

Embankment (Earth) Dam Inspection Form

Name of Dam: Lake Petit Dam

Date: 12 May 2020

Location of Dam (County): Pickens County

Weather: Clear, Cloudy, 62 degrees F

Inspected by (Print Name): Max Cange, P.G. and Edison Avila, E.I.

If an inspection item requires further action on your part, place a check mark to the left of the number of the item

A. Crest (refer to Glossary for description)

1. How would you describe the vegetation on the crest? (Check all that apply)

Recently Mowed X Overgrown _____ Good Cover X Sparse _____

Other/Corrective Action (describe): The crest of the dam is an asphalt paved road. Vegetation on either side of the road was observed to be well-maintained.

2. Are there any trees or other inappropriate or excessive vegetation on the crest? Yes _____ No X

If yes, describe (type of vegetation, size, location, etc.)/Corrective Action: N/A

3. Is there a paved road or driveway on the crest? Yes X No _____

If yes, describe the condition (for example, good condition, numerous cracks, newly paved)/Corrective Action: Good condition. Paved in 2012.

4. Are there any depressions, ruts or holes on the crest? Yes _____ No X

If yes, describe (size, location, etc.)/Corrective Action: N/A

5. Are there any cracks on the crest? Yes X No _____

If yes, describe (length and width, location, direction of cracking, etc.)/Corrective Action: Yes, a hairline transverse crack across the asphalt road was observed near the left abutment and towards the center of the embankment. This appears to be routine pavement stress; however, this should continue to be monitored.

6. Other observations on the crest/Corrective Action: Some erosion at the left and right groins from foot traffic and surface runoff was observed. These areas should be re-established and seeded.

B. Upstream Slope (refer to Glossary for description)

1. What is the reservoir level today? At Normal Pool X Above Normal Pool _____ Feet Below Normal Pool _____ Feet

2. How would you describe the vegetation on the upstream slope? (Check all that apply)

Recently Mowed X Overgrown _____ Good Cover _____ Sparse _____

Other/Corrective Action (describe): This area is well-seeded and maintained short grass. A bare spot observed mid-way up the slope in 2013 was observed to have increased vegetation. Slight erosion along the water's edge was observed.

3. Are there any trees or other inappropriate or excessive vegetation on the slope? Yes _____ No X

If yes, describe (type of vegetation, size, location, etc.)/Corrective Action: N/A

4. Are there any depressions, bulges, ruts or holes (such as animal burrows) on the slope? Yes _____ No X

If yes, describe (size, location, etc.)/Corrective Action: Good condition, previously reported soft areas were not observed. No evidence of new animal burrows. Continue to monitor the area for new animal burrows.

5. Are there any eroded areas on the slope (such as wave erosion along the shoreline)? Yes X No _____

If yes, describe (size of area, location, severity, etc.)/Corrective Action: Slight "beaching" observed/reported in 2008 continued to be observed. Conditions do not appear to have worsened. Some erosion on the L and R groins due to suspected animal and pedestrian use.

Embankment (Earth) Dam Inspection Form (continued)

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Upstream Slope (continued)

6. Are there any cracks, sloughs or slides (vertical cliffs) on the slope? Yes _____ No X
If yes, describe (length, width, height, location, etc.)/Corrective Action: N/A
7. Is there any type of slope protection along the shoreline (such as riprap)? Yes X No _____
If yes, describe what type and its condition (for example, riprap - adequate, inadequate, sparse)/Corrective Action:
Adequate rip rap exists on the shoreline, but filter layer behind rip rap appears to have been eroded, and should be replaced to prevent further erosion.
8. Other observations on the upstream slope/Corrective Action: No other observations.

C. Downstream Slope (refer to Glossary for description)

1. How would you describe the vegetation on the downstream slope? (Check all that apply)
Recently Mowed X Overgrown _____ Good Cover _____ Sparse _____
Other/Corrective Action (describe): Some minor sparse vegetated patches, as noted on previous inspections and reports.
2. Are there any trees or other inappropriate or excessive vegetation on the slope? Yes X No _____
If yes, describe (type of vegetation, size, location, etc.)/Corrective Action: Small sprouting trees were observed on the downstream face of the dam along the right abutments. Vegetation was observed to be blocking the left groin drain at Bench 4. Debris should be removed to allow mowing to control these before they grow larger.
3. Are there any depressions, bulges, ruts or holes (such as animal burrows) on the slope? Yes X No _____
If yes, describe (size, location, etc.)/Corrective Action: Several animal burrows and depressions were observed throughout the downstream face. These should be backfilled.
4. Are there any eroded areas on the slope (such as along abutment contacts)? Yes X No _____
If yes, describe (size of area, location, severity, etc.)/Corrective Action: Minor surface erosion was observed generally at the right and left abutments at each bench, and scattered throughout the downstream slope. Corrective measures were previously installed but need reseeding.
5. Are there any cracks, sloughs or slides (vertical cliffs) on the slope? Yes _____ No X
If yes, describe (length, width, height, location, etc.)/Corrective Action: N/A
6. Are there any wet areas or areas of hydrophilic (lush, water-loving) vegetation? Yes X No _____
If yes, describe (size of area, location, etc.)/Corrective Action: Two wet areas were observed above Bench 1, generally starting from the concrete channel and moving approximately halfway upslope towards Bench 2. One wet area was observed from approximately Station (STA) 0+15 to -1+00. The other wet area was observed near the left abutment, from approximately STA 1+95 to 2+05. Additionally, a small wet area was observed along the toe of the downstream slope measuring less than 2-feet wide and approximately 50 ft long between STA 1+00 and 2+00.
7. Do any wet areas indicate seepage through the dam (such as rust-colored, stained water)? Yes _____ No X N/A _____
If yes, describe (for example, new area of seepage, no change from past observations, size of area, location) /Corrective Action: _____

Embankment (Earth) Dam Inspection Form (continued)

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C. Downstream Slope (continued)

8. Are there any leaks (flowing water) from the slope or beyond the toe of the dam? Yes _____ No X
If yes, describe (location, rate of flow, turbidity of flow)/Corrective Action: _____

9. Other observations on the downstream slope/Corrective Action: A concrete channel on the left abutment has the soil beneath it eroded. Recommend replacing and re-establishing this area. Additionally, the weirs on the left and right abutments were located. The left weir was observed to be clogged with evidence of substantial sediment buildup. Geosyntec unclogged the left weir, but the concrete channel around the weir should be cleaned out and monitored to prevent future clogs to the weirs.

D. Plunge Pool (refer to Glossary for description)

1. Is there any type of erosion protection around the plunge pool (such as riprap)? Yes _____ No X
If yes, describe what type and its condition (for example, riprap - adequate, inadequate, obstructed by vegetation)
/Corrective Action: There is no plunge pool, but downstream from the impact-type stilling basin there does not appear to be riprap, however based on current operations it does not appear to be needed.

2. Is there any erosion and or seeps around or going into the plunge pool? Yes _____ No X
If yes, describe (size of area, location, severity, etc.) /Corrective Action: A drainpipe right of the stilling basin observed to be discharging clear water. Previous signs of potential seepage have diminished, but this area should continue to be monitored.

3. Other observations around the plunge pool/Corrective Action: No other observations.

E. Principal and Emergency Spillways (refer to Glossary for description)

1. What types of spillways does the dam have (such as corrugated metal, concrete or siphon pipe; concrete or earth channel)?
Principal Spillway Gunnite, Stepped Spillway Emergency Spillway None, other than low-level draw-off pipe.
Other/Corrective Action: _____

2. Has the emergency spillway activated (had flow) since the last inspection? Yes _____ No X
If yes describe (date(s) of flow, reason for activation, depth of flow) /Corrective Action: _____

3. For pipe spillways, is the intake obstructed in any way (such as with excessive debris)? Yes _____ No _____
If yes, describe (type of debris, reason for obstruction, etc.) /Corrective Action: The intake for the low-level draw-off is not visible from the surface and could not be inspected.

4. For pipe spillways, what is the condition of any trash racks (for example, adequate, inadequate, damaged)? /Corrective Action:
The intake for the low-level draw-off is not visible from the surface and could not be inspected. A plan should be put in place to inspect this underwater feature.

5. For pipe spillways, are there any visible cracks, separations or holes in the pipe(s) (intake or outlet)? Yes _____ No X
If yes, describe (location, width of crack or separation, etc.)/Corrective Action: _____

Embankment (Earth) Dam Inspection Form (continued)

Name of Dam: Lake Petit Dam Date: 12 May 2020

6. For pipe spillways, are there any apparent leaks in the pipe(s)? Yes _____ No X

E. Principal and Emergency Spillways (continued)

If yes, describe (location, rate of flow from leak, etc.)/Corrective Action: The full pipe was unable to be inspected, however, a plan should be put in place to inspect the length of the pipe.

7. For pipe spillways, how would you describe the overall condition of the pipe(s)? (Check all that apply)

Functioning Normally X Not Functional _____ Deteriorated _____ Damaged _____ Adequate _____ Inadequate _____

8. For concrete or earth channel spillways, is the entrance or channel obstructed in any way? Yes _____ No X

If yes, describe (type of obstruction, location, etc.)/Corrective Action: _____

9. For earth channel spillways, how would you describe the vegetation in the spillway? (Check all that apply)

Recently Mowed _____ Overgrown _____ Good Cover _____ Sparse _____

Other (describe)/Corrective Action: N/A

10. For earth channel spillways, are there any trees or other inappropriate vegetation in the spillway? Yes _____ No X

If yes, describe (type of vegetation, size, location, etc.)/Corrective Action: Dead trees (trunks and other limbs) where observed bridging over the channel spillway and over the sides of the channel. Foreign debris should be removed.

11. For earth channel spillways, are there any eroded areas in the spillway? Yes _____ No X

If yes, describe (size of area, location, severity, etc.)/Corrective Action: N/A

12. For concrete channel spillways, are there any cracks or holes in the spillway? Yes X No _____

If yes, describe (width of crack or hole, location, etc.)/Corrective Action: Small cracks were observed on the sides and in steps throughout the spillway, but none were observed at or below the water line. Recommend continue to monitor.

13. For concrete channel spillways, are there any leaks or evidence of undermining (flow under the concrete)? Yes _____ No X

If yes, describe (location, rate of flow from leak, indicators of undermining, etc.)/Corrective Action: Generally, no evidence of leaks or undermining were observed. It is recommended that an inspection be conducted when water is not flowing through the spillway.

14. For earth or concrete channel spillways, how would you describe the overall condition of the spillway? (Check all that apply)

Functioning Normally X Not Functional _____ Deteriorated _____ Damaged _____ Adequate _____ Inadequate _____

15. Other observations on the spillways/Corrective Action: No other observations.
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F. Instrumentation (refer to Glossary for description)

1. Are there any toe drains at the downstream toe or any other seepage drains on the dam? Yes X No _____

If yes, describe the condition (for example, clogged, free flowing, deteriorated, good condition) /Corrective Action: The toe drain appeared in good condition and low flow was observed. 13 interceptor drains were located, and all had either minimal clear flow or no flow at all. Several interceptor drains appeared to be deteriorated such that replacement may be

Embankment (Earth) Dam Inspection Form (continued)

Name of Dam: Lake Petit Dam Date: 12 May 2020

warranted. The underdrain system of the dam outlets in the impact stilling basin, and the two drainpipes appeared to be flowing however they did have an accumulation of growth at their outlet, and this should be removed.

2. For drains, is an animal guard installed at the outlet of each drain? Yes _____ No X

If no, which drains lack animal guards? /Corrective Action: Animal guards were not observed on drain pipes, however, they do not appear necessary on the interceptor surface drains or underdrain outlet pipes, as these appear to continuously flow.

3. For drains, measure the rate of flow from each drain and record below (use additional pages if necessary):

Designation/Location of Drain	Flow Rate	Flow Rate in GPM*	Turbidity of Flow (describe – clear, muddy, etc.)
Interceptor Drains on Bench 1	Very low	<1 GPM	clear

4. Are there any piezometers on the dam? Yes X No _____

If yes, describe the condition (for example, good condition, damaged, etc.)/Corrective Action: The piezometers are generally in good condition but require the lid seals to be replaced to keep surface water out of monuments. Individual piezometers have caps to prevent water from intruding.

5. For piezometers, does each piezometer have a cap with a lock? Yes _____ No X

If no, which piezometers need caps (to prevent rain water intrusion) and/or locks (to prevent tampering)? /Corrective Action: Piezometers have caps, but no locks. They generally have monument covers with bolted lid to prevent tampering, however, some of the covers are missing a bolt.

6. For piezometers, are you able to take a measurement (depth to water) in each piezometer? Yes X No _____

If yes, record depth to water (in feet) in each piezometer, record on a separate page, and attach to this form.

7. Are there any other monitoring devices on the dam? Yes _____ No X

If yes, describe what type and the condition (for example, monitoring wells - good condition, damaged) /Corrective Action: _____

8. Other observations on instrumentation/Corrective Action: Dead trees (trunks and other limbs) where observed bridging over the channel spillway and over the sides of the channel. Foreign debris should be removed.

G. Photographs

At a minimum, photographs should be taken of the crest, upstream slope, downstream slope and any other notable features.

List of photographs (be sure to date stamp the photos): Photographs included in Appendix B in the inspection report.

*GPM (gallons per minute): to convert from oz/sec multiply by 0.4688; to convert from ml/sec multiply by 0.01585

PROJECT NAME: May 2020 Lake Petit Dam Visual Assessment

PROJECT NO.: TN7237

CLIENT: Big Canoe Property Owners Association

FILE NAME: May 2020 Dam Insp



Photograph 1: Upstream Face, May 2020 – localized areas of erosion and beaching along shoreline.



