TEXAS ELECTRIC COOPERATIVES – TREATING DIVISION
CLASS 3 PERMIT MODIFICATION

TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS FACILITY
IHW Permit HW-50345
SWR 31340

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Volume 2

Prepared for:
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APPENDIX XI

COMPLIANCE PLAN NARRATIVE RESPONSE

A. Site Specific Information

1. General Site Information (provide the following information):

a. An overall plan view map of the entire facility delineating the facility's property boundary, Facility Operations Area (FOA) boundaries, as applicable, and the plume management zone (PMZ) boundaries as applicable;
No changes have been made to CP Attachment A Sheet 1 of 4 as a result of this Class 3 Modification application.

b. A 7.5 minute U.S.G.S. quadrangle topographic map showing the entire facility;

NOTE: This information is supplemental only and is not intended to be included as figures in the final draft permit. **See Appendix B.XI.A.1 Figure 1.**

c. All oversized (larger than 8.5" by 11") drawings submitted in accordance with a and b, above, should be accompanied with legible photocopies of the reduced drawing on 8.5" by 11" sheet(s) of paper which shall be used as "CP Attachment A" maps in the final draft Permit/Compliance Plan. The applicant should title the map(s) accordingly as "CP Attachment A, Sheet 1 of xx – Facility Site Map"; "CP Attachment A, Sheet xx of xx, FOA Lateral Boundary Map"; "CP Attachment A, Sheet xx of xx, PMZ Boundary Location Map"; and

d. Aerial photographs through time depicting changes in the land use, if available. NOTE: This information is supplemental only and is not intended to be included as figures in the final draft permit.

See Appendix B.XI.A.1 Historical Aerials (1952 and 1976).

2. Waste Management

Provide a complete list and a plan view drawing(s) locating and identifying the following waste management units at the scale of 2.5 centimeters (1 inch) equal to not more than 61.0 meters (200 feet). All oversized (larger than 8.5" by 11") drawings should be accompanied with legible photocopies of the reduced drawing on 8.5" by 11" sheet(s) of paper. Please provide information for each waste management unit listed below on Table XI.A.1. – Facility History for Waste Management Units. **See Appendix B.XI.A.2-1 Figure 1 and Table XI.A.1.**

a. All hazardous waste management units regulated under the Industrial Solid Waste and Municipal Hazardous Waste Rules (Chapter 335) required to be monitored in accordance with 30 TAC 335.164 (Detection Monitoring), 335.165 (Compliance Monitoring Program) and 335.166 (Corrective Action Program);

WMA II and WMA III were formerly required to be monitored in accordance with 30 TAC 335.164 (Detection Monitoring) and the Class 3 Permit Modification application is requesting their removal from the detection monitoring program as approved by TCEQ in their 31 October 2024 email response to the Detection Monitoring Exit Justification Report dated 29 May 2024. The Detection Monitoring Exit Justification Report is included in Appendix XI.A.2-2. Although WMA II and WMA III are no longer

required to be monitored, post-closure care of the caps is still conducted; therefore, they are shown on Figure 1 in Appendix XI.A.2-2.

WMA I is under 335.166 (Corrective Action Program) and is shown on Figure 1 in Appendix XI.A.2-1.

b. All solid waste management units (SWMUs) and Areas of Concern (AOCs) regulated under 335.167 which are recommended for further investigation and/or corrective action in the RCRA Facility Assessment (RFA) shall include those identified in accordance with the permit requirements subsequent to the initial RFA.

The only SWMU or AOC recommended for either further investigation and/or corrective action is SWMU 5 (Pond B) which has been recommended for further investigation.

SWMU 15, SWMU 16, AOC 1, AOC 3, AOC 5, and AOC 6 had also been recommended for further investigation in the 1987 USEPA Region 6 Sampling Visit Report and related documents. AOC 7 was recommended for an RFI based on an RFA submitted to TCEQ by TEC in June 2021. NFAs have been granted by TCEQ for AOC 1 (January 2000) and AOC 3 (May 2021). NFAs have been requested by TEC for the remaining units through submittal of the Revised RFI Report/APAR for these units submitted to TCEQ on 6 September 2024.

c. All on site wastewater treatment units.

