002.00	795.00
Nickel	2.68	0.26
Selenium	0.03	0.01
Sodium	267.00	65.90
Thallium	0.01	0.00
Fluoride	1999.00	142.00
Ammonia as N	37.40	6.10
Calcium	402.00	288.00
Hardness (as CaCO3)	2329.00	726.00
Magnesium	382.00	124.00
pH	2.40	3.50
Pottasium	60.90	15.10
Silica (as SiO3)	1035.00	132.00
Lead	0.01	<.003
Copper	1.07	0.09
Conductivity uS/cm	7390.00	2200.00
Total Phos	1039.00	154.00
	10.00	5.00

1 Well Water Test

Weight # 1 Well	Weight PW	Gallons Water	Gallons Pond Water	Projected Gallons/Min Water	Projected Gallons/Min Pond Water	Start pH	End pH
200	4.50	0.05282	0.00114	**150.0**	**3.25**	6.3	2.99

Weight # 1 Well	Weight 42%	Gallons Water	Gallons 42%	Projected Gallons/Min Water	Projected Gallons/Min 42 % Acid	Start pH	End pH
200	0.50	0.05282	0.00008	**150.0**	**0.24**	6.3	2.48

Weight # 1 Well	Weight SPA	Gallons Water	Gallons SPA	Gallons/Min Water	Projected Gallons/Min SPA	Start pH	End pH
200	0.30	0.05282	0.00004	**150.0**	**0.11**	6.3	2.65

Well9

Date	pH
4/16/2004	2.29
5/4/2004	2.44
6/4/2004	2.22
6/7/2004	2.20
6/8/2004	2.26
6/10/2004	2.26
6/11/2004	2.49
6/14/2004	2.60
6/14/2004	2.63
6/15/2004	2.63
6/15/2004	2.66
6/16/2004	2.75
6/17/2004	2.80
6/18/2004	2.91
6/21/2004	2.73
6/21/2004	2.74
6/22/2004	2.99
6/23/2004	3.04
6/24/2004	2.90
6/24/2004	2.91
6/25/2004	2.79
6/28/2004	2.44
6/28/2004	2.51
6/29/2004	2.42
6/30/2004	2.52
7/1/2004	2.53
7/2/2004	2.55
7/6/2004	2.51
7/15/2004	2.02
7/19/2004	2.56
7/20/2004	2.56
7/21/2004	2.62
7/22/2004	2.54
7/23/2004	2.48
7/26/2004	2.53
7/27/2004	2.51
7/28/2004	2.59
7/29/2004	2.57
7/30/2004	2.60
8/2/2004	2.60
8/3/2004	2.56
8/4/2004	2.49
8/5/2004	2.50
8/6/2004	2.55
8/9/2004	2.47
8/10/2004	2.49
8/11/2004	2.34

Well9

Date	pH
10/11/2004	2.46
10/12/2004	2.44
10/13/2004	2.52
10/14/2004	2.57
10/15/2004	2.55
10/18/2004	2.60
10/19/2004	2.71
10/20/2004	2.74
10/21/2004	2.77
10/22/2004	2.81
10/23/2004	2.84
10/24/2004	2.87
10/25/2004	2.90
10/26/2004	2.94
10/27/2004	2.97
10/28/2004	3.00
10/29/2004	3.03
10/30/2004	3.06
10/31/2004	3.10
11/1/2004	3.13
11/2/2004	3.16
11/3/2004	3.19
11/4/2004	3.22
11/5/2004	3.26
11/6/2004	3.29
11/7/2004	3.32
11/8/2004	3.35
11/9/2004	3.39
11/10/2004	3.42
11/11/2004	3.45
11/12/2004	3.48
11/13/2004	3.51
11/14/2004	3.55
11/15/2004	3.58
11/16/2004	3.61
11/17/2004	3.64
11/18/2004	3.68
11/19/2004	3.71
11/20/2004	3.74
11/21/2004	3.77
11/22/2004	3.80
11/23/2004	3.84
11/24/2004	3.87
11/25/2004	3.90
11/26/2004	3.93
11/27/2004	3.97
11/28/2004	4.00
11/29/2004	4.03

Well9

Date	pH
8/12/2004	2.44
8/13/2004	2.44
8/16/2004	2.40
8/17/2004	2.28
8/18/2004	2.34
8/19/2004	2.31
8/20/2004	2.20
8/25/2004	2.15
8/26/2004	2.20
8/27/2004	2.10
8/30/2004	2.12
8/31/2004	2.13
9/1/2004	2.11
9/2/2004	2.14
9/3/2004	2.10
9/7/2004	2.02
9/8/2004	2.11
9/9/2004	2.03
9/15/2004	1.91
9/16/2004	1.89
9/17/2004	1.96
9/20/2004	1.95
9/21/2004	1.95
9/22/2004	1.96
9/23/2004	1.96
9/24/2004	1.99
9/27/2004	1.94
9/28/2004	1.91
9/29/2004	1.75
10/4/2004	2.15
10/5/2004	2.08
10/6/2004	2.13
10/7/2004	2.14
10/8/2004	2.18
10/11/2004	2.46
10/12/2004	2.44
10/13/2004	2.52
10/14/2004	2.57
10/15/2004	2.55
10/18/2004	2.60
10/19/2004	2.71