Photograph 2: Downstream Face, May 2020 – overview of downstream face in good condition

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Photograph 3: Spillway, May 2020 – general view of stepped spillway with moderate flow, and tree limbs and debris noted during inspection.



Photograph 4: Left Abutment, May 2020 – wet spot observed on the left side of the abutment (from approximately STA 1+95 to 2+05).

Embankment (Earth) Dam Inspection Form

Name of Dam: Lake Petit Dam Date: 21 July 2020

Location of Dam (County): Pickens County Weather: Partly Cloudy, 95 degrees F

Inspected by (Print Name): Max Cange, P.G.(TN), and Edisson Avila, E.I.

If an inspection item requires further action on your part, place a check mark to the left of the number of the item

A. Crest (refer to Glossary for description)

1. How would you describe the vegetation on the crest? (Check all that apply)
Recently Mowed X Overgrown _____ Good Cover X Sparse _____
Other/Corrective Action (describe): The crest of the dam is an asphalt paved road. Vegetation on either side of the road was observed to be well-maintained.
2. Are there any trees or other inappropriate or excessive vegetation on the crest? Yes _____ No X
If yes, describe (type of vegetation, size, location, etc.)/Corrective Action: _____
3. Is there a paved road or driveway on the crest? Yes X No _____
If yes, describe the condition (for example, good condition, numerous cracks, newly paved)/Corrective Action: Good condition. Paved in 2012.
4. Are there any depressions, ruts or holes on the crest? Yes _____ No X
If yes, describe (size, location, etc.)/Corrective Action: N/A
5. Are there any cracks on the crest? Yes X No _____
If yes, describe (length and width, location, direction of cracking, etc.)/Corrective Action: Yes, a hairline transverse crack across the asphalt road was observed near the left abutment and towards the center of the embankment. This appears to be routine pavement stress; however, this should continue to be monitored.
6. Other observations on the crest/Corrective Action: Some erosion at the left and right groins from foot traffic and surface runoff was observed. These areas should be re-established and seeded to prevent further erosion.

B. Upstream Slope (refer to Glossary for description)

1. What is the reservoir level today? At Normal Pool X Above Normal Pool _____ Feet Below Normal Pool _____ Feet
2. How would you describe the vegetation on the upstream slope? (Check all that apply)
Recently Mowed X Overgrown _____ Good Cover _____ Sparse _____
Other/Corrective Action (describe): This area is well-seeded and maintained short grass. A bare spot observed mid-way up the slope in 2013 was observed to have increased vegetation.
3. Are there any trees or other inappropriate or excessive vegetation on the slope? Yes _____ No X
If yes, describe (type of vegetation, size, location, etc.)/Corrective Action: _____
4. Are there any depressions, bulges, ruts or holes (such as animal burrows) on the slope? Yes _____ No X
If yes, describe (size, location, etc.)/Corrective Action: Good condition, previously reported soft areas were not observed. No evidence of new animal burrows. Continue to monitor the area for new animal burrows.
5. Are there any eroded areas on the slope (such as wave erosion along the shoreline)? Yes X No _____
If yes, describe (size of area, location, severity, etc.)/Corrective Action: Slight "beaching" observed/reported in 2008 continued to be observed. Conditions do not appear to have worsened. Some erosion on the left and right groins due to suspected animal and pedestrian use. Surficial erosion should be re-established and seeded to prevent further erosion.

Embankment (Earth) Dam Inspection Form (continued)

Name of Dam: Lake Petit Dam

Date: 21 July 2020

B. Upstream Slope (continued)

6. Are there any cracks, sloughs or slides (vertical cliffs) on the slope? Yes _____ No X
If yes, describe (length, width, height, location, etc.)/Corrective Action: _____
7. Is there any type of slope protection along the shoreline (such as riprap)? Yes X No _____
If yes, describe what type and its condition (for example, riprap - adequate, inadequate, sparse)/Corrective Action: Rip rap exists on the shoreline, but the filter layer behind rip rap appears to have been eroded and should be replaced to prevent further erosion.
8. Other observations on the upstream slope/Corrective Action: No other observations.

C. Downstream Slope (refer to Glossary for description)

1. How would you describe the vegetation on the downstream slope? (Check all that apply)
Recently Mowed _____ Overgrown X Good Cover _____ Sparse _____
Other/Corrective Action (describe): Grass observed overgrown throughout the downstream face of the dam (with the exceptions observed at the eroded areas along the left and right abutment). It is recommended that the overgrown vegetation be mowed at an increased frequency to prevent the establishment of unwanted vegetation and animal burrows.
2. Are there any trees or other inappropriate or excessive vegetation on the slope? Yes X No _____
If yes, describe (type of vegetation, size, location, etc.)/Corrective Action: Small sprouting trees were observed on the downstream face of the dam along the right and left abutments. Small sprouts of potentially deep-rooted vegetation observed in the left groin at bench no. 3 and should be removed to prevent unwanted vegetation.
3. Are there any depressions, bulges, ruts or holes (such as animal burrows) on the slope? Yes X No _____
If yes, describe (size, location, etc.)/Corrective Action: Several animal burrows and ant hills were observed throughout the downstream face. A minor depression was observed at bench no. 2 (upstream of an observed wet spot located on the slope between bench no.1 and 2, on the left abutment). The observed items should be backfilled accordingly.
4. Are there any eroded areas on the slope (such as along abutment contacts)? Yes X No _____
If yes, describe (size of area, location, severity, etc.)/Corrective Action: Minor surface erosion was observed generally at the right and left abutments at each bench, and scattered throughout the downstream slope. Surficial erosion should be re-established and seeded to prevent further erosion.
5. Are there any cracks, sloughs or slides (vertical cliffs) on the slope? Yes _____ No X
If yes, describe (length, width, height, location, etc.)/Corrective Action: _____
6. Are there any wet areas or areas of hydrophilic (lush, water-loving) vegetation? Yes X No _____
If yes, describe (size of area, location, etc.)/Corrective Action: Two wet areas were observed above bench no. 1: one wet area was observed near the left abutment, from approximately Station (STA) 1+60 to 1+70; and the second wet area was observed upslope of interceptor drain no. 7, from approximately STA -0+25 to -0+40. Both areas have been documented

Embankment (Earth) Dam Inspection Form (continued)

Name of Dam: Lake Petit Dam

Date: 21 July 2020

C. Downstream Slope (continued)

in previous quarterly inspections completed in 2020, however, the areas have been observed to decrease in size and saturation. Continue to monitor the wet areas for changes.

7. Do any wet areas indicate seepage through the dam (such as rust-colored, stained water)? Yes _____ No X N/A _____
If yes, describe (for example, new area of seepage, no change from past observations, size of area, location) /Corrective Action: _____

8. Are there any leaks (flowing water) from the slope or beyond the toe of the dam? Yes _____ No X
If yes, describe (location, rate of flow, turbidity of flow)/Corrective Action: _____

9. Other observations on the downstream slope/Corrective Action: The weirs on the left and right abutments were located. The weirs were observed to be clogged with sediment (silty sand) and vegetation/debris. Geosyntec unclogged both weirs, but the concrete channel around the weir should be cleaned out and monitored to prevent future clogs to the weirs.

D. Plunge Pool (refer to Glossary for description)

1. Is there any type of erosion protection around the plunge pool (such as riprap)? Yes _____ No X
If yes, describe what type and its condition (for example, riprap - adequate, inadequate, obstructed by vegetation) /Corrective Action: There is no plunge pool, but downstream from the impact-type stilling basin there does not appear to be riprap, however, based on current operations it does not appear to be needed.

2. Is there any erosion and or seeps around or going into the plunge pool? Yes _____ No X
If yes, describe (size of area, location, severity, etc.) /Corrective Action: A drainpipe right of the stilling basin observed to be discharging clear water. Previous signs of potential seepage have diminished, but this area should continue to be monitored.

3. Other observations around the plunge pool/Corrective Action: Vegetation observed to be overgrown around, above, and downstream of the stilling basin. It is recommended that the overgrown vegetation be removed to allow ease of dam visual inspections.

E. Principal and Emergency Spillways (refer to Glossary for description)

1. What types of spillways does the dam have (such as corrugated metal, concrete or siphon pipe; concrete or earth channel)?
Principal Spillway Gunnite, Stepped Spillway Emergency Spillway None, other than a low-level draw-off pipe.
Other/Corrective Action: _____

2. Has the emergency spillway activated (had flow) since the last inspection? Yes _____ No X
If yes describe (date(s) of flow, reason for activation, depth of flow) /Corrective Action: N/A

3. For pipe spillways, is the intake obstructed in any way (such as with excessive debris)? Yes _____ No _____
If yes, describe (type of debris, reason for obstruction, etc.) /Corrective Action: The intake for the low-level draw-off is not visible from the surface and could not be inspected. An inspection of this feature should be conducted

Embankment (Earth) Dam Inspection Form (continued)

Name of Dam: Lake Petit Dam

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E. Principal and Emergency Spillways (continued)

4. For pipe spillways, what is the condition of any trash racks (for example, adequate, inadequate, damaged)? /Corrective Action:
The intake for the low-level draw-off is not visible from the surface and could not be inspected. A plan should be put in place to inspect this underwater feature.
5. For pipe spillways, are there any visible cracks, separations or holes in the pipe(s) (intake or outlet)? Yes _____ No X
If yes, describe (location, width of crack or separation, etc.)/Corrective Action: _____
6. For pipe spillways, are there any apparent leaks in the pipe(s)? Yes _____ No X
If yes, describe (location, rate of flow from leak, etc.)/Corrective Action: The full pipe was unable to be inspected, however, a plan should be put in place to inspect the length of the pipe.
7. For pipe spillways, how would you describe the overall condition of the pipe(s)? (Check all that apply)
Functioning Normally X Not Functional _____ Deteriorated _____ Damaged _____ Adequate _____ Inadequate _____
8. For concrete or earth channel spillways, is the entrance or channel obstructed in any way? Yes _____ No X
If yes, describe (type of obstruction, location, etc.)/Corrective Action: _____
9. For earth channel spillways, how would you describe the vegetation in the spillway? (Check all that apply)
Recently Mowed _____ Overgrown _____ Good Cover _____ Sparse _____
Other (describe)/Corrective Action: N/A
10. For earth channel spillways, are there any trees or other inappropriate vegetation in the spillway? Yes _____ No _____
If yes, describe (type of vegetation, size, location, etc.)/Corrective Action: N/A
11. For earth channel spillways, are there any eroded areas in the spillway? Yes _____ No _____
If yes, describe (size of area, location, severity, etc.)/Corrective Action: N/A
12. For concrete channel spillways, are there any cracks or holes in the spillway? Yes X No _____
If yes, describe (width of crack or hole, location, etc.)/Corrective Action: Small cracks were observed on the sides and in steps throughout the spillway, but none were observed at or below the water line. Recommend continue to monitor.
13. For concrete channel spillways, are there any leaks or evidence of undermining (flow under the concrete)? Yes X No _____
If yes, describe (location, rate of flow from leak, indicators of undermining, etc.)/Corrective Action: On the left side of the concrete channel spillway, under the bridge located downstream of the left abutment, clear flowing water was observed behind the concrete lining and daylighting on the soil surface outside of the channel. The source of the flow of water is unknown. No apparent cracks or defects in the concrete lined channel were observed in the vicinity (i.e., upstream or downstream) of the flowing water. A conservative measurement of the flowing water velocity was determined to be at about 1 foot per second. The backfill material behind the sidewall of the concrete-lined channel has indications of erosion. The area should continue to be routinely monitored for any progression in the rate of flow or erosion of the backfill material, and the source of this flow be determined and mitigated. Post-inspection note: subsequent testing by Big Canoe of water flowing from this area indicated the water was likely not coming from the water treatment facility pipes nearby.

Embankment (Earth) Dam Inspection Form (continued)

Name of Dam: Lake Petit Dam Date: 21 July 2020

E. Principal and Emergency Spillways (continued)

14. For earth or concrete channel spillways, how would you describe the overall condition of the spillway? (Check all that apply)

Functioning Normally X Not Functional ___ Deteriorated ___ Damaged ___ Adequate ___ Inadequate ___

15. Other observations on the spillways/Corrective Action: Dead trees (trunks and other limbs) were observed bridging over the channel spillway and over the sides of the channel. Foreign debris should be removed and consideration given to cutting back some larger vegetation along the sides of the spillway channel to prevent falling debris from further damaging spillway.

F. Instrumentation (refer to Glossary for description)

1. Are there any toe drains at the downstream toe or any other seepage drains on the dam? Yes X No ___

If yes, describe the condition (for example, clogged, free flowing, deteriorated, good condition) /Corrective Action: The interceptor drains along bench no. 1 were cleaned out and labeled no.1 through 13. Interceptor drain no. 1 was observed to be clogged and dry. Interceptor drain no. 11 was located, however, the corrugated pipe for the drainage needs to be extended to reach the concrete channel to prevent erosion of the surrounding areas. Interceptor drain no. 12 had low clear flow; however, it is believed to be collapsed and it is recommended to be replaced. All interceptor drains, with the exception of the dry drain no. 1, were observed to have minimal clear flow.

2. For drains, is an animal guard installed at the outlet of each drain? Yes ___ No X

If no, which drains lack animal guards? /Corrective Action: Animal guards were not observed on interceptor drain pipes, however, they do not appear necessary on the interceptor surface drains or underdrain outlet pipes, as these appear to continuously flow.