Onsite wastewater treatment units were formerly associated with RN101898948 and are now associated with SWR 98534 (Stella Jones, RN 111772281). These are not RCRA permitted units. The wastewater treatment area in which the units are located is shown on Appendix XI.A.2 Figure 1 with an explanatory note.

3. Facility History

Based on the information provided in Table XI.A.1., complete CP Table I – Waste Management Units and Areas Subject to Groundwater Corrective Action and Compliance Monitoring accordingly in the format provided. **No changes to CP Table I are proposed for this Class 3 Modification application.**

For the SWMUs or AOCs listed in Table XI.A.1. regulated under 30 TAC 335.167 which are recommended for further investigation and/or corrective action in the RCRA Facility Assessment (RFA), including those identified in accordance with permit requirements subsequent to the initial RFA, complete CP Table II – Solid Waste Management Units and Areas of Concern for which Corrective Action applies pursuant to 30 TAC 335.167. CP Table II will become part of the Compliance Plan. **CP Table II has been revised and is included in XI CP Tables.**

4. Site Geology, Hydrogeologic Conditions, and Relationship to Surface Water

Not required for this Class 3 Modification.

B. Hazardous Constituents In Groundwater And Groundwater Protection Standards (GWPSs)

Hazardous Constituents in Groundwater

For each contaminated hydrogeologic unit beneath a waste management unit/area (40 CFR 264.95), provide a list of all 40 CFR Part 264 Appendix IX hazardous constituents that have been detected in groundwater samples above background values, Practical Quantitation Limits (PQLs), or Method Quantitation Limits (MQLs). **A summary of the analytical data from 1989 is provided in Appendix XI.B-1.**

Please submit for each unit/area the most recent Appendix IX laboratory analysis results showing the constituents, constituent concentrations, methods used for analysis and associated laboratory QA/QC. **See Appendix XI.B-1**

The groundwater samples (collected for the purpose of determining whether constituents listed in Appendix IX are present) shall be from each waste management unit/area monitoring well system as required by 30 Texas Administrative Code (TAC) 335.164 (detection monitoring program).

If the waste management unit/area is subject to Corrective Action Program required by 30 TAC 335.166 or 335.167 and/or Compliance Monitoring required by 30 TAC 335.165, then list the unit/area and include the list of hazardous constituents and their principal degradation constituents in:

CP Table III – Corrective Action Program Table of Detected Hazardous and Solid Waste Constituents and the Groundwater Protection Standard; and **See CP Table III in XI. CP Tables.**

CP Table IV – Compliance Monitoring Program Table of Hazardous and Solid Waste Constituents and Practical Quantitation Limits or Method Quantitation Limits for Compliance Monitoring. **Reserved**

C. Compliance Monitoring Program

As required by 30 TAC 335.165, an owner or operator must monitor the groundwater to determine whether Regulated Units are in compliance with the Groundwater Protection Standard (GWPS) under 30 TAC 335.158. The applicant must provide the following information when proposing a compliance monitoring program. **Not applicable; WMA II and WMA III were in Detection Monitoring (Section VI.B.3) and WMA I is in Corrective Action.**

D. Corrective Action Program

As required by 30 TAC 335.166, the owner or operator must take corrective action to ensure that Regulated Units are in compliance with the Groundwater Protection Standards (GWPS) under 30 TAC 335.158. As required under 30 TAC 335.167, all releases of hazardous constituents from any solid waste management unit at the facility must also be addressed. For existing corrective action programs which have been approved by the TCEQ, the applicant shall provide a copy of the TCEQ corrective action system approval letter, design system specifications and any updates as requested in Section XI.D.3.a.(1) of this section. The applicant must provide the information requested below when proposing a corrective action program which has not been

previously approved by the TCEQ including a detailed description of a corrective action or a combination of corrective actions that will remedy the groundwater contamination at the waste management unit and a proposed plan for a monitoring program that will demonstrate the effectiveness of the corrective action.