Well9

Date	pH
11/30/2004	4.06
12/1/2004	4.09
12/2/2004	4.13
12/3/2004	4.16
12/4/2004	4.19
12/5/2004	4.22
12/6/2004	4.25
12/7/2004	4.29
12/8/2004	4.32
12/9/2004	4.35
12/10/2004	4.38
12/11/2004	4.42
12/12/2004	4.45
12/13/2004	4.48
12/14/2004	4.51
12/15/2004	4.54
12/16/2004	4.58
12/17/2004	4.61
12/18/2004	4.64
12/19/2004	4.67
12/20/2004	4.71
12/21/2004	4.74
12/22/2004	4.77
12/23/2004	4.80
12/24/2004	4.83
12/25/2004	4.87
12/26/2004	4.90
12/27/2004	4.93
12/28/2004	4.96
12/29/2004	5.00
12/30/2004	5.03
12/31/2004	5.06
1/1/2005	5.09
1/2/2005	5.12
1/3/2005	5.16
1/4/2005	5.19
1/5/2005	5.22
1/6/2005	5.25
1/7/2005	5.28
1/8/2005	5.32
1/9/2005	5.35
1/10/2005	5.38
1/11/2005	5.41
1/12/2005	5.45
1/13/2005	5.48
1/14/2005	5.51
1/15/2005	5.54
1/16/2005	5.57
1/17/2005	5.61
1/18/2005	5.64
1/19/2005	5.67
1/20/2005	5.70
1/21/2005	5.74
1/22/2005	5.77
1/23/2005	5.80
1/24/2005	5.83
1/25/2005	5.86
1/26/2005	5.90
1/27/2005	5.93
1/28/2005	5.96
1/29/2005	5.99
1/30/2005	6.03
1/31/2005	6.06
2/1/2005	6.09
2/2/2005	6.12
2/3/2005	6.15
2/4/2005	6.19
2/5/2005	6.22
2/6/2005	6.25
2/7/2005	6.28
2/8/2005	6.31
2/9/2005	6.35
2/10/2005	6.38
2/11/2005	6.41
2/12/2005	6.44
2/13/2005	6.48
2/14/2005	6.51
2/15/2005	6.54
2/16/2005	6.57
2/17/2005	6.60
2/18/2005	6.64
2/19/2005	6.67
2/20/2005	6.70
2/21/2005	6.73
2/22/2005	6.77
2/23/2005	6.80
2/24/2005	6.83
2/25/2005	6.86
2/26/2005	6.89
2/27/2005	6.93
2/28/2005	6.96
3/1/2005	6.99
3/2/2005	7.02

3/20/2001

Sample ID	Analyte Name	Reported Conc (Samp), ppm 1	2	3	Avg
PPA Well #3 Filtered	Mg	100	100	101	**100**
PPA Well #3 Filtered	Al	0.2	0.2	0.2	**0.2**
PPA Well #3 Filtered	Fe	0.1	0.1	0.1	**0.1**
PPA Well #3 Filtered	Ca	202	200	202	**201**
PPA Well #3 Filtered	Cd	0.0	0.0	0.0	**0.0**
PPA Well #3 Filtered	Cr	ND	ND	ND	**ND**
PPA Well #3 Filtered	Cu	0.0	0.0	0.0	**0.0**
PPA Well #3 Filtered	S	368	369	373	**370**
PPA Well #3 Filtered	K	10.1	10.1	10.2	**10.1**
PPA Well #3 Filtered	Ni	0.1	0.1	0.1	**0.1**
PPA Well #3 Filtered	Si	17.7	17.7	17.9	**17.8**
PPA Well #3 Filtered	Ti	ND	ND	ND	**ND**
PPA Well #3 Filtered	V	0	0	0	**ND**
PPA Well #3 Filtered	Y	0.0	0.0	0.0	**0.0**
PPA Well #3 Filtered	Zn	0.1	0.1	0.1	**0.1**

pH	6.68
TDS	
Conductivity	1650 Micromohs/cm

Analysis

Sample ID	Date	TDS (g/l)	Total Suspended Solids (g/l)	pH	TOC (ppm)	Carbonate (ppm)	Bicarbonate (ppm)	Ca (ppm)	SO_4 (ppm)	Al (ppm)	Cd (ppm)	Cr (ppm)	Cu (ppm)	Fe (ppm)	K (ppm)	Mg (ppm)	Na (ppm)	Ni (ppm)	Si (ppm)	Ti (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
PPA Well # 9	7/11/2001	1.4	0.045	6.72				204	863	0.08	0.003	ND	0.003	0.18	5.2	71	72	0.03	18	0.005	0.008	0.001	0.01

Specials

DATE	SAMPLE ID	pH	Pb (ppm)	SO_4 (ppm)	Sb (ppm)	Si (ppm)
08/17/01	# 9 Well Water	7.01	1.4	186.0	1.9	3.8
08/18/01	# 9 Well Water	6.77	1.4	157.8	1.0	3.9
08/19/01	# 9 Well Water	6.68	1.4	202.1	3.0	2.0
08/28/01	PPA Well (# 9)	6.82	1.3	33.7	3.9	2.0

9 Well Solids 16-Mar-2004

Values in % w/w

	Dried (Acid Method)	Calcined (Acid Method)
P2O5	31.3	41.2
MgO	0.4763	0.6028
Al2O3	6.38	8.58
Fe2O3	32.83	40.51
CaO	3.50	4.63
Cd	0.0040	0.0047
Cr	0.0364	0.0445
Cu	0.0185	0.0276
H2SO4	0.5663	0.1338
K	0.2118	0.4921
Na	0.2373	0.3934
Ni	0.0047	0.0023
Si	0.7635	0.4072
Ti	0.0033	0.0190
V	0.1314	0.1651
Y	0.0148	0.0191
Zn	0.0432	0.0583
Fluoride	4.27	0.00
Calcined Loss (1700 F)		22.50%

9 Well Water

pH	4.12

Five gallons of #9 well were allowed to sit over the weekend 3/13-3/15.
The entire five gallons was filtered through a 1 micron (um) filter. (3/15/04)
Solids were dried at 55 C and analyzed by acid digestion.
Dried solids were then calcined at 1700 C to drive off any organics
or carbonates (CO2) and analyzed by acid digestion.

The filtered sample appeared slightly green but clear.

On 3/16/04 the sample started to turn cloudy (postprecipitation).

Will allow solids to finish forming and will filter and analyze again.

1 Well Analysis 16-Mar-2004

Values in ppm

	Acid Method
P2O5	0
MgO	130
Al2O3	1
Fe2O3	0
CaO	348
Cd	0
Cr	0
Cu	0
S	237
K	11
Na	61
Ni	0
Si	21
Ti	0
V	0
Y	0
Zn	0
pH	7.05

19-Apr-2004

10 Well Solids

Slime sample was collected off the raw water filter to the lab. (25 um)

The sample was dried and then calcined at 1750 C.