3. For drains, measure the rate of flow from each drain and record below (use additional pages if necessary):

Designation/Location of Drain	Flow Rate	Flow Rate in GPM*	Turbidity of Flow (describe – clear, muddy, etc.)
Interceptor Drains on Bench No. 1	Very low	<1 GPM	clear

4. Are there any piezometers on the dam? Yes X No ___

If yes, describe the condition (for example, good condition, damaged, etc.)/Corrective Action: The piezometers are generally in good condition. Individual piezometers have caps to prevent water from intruding.

5. For piezometers, does each piezometer have a cap with a lock? Yes ___ No X

If no, which piezometers need caps (to prevent rain water intrusion) and/or locks (to prevent tampering)? /Corrective Action: Piezometers have caps, but no locks. They generally have monument covers with a bolted lid to prevent tampering, however, some of the covers are missing a bolt. Lid bolts and seals should be replaced at next inspection.

6. For piezometers, are you able to take a measurement (depth to water) in each piezometer? Yes X No ___

If yes, record depth to water (in feet) in each piezometer, record on a separate page, and attach to this form.

Embankment (Earth) Dam Inspection Form (continued)

Name of Dam: Lake Petit Dam Date: 21 July 2020

F. Instrumentation (continued)

7. Are there any other monitoring devices on the dam? Yes _____ No X _____

If yes, describe what type and the condition (for example, monitoring wells - good condition, damaged) /Corrective Action:

8. Other observations on instrumentation/Corrective Action: No other observations.

G. Photographs

At a minimum, photographs should be taken of the crest, upstream slope, downstream slope and any other notable features.

List of photographs (be sure to date stamp the photos): Photographs included in Appendix B in the inspection report.

**GPM (gallons per minute): to convert from oz/sec multiply by 0.4688; to convert from ml/sec multiply by 0.01585*

DRAFT

PROJECT NAME: July 2020 Lake Petit Dam Visual Assessment

PROJECT NO.: TN7237

CLIENT: Big Canoe Property Owners Association

FILE NAME: July 2020 Dam Insp



Photograph 1: Upstream Face, July 2020 – localized areas of erosion and beaching along shoreline.



Photograph 2: Downstream Face, June 2020 – overview of downstream face in good condition

PROJECT NAME: July 2020 Lake Petit Dam Visual Assessment

PROJECT NO.: TN7237

CLIENT: Big Canoe Property Owners Association

FILE NAME: July 2020 Dam Insp



Photograph 3: Spillway, July 2020 – general view of stepped spillway with moderate flow, and tree limbs and debris noted during inspection.



Photograph 4: Spillway, July 2020 – water flow observed behind the concrete lined channel.

TABLES

DRAFT

Table 2-1
Vibrating Wire Piezometer Data
Lake Petit Dam, Big Canoe, GA

Piezometer ID: P-2A							
Average Elevation (ft. MSL)		1623.8		Median Elevation (ft. MSL)		1623.2	
Low Elevation (ft. MSL)		1622.0 on 11/2/2007		Standard Deviation (ft.)		1.7	
Max Elevation (ft. MSL)		1635.8 on 8/2/2012					
Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)
2/6/2004	1623.0	1/19/2005	1623.8	6/16/2006	1622.7	3/17/2015	1626.5
2/13/2004	1623.1	2/4/2005	1623.5	6/23/2006	1622.7	6/15/2015	1626.9
2/15/2004	1623.3	2/15/2005	1623.4	6/30/2006	1622.6	9/2/2015	1627.0
2/20/2004	1623.2	2/25/2005	1623.4	7/17/2006	1622.7	10/21/2015	1626.0
2/27/2004	1623.3	3/4/2005	1623.6	7/24/2006	1622.6	3/2/2016	1627.3
3/12/2004	1623.4	3/11/2005	1623.8	8/10/2006	1622.5	4/4/2016	1627.3
3/19/2004	1623.4	3/18/2005	1623.8	8/17/2006	1622.4	5/20/2016	1627.3
3/27/2004	1623.3	3/24/2005	1623.8	9/7/2006	1622.4	6/23/2016	1625.8
3/30/2004	1623.3	4/1/2005	1623.9	9/18/2006	1622.3	12/1/2016	1624.8
4/7/2004	1623.1	4/4/2005	1624.0	10/4/2006	1622.2	6/28/2017	1626.3
4/16/2004	1622.9	4/19/2005	1624.2	10/13/2006	1622.2	1/26/2018	1626.4
4/22/2004	1622.9	4/29/2005	1623.1	10/19/2006	1622.2	12/14/2018	1626.4
4/30/2004	1622.8	5/6/2005	1623.7	11/10/2006	1622.3	4/3/2019	1627.3
5/7/2004	1622.7	5/13/2005	1623.6	11/17/2006	1622.3	7/15/2019	1626.1
5/13/2004	1622.7	5/19/2005	1623.5	11/23/2006	1622.3	3/9/2020	1627.0
5/21/2004	1622.7	5/27/2005	1623.4	11/29/2006	1622.2	5/12/2020	1626.9
6/2/2004	1622.7	6/14/2005	1623.1	12/12/2006	1622.7	6/17/2020	1626.7
6/18/2004	1622.6	6/22/2005	1623.2	12/20/2006	1622.7	7/21/2020	1626.0
6/29/2004	1622.7	7/18/2005	1623.3	1/3/2007	1623.0		
7/6/2004	1622.7	8/5/2005	1623.5	1/12/2007	1623.2		
7/22/2004	1623.0	8/19/2005	1623.3	5/15/2007	1622.4		
7/26/2004	1623.0	9/7/2005	1623.3	5/31/2007	1622.4		
8/6/2004	1623.0	9/28/2005	1623.1	6/29/2007	1622.4		
8/12/2004	1623.0	10/12/2005	1623.0	8/8/2007	1622.4		
8/16/2004	1622.9	10/21/2005	1622.9	9/11/2007	1622.4		
8/26/2004	1622.9	11/4/2005	1623.1	11/2/2007	1622.0		
9/3/2004	1622.9	11/17/2005	1622.8	12/14/2007	1623.2		
9/10/2004	1622.9	12/29/2005	1622.7	1/25/2008	1622.2		
9/27/2004	1623.1	1/27/2006	1623.0	3/4/2008	1622.5		
10/7/2004	1623.2	2/1/2006	1622.9	5/16/2008	1623.0		
10/15/2004	1623.2	2/10/2006	1622.8	5/22/2008	1623.0		
11/1/2004	1623.1	2/17/2006	1623.0	7/26/2011	1622.9		
11/11/2004	1623.1	2/21/2006	1623.4	5/8/2012	1624.8		
11/19/2004	1623.3	3/1/2006	1623.5	8/2/2012	1635.8		
11/23/2004	1623.4	3/9/2006	1623.5	11/8/2012	1625.9		
12/3/2004	1623.6	3/13/2006	1623.4	8/15/2013	1627.3		
12/17/2004	1624.1	4/7/2006	1623.3	8/20/2013	1627.3		
12/22/2004	1624.1	4/14/2006	1623.2	6/6/2014	1626.7		
12/30/2004	1624.0	4/21/2006	1623.1	9/5/2014	1626.1		
1/4/2005	1624.0	4/28/2006	1623.1	10/15/2014	1625.7		
1/13/2005	1623.9	5/8/2006	1623.1	1/27/2015	1626.3		

Table 2-1
Vibrating Wire Piezometer Data
Lake Petit Dam, Big Canoe, GA

Piezometer ID: P-4A							
Average Elevation (ft. MSL)		1586.9		Median Elevation (ft. MSL)		1586.7	
Low Elevation (ft. MSL)		1581.4 on 12/1/2016		Standard Deviation (ft.)		4.1	
Max Elevation (ft. MSL)		1621.5 on 6/22/2005					
Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)
2/6/2004	1586.5	1/19/2005	1589.4	6/16/2006	1584.7	3/17/2015	1588.6
2/13/2004	1587.0	2/4/2005	1588.3	6/23/2006	1584.6	6/15/2015	1587.2
2/15/2004	1588.2	2/15/2005	1587.9	6/30/2006	1584.4	9/2/2015	1585.0
2/20/2004	1587.6	2/25/2005	1588.5	7/17/2006	1583.9	10/21/2015	1586.0
2/27/2004	1588.1	3/4/2005	1589.8	7/24/2006	1583.9	3/2/2016	1592.3
3/12/2004	1588.5	3/11/2005	1589.9	8/10/2006	1583.2	4/4/2016	1589.1
3/19/2004	1588.5	3/18/2005	1589.9	8/17/2006	1583.1	5/20/2016	1586.5
3/27/2004	1588.4	3/24/2005	1589.9	9/7/2006	1583.0	6/23/2016	1585.1
3/30/2004	1588.0	4/1/2005	1591.6	9/18/2006	1582.3	12/1/2016	1581.4
4/7/2004	1587.4	4/4/2005	1592.5	10/4/2006	1582.3	6/28/2017	1591.1
4/16/2004	1587.2	4/19/2005	1591.5	10/13/2006	1581.9	1/26/2018	1587.0
4/22/2004	1587.0	4/29/2005	1590.2	10/19/2006	1581.8	12/14/2018	1591.0
4/30/2004	1587.0	5/6/2005	1589.9	11/10/2006	1581.7	4/3/2019	1591.7
5/7/2004	1586.8	5/13/2005	1589.4	11/17/2006	1581.7	7/15/2019	1586.6
5/13/2004	1586.7	5/19/2005	1588.9	11/23/2006	1581.8	3/9/2020	1594.4
5/21/2004	1586.6	5/27/2005	1589.1	11/29/2006	1581.9	5/12/2020	1590.3
6/2/2004	1586.2	6/14/2005	1587.3	12/12/2006	1582.9	6/17/2020	1588.2
6/18/2004	1585.8	6/22/2005	1621.5	12/20/2006	1583.2	7/21/2020	1586.6
6/29/2004	1585.6	7/18/2005	1589.6	1/3/2007	1583.7		
7/6/2004	1585.5	8/5/2005	1588.9	1/12/2007	1584.7		
7/22/2004	1586.6	8/19/2005	1588.0	5/15/2007	1585.0		
7/26/2004	1586.8	9/7/2005	1587.3	5/31/2007	1584.3		
8/6/2004	1586.5	9/28/2005	1586.2	6/29/2007	1583.6		
8/12/2004	1586.4	10/12/2005	1586.0	8/8/2007	1582.6		
8/16/2004	1586.4	10/21/2005	1585.1	9/11/2007	1582.2		
8/26/2004	1586.0	11/4/2005	1585.4	11/2/2007	1581.9		
9/3/2004	1588.2	11/17/2005	1584.5	12/14/2007	1581.5		
9/10/2004	1585.5	12/29/2005	1583.8	1/25/2008	1581.4		
9/27/2004	1586.9	1/27/2006	1584.7	3/4/2008	1581.7		
10/7/2004	1587.8	2/1/2006	1584.6	5/16/2008	1585.7		
10/15/2004	1587.2	2/10/2006	1584.8	5/22/2008	1585.6		
11/1/2004	1586.7	2/17/2006	1585.1	7/26/2011	1585.0		
11/11/2004	1587.0	2/21/2006	1586.7	5/8/2012	1587.1		
11/19/2004	1587.4	3/1/2006	1586.9	8/2/2012	1585.0		
11/23/2004	1587.6	3/9/2006	1586.9	11/8/2012	1582.8		
12/3/2004	1589.1	3/13/2006	1586.9	8/15/2013	1592.8		
12/17/2004	1591.2	4/7/2006	1586.7	8/20/2013	1592.6		
12/22/2004	1590.7	4/14/2006	1586.8	6/6/2014	1587.4		
12/30/2004	1590.7	4/21/2006	1586.6	9/5/2014	1584.7		
1/4/2005	1590.3	4/28/2006	1586.1	10/15/2014	1583.5		
1/13/2005	1589.5	5/8/2006	1585.8	1/27/2015	1587.6		