The owner or operator may also apply for a Facility Operations Area (FOA) pursuant to the requirements of 30 TAC 350.131 - 350.135 of the Texas Risk Reduction Program (TRRP) rules, provided the applicant meets the FOA pre-approval process steps 1 through 3 approved by the Commission.

Also, the owner or operator may apply for alternative groundwater Corrective Action Program pursuant 30 TAC 335.151, 335.156 and 30 TAC 350, where there are commingled releases from RCRA-regulated unit from one or more SWMUs, PCO, and/or AOC.

The changes to the Corrective Action Program for this Class 3 Modification application are to add hazardous constituents and their respective groundwater protection standards that are to be monitored. Although no changes to the monitoring and reporting frequency is proposed, we are requesting a correction to CP Table VIII. Currently that table indicates that "triennial sampling" is performed. "Triennial sampling" is not part of the approved sampling and analysis plan; therefore, with concurrence from TCEQ, we are requesting that Item D of CP Table VIII be removed. A revised CP Table VIII is included in XI. CP Tables.

A Post-Closure Care Order was issued in April 1994. The Order included general requirements for Corrective Action (recovery, monitoring, reporting, etc.) related to the impacted groundwater in WMA I. The initial Post-Closure Care Permit and Compliance Plan (separate documents) were issued by TNRCC is 1999. The groundwater recovery system consists of well MW-20B. Groundwater is pumped from MW-20B, filtered, and then passed through a carbon adsorption system designed to reduce organic chemical concentrations to an acceptable level for the ultimate discharge to the City of Jasper POTW under City of Jasper Industrial Wastewater Discharge Permit 002, held by Stella Jones..

1. Type of Corrective Action Proposed - N**o changes to corrective action proposed in this permit modification**.
2. Program Description – **No changes to corrective action program in this permit modification.**
3. Groundwater Monitoring and Corrective Action Program Description
    a. Describe the proposed groundwater monitoring system to be used to monitor corrective action and compliance with the GWPS which includes the following information.
        (1) Changes, if applicable, from the current groundwater monitoring program at the waste management unit that will be required to comply with the corrective action monitoring program described in 30 TAC 335.166.

        The Sampling and Analysis Plan is included in Appendix

XI.D.3. The changes to the Sampling and Analysis Plan include cessation of detection monitoring for WMA II and WMA III and the inclusion of additional analytes/parameters for WMA I as reflected in the revised CP Table III and CP Table IIIA.

There are no changes to the following:

- **The Geological or hydrogeological information previously submitted with the renewal application.**
- **Construction details to monitoring wells**
- **The wells used for monitoring WMA I.**
- **Sampling frequency, handling, statistical methods used for compliance evaluation with GWPS. Please note that the removal of the requirement associated with CP Table VIII.D does not impact sampling frequency as its inclusion was an error.**
- **Compliance Period (retained at 10 years, though less than 10 years remains with the permit)**

As detection monitoring is no longer required, the amount of financial assurance is reduced. Revised cost estimates for post closure requirements for WMA II and WMA III are provided in Tables VII.D – Unit Post-Closure Cost Estimate and Table VII.E.2 in Appendix VII.

(2) The number, depth and location of all monitor wells (Background Wells, Point of Compliance Wells, Corrective Action Observation Wells, Supplemental Wells, piezometers, etc.) and all Recovery Wells and complete CP Table V – Designation of Wells by Function. Also, make revisions as applicable to plans referenced in Section XI.D.3.c. **No changes to CP Table V are proposed with this Class 3 Modification application.**

(3) The proposed hazardous constituent monitoring list which is based on constituents that were monitored during detection monitoring (if applicable), constituents detected in accordance with 30 TAC 335.164, and degradational constituents identified in CP Table III accordingly to develop the constituent list for the Corrective Action Monitoring Program. CP Table III shall become part of the final Compliance Plan. **See CP Table III**