Al2O3	0.23
P2O5	4.3
CaO	10.14
Fe2O3	73.32
S	0.18
MgO	0.62
SiO2	11.85

Sample Date	Sample	F, ppm	pH	Al2O3, %	CaO, %	Cu, %	Fe2O3, %	S, %	MgO, %	Na, %	Ni, %	P2O5, %	Si, %	Y, %	Zn, %
4/8/2004 10:48	#10 well Water	0.4	7.5		0.0198		0.0021	0.0096	0.0118	0.0008			0.0014		
4/8/2004 10:45	Solids from lab prefilter (25 um) of #10 well feed.			4.24	6.61	0.0313	74.59	0.2861	0.4677	0.1846	0.0047	1.02	0.4830	0.0157	0.0384

Sample Date	Sample	F, ppm	pH	Al2O3, %	CaO, %	Cu, %	Fe2O3, %	S, %	MgO, %	Na, %	Ni, %	P2O5, %	Si, %	Y, %	Zn, %
4/8/2004 10:48	#10 well Water	0.4	7.5		0.0198		0.0021	0.0096	0.0118	0.0008			0.0014		
4/8/2004 10:45	Solids from lab prefilter (25 um) of #10 well feed.			4.24	6.61	0.0313	74.59	0.2861	0.4677	0.1846	0.0047	1.02	0.4830	0.0157	0.0384

Sample Date/Time	User Sample ID	Fluoride	Al2O3	P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	Si	Ti	V	Y	Zn
3/5/2004 9:38	#9 Well Solids Acid Digest 3/4/04	12.56	22.54	20.6	21.04	0.0007	0.0028	0.0225	0.7906	1.67	0.2338	0.8718	0.5001	0.0018	0.3656	0.0039	0.0361	0.0009	0.0458

LOI
30.73

AGR_010339

9 Well Solids 16-Mar-2004

Values in % w/w

	Dried (Acid Method)	Calcined (Acid Method)
P2O5	31.3	41.2
MgO	0.4763	0.6028
Al2O3	6.38	8.58
Fe2O3	32.83	40.51
CaO	3.50	4.63
Cd	0.0040	0.0047
Cr	0.0364	0.0445
Cu	0.0185	0.0276
H2SO4	0.5663	0.1338
K	0.2118	0.4921
Na	0.2373	0.3934
Ni	0.0047	0.0023
Si	0.7635	0.4072
Ti	0.0033	0.0190
V	0.1314	0.1651
Y	0.0148	0.0191
Zn	0.0432	0.0583
Fluoride	4.27	0.00
Calcined Loss (1700 F)		22.50%

9 Well Water

pH	4.12

Five gallons of #9 well were allowed to sit over the weekend 3/13-3/15.
The entire five gallons was filtered through a 1 micron (um) filter. (3/15/04)
Solids were dried at 55 C and analyzed by acid digestion.
Dried solids were then calcined at 1700 C to drive off any organics
or carbonates (CO2) and analyzed by acid digestion.

The filtered sample appeared slightly green but clear.

On 3/16/04 the sample started to turn cloudy (postprecipitation).

Will allow solids to finish forming and will filter and analyze again.

Specials

DATE	SAMPLE ID	pH	Pb (ppm)	SO_4 (ppm)	Sb (ppm)	Si (ppm)
08/17/01	# 9 Well Water	7.01	1.4	186.0	1.9	3.8
08/18/01	# 9 Well Water	6.77	1.4	157.8	1.0	3.9
08/19/01	# 9 Well Water	6.68	1.4	202.1	3.0	2.0
08/28/01	PPA Well (# 9)	6.82	1.3	33.7	3.9	2.0

Sample	Depth (Feet)	pH	Conductivity	TDS
MW-05-02	124	7.42	854	572
MW-05-02	225	7.38	890	596
MW-05-02	275	7.52	824	552

Filtration of sample did not affect the conductivity

3/20/2001

Sample ID	Analyte Name	Reported Conc (Samp), ppm 1	2	3	Avg
PPA Well #3 Filtered	Mg	100	100	101	**100**
PPA Well #3 Filtered	Al	0.2	0.2	0.2	**0.2**
PPA Well #3 Filtered	Fe	0.1	0.1	0.1	**0.1**
PPA Well #3 Filtered	Ca	202	200	202	**201**
PPA Well #3 Filtered	Cd	0.0	0.0	0.0	**0.0**
PPA Well #3 Filtered	Cr	ND	ND	ND	**ND**
PPA Well #3 Filtered	Cu	0.0	0.0	0.0	**0.0**
PPA Well #3 Filtered	S	368	369	373	**370**
PPA Well #3 Filtered	K	10.1	10.1	10.2	**10.1**
PPA Well #3 Filtered	Ni	0.1	0.1	0.1	**0.1**
PPA Well #3 Filtered	Si	17.7	17.7	17.9	**17.8**
PPA Well #3 Filtered	Ti	ND	ND	ND	**ND**
PPA Well #3 Filtered	V	0	0	0	**ND**
PPA Well #3 Filtered	Y	0.0	0.0	0.0	**0.0**
PPA Well #3 Filtered	Zn	0.1	0.1	0.1	**0.1**

pH	6.68
TDS	
Conductivity	1650 Micromohs/cm

3/15/2001

Sample ID	Analyte Name	Reported Conc (Samp), ppm 1	2	3	Avg
PPA Well #1 Filtered	Mg	106	106	105	**106**
PPA Well #1 Filtered	Al	0	0	0	**0**
PPA Well #1 Filtered	Fe	12	11	11	**11**
PPA Well #1 Filtered	Ca	211	216	220	**216**
PPA Well #1 Filtered	Cd	0	0	0	**0**
PPA Well #1 Filtered	Cr	0	0	0	**0**
PPA Well #1 Filtered	Cu	0	0	0	**0**
PPA Well #1 Filtered	S	399	390	390	**393**
PPA Well #1 Filtered	K	9	9	9	**9**
PPA Well #1 Filtered	Ni	0	0	0	**0**
PPA Well #1 Filtered	Si	17	17	17	**17**
PPA Well #1 Filtered	Ti	0	0	0	**0**
PPA Well #1 Filtered	V	0	0	0	**0**
PPA Well #1 Filtered	Y	0	0	0	**0**
PPA Well #1 Filtered	Zn	0	0	0	**0**