Table 2-1
Vibrating Wire Piezometer Data
Lake Petit Dam, Big Canoe, GA

Piezometer ID: P-6A							
Elevation (ft. MSL)		1556.3		Median Elevation (ft. MSL)		1556.6	
levation (ft. MSL)		1552.9 on 12/1/2019		Standard Deviation (ft.)		1.2	
levation (ft. MSL)		1558.4 on 6/15/2015					
Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)
2/6/2004	1557.4	1/13/2005	1557.6	4/28/2006	1556.1	9/5/2014	1554.2
2/13/2004	1557.6	1/19/2005	1558.2	5/8/2006	1556.1	10/15/2014	1554.7
2/15/2004	1557.6	2/4/2005	1557.8	6/16/2006	1555.1	1/27/2015	1555.4
2/20/2004	1557.4	2/15/2005	1557.6	6/23/2006	1555.3	3/17/2015	1555.6
2/27/2004	1557.4	2/25/2005	1557.8	6/30/2006	1555.5	6/15/2015	1555.0
3/12/2004	1557.5	3/4/2005	1557.8	7/17/2006	1555.1	9/2/2015	1554.0
3/19/2004	1557.4	3/11/2005	1557.6	7/24/2006	1555.2	10/21/2015	1554.8
3/27/2004	1557.4	3/18/2005	1557.8	8/10/2006	1555.0	3/2/2016	1556.6
3/30/2004	1557.2	3/24/2005	1557.9	8/17/2006	1555.1	4/4/2016	1555.7
4/7/2004	1556.8	4/1/2005	1558.3	9/7/2006	1555.1	5/20/2016	1554.6
4/16/2004	1557.2	4/4/2005	1558.4	9/18/2006	1554.8	6/23/2016	1553.4
4/22/2004	1556.8	4/19/2005	1558.0	10/4/2006	1554.8	12/1/2016	1552.9
4/30/2004	1557.0	4/29/2005	1557.8	10/13/2006	1554.6	6/28/2017	1555.6
5/7/2004	1557.0	5/6/2005	1557.9	10/19/2006	1555.3	1/26/2018	1555.0
5/13/2004	1557.0	5/13/2005	1557.5	11/10/2006	1555.3	12/14/2018	1556.0
5/21/2004	1557.0	5/19/2005	1557.2	11/17/2006	1555.2	4/3/2019	1556.1
6/2/2004	1556.7	5/27/2005	1557.1	11/23/2006	1555.2	7/15/2019	1554.3
6/18/2004	1556.9	6/14/2005	1557.5	11/29/2006	1555.1	3/9/2020	1557.0
6/29/2004	1557.0	6/22/2005	1557.1	12/12/2006	1555.9	5/12/2020	1555.6
7/6/2004	1557.0	7/18/2005	1557.8	12/20/2006	1555.8	6/17/2020	1554.9
7/22/2004	1556.6	8/5/2005	1557.2	1/3/2007	1556.5	7/21/2020	1554.0
7/26/2004	1556.7	8/19/2005	1557.2	1/12/2007	1556.9		
8/6/2004	1556.4	9/7/2005	1556.8	5/15/2007	1555.0		
8/12/2004	1556.3	9/28/2005	1556.3	5/31/2007	1554.5		
8/16/2004	1556.6	10/12/2005	1556.3	6/29/2007	1554.5		
8/26/2004	1556.6	10/21/2005	1555.8	8/8/2007	1554.5		
9/3/2004	1557.5	11/4/2005	1555.8	9/11/2007	1553.9		
9/10/2004	1556.9	11/17/2005	1556.1	11/2/2007	1553.9		
9/27/2004	1557.0	12/29/2005	1556.1	12/14/2007	1553.9		
10/7/2004	1557.4	1/27/2006	1557.0	1/25/2008	1555.1		
10/15/2004	1556.8	2/1/2006	1556.9	3/4/2008	1555.3		
11/1/2004	1557.0	2/10/2006	1556.9	5/16/2008	1555.8		
11/11/2004	1557.4	2/17/2006	1556.8	5/22/2008	1555.4		
11/19/2004	1557.4	2/21/2006	1556.8	7/26/2011	1554.4		
11/23/2004	1557.6	3/1/2006	1556.8	5/8/2012	1555.2		
12/3/2004	1557.7	3/9/2006	1556.5	8/2/2012	1554.3		
12/17/2004	1558.1	3/13/2006	1556.7	11/8/2012	1553.6		
12/22/2004	1557.9	4/7/2006	1556.4	8/15/2013	1556.7		
12/30/2004	1558.2	4/14/2006	1556.4	8/20/2013	1556.8		
1/4/2005	1558.0	4/21/2006	1556.3	6/6/2014	1555.2		

Table 2-1
Vibrating Wire Piezometer Data
Lake Petit Dam, Big Canoe, GA

Piezometer ID: P-7A							
Average Elevation (ft. MSL)		1536.7		Median Elevation (ft. MSL)		1536.7	
Low Elevation (ft. MSL)		1535.5 on 6/23/2016		Standard Deviation (ft.)		0.6	
Max Elevation (ft. MSL)		1537.9 on 8/15/2013					
Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)
2/6/2004	1536.9	1/13/2005	1537.3	4/28/2006	1536.3	9/5/2014	1535.8
2/13/2004	1537.2	1/19/2005	1537.5	5/8/2006	1536.3	10/15/2014	1536.3
2/15/2004	1537.2	2/4/2005	1537.5	6/16/2006	1535.8	1/27/2015	1536.1
2/20/2004	1537.1	2/15/2005	1537.3	6/23/2006	1535.7	3/17/2015	1536.1
2/27/2004	1536.7	2/25/2005	1537.7	6/30/2006	1536.6	6/15/2015	1536.3
3/12/2004	1536.9	3/4/2005	1537.4	7/17/2006	1536.5	9/2/2015	1536.3
3/19/2004	1536.6	3/11/2005	1537.2	7/24/2006	1536.4	10/21/2015	1536.2
3/27/2004	1536.7	3/18/2005	1537.3	8/10/2006	1536.3	3/2/2016	1536.5
3/30/2004	1536.5	3/24/2005	1537.3	8/17/2006	1536.5	4/4/2016	1536.0
4/7/2004	1536.3	4/1/2005	1537.5	9/7/2006	1536.6	5/20/2016	1535.9
4/16/2004	1536.6	4/4/2005	1537.7	9/18/2006	1536.6	6/23/2016	1535.5
4/22/2004	1536.5	4/19/2005	1537.3	10/4/2006	1536.6	12/1/2016	1535.9
4/30/2004	1536.7	4/29/2005	1537.2	10/13/2006	-	6/28/2017	1536.6
5/7/2004	1536.7	5/6/2005	1537.4	10/19/2006	1536.6	1/26/2018	1536.2
5/13/2004	1536.6	5/13/2005	1537.1	11/10/2006	1536.7	12/14/2018	1536.7
5/21/2004	1536.8	5/19/2005	1537.0	11/17/2006	1536.8	4/3/2019	1536.1
6/2/2004	1536.5	5/27/2005	1537.1	11/23/2006	1536.7	7/15/2019	1536.0
6/18/2004	1536.9	6/14/2005	1537.8	11/29/2006	1536.8	3/9/2020	1536.9
6/29/2004	1537.2	6/22/2005	1537.4	12/12/2006	1536.8	5/12/2020	1536.0
7/6/2004	1537.3	7/18/2005	1537.9	12/20/2006	1536.6	6/17/2020	1535.8
7/22/2004	1537.0	8/5/2005	1537.4	1/3/2007	1537.2	7/21/2020	1535.8
7/26/2004	1536.9	8/19/2005	1537.7	1/12/2007	1537.5		
8/6/2004	1536.9	9/7/2005	1537.5	5/15/2007	1535.6		
8/12/2004	1536.9	9/28/2005	1536.3	5/31/2007	1535.6		
8/16/2004	1537.1	10/12/2005	1536.8	6/29/2007	1536.2		
8/26/2004	1537.2	10/21/2005	1536.6	8/8/2007	1536.5		
9/3/2004	1537.0	11/4/2005	1536.6	9/11/2007	1535.9		
9/10/2004	1537.6	11/17/2005	1536.5	11/2/2007	1536.2		
9/27/2004	1537.4	12/29/2005	1536.7	12/14/2007	1536.0		
10/7/2004	1537.4	1/27/2006	1537.0	1/25/2008	1536.3		
10/15/2004	1537.2	2/1/2006	1536.9	3/4/2008	1536.4		
11/1/2004	1537.4	2/10/2006	1536.8	5/16/2008	1536.1		
11/11/2004	1537.6	2/17/2006	1536.7	5/22/2008	1536.3		
11/19/2004	1537.7	2/21/2006	1536.6	7/26/2011	1536.1		
11/23/2004	1537.7	3/1/2006	1536.6	5/8/2012	1535.6		
12/3/2004	1537.7	3/9/2006	1536.3	8/2/2012	1536.1		
12/17/2004	1537.7	3/13/2006	1536.4	11/8/2012	1535.9		
12/22/2004	1537.4	4/7/2006	1536.3	8/15/2013	-		
12/30/2004	1537.5	4/14/2006	1536.2	8/20/2013	1537.4		
1/4/2005	1537.5	4/21/2006	1536.2	6/6/2014	1536.4		

Table 2-1
Vibrating Wire Piezometer Data
Lake Petit Dam, Big Canoe, GA

Piezometer ID: P-2B							
Average Elevation (ft. MSL)		1609.8		Median Elevation (ft. MSL)		1609.4	
Low Elevation (ft. MSL)		1641.6 on 8/2/2012		Standard Deviation (ft.)		3.2	
Max Elevation (ft. MSL)		1641.6 on 8/8/2007					
Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)
2/6/2004	1609.3	1/19/2005	1610.5	6/16/2006	1608.9	3/17/2015	1612.6
2/13/2004	1609.4	2/4/2005	1610.1	6/23/2006	1609.2	6/15/2015	1612.7
2/15/2004	1609.6	2/15/2005	1609.9	6/30/2006	1608.8	9/2/2015	1612.1
2/20/2004	1609.5	2/25/2005	1609.9	7/17/2006	1608.8	10/21/2015	1612.3
2/27/2004	1609.4	3/4/2005	1609.9	7/24/2006	1608.7	3/2/2016	1613.6
3/12/2004	1609.6	3/11/2005	1609.9	8/10/2006	1608.4	4/4/2016	1613.2
3/19/2004	1609.6	3/18/2005	1609.9	8/17/2006	1608.3	5/20/2016	1612.4
3/27/2004	1609.7	3/24/2005	1610.0	9/7/2006	1608.2	6/23/2016	1612.1
3/30/2004	1609.7	4/1/2005	1610.1	9/18/2006	1608.1	12/1/2016	1602.2
4/7/2004	1609.6	4/4/2005	1610.2	10/4/2006	1607.7	6/28/2017	1612.3
4/16/2004	1609.4	4/19/2005	1610.7	10/13/2006	1607.5	1/26/2018	1611.4
4/22/2004	1609.5	4/29/2005	1610.6	10/19/2006	1607.5	12/14/2018	1611.6
4/30/2004	1609.4	5/6/2005	1610.5	11/10/2006	1607.6	4/3/2019	1607.1
5/7/2004	1609.4	5/13/2005	1610.4	11/17/2006	1607.7	7/15/2019	1611.0
5/13/2004	1609.4	5/19/2005	1610.3	11/23/2006	1607.7	3/9/2020	1613.2
5/21/2004	1609.4	5/27/2005	1610.3	11/29/2006	1607.6	5/12/2020	1611.9
6/2/2004	1609.2	6/14/2005	1609.8	12/12/2006	1608.1	6/17/2020	1611.4
6/18/2004	1609.1	6/22/2005	1609.7	12/20/2006	1608.1	7/21/2020	1610.9
6/29/2004	1609.1	7/18/2005	1609.8	1/3/2007	1608.3		
7/6/2004	1609.1	8/5/2005	1610.1	1/12/2007	1608.7		
7/22/2004	1609.1	8/19/2005	1610.1	5/15/2007	1608.9		
7/26/2004	1609.1	9/7/2005	1609.8	5/31/2007	1608.9		
8/6/2004	1609.1	9/28/2005	1609.7	6/29/2007	1608.9		
8/12/2004	1609.2	10/12/2005	1609.5	8/8/2007	1641.6		
8/16/2004	1609.2	10/21/2005	1609.4	9/11/2007	1608.3		
8/26/2004	1609.2	11/4/2005	1603.8	11/2/2007	1608.0		
9/3/2004	1609.6	11/17/2005	1609.2	12/14/2007	1608.7		
9/10/2004	1609.1	12/29/2005	1609.0	1/25/2008	1607.7		
9/27/2004	1609.4	1/27/2006	1608.8	3/4/2008	1608.0		
10/7/2004	1609.4	2/1/2006	1608.8	5/16/2008	1609.4		
10/15/2004	1609.5	2/10/2006	1609.0	5/22/2008	1609.4		
11/1/2004	1609.5	2/17/2006	1608.9	7/26/2011	1610.9		
11/11/2004	1609.6	2/21/2006	1609.0	5/8/2012	1612.0		
11/19/2004	1609.7	3/1/2006	1609.1	8/2/2012	1602.2		
11/23/2004	1609.7	3/9/2006	1609.2	11/8/2012	-		
12/3/2004	1609.8	3/13/2006	1609.2	8/15/2013	1613.8		
12/17/2004	1610.2	4/7/2006	1609.3	8/20/2013	1613.9		
12/22/2004	1610.3	4/14/2006	1609.1	6/6/2014	1612.7		
12/30/2004	1610.5	4/21/2006	1609.0	9/5/2014	1612.0		
1/4/2005	1610.6	4/28/2006	1603.4	10/15/2014	1611.8		
1/13/2005	1610.5	5/8/2006	1609.2	1/27/2015	1612.3		