(4) The proposed indicator parameter monitoring list. From the list of constituents and GWPS identified in CP Table III complete CP Table IIIA – Corrective Action Program Table of Indicator Parameters and the Groundwater Protection Standard, accordingly. CP Table IIIA shall become part of the Compliance Plan to be analyzed at least semiannually as required by 30 TAC 335.166(7). **See CP Table IIIA**

(5) Frequency of monitoring should be specified in CP Table VIII. **Monitoring frequency is specified in CP Table VIII. This table has been modified to remove Item D, which did not reflect the approved sampling and analysis plan. No changes in monitoring frequency is associated with this Class 3 Modification.**

(6) Provisions for semiannual reporting of groundwater data at least on an annual basis should be specified in CP Table VII. **No changes to CP Table VII are proposed as part of this Class 3 Modification application.**

(7) Annual determination of contamination plume rate and direction of migration. **No changes to CP Table VII are proposed as part of this Class 3 Modification application.**

(8) Compliance period. Calculate the compliance period as required by 30 TAC 335.162 and 335.165(1)(d). Include calculations and complete CP Table VI – Compliance Period for RCRA-Regulated Units which shall become part of the final Compliance Plan. **No changes to the compliance period are proposed as part of this Class 3 Modification application.**

b. Proposed methods of evaluating the effectiveness of the corrective action in the saturated and vadose zone.

Groundwater data is reviewed to determine plume stability and ongoing trends in recovery of non-aqueous phase liquids (NAPL).

c. Submit the following plans and reports.

(1) Current Sampling and Analysis Plan. The Sampling and Analysis Plan must include information required by 30 TAC 335.163(4) and 335.163(5) and 40 CFR Subpart 270.30(j). For guidance, please see "Attachment C" to the application. **See Appendix XI.D.3**

(2) Groundwater Recovery and Monitoring System Plan **Not applicable**.

(3) Current Geologic and Hydrogeologic Report – **Not required for this Class 3 permit modification.**

4. Waste Management Units/Areas Monitored Under Corrective Action Programs **There are no changes to the waste management unit/areas in the corrective action program resulting from this Class 3 Modification application.**

5. Waste Management Units/Areas Addressed Under Other Corrective Action Programs -Facility Operations Area (FOA), specific to the requirements of 30 TAC 350.131 - 350.135. The Permittee should also complete Sections XI.D.4. for other units not addressed by the FOA that may require corrective action outside the FOA boundary. For other units not addressed by the FOA, either within the FOA or outside the FOA which may require compliance monitoring, the Permittee should complete Section XI.C. of this application accordingly. **Not Applicable, an FOA is not used**.

6. Waste Management Units/Areas Monitored Under Corrective Action Programs - Plume Management Zone (PMZ) **A plume management zone is not used;**

therefore, this section is not applicable.

7. Waste Management Units/Areas Monitored Under Alternative Corrective Action Program for Co-mingled plumes Alternative groundwater Corrective Action Program apply, pursuant 30 TAC 335.151, 335.156 and 350, for commingled release from RCRA-regulated unit and from one or more SWMUs and/or AOC. **There are no changes to the Alternative Corrective Action Program resulting from this Class 3 Modification Application. CP Attachment A maps have been updated to clearly depict those waste management units and areas of concern that have not been closed at the time of the application. See CP Attachment A Figures.**
8. Implementation Schedule – **The Implementation Schedule (CP Table VIII) has been modified to remove Item D, which did not reflect the approved sampling and analysis plan. No changes in monitoring frequency, or other implementation items, are associated with this Class 3 Modification.**

E. Cost Estimates For Financial Assurance

As required by 30 TAC 335.156 and 335.167, the applicant must provide cost estimates for groundwater monitoring and corrective action to determine the amount of financial assurance. Please complete the applicable parts of this form. Cost estimates should be filled out for each proposed corrective action/monitoring system at the site; or any additional corrective action system not covered in this Part. Please note, the Executive Director may request from the applicant documentary evidence for cost estimates.