pH	6.48
TDS	1.86 g/L
Conductivity	1700 Micromohs/cm

3/19/2001

Sample ID	Analyte Name	Reported Conc (Samp), ppm 1	2	3	Avg
PPA Well #2 Filtered	Mg	106	106	105	**106**
PPA Well #2 Filtered	Al	0.3	0.3	0.3	**0.3**
PPA Well #2 Filtered	Fe	0.2	0.2	0.2	**0.2**
PPA Well #2 Filtered	Ca	208	205	206	**207**
PPA Well #2 Filtered	Cd	0.0	0.0	0.0	**0.0**
PPA Well #2 Filtered	Cr	0.0	0.0	0.0	**0.0**
PPA Well #2 Filtered	Cu	0.0	0.0	0.0	**0.0**
PPA Well #2 Filtered	S	404	401	404	**403**
PPA Well #2 Filtered	K	9.2	9.3	9.2	**9.2**
PPA Well #2 Filtered	Ni	0.1	0.1	0.1	**0.1**
PPA Well #2 Filtered	Si	18.6	18.5	18.6	**18.6**
PPA Well #2 Filtered	Ti	ND	ND	ND	**ND**
PPA Well #2 Filtered	V	ND	ND	ND	**ND**
PPA Well #2 Filtered	Y	0.0	0.0	0.0	**0.0**
PPA Well #2 Filtered	Zn	0.2	0.2	0.2	**0.2**

pH	6.03
TDS	1.99 g/L
Conductivity	1700 Micromohs/cm

PPA Well Water 6/12/01

Constiuent	Conc (ppm)
Al	0.18
Ca	238.60
Cd	0.00
Cu	0.00
Fe	0.04
K	6.97
Mg	86.26
Na	79.15
Ni	0.05
S	308.10
Si	13.25
Ti	0.00
V	0.01
Y	0.00
Zn	0.01
TDS	1.51 g/L

Analysis

Sample ID	Date	TDS (g/l)	Total Suspended Solids (g/l)	pH	TOC (ppm)	Carbonate (ppm)	Bicarbonate (ppm)	Ca (ppm)	SO_4 (ppm)	Al (ppm)	Cd (ppm)	Cr (ppm)	Cu (ppm)	Fe (ppm)	K (ppm)	Mg (ppm)	Na (ppm)	Ni (ppm)	Si (ppm)	Tl (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
PPA Well # 9	7/11/2001	1.4	0.045	5.72				204	883	0.08	0.003	ND	0.003	0.18	5.2	71	72	0.03	18	0.005	0.008	0.001	0.01

Sample Date/Time	User Sample ID	Al2O3	P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	Si	Ti	V	Y	Zn	F
5/9/2005 14:26	LS Oily Water Sump	0.0000	0.0000	0.0833	0.0000	0.0000	0.0000	0.0000	0.1630	0.0012	0.0248	0.0025	0.0000	0.0021	0.0001	0.0000	0.0000	0.0000	0.0000

1 Well Water Test

	Weight # 1 Well	Weight PW	Gallons Water	Gallons Pond Water	Projected Gallons/Min Water	Projected Gallons/Min Pond Water	Start pH	End pH
Test 1	200	4.50	0.05282	0.00114	**150.0**	**3.25**	6.3	2.99

	Weight # 1 Well	Weight 42%	Gallons Water	Gallons 42%	Projected Gallons/Min Water	Projected Gallons/Min 42 % Acid	Start pH	End pH
Test 2	200	0.50	0.05282	0.00008	**150.0**	**0.24**	6.3	2.48

	Weight # 1 Well	Weight SPA	Gallons Water	Gallons SPA	Gallons/Min Water	Projected Gallons/Min SPA	Start pH	End pH
Test 3	200	0.30	0.05282	0.00004	**150.0**	**0.11**	6.3	2.65

1 Well Water Test

	Weight # 1 Well	Weight PW	Gallons Water	Gallons Pond Water	Projected Gallons Water	Projected Gallons Pond Water	Start pH	End pH
Test 1	200	30.70	0.05282	0.0080	200.0	30.29	7.66	2.03

	Weight # 1 Well	Weight 42%	Gallons Water	Gallons 42%	Projected Gallons Water	Projected Gallons 42 % Acid	Start pH	End pH
Test 2	200	1.80	0.05282	0.0003	200.0	1.06	7.64	1.99

	Weight # 1 Well	Weight SPA	Gallons Water	Gallons SPA	Projected Gallons Water	Projected Gallons SPA	Start pH	End pH
Test 3	200	1.58	0.05282	0.0002	200.0	0.79	7.62	2.00

Well 9 Analysis

	Jun-2004	Mar-2005
Antimony	0.02	0.00
Arsenic	0.05	0.01
Barium	0.09	<.05
Beryllium	0.03	0.00
Cadmium	1.13	0.14
Chromium	1.61	0.27
Mercury	<.001	<.001
Chloride	170.00	53.00
Hydrogen Sulfide	<.1	<.1
Iron	120.00	10.10
Manganese	23.20	1.87
Dissolved Solids	8522.00	2142.00
Zinc	16.10	1.88
Silver	<.02	<.02
Aluminum	449.00	20.30
Alkalinity (as CaCO3)	<5	<5
Nitrate as N	208.00	11.20
Sulfate	2002.00	795.00
Nickel	2.68	0.26
Selenium	0.03	0.01
Sodium	267.00	65.90
Thallium	0.01	0.00
Fluoride	1999.00	142.00
Ammonia as N	37.40	6.10
Calcium	402.00	288.00
Hardness (as CaCO3)	2329.00	726.00
Magnesium	382.00	124.00
pH	2.40	3.50
Pottasium	60.90	15.10
Silica (as SiO3)	1035.00	132.00
Lead	0.01	<.003
Copper	1.07	0.09
Conductivity uS/cm	7390.00	2200.00
Total Phos	1039.00	154.00
	10.00	5.00