Table 2-1
Vibrating Wire Piezometer Data
Lake Petit Dam, Big Canoe, GA

Piezometer ID: P-4B							
Average Elevation (ft. MSL)		1571.9		Median Elevation (ft. MSL)		1572.2	
Low Elevation (ft. MSL)		1553.5 on 6/22/2005		Standard Deviation (ft.)		3.0	
Max Elevation (ft. MSL)		1577.9 on 3/9/2020					
Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)
2/6/2004	1572.3	1/19/2005	1574.8	6/16/2006	1570.5	3/17/2015	1572.8
2/13/2004	1572.7	2/4/2005	1574.1	6/23/2006	1570.4	6/15/2015	1572.3
2/15/2004	1573.6	2/15/2005	1573.7	6/30/2006	1570.3	9/2/2015	1570.1
2/20/2004	1573.1	2/25/2005	1574.1	7/17/2006	1570.0	10/21/2015	1570.7
2/27/2004	1573.3	3/4/2005	1574.7	7/24/2006	1570.0	3/2/2016	1576.2
3/12/2004	1573.7	3/11/2005	1574.8	8/10/2006	1569.7	4/4/2016	1573.8
3/19/2004	1573.7	3/18/2005	1574.8	8/17/2006	1569.3	5/20/2016	1571.5
3/27/2004	1573.7	3/24/2005	1574.8	9/7/2006	1569.2	6/23/2016	1570.2
3/30/2004	1573.5	4/1/2005	1575.5	9/18/2006	1569.1	12/1/2016	1567.1
4/7/2004	1573.1	4/4/2005	1576.3	10/4/2006	1568.8	6/28/2017	1574.2
4/16/2004	1572.7	4/19/2005	1576.3	10/13/2006	1568.5	1/26/2018	1571.4
4/22/2004	1572.7	4/29/2005	1575.4	10/19/2006	1568.5	12/14/2018	1574.4
4/30/2004	1572.6	5/6/2005	1575.3	11/10/2006	1568.8	4/3/2019	1576.0
5/7/2004	1572.5	5/13/2005	1574.8	11/17/2006	1568.9	7/15/2019	1571.5
5/13/2004	1572.5	5/19/2005	1574.4	11/23/2006	1568.8	3/9/2020	1577.9
5/21/2004	1572.5	5/27/2005	1574.4	11/29/2006	1568.8	5/12/2020	1574.5
6/2/2004	1572.0	6/14/2005	1573.3	12/12/2006	1570.0	6/17/2020	1572.7
6/18/2004	1571.8	6/22/2005	1553.5	12/20/2006	1570.0	7/21/2020	1571.4
6/29/2004	1571.8	7/18/2005	1574.6	1/3/2007	1570.3		
7/6/2004	1572.0	8/5/2005	1574.2	1/12/2007	1567.0		
7/22/2004	1572.4	8/19/2005	1573.9	5/15/2007	1570.5		
7/26/2004	1572.4	9/7/2005	1573.1	5/31/2007	1570.2		
8/6/2004	1572.1	9/28/2005	1572.1	6/29/2007	1569.6		
8/12/2004	1572.0	10/12/2005	1571.5	8/8/2007	1568.9		
8/16/2004	1571.9	10/21/2005	1571.3	9/11/2007	1568.6		
8/26/2004	1571.7	11/4/2005	1571.6	11/2/2007	1568.0		
9/3/2004	1573.5	11/17/2005	1570.6	12/14/2007	1567.9		
9/10/2004	1571.4	12/29/2005	1570.3	1/25/2008	1568.3		
9/27/2004	1572.9	1/27/2006	1571.2	3/4/2008	1569.0		
10/7/2004	1573.5	2/1/2006	1571.2	5/16/2008	1571.4		
10/15/2004	1573.2	2/10/2006	1571.4	5/22/2008	1571.3		
11/1/2004	1572.8	2/17/2006	1571.4	7/26/2011	1570.4		
11/11/2004	1573.0	2/21/2006	1572.2	5/8/2012	1572.2		
11/19/2004	1573.3	3/1/2006	1572.0	8/2/2012	1570.4		
11/23/2004	1573.3	3/9/2006	1572.3	11/8/2012	1568.6		
12/3/2004	1574.0	3/13/2006	1572.3	8/15/2013	1555.2		
12/17/2004	1575.6	4/7/2006	1572.3	8/20/2013	1576.6		
12/22/2004	1575.5	4/14/2006	1572.1	6/6/2014	1572.4		
12/30/2004	1575.6	4/21/2006	1571.9	9/5/2014	1569.7		
1/4/2005	1575.5	4/28/2006	1571.7	10/15/2014	1569.0		
1/13/2005	1574.9	5/8/2006	1571.5	1/27/2015	1572.2		

Table 2-1
Vibrating Wire Piezometer Data
Lake Petit Dam, Big Canoe, GA

Piezometer ID: P-6B							
Average Elevation (ft. MSL)		1539.9		Median Elevation (ft. MSL)		1539.7	
Low Elevation (ft. MSL)		1536.9 on 10/19/2006		Standard Deviation (ft.)		2.9	
Max Elevation (ft. MSL)		1557.6 on 4/22/2004					
Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)
2/6/2004	1539.6	1/13/2005	1540.5	4/28/2006	1539.8	9/5/2014	1537.8
2/13/2004	1540.0	1/19/2005	1540.4	5/8/2006	1539.8	10/15/2014	1537.6
2/15/2004	1540.5	2/4/2005	1540.0	6/16/2006	1538.9	1/27/2015	1539.2
2/20/2004	1540.1	2/15/2005	1540.5	6/23/2006	1539.0	3/17/2015	1538.9
2/27/2004	1540.1	2/25/2005	1540.6	6/30/2006	1539.0	6/15/2015	1546.4
3/12/2004	1540.6	3/4/2005	1540.9	7/17/2006	1538.9	9/2/2015	1538.5
3/19/2004	1540.7	3/11/2005	1540.8	7/24/2006	1539.0	10/21/2015	1538.6
3/27/2004	1540.7	3/18/2005	1540.6	8/10/2006	1538.2	3/2/2016	1540.6
3/30/2004	1540.6	3/24/2005	1540.6	8/17/2006	1538.0	4/4/2016	1540.1
4/7/2004	1540.2	4/1/2005	1540.5	9/7/2006	1537.6	5/20/2016	1539.0
4/16/2004	1540.0	4/4/2005	1540.6	9/18/2006	1537.5	6/23/2016	1538.2
4/22/2004	1557.4	4/19/2005	1540.5	10/4/2006	1537.2	12/1/2016	1537.1
4/30/2004	1540.3	4/29/2005	1540.7	10/13/2006	1537.1	6/28/2017	1539.1
5/7/2004	1540.4	5/6/2005	1541.2	10/19/2006	1536.9	1/26/2018	1538.8
5/13/2004	1540.4	5/13/2005	1540.6	11/10/2006	1537.5	12/14/2018	1539.3
5/21/2004	1540.5	5/19/2005	1540.2	11/17/2006	1537.6	4/3/2019	1540.1
6/2/2004	1539.9	5/27/2005	1540.1	11/23/2006	1537.5	7/15/2019	1538.5
6/18/2004	1557.4	6/14/2005	1540.6	11/29/2006	1537.5	3/9/2020	1540.4
6/29/2004	1557.6	6/22/2005	1540.7	12/12/2006	1538.6	5/12/2020	1539.2
7/6/2004	1540.1	7/18/2005	1540.9	12/20/2006	1538.8	6/17/2020	1538.8
7/22/2004	1540.0	8/5/2005	1540.3	1/3/2007	1539.0	7/21/2020	1538.5
7/26/2004	1540.0	8/19/2005	1540.0	1/12/2007	1539.6		
8/6/2004	1539.7	9/7/2005	1540.1	5/15/2007	1538.7		
8/12/2004	1539.6	9/28/2005	1539.4	5/31/2007	1538.4		
8/16/2004	1539.6	10/12/2005	1539.0	6/29/2007	1538.1		
8/26/2004	1539.6	10/21/2005	1538.8	8/8/2007	1538.1		
9/3/2004	1540.4	11/4/2005	1538.8	9/11/2007	1537.2		
9/10/2004	1539.5	11/17/2005	1538.3	11/2/2007	1537.2		
9/27/2004	1540.1	12/29/2005	1537.8	12/14/2007	1537.3		
10/7/2004	1540.2	1/27/2006	1538.7	1/25/2008	1538.1		
10/15/2004	1540.1	2/1/2006	1538.8	3/4/2008	1540.7		
11/1/2004	1540.2	2/10/2006	1538.7	5/16/2008	1538.6		
11/11/2004	1540.4	2/17/2006	1538.8	5/22/2008	1538.4		
11/19/2004	1540.7	2/21/2006	1539.3	7/26/2011	1538.8		
11/23/2004	1540.6	3/1/2006	1539.5	5/8/2012	1538.7		
12/3/2004	1540.9	3/9/2006	1539.6	8/2/2012	1538.9		
12/17/2004	1541.0	3/13/2006	1539.6	11/8/2012	1537.6		
12/22/2004	1540.9	4/7/2006	1539.9	8/15/2013	1540.4		
12/30/2004	1541.0	4/14/2006	1539.9	8/20/2013	1540.3		
1/4/2005	1540.9	4/21/2006	1539.8	6/6/2014	1539.4		

Table 2-1
Vibrating Wire Piezometer Data
Lake Petit Dam, Big Canoe, GA

Piezometer ID: P-7B							
Average Elevation (ft. MSL)		1522.9		Median Elevation (ft. MSL)		1522.9	
Low Elevation (ft. MSL)		1521.7 on 10/15/2015		Standard Deviation (ft.)		0.7	
Max Elevation (ft. MSL)		1528.1 on 10/13/2006					
Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)
2/6/2004	1523.2	1/13/2005	1523.2	4/28/2006	1522.6	9/5/2014	1522.0
2/13/2004	1523.3	1/19/2005	1523.5	5/8/2006	1522.7	10/15/2014	1521.7
2/15/2004	1523.5	2/4/2005	1523.4	6/16/2006	1522.7	1/27/2015	1522.0
2/20/2004	1523.3	2/15/2005	1523.3	6/23/2006	1522.7	3/17/2015	1522.2
2/27/2004		2/25/2005	1523.3	6/30/2006	1522.7	6/15/2015	1522.2
3/12/2004	1523.5	3/4/2005	1523.3	7/17/2006	1522.6	9/2/2015	1522.0
3/19/2004	1523.6	3/11/2005	1523.1	7/24/2006	1522.5	10/21/2015	1522.2
3/27/2004	1523.7	3/18/2005	1523.2	8/10/2006	1522.4	3/2/2016	1522.8
3/30/2004	1523.2	3/24/2005	1523.2	8/17/2006	1522.6	4/4/2016	1522.4
4/7/2004	1523.1	4/1/2005	-	9/7/2006	1522.6	5/20/2016	1522.1
4/16/2004	1523.4	4/4/2005	1523.6	9/18/2006	1522.6	6/23/2016	1522.0
4/22/2004	1523.2	4/19/2005	1523.6	10/4/2006	1522.6	12/1/2016	1521.9
4/30/2004	1523.3	4/29/2005	1523.2	10/13/2006	-	6/28/2017	1528.1
5/7/2004	1523.3	5/6/2005	1523.2	10/19/2006	1522.4	1/26/2018	1522.6
5/13/2004	1523.3	5/13/2005	1523.2	11/10/2006	1522.5	12/14/2018	1522.7
5/21/2004	1523.2	5/19/2005	1523.0	11/17/2006	1522.6	4/3/2019	1522.8
6/2/2004	1523.1	5/27/2005	-	11/23/2006	1522.5	7/15/2019	1522.1
6/18/2004	1523.1	6/14/2005	1522.8	11/29/2006	-	3/9/2020	1523.7
6/29/2004	1523.2	6/22/2005	1523.0	12/12/2006	1523.0	5/12/2020	1522.7
7/6/2004	1523.2	7/18/2005	1523.2	12/20/2006	1522.8	6/17/2020	1522.3
7/22/2004	1523.1	8/5/2005	1523.1	1/3/2007	1523.0	7/21/2020	1522.1
7/26/2004	1523.1	8/19/2005	1523.0	1/12/2007	1523.3		
8/6/2004	1522.8	9/7/2005	1523.1	5/15/2007	1522.4		
8/12/2004	1522.8	9/28/2005	1522.8	5/31/2007	1522.1		
8/16/2004	1523.2	10/12/2005	1522.8	6/29/2007	1522.1		
8/26/2004	1523.1	10/21/2005	1522.6	8/8/2007	1522.4		
9/3/2004	1523.4	11/4/2005	1522.6	9/11/2007	1522.1		
9/10/2004	1523.1	11/17/2005	1522.9	11/2/2007	1522.1		
9/27/2004	1523.0	12/29/2005	1522.5	12/14/2007	1522.2		
10/7/2004	1523.4	1/27/2006	1523.2	1/25/2008	1522.5		
10/15/2004	1522.7	2/1/2006	1523.2	3/4/2008	1522.6		
11/1/2004	1523.1	2/10/2006	1523.0	5/16/2008	1522.3		
11/11/2004	1523.3	2/17/2006	1523.0	5/22/2008	1522.2		
11/19/2004	1523.2	2/21/2006	1522.9	7/26/2011	1521.9		
11/23/2004	1523.0	3/1/2006	1522.8	5/8/2012	1522.2		
12/3/2004	1523.3	3/9/2006	1522.7	8/2/2012	1522.0		
12/17/2004	1523.8	3/13/2006	1522.8	11/8/2012	1522.1		
12/22/2004	1523.7	4/7/2006	1522.7	8/15/2013	-		
12/30/2004	1523.8	4/14/2006	1522.6	8/20/2013	1523.0		
1/4/2005	1523.7	4/21/2006	1522.5	6/6/2014	1522.1		