Values are in %

Sample Date/Time	User Sample ID	Al2O3	P2O5	CaO	Fe2O3	H2SO4	K	MgO	Na	Si	F	pH	Cond	TDS
5/3/2005 11:23	#1 Well Water	0.0000	0.0000	0.0343	0.0000	0.0679	0.0040	0.0164	0.0059	0.0023	0.0000	6.42	2270	1521
5/3/2005 11:23	#9 Well Water	0.0063	0.0405	0.0418	0.0015	0.0938	0.0021	0.0211	0.0040	0.0066	0.0208	2.95	2650	1776
5/3/2005 11:23	Pond Water	0.0018	0.0435	0.0061	0.0010	0.0161	0.0011	0.0012	0.0014	0.0087	0.0309	2.36	3000	2010
5/3/2005 11:23	Closed Loop	0.0015	0.0435	0.0031	0.0007	0.0087	0.0009	0.0013	0.0008	0.0274	0.1076	2.13	7222	4838

Well #9 Analysis

Values are in %

Sample Date/Time	User Sample ID	Values are in % Fluoride	pH	Al2O3	P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	Si	Ti	V	Y	Zn	Conductivity	TDS	F/Si
9/22/2004 11:10	#9 Well Cold Digestion	0.2301	1.94	0.0441	0.165	0.0505	0.0001	0.0002	0.0001	0.0248	0.1169	0.0055	0.0339	0.0093	0.0001	0.0518	0.0003	0.0004	0.0001	0.0010	8980	6017	6.55
9/22/2004 11:10	#9 Well Hot Digestion	0.2301	1.94	0.0448	0.165	0.0512	0.0001	0.0002	0.0001	0.0251	0.1181	0.0057	0.0343	0.0096	0.0001	0.0526	0.0003	0.0004	0.0001	0.0010			6.45
September 29, 2004	#9 Well Hot Digestion	0.6414	1.75	0.1493	0.485	0.0959	0.0002	0.0006	0.0001	0.1184	0.1706	0.0149	0.0674	0.0241	0.0004	0.1558	0.0009	0.0010	0.0001	0.0032	21300	14271	6.07
04 Closed Loop Comp	Me:P2O5 Ratio:	2.477		0.036	1.00	0.070	0.0005	0.0011	0.0002	0.019	0.196	0.011	0.029	0.030	0.0004	0.576	0.0004	0.0019	0.0003	0.0051			
September 29, 2004	Me:P2O5 Ratio:	1.322		0.308	1.00	0.198	0.0004	0.0012	0.0002	0.244	0.352	0.031	0.139	0.050	0.0008	0.321	0.0019	0.0021	0.0002	0.007			
04 PW Comp	Me:P2O5 Ratio:	0.801		0.040	1.00	0.137	0.0006	0.0011	0.0003	0.020	0.347	0.019	0.032	0.049	0.0004	0.180	0.0003	0.0020	0.0005	0.0052			
04 Tank 12	Me:P2O5 Ratio:			0.031	1.00	0.018	0.0003	0.0009	0.0001	0.018	0.067	0.002	0.021	0.004	0.0004	0.007	0.0001	0.0017	0.0003	0.0047			

Well #9 Analysis

		Values are in %																					
Sample Date/Time	User Sample ID	Fluoride	pH	Al2O3	P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	Si	Ti	V	Y	Zn	Conductivity	TDS	F/Si
9/22/2004 11:10	#9 Well Cold Digestion	0.2301	1.94	0.0441	0.165	0.0505	0.0001	0.0002	0.0001	0.0248	0.1169	0.0055	0.0339	0.0093	0.0001	0.0518	0.0003	0.0004	0.0001	0.0010	8980	6017	6.55
9/22/2004 11:10	#9 Well Hot Digestion	0.2301	1.94	0.0448	0.165	0.0512	0.0001	0.0002	0.0001	0.0251	0.1181	0.0057	0.0343	0.0096	0.0001	0.0526	0.0003	0.0004	0.0001	0.0010			6.45
September 29, 2004	#9 Well Hot Digestion	0.6414	1.75	0.1493	0.485	0.0959	0.0002	0.0006	0.0001	0.1184	0.1706	0.0149	0.0674	0.0241	0.0004	0.1558	0.0009	0.0010	0.0001	0.0032	21300	14271	6.07
04 Closed Loop Comp	Me:P2O5 Ratio:	2.477		0.036	1.00	0.070	0.0005	0.0011	0.0002	0.019	0.196	0.011	0.029	0.030	0.0004	0.576	0.0004	0.0019	0.0003	0.0051			
September 29, 2004	Me:P2O5 Ratio:	1.322		0.308	1.00	0.198	0.0004	0.0012	0.0002	0.244	0.352	0.031	0.139	0.050	0.0008	0.321	0.0019	0.0021	0.0002	0.007			
04 PW Comp	Me:P2O5 Ratio:	0.801		0.040	1.00	0.137	0.0006	0.0011	0.0003	0.020	0.347	0.019	0.032	0.049	0.0004	0.180	0.0003	0.0020	0.0005	0.0052			
04 Tank 12	Me:P2O5 Ratio:			0.031	1.00	0.018	0.0003	0.0009	0.0001	0.018	0.067	0.002	0.021	0.004	0.0004	0.007	0.0001	0.0017	0.0003	0.0047			

Well #9 Analysis

		Values are in %																				
Sample Date/Time	User Sample ID	Fluoride	pH	Al2O3	P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	Si	Ti	V	Y	Zn	Conductivity	TDS
September 22, 2004	#9 Well Hot Digestion	0.2301	1.94	0.0448	0.165	0.0512	0.0001	0.0002	0.0001	0.0251	0.1181	0.0057	0.0343	0.0096	0.0001	0.0526	0.0003	0.0004	0.0001	0.0010	8980	6017
September 29, 2004	#9 Well Hot Digestion	0.6414	1.75	0.1493	0.485	0.0959	0.0002	0.0006	0.0001	0.1184	0.1706	0.0149	0.0674	0.0241	0.0004	0.1558	0.0009	0.0010	0.0001	0.0032	21300	14271
October 4, 2004	#9 Well Hot Digestion	0.1717	2.15	0.0340	0.158	0.0433	0.0001	0.0001	0.0000	0.0166	0.1180	0.0053	0.0308	0.0124	0.0001	0.0329	0.0001	0.0003	0.0000	0.0009	7640	5119
October 29, 2004	#9 Well Hot Digestion	0.0365	3.08	0.0171	0.048	0.0428	0.0000	0.0000	0.0000	0.0047	0.1072	0.0028	0.0271	0.0058	0.0001	0.0090	0.0000	0.0001	0.0000	0.0003	3120	2090
November 12, 2004	#9 Well Solids -Fusion	13.8		9.233	12.6	16.24	0.0001	0.0912	0.0933	15.6900	3.3290	0.6552	0.4520		0.0000	3.0690	0.3778	0.0000	0.0165	0.1919		
January 4, 2005	#9 Well Solids -Fusion	8.72		4.172	29.7	8.536		0.5198	0.000	27.38	2.364	0.8694	0.122			0.0616	0.3197		0.0357	0.0372		
26-Apr-2005	#9 Well Hot Digestion	0.0772	2.74	0.0051	0.031	0.0301	0.0000	0.0000	0.0000	0.0012	0.0667	0.0017	0.0152	0.0026	0.0000	0.0067	0.0000	0.0001	0.0000	0.2002	2680	1796

Well #9 Analysis

		Values are in %																				
Sample Date/Time	User Sample ID	Fluoride	pH	Al2O3	P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	Si	Ti	V	Y	Zn	Conductivity	TDS
September 22, 2004	#9 Well Hot Digestion	0.2301	1.94	0.0448	0.165	0.0512	0.0001	0.0002	0.0001	0.0251	0.1181	0.0057	0.0343	0.0096	0.0001	0.0526	0.0003	0.0004	0.0001	0.0010	8980	6017
September 29, 2004	#9 Well Hot Digestion	0.6414	1.75	0.1493	0.485	0.0959	0.0002	0.0006	0.0001	0.1184	0.1706	0.0149	0.0674	0.0241	0.0004	0.1558	0.0009	0.0010	0.0001	0.0032	21300	14271
October 4, 2004	#9 Well Hot Digestion	0.1717	2.15	0.0340	0.158	0.0433	0.0001	0.0001	0.0000	0.0166	0.1180	0.0053	0.0308	0.0124	0.0001	0.0329	0.0001	0.0003	0.0000	0.0009	7640	5119
October 28, 2004	#9 Well Hot Digestion	0.0365	3.08	0.0171	0.048	0.0428	0.0000	0.0000	0.0000	0.0047	0.1072	0.0028	0.0271	0.0058	0.0001	0.0090	0.0000	0.0001	0.0000	0.0003	3120	2090
November 12, 2004	#9 Well Solids -Fusion	13.8		9.233	12.6	16.24	0.0001	0.0912	0.0933	15.6900	3.3290	0.6852	0.4520		0.0000	3.0690	0.3778	0.0000	0.0165	0.1919		
January 4, 2005	#9 Well Solids -Fusion	8.72		4.172	29.7	8.536		0.5198	0.000	27.38	2.364	0.8694	0.122			0.0616	0.3197		0.0357	0.0372		
26-Apr-2005	#9 Well Hot Digestion	0.0772	2.74	0.0051	0.0310	0.0301	0.0000	0.0000	0.0000	0.0012	0.0667	0.0017	0.0152	0.0026	0.0000	0.0067	0.0000	0.0001	0.0000	0.2002	2680	1796
28-Apr-2005	#9 Well Hot Digestion	0.0391	2.88	0.0071	0.045	0.0407	0.0000	0.0000	0.0000	0.0016	0.0922	0.0024	0.0208	0.0039	0.0000	0.0080	0.0001	0.0001	0.0000	0.0002	2870	1923