Table 2-1
Vibrating Wire Piezometer Data
Lake Petit Dam, Big Canoe, GA

Piezometer ID: P-2C							
Average Elevation (ft. MSL)		1595.0		Median Elevation (ft. MSL)		1594.9	
Low Elevation (ft. MSL)		1590.7 on 5/16/2008		Standard Deviation (ft.)		1.7	
Max Elevation (ft. MSL)		1606.8 on 6/15/2015					
Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)
2/6/2004	1594.7	1/19/2005	1595.7	6/16/2006	1594.4	3/17/2015	1595.5
2/13/2004	1594.6	2/4/2005	1595.6	6/23/2006	1594.5	6/15/2015	1606.8
2/15/2004	1594.8	2/15/2005	1595.5	6/30/2006	1594.4	9/2/2015	1595.0
2/20/2004	1594.7	2/25/2005	1595.4	7/17/2006	1594.3	10/21/2015	1595.0
2/27/2004	1594.7	3/4/2005	1595.3	7/24/2006	1594.2	3/2/2016	1596.9
3/12/2004	1594.9	3/11/2005	1595.3	8/10/2006	1594.0	4/4/2016	1596.5
3/19/2004	1594.9	3/18/2005	1595.3	8/17/2006	1594.0	5/20/2016	1595.8
3/27/2004	1594.9	3/24/2005	1595.3	9/7/2006	1593.8	6/23/2016	1595.3
3/30/2004	1595.0	4/1/2005	1595.4	9/18/2006	1593.6	12/1/2016	1593.4
4/7/2004	1595.0	4/4/2005	1595.4	10/4/2006	1593.4	6/28/2017	1595.8
4/16/2004	1594.9	4/19/2005	1595.7	10/13/2006	1593.3	1/26/2018	1595.5
4/22/2004	1594.9	4/29/2005	1596.0	10/19/2006	1593.3	12/14/2018	1595.7
4/30/2004	1594.9	5/6/2005	1595.9	11/10/2006	1593.2	4/3/2019	1604.2
5/7/2004	1594.9	5/13/2005	1595.9	11/17/2006	1593.1	7/15/2019	1595.9
5/13/2004	1594.9	5/19/2005	1595.8	11/23/2006	1593.1	3/9/2020	1597.6
5/21/2004	1594.9	5/27/2005	1595.9	11/29/2006	1593.0	5/12/2020	1596.9
6/2/2004	1594.8	6/14/2005	1595.4	12/12/2006	1593.5	6/17/2020	1596.4
6/18/2004	1594.7	6/22/2005	1595.3	12/20/2006	1593.6	7/21/2020	1595.9
6/29/2004	1594.6	7/18/2005	1595.2	1/3/2007	1593.6		
7/6/2004	1594.5	8/5/2005	1595.4	1/12/2007	1593.8		
7/22/2004	1594.7	8/19/2005	1595.5	5/15/2007	1594.1		
7/26/2004	1594.7	9/7/2005	1595.4	5/31/2007	1594.1		
8/6/2004	1594.6	9/28/2005	1595.3	6/29/2007	1593.8		
8/12/2004	1594.8	10/12/2005	1595.1	8/8/2007	1593.8		
8/16/2004	1594.7	10/21/2005	1595.0	9/11/2007	1593.5		
8/26/2004	1594.6	11/4/2005	1595.1	11/2/2007	1593.1		
9/3/2004	1594.8	11/17/2005	1594.7	12/14/2007	1593.8		
9/10/2004	1594.6	12/29/2005	1594.6	1/25/2008	1592.9		
9/27/2004	1594.7	1/27/2006	1594.3	3/4/2008	1592.9		
10/7/2004	1594.8	2/1/2006	1594.3	5/16/2008	1590.7		
10/15/2004	1594.9	2/10/2006	1594.3	5/22/2008	1594.3		
11/1/2004	1595.0	2/17/2006	1594.2	7/26/2011	1594.8		
11/11/2004	1595.0	2/21/2006	1594.4	5/8/2012	1595.6		
11/19/2004	1595.1	3/1/2006	1594.5	8/2/2012	1595.1		
11/23/2004	1595.1	3/9/2006	1594.5	11/8/2012	1595.1		
12/3/2004	1595.2	3/13/2006	1594.5	8/15/2013	1596.9		
12/17/2004	1595.4	4/7/2006	1594.7	8/20/2013	1596.9		
12/22/2004	1595.5	4/14/2006	-	6/6/2014	1596.0		
12/30/2004	1595.6	4/21/2006	-	9/5/2014	1595.0		
1/4/2005	1595.7	4/28/2006	1601.2	10/15/2014	1594.7		
1/13/2005	1595.8	5/8/2006	1594.7	1/27/2015	1595.1		

Table 2-1
Vibrating Wire Piezometer Data
Lake Petit Dam, Big Canoe, GA

Piezometer ID: P-4C							
Average Elevation (ft. MSL)		1570.9		Median Elevation (ft. MSL)		1570.8	
Low Elevation (ft. MSL)		1558.3 on 6/22/2005		Standard Deviation (ft.)		3.5	
Max Elevation (ft. MSL)		1601.6 on 6/15/2015					
Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)
2/6/2004	1571.0	1/13/2005	1572.8	4/28/2006	1570.6	9/5/2014	1568.7
2/13/2004	1571.2	1/19/2005	1572.7	5/8/2006	1570.5	10/15/2014	1568.3
2/15/2004	1571.7	2/4/2005	1572.2	6/16/2006	1569.8	1/27/2015	1569.7
2/20/2004	1571.4	2/15/2005	1571.9	6/23/2006	1569.9	3/17/2015	1573.3
2/27/2004	1571.5	2/25/2005	1571.9	6/30/2006	1569.6	6/15/2015	1601.6
3/12/2004	1571.8	3/4/2005	1572.1	7/17/2006	1569.5	9/2/2015	1568.8
3/19/2004	1571.8	3/11/2005	1572.3	7/24/2006	1569.6	10/21/2015	1568.8
3/27/2004	1571.8	3/18/2005	1572.4	8/10/2006	1569.1	3/2/2016	1572.6
3/30/2004	1571.8	3/24/2005	1572.4	8/17/2006	1569.0	4/4/2016	1571.4
4/7/2004	1571.6	4/1/2005	1572.6	9/7/2006	1568.8	5/20/2016	1569.9
4/16/2004	1571.4	4/4/2005	1572.8	9/18/2006	1568.7	6/23/2016	1569.0
4/22/2004	1571.4	4/19/2005	1573.6	10/4/2006	1568.6	12/1/2016	1567.1
4/30/2004	1571.3	4/29/2005	1573.2	10/13/2006	1568.5	6/28/2017	1571.1
5/7/2004	1571.2	5/6/2005	1573.0	10/19/2006	1568.5	1/26/2018	1569.6
5/13/2004	1571.2	5/13/2005	1572.7	11/10/2006	1568.7	12/14/2018	1584.7
5/21/2004	1571.2	5/19/2005	1572.5	11/17/2006	1568.5	4/3/2019	1573.3
6/2/2004	1571.0	5/27/2005	1572.5	11/23/2006	1568.6	7/15/2019	1569.8
6/18/2004	1570.8	6/14/2005	1571.5	11/29/2006	1568.5	3/9/2020	1574.1
6/29/2004	1570.8	6/22/2005	1558.3	12/12/2006	1569.2	5/12/2020	1571.8
7/6/2004	1570.9	7/18/2005	1571.7	12/20/2006	1569.3	6/17/2020	1570.6
7/22/2004	1571.0	8/5/2005	1572.3	1/3/2007	1569.3	7/21/2020	1569.7
7/26/2004	1571.1	8/19/2005	1572.0	1/12/2007	1569.6		
8/6/2004	1571.0	9/7/2005	1571.6	5/15/2007	1569.7		
8/12/2004	1570.9	9/28/2005	-	5/31/2007	1569.4		
8/16/2004	1570.9	10/12/2005	1570.8	6/29/2007	1568.8		
8/26/2004	1570.8	10/21/2005	1570.5	8/8/2007	1568.8		
9/3/2004	1571.6	11/4/2005	1570.5	9/11/2007	1568.5		
9/10/2004	1570.6	11/17/2005	1570.1	11/2/2007	1568.2		
9/27/2004	1571.1	12/29/2005	1569.9	12/14/2007	1567.9		
10/7/2004	1571.5	1/27/2006	1570.0	1/25/2008	1567.9		
10/15/2004	1571.5	2/1/2006	1570.0	3/4/2008	1568.4		
11/1/2004	1571.4	2/10/2006	1570.2	5/16/2008	1569.9		
11/11/2004	1571.4	2/17/2006	1570.3	5/22/2008	1569.8		
11/19/2004	1571.6	2/21/2006	1570.5	7/26/2011	1569.1		
11/23/2004	1571.6	3/1/2006	1570.7	5/8/2012	1570.4		
12/3/2004	1571.9	3/9/2006	1570.7	8/2/2012	1569.3		
12/17/2004	1572.6	3/13/2006	1570.7	11/8/2012	1568.2		
12/22/2004	1572.9	4/7/2006	1570.8	8/15/2013	1561.0		
12/30/2004	1573.0	4/14/2006	1570.8	8/20/2013	1573.1		
1/4/2005	1573.1	4/21/2006	1570.6	6/6/2014	1570.5		

Table 2-1
Vibrating Wire Piezometer Data
Lake Petit Dam, Big Canoe, GA

Piezometer ID: P-6C							
Average Elevation (ft. MSL)		1554.9		Median Elevation (ft. MSL)		1555.5	
Low Elevation (ft. MSL)		1539.6 on 6/18/2004		Standard Deviation (ft.)		2.6	
Max Elevation (ft. MSL)		1559.8 on 10/13/2006					
Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)
2/6/2004	1556.2	1/13/2005	1556.6	4/28/2006	1555.2	9/5/2014	1553.2
2/13/2004	1556.5	1/19/2005	1556.9	5/8/2006	1555.0	10/15/2014	1553.6
2/15/2004	1556.6	2/4/2005	1556.8	6/16/2006	1554.0	1/27/2015	1554.5
2/20/2004	1556.4	2/15/2005	1556.5	6/23/2006	1554.0	3/17/2015	1554.7
2/27/2004	1556.4	2/25/2005	1556.8	6/30/2006	1554.4	6/15/2015	1554.0
3/12/2004	1556.4	3/4/2005	1556.8	7/17/2006	1554.0	9/2/2015	1553.1
3/19/2004	1556.2	3/11/2005	1556.7	7/24/2006	1554.1	10/21/2015	1553.8
3/27/2004	1556.4	3/18/2005	1556.8	8/10/2006	1553.3	3/2/2016	1555.7
3/30/2004	1556.1	3/24/2005	1556.8	8/17/2006	1553.6	4/4/2016	1554.8
4/7/2004	1555.7	4/1/2005	1559.8	9/7/2006	1553.6	5/20/2016	1553.6
4/16/2004	1556.1	4/4/2005	1557.4	9/18/2006	1553.7	6/23/2016	1552.5
4/22/2004	1540.0	4/19/2005	1557.0	10/4/2006	1553.6	12/1/2016	1551.9
4/30/2004	1556.0	4/29/2005	1556.8	10/13/2006	-	6/28/2017	1554.7
5/7/2004	1555.9	5/6/2005	1556.9	10/19/2006	1554.0	1/26/2018	1554.0
5/13/2004	1555.9	5/13/2005	1556.4	11/10/2006	1554.0	12/14/2018	1555.1
5/21/2004	1555.9	5/19/2005	1556.2	11/17/2006	1554.1	4/3/2019	1555.2
6/2/2004	1555.6	5/27/2005	1556.1	11/23/2006	1554.1	7/15/2019	1553.3
6/18/2004	1539.6	6/14/2005	1556.4	11/29/2006	1554.2	3/9/2020	1556.1
6/29/2004	1539.7	6/22/2005	1556.0	12/12/2006	1554.7	5/12/2020	1554.7
7/6/2004	1556.0	7/18/2005	1556.8	12/20/2006	1554.5	6/17/2020	1554.0
7/22/2004	1555.5	8/5/2005	1556.1	1/3/2007	1555.3	7/21/2020	1553.0
7/26/2004	1555.6	8/19/2005	1556.1	1/12/2007	1555.7		
8/6/2004	1555.3	9/7/2005	1555.7	5/15/2007	1553.8		
8/12/2004	1555.1	9/28/2005	1555.2	5/31/2007	1553.3		
8/16/2004	1555.5	10/12/2005	1555.1	6/29/2007	1553.3		
8/26/2004	1555.5	10/21/2005	1554.7	8/8/2007	1553.5		
9/3/2004	1556.5	11/4/2005	1554.7	9/11/2007	1553.0		
9/10/2004	1555.7	11/17/2005	1554.9	11/2/2007	1552.8		
9/27/2004	1555.9	12/29/2005	1554.9	12/14/2007	1553.0		
10/7/2004	1556.2	1/27/2006	1555.9	1/25/2008	1553.8		
10/15/2004	1555.7	2/1/2006	1556.0	3/4/2008	1554.1		
11/1/2004	1555.9	2/10/2006	1555.9	5/16/2008	1554.7		
11/11/2004	1556.2	2/17/2006	1555.8	5/22/2008	1554.3		
11/19/2004	1556.3	2/21/2006	1555.7	7/26/2011	1553.3		
11/23/2004	1556.4	3/1/2006	1555.7	5/8/2012	1554.2		
12/3/2004	1556.6	3/9/2006	1555.5	8/2/2012	1553.3		
12/17/2004	1557.1	3/13/2006	1555.6	11/8/2012	1552.6		
12/22/2004	1556.9	4/7/2006	1555.3	8/15/2013	1555.9		
12/30/2004	1557.1	4/14/2006	1555.3	8/20/2013	1556.0		
1/4/2005	1557.0	4/21/2006	1555.3	6/6/2014	1554.3		