Well 9 Data

All values are in %

Date	Fluoride	pH	Al2O3	P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	Si	Ti	V	Y	Zn	Cond	TDS
9/22/04	0.2301	1.94	0.0446	0.165	0.0512	0.0001	0.0002	0.0001	0.0251	0.1181	0.0057	0.0343	0.0096	0.0001	0.0526	0.0003	0.0004	0.0001	0.0010	8980	6017
9/29/04	0.6414	1.75	0.1493	0.485	0.0959	0.0002	0.0006	0.0001	0.1184	0.1705	0.0149	0.0674	0.0241	0.0004	0.1558	0.0009	0.0010	0.0001	0.0032	21300	14271
10/4/04	0.1717	2.15	0.0340	0.158	0.0433	0.0001	0.0001	0.0000	0.0166	0.1180	0.0053	0.0308	0.0124	0.0001	0.0329	0.0001	0.0003	0.0000	0.0009	7640	5119
10/29/04	0.0365	3.08	0.0171	0.046	0.0428	0.0000	0.0000	0.0000	0.0047	0.1072	0.0028	0.0271	0.0058	0.0001	0.0090	0.0000	0.0001	0.0000	0.0003	3120	2090
4/26/05	0.0772	2.74	0.0051	0.031	0.0301	0.0000	0.0000	0.0000	0.0012	0.0667	0.0017	0.0152	0.0026	0.0000	0.0067	0.0000	0.0001	0.0000	0.2002	2680	1796
4/28/05	0.0391	2.88	0.0071	0.045	0.0407	0.0000	0.0000	0.0000	0.0016	0.0922	0.0024	0.0208	0.0039	0.0000	0.0080	0.0001	0.0001	0.0000	0.0002	2870	1923
5/12/05	0.0300	2.73	0.0086	0.054	0.0415	0.0000	0.0000	0.0000	0.0020	0.0926	0.0023	0.0216	0.0047	0.0000	0.0076	0.0000	0.0001	0.0000	0.0003	2850	1910
5/25/05	0.0087	3.71	0.0051	0.025	0.0388	0.0000	0.0000	0.0000	0.0011	0.0906	0.0015	0.0198	0.0062	0.0000	0.0046	0.0000	0.0000	0.0000	0.0001	2300	1541
5/29/05	0.0079	4.57	0.0030	0.020	0.0345	0.0000	0.0000	0.0000	0.0002	0.0848	0.0010	0.0195	0.0025	0.0000	0.0039	0.0000	0.0001	0.0000	0.0001	2100	1407
5/31/05	0.0086	5.26	0.0045	0.0175	0.0389	0.0000	0.0000	0.0000	0.0009	0.0891	0.0011	0.0203	0.0024	0.0000	0.0038	0.0000	0.0001	0.0000	0.0001	2140	1434
6/1/05		5.26																		2020	1353
6/3/05		5.39																		2010	1347
6/7/05		5.45																		2010	1347
6/8/05		5.44																		2050	1374
6/20/05	0.0424	2.40	0.0271	0.1560	0.0461	0.0001	0.0001	0.0000	0.0044	0.1379	0.0052	0.0355	0.0087	0.0002	0.0105	0.0000	0.0003	0.0000	0.0009	5250	3518
6/21/05	0.0453	2.46	0.0273	0.1230	0.0352	0.0001	0.0001	0.0000	0.0040	0.1119	0.0038	0.0314	0.0089	0.0001	0.0100	0.0000	0.0001	0.0000	0.0008	4470	2995
6/22/05		2.38																		5300	3551
6/23/05	0.0578	2.30	0.0290	0.1885	0.0404	0.0001	0.0001	0.0001	0.0053	0.1195	0.0051	0.0316	0.0121	0.0002	0.0088	0.0000	0.0003	0.0000	0.0011	5960	3993
6/24/05		2.23																		6240	4181
6/27/05	0.0175	2.83	0.0081	0.0460	0.0363	0.0000	0.0000	0.0000	0.0016	0.0892	0.0020	0.0213	0.0053	0.0001	0.0055	0.0000	0.0001	0.0000	0.0003	2820	1889
6/28/05		2.81																		3210	2151
6/29/05		2.99																		3100	2077
6/30/05		3.03																		2840	1903
7/1/05		3.18																		3010	2017
7/6/05		3.50																		2340	1568
7/7/05		3.57																		2390	1601
7/11/05		3.68																		2350	1575
7/12/05		3.75																		2340	1568
7/13/05		3.81																		2240	1501
7/15/05	0.0087	4.91	0.0046	0.022	0.0376	0.0000	0.0000	0.0000	0.0008	0.0855	0.0016	0.0200	0.0047	0.0000	0.0039	0.0000	0.0000	0.0000	0.0001	2890	1936
7/18/05		5.30																		2230	1494
7/19/05		5.15																		2480	1662
7/20/05		5.19																		2060	1380
7/21/05		5.24																		2070	1387
7/22/05		5.25																		2170	1454
7/25/05		5.47																		2020	1353
7/26/05		5.51																		2000	1340
7/27/05		5.54																		2020	1353
7/28/05		5.57																		2666	1786
7/29/05	0.0063	5.56	0.0034	0.0135	0.0353	0.0000	0.0000	0.0000	0.0006	0.0809	0.0012	0.0186	0.0042	0.0000	0.0030	0.0000	0.0000	0.0000	1E-04	2850	1910
8/1/05		5.52																		1990	1333
8/2/05		5.58																		2010	1347
8/3/05		5.51																		2480	1662
8/5/05		5.61																		2050	1380
8/8/05		5.64																		1970	1320
8/9/05		5.74																		2050	1374
8/10/05		5.79																		1990	1333
8/11/05		5.81																		2070	1387
8/12/05		5.88																		2050	1380
8/15/05	0.0001	6.03	0.0005	0.0045	0.0400	0.0000	0.0000	0.0000	0.0002	0.0945	0.0013	0.0215	0.0036	0.0000	0.0028	0.0000	0.0000	0.0000	0.0001	1980	1327
8/16/05		6.02																		2090	1400
8/17/05		6.03																		2010	1347
8/18/05		6.09																		2070	1387
8/19/05		6.19																		2730	1829
8/22/05		6.19																		1980	1327
8/23/05		6.14																		2700	1809
8/24/05		6.18																		2610	1749
8/25/05		6.17																		2670	1789
8/26/05		6.21																		2020	1353
8/29/05		6.20																		2740	1836
8/30/05		6.26																		2570	1722
8/31/05		6.27																		1960	1313
9/1/05		6.26																		2600	1742
9/2/05		6.29																		2590	1735
9/6/05		6.30																		2160	1447
9/7/05		6.30																		1930	1293
9/8/05		6.33																		2590	1735
9/9/05		6.27																		2320	1554
9/12/05	0.0000	5.95	0.0008	0.0070	0.0340	0.0000	0.0000	0.0000	0.0002	0.0756	0.0008	0.0171	0.0057	0.0000	0.0056	0.0000	0.0001	0.0000	0.0000	1980	1327
9/12/05		5.95																		2250	1508
9/13/05		5.86																		2520	1688
9/14/05		5.85																		2010	1347
9/15/05		5.84																		2610	1749
9/16/05		2.97																		2860	1923
9/16/05		5.52																		2620	1755
9/19/05		5.83																		2530	1695
9/20/05		5.93																		2710	1816
9/21/05		5.91																		2700	1809