Table 2-1
Vibrating Wire Piezometer Data
Lake Petit Dam, Big Canoe, GA

Piezometer ID: P-7C							
Average Elevation (ft. MSL)		1527.9		Median Elevation (ft. MSL)		1527.9	
Low Elevation (ft. MSL)		1526.5 on 6/23/2016		Standard Deviation (ft.)		0.6	
Max Elevation (ft. MSL)		1530.5 on 10/13/2006					
Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)	Date of reading	Water Elevation (ft. MSL)
2/6/2004	1528.4	1/19/2005	1528.6	6/16/2006	1527.1	3/17/2015	1527.5
2/13/2004	1528.6	2/4/2005	1528.6	6/23/2006	1527.1	6/15/2015	1527.3
2/15/2004	1528.2	2/15/2005	1528.6	6/30/2006	1527.5	9/2/2015	1527.2
2/20/2004	1528.7	2/25/2005	1528.8	7/17/2006	1527.7	10/21/2015	1527.4
2/27/2004	1527.7	3/4/2005	1528.8	7/24/2006	1527.8	3/2/2016	1529.0
3/12/2004	1528.2	3/11/2005	1528.8	8/10/2006	1527.4	4/4/2016	1527.3
3/19/2004	1528.2	3/18/2005	1528.8	8/17/2006	1527.5	5/20/2016	1527.1
3/27/2004	1528.2	3/24/2005	1528.9	9/7/2006	1527.7	6/23/2016	1526.5
3/30/2004	1528.1	4/1/2005	1530.5	9/18/2006	1527.6	12/1/2016	1527.0
4/7/2004	1528.0	4/4/2005	1527.9	10/4/2006	1527.7	6/28/2017	1527.4
4/16/2004	1528.0	4/19/2005	1528.3	10/13/2006	-	1/26/2018	1527.6
4/22/2004	1527.6	4/29/2005	1528.1	10/19/2006	1527.5	12/14/2018	1527.8
4/30/2004	1527.8	5/6/2005	1528.2	11/10/2006	1527.7	4/3/2019	1528.0
5/7/2004	1528.0	5/13/2005	1528.2	11/17/2006	1527.8	7/15/2019	1527.3
5/13/2004	1528.0	5/19/2005	1528.1	11/23/2006	1527.8	3/9/2020	1528.4
5/21/2004	1528.2	5/27/2005	1528.0	11/29/2006	1527.7	5/12/2020	1527.8
6/2/2004	1527.4	6/14/2005	1528.5	12/12/2006	1528.0	6/17/2020	1527.7
6/18/2004	1528.0	6/22/2005	1528.6	12/20/2006	1527.9	7/21/2020	1526.9
6/29/2004	1528.3	7/18/2005	1528.6	1/3/2007	1528.0		
7/6/2004	1528.5	8/5/2005	1528.0	1/12/2007	1528.3		
7/22/2004	1527.6	8/19/2005	1528.5	5/15/2007	1526.6		
7/26/2004	1527.7	9/7/2005	1528.1	5/31/2007	1526.9		
8/6/2004	1527.8	9/28/2005	1527.5	6/29/2007	1527.4		
8/12/2004	1527.9	10/12/2005	1527.9	8/8/2007	1527.2		
8/16/2004	1528.0	10/21/2005	1528.1	9/11/2007	1527.2		
8/26/2004	1528.2	11/4/2005	1528.2	11/2/2007	1527.4		
9/3/2004	1528.0	11/17/2005	1527.8	12/14/2007	1527.2		
9/10/2004	1527.9	12/29/2005	1527.7	1/25/2008	1527.3		
9/27/2004	1528.4	1/27/2006	1528.0	3/4/2008	1527.1		
10/7/2004	1527.8	2/1/2005	1528.0	5/16/2008	1527.4		
10/15/2004	1527.9	2/10/2006	1527.9	5/22/2008	1527.4		
11/1/2004	1528.2	2/17/2006	1527.8	7/26/2011	1527.0		
11/11/2004	1528.0	2/21/2006	1528.0	5/8/2012	1527.0		
11/19/2004	1528.3	3/1/2006	1528.1	8/2/2012	1527.4		
11/23/2004	1528.3	3/9/2006	1528.1	11/8/2012	1527.0		
12/3/2004	1528.5	3/13/2006	1528.0	8/15/2013	-		
12/17/2004	1528.3	4/7/2006	1527.9	8/20/2013	1528.2		
12/22/2004	1528.3	4/14/2006	1527.9	6/6/2014	1527.3		
12/30/2004	1528.5	4/21/2006	1527.8	9/5/2014	1527.1		
1/4/2005	1528.6	4/28/2006	1527.5	10/15/2014	1527.1		
1/13/2005	1528.5	5/8/2006	1527.4	1/27/2015	1527.2		

FIGURES

DRAFT

**Table 2-2
Standpipe Piezometer Water Elevation Data**

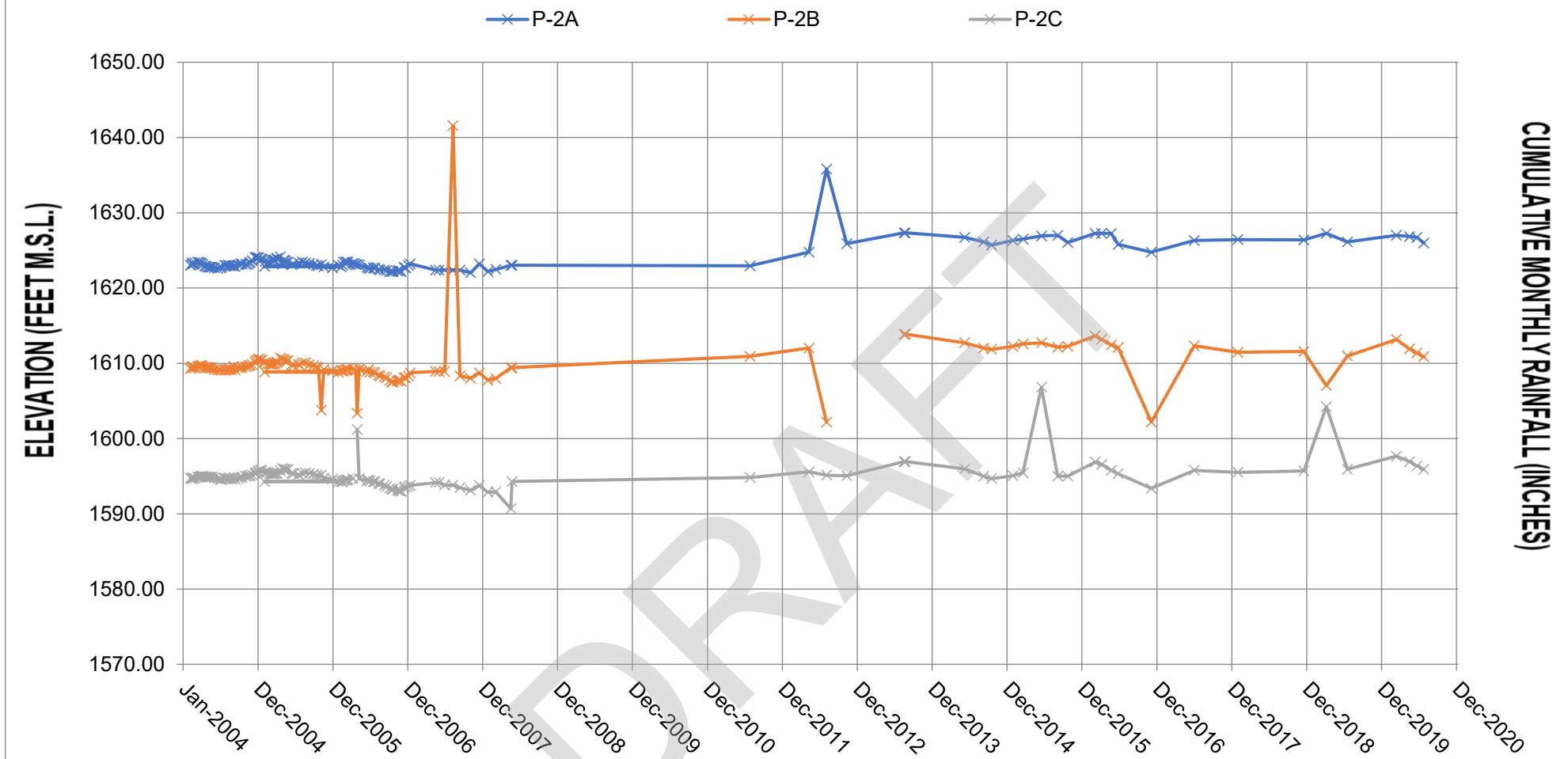
	22-Oct-98	23-Oct-98	26-Oct-98	29-Oct-98	3-Jan-07	19-Jan-07	22-May-08	20-Aug-13	15-Nov-14	20-Oct-15
Water Elevation (ft MSL)										
G-1A Shallow	1593.68	1593.43	1593.42	1593.67	1592.84	1592.84	1593.73	1599.59	1594.43	1594.00
G-1A Deep	1577.07	1576.93	1576.51	1576.92	1575.59	1575.59	1577.81	1581.31	1576.46	1576.46
G-1B	1580.87	1583.84	1583.85	1583.89	1583.44	1583.44	1583.98	-- ^a	1582.85	1583.07
G-2 Shallow	1566.23	1566.12	1566.06	1566.07	1566.70	1569.25	1567.50	1571.20	1565.52	1567.79
G-2 Intermediate	1588.90	1558.68	1558.81	1559.00	1534.17 *	1553.65	1557.40	1560.36	1555.68	1556.79
G-2 Deep	1553.41	1553.71	1553.52	1553.75	1518.64 *	1554.00	1553.77	1554.46	1552.96	1553.27
G-3	1531.94	1531.93	1531.92	1531.95	N/A	1533.82	1533.64	1535.49	1533.04	1533.08
	23-Jun-16	26-Jan-18	9-Mar-20	12-May-20	17-Jun-20	21-Jul-20				
Water Elevation (ft MSL)										
G-1A Shallow	1595.86	1596.72	1601.9	1600.11	1598.68	1597.45				
G-1A Deep	1577.1	1577.45	1582.08	1580.99	1579.61	1578.44				
G-1B	1582.85	1582.93	1586.32	1586.41	1585.61	1584.93				
G-2 Shallow	1566.51	1567.78	1575.95	1571.95	1569.88	1568.22				
G-2 Intermediate	1556.22	1558.56	1562.62	1561.28	1559.33	1559.53				
G-2 Deep	1553.09	1552.99	1555.39	1553.82	1553.82	1552.89				
G-3	1533.24	1533.48	1536.84	1534.77	1534.77	1533.44				

Note:

* water levels noted as anomolous on 3 Jan 2007. Re-measured 19 Jan 2007, and levels more consistent with previous readings.

a - No measurment in standpipe G-1B on 20 August 2013. Unable to locate due to overgrown grass.

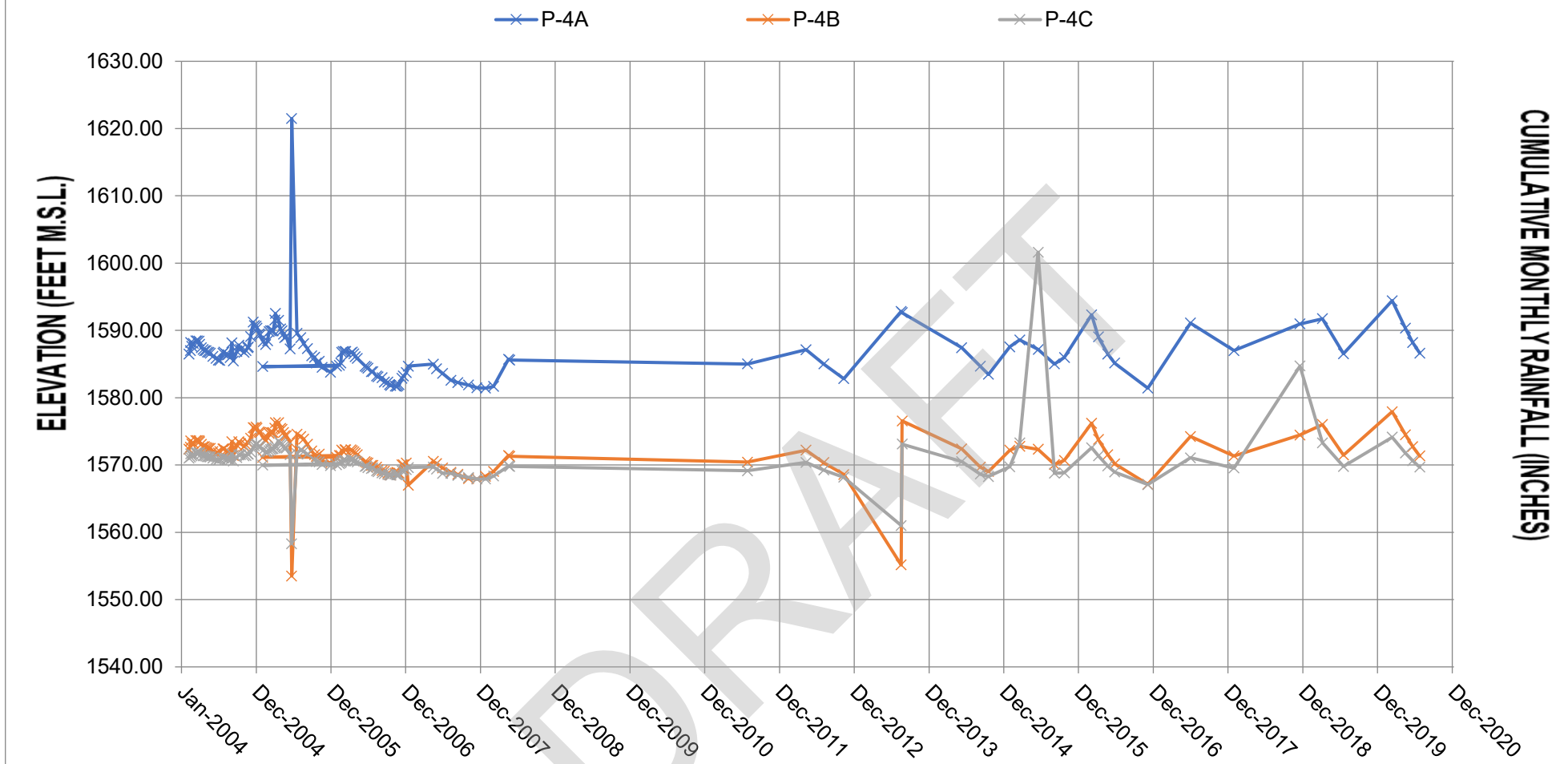
Vibrating Wire Piezometer Water Elevations



Note: Historical data anomalies generally appear to be the result of transcription errors.

**Figure 2-2. Summary of Vibrating Wire Piezometer Data, P-2A, B, C
(Feb 2004 through July 2020) - Lake Petit Dam, Big Canoe, GA**

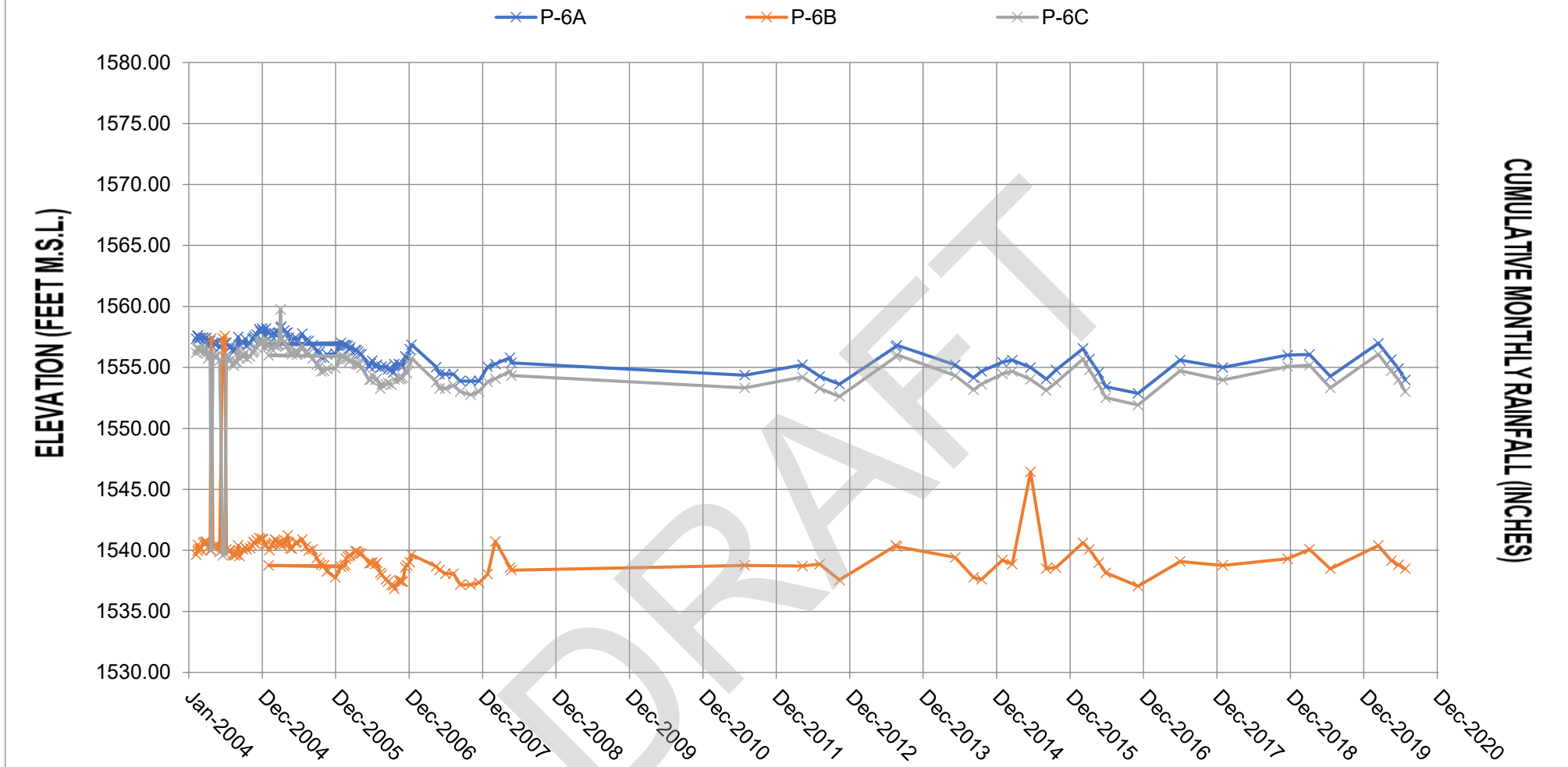
Vibrating Wire Piezometer Water Elevations



Note: Historical data anomalies generally appear to be the result of transcription errors.

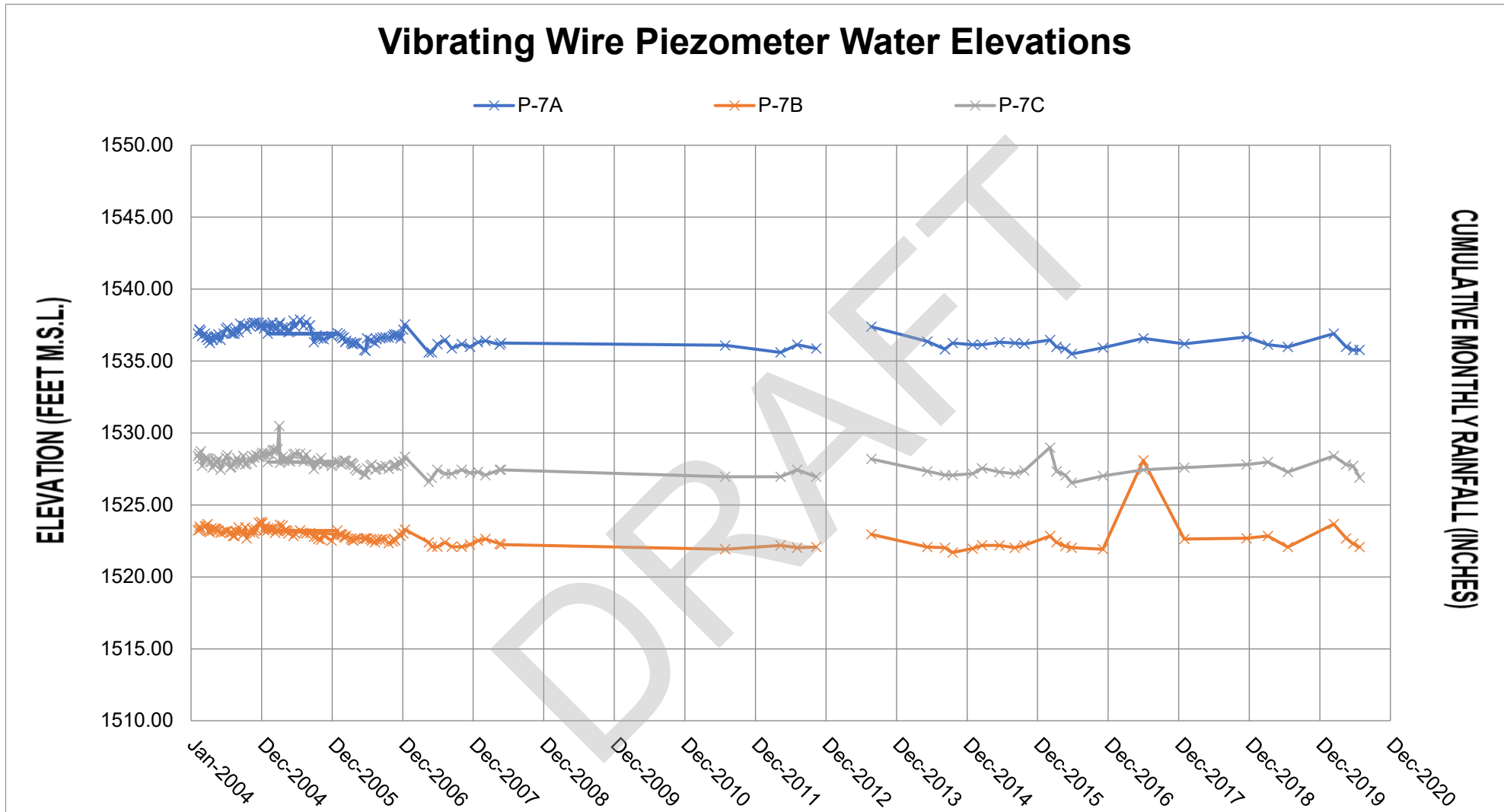
**Figure 2-3. Summary of Vibrating Wire Piezometer Data, P-4A, B, C
(Feb 2004 through July 2020) - Lake Petit Dam, Big Canoe, GA**

Vibrating Wire Piezometer Water Elevations



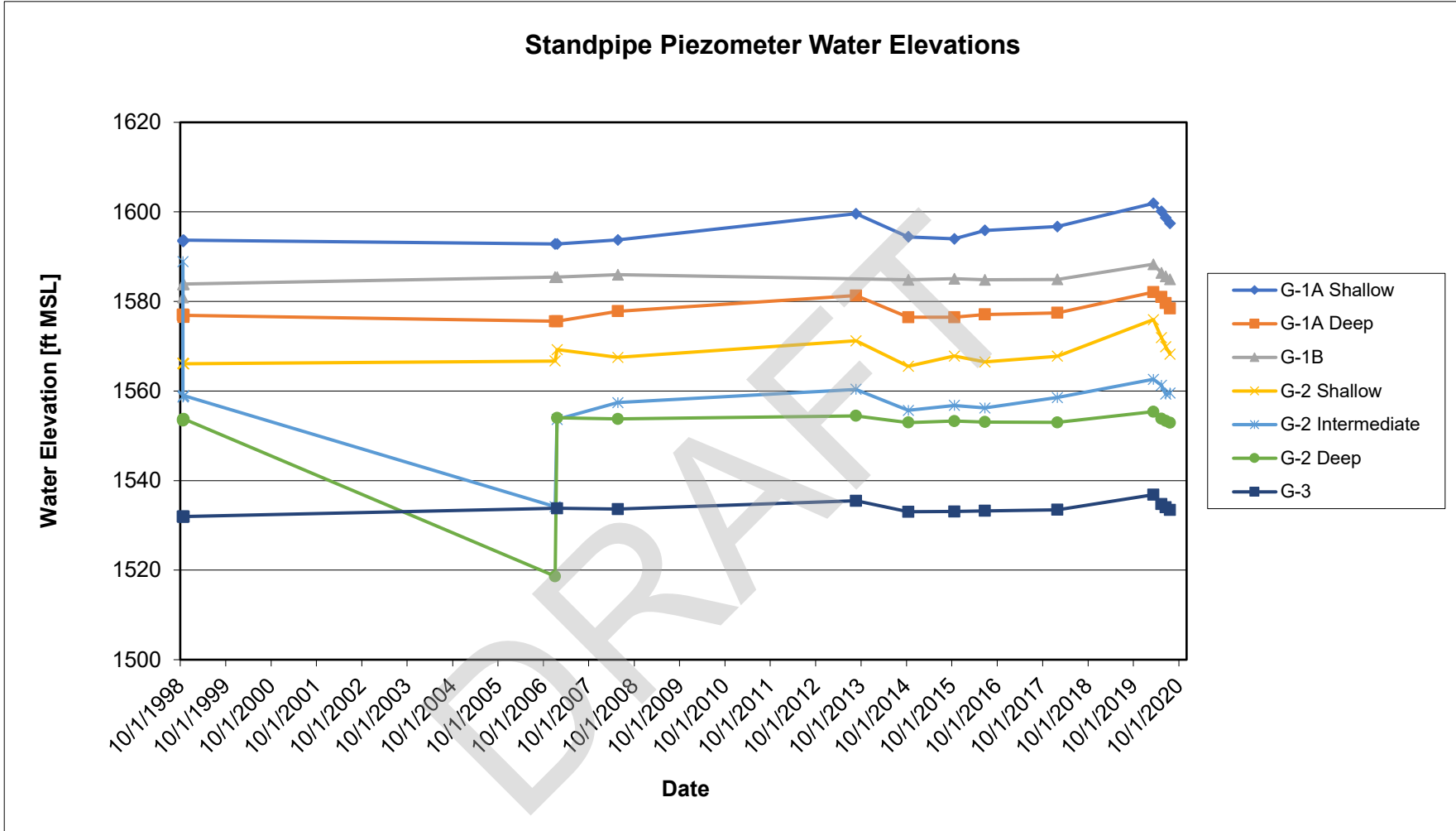
Note: Historical data anomalies generally appear to be the result of transcription errors.

**Figure 2-4. Summary of Vibrating Wire Piezometer Data, P-6A, B, C
(Feb 2004 through July 2020) - Lake Petit Dam, Big Canoe, GA**



Note: Historical data anomalies generally appear to be the result of transcription errors.

**Figure 2-5. Summary of Vibrating Wire Piezometer Data, P-7A, B, C
(Feb 2004 through July 2020) - Lake Petit Dam, Big Canoe, GA**



Note: G-2 Shallow water levels noted as anomolous on 3 Jan 2007. Re-measured 19 Jan 2007, and levels more consistent with previous readings.

**Figure 2-6. Summary of Standpipe Piezometer Data
(Oct 1998 through July 2020) - Lake Petit Dam, Big Canoe, GA.**