Well #9 Analysis

		Values are in %																				
Sample Date/Time	User Sample ID	Fluoride	pH	Al2O3	P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	Si	Ti	V	Y	Zn	Conductivity	TDS
September 22, 2004	#9 Well Hot Digestion	0.2301	1.94	0.0448	0.165	0.0512	0.0001	0.0002	0.0001	0.0251	0.1181	0.0057	0.0343	0.0096	0.0001	0.0526	0.0003	0.0004	0.0001	0.0010	8980	6017
September 29, 2004	#9 Well Hot Digestion	0.6414	1.75	0.1493	0.485	0.0959	0.0002	0.0005	0.0001	0.1184	0.1706	0.0149	0.0574	0.0241	0.0004	0.1558	0.0009	0.0010	0.0001	0.0032	21300	14271
October 4, 2004	#9 Well Hot Digestion	0.1717	2.15	0.0340	0.158	0.0433	0.0001	0.0001	0.0000	0.0166	0.1180	0.0053	0.0308	0.0124	0.0001	0.0329	0.0001	0.0003	0.0000	0.0009	7640	5119
October 29, 2004	#9 Well Hot Digestion	0.0365	3.08	0.0171	0.048	0.0428	0.0000	0.0000	0.0000	0.0047	0.1072	0.0028	0.0271	0.0058	0.0001	0.0090	0.0000	0.0001	0.0000	0.0003	3120	2090
November 12, 2004	#9 Well Solids -Fusion	13.8		9.233	12.6	16.24	0.0001	0.0912	0.0933	15.6900	3.3290	0.6852	0.4520		0.0000	3.0690	0.3778	0.0000	0.0165	0.1919		
January 4, 2004	#9 Well Solids -Fusion	8.72		4.172	29.7	8.536		0.5198	0.000	27.38	2.364	0.8694	0.122			0.0616	0.3197		0.0357	0.0372		

9 Well

		# 2	# 10	# 20	# 30
TSS (0.45um)	g/l	0.071	0.018	0.016	0.017
TDS	g/l	1.40	1.75	1.63	1.84
pH		5.87	5.67	5.74	5.94
F	(ppm)	>0.02	>0.02	>0.02	>0.02
P2O5	(ppm)				
Al	(ppm)	1.5	0.4	0.2	0.1
As	(ppm)				
B	(ppm)				
Ba	(ppm)				
Ca	(ppm)	182	226	232	233
Cd	(ppm)				
Co	(ppm)				
Cr	(ppm)	0.02	0.02	0.01	0.02
Cu	(ppm)				
Fe	(ppm)	23	5	2	0.9
K	(ppm)	13	14	14	13
Li	(ppm)				
Mg	(ppm)	76	104	106	107
Mn	(ppm)	3	5	4	3
Na	(ppm)	46	74	80	85
Ni	(ppm)				
Pb	(ppm)	0.1	0.1	0.1	0.1
SO_4	(ppm)	749	1080	1110	1100
Sb	(ppm)				
Si	(ppm)	20	23	23	23
Ti	(ppm)				
U	(ppm)				
V	(ppm)				
Zn	(ppm)	2	2	2	0.9

Well #9 Analysis

		Values are in %																		
Sample Date/Time	User Sample ID	Fluoride	pH	Al2O3	P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	Si	Ti	V	Y	Zn
9/22/2004 11:10	#9 Well Cold Digestion	0.2301	1.94	0.0441	0.165	0.0505	0.0001	0.0002	0.0001	0.0248	0.1169	0.0055	0.0339	0.0093	0.0001	0.0518	0.0003	0.0004	0.0001	0.0010
9/22/2004 11:10	#9 Well Hot Digestion	0.2301	1.94	0.0448	0.165	0.0512	0.0001	0.0002	0.0001	0.0251	0.1181	0.0057	0.0343	0.0096	0.0001	0.0526	0.0003	0.0004	0.0001	0.0010

Conductivity	8980
TDS	6017

Well #9 Analysis

		Values are in %									
Sample Date/Time	**User Sample ID**	**Fluoride**	**pH**	**Al2O3**	**P2O5**	**CaO**	**Cd**	**Cr**	**Cu**	**Fe2O3**	**H2SO4**
September 22, 2004	#9 Well Hot Digestion	0.2301	1.94	0.0448	0.165	0.0512	0.0001	0.0002	0.0001	0.0251	0.1181
September 29, 2004	#9 Well Hot Digestion	0.6414	1.75	0.1493	0.485	0.0959	0.0002	0.0006	0.0001	0.1184	0.1706

K	MgO	Na	Ni	Si	Ti	V	Y	Zn	Conductivity	TDS
0.0057	0.0343	0.0096	0.0001	0.0526	0.0003	0.0004	0.0001	0.0010	8980	6017
0.0149	0.0674	0.0241	0.0004	0.1558	0.0009	0.0010	0.0001	0.0032	21300	14271

		All Values are in %														
Sample Date/Time	User Sample ID	Fluoride	Al2O3	P2O5	CaO	Cr	Fe2O3	H2SO4	K	MgO	Si	Ti	V	Y	Zn	LOI
5/5/2004 12:31	#9 Well Solids 5/5/04	2.02	0.2962	37.95	0.2062	0.2505	38.26	0.8425	0.8289	0.1501	0.3883	0.579	0.0027	0.0051	0.0003	18.7

Sample Date/Time	User Sample ID	Al2O3	P2O5	CaO	Cd	Cr	Cu	Fe2O3	H2SO4	K	MgO	Na	Ni	Si	Ti	V	Y	Zn	pH
12/8/2004 7:42	MW 13 #1 12/7/2004	0.0806	0.0335	0.0211	0.0000	0.0000	0.0000	0.0093	0.1682	0.0026	0.0469	0.0109	0.0002	0.0064	0.0000	0.0000	0.0000	0.0005	3.14
12/8/2004 7:42	MW 13 #2 12/7/2004	0.0838	0.0335	0.0219	0.0000	0.0000	0.0000	0.0096	0.1753	0.0028	0.0489	0.0114	0.0002	0.0068	0.0000	0.0000	0.0000	0.0006	3.14