If an item is not applicable, please mark it NA.

1. CP Table XI.E – General Information -**See Table XI.E in Appendix XI.E**
2. Please complete Table XI.E.1. – Corrective Action Program Cost Estimate. **See Table XI.E.1 in Appendix XI.E**
3. Please complete Table XI.E.2. – Groundwater Monitoring Cost Estimate. **See Table XI.E.2 in Appendix XI.E**
4. Please complete Table XI.E.3. – Financial Assurance Summary. **See Table XI.E.3 in Appendix XI.E**

Table XI.A.1. - Facility History for Waste Management Units

Name of Waste Management Unit[1]	Type of Waste Management Unit	Notice of Registration Unit Number	Date Waste Was *First* Placed in Unit	EPA Waste Code	Estimated Capacity of Unit (gallons)	Quantity of Waste Left in Place (cubic yards)	Date Waste Was Last Placed in Unit[2]	Date of Unit Closure Or Projected Closure	Date Unit Certified Closed[3]	Is There Evidence of a Release of Hazardous Constituent(s)[4] to Groundwater? (Yes, No, or Unknown)
Hazardous Waste Management Facilities Regulated under the Industrial Solid Waste and Municipal Hazardous Waste Rules (Chapter 335) Requiring Monitoring in Accordance with 335.166 (Corrective Action Program)										
'1. Area I	Closed Surface Impoundments: Pond 1 (RCRA/SWMU 2))	002	1964	K001	No records found	0	1985 (except Pond A, last date was 1981; Pond A and the drip pad are pre-RCRA unit)	1991	1991 (Pond A was closed in 1981)	Yes
	Pond 2 (RCRA/SWMU 3)	003			47,872	0				
	Vacuum Cooling Pit (RCRA/SWMU 10)	004			215,424	0				
	Oil Pit (RCRA/SWMU 11)	005			13,464	0				
	Sump (RCRA/SWMU 12)	006			11,966	0				
	Pond A (Pre RCRA/SWMU 4)	011			488,776	0				
	Drip Area/Loading Track Area (AOC 1)				De Minimis	0				
Hazardous Waste Management Facilities Regulated under the Industrial Solid Waste and Municipal Hazardous Waste Rules (Chapter 335) that formerly required monitoring in accordance with 30 TAC 335.164 (Detection Monitoring)										

Table XI.A.1. - Facility History for Waste Management Units

Name of Waste Management Unit[1]	Type of Waste Management Unit	Notice of Registration Unit Number	Date Waste Was *First* Placed in Unit	EPA Waste Code	Estimated Capacity of Unit (gallons)	Quantity of Waste Left in Place (cubic yards)	Date Waste Was Last Placed in Unit[2]	Date of Unit Closure Or Projected Closure	Date Unit Certified Closed[3]	Is There Evidence of a Release of Hazardous Constituent(s)[4] to Groundwater? (Yes, No, or Unknown)
'2 Area II	Closed Surface Impoundment – Pond C (RCRA)	007	1972	K001	No records found	4,000	1985	1991	1991	No
	Pond D (RCRA)	008			1,496,000					
'3 Area III	Closed Surface Impoundment – Pond E (RCRA)	009	1977	K001	No records found	4,000	1985	1991	1991	No
	Pond F (RCRA)	010			987,360					
Solid Waste Management Units (SWMU) and Areas of Concern (AOC) Regulated under 335.167 that are recommended for Further Investigation or Corrective Action										
SWMU 5	Pond B	012	1964	NA	No records found	0	NA	NA	NA	No
SWMU 15	Former Oil/Water Separator	A	1970	NA	No records found	0	1985	2025	Pending	No
SWMU 16	Tank E Containment	B	1985	NA	No records found	0	NA	2025	Pending	No
AOC 1	Drip Area/Loading Track Area	C	1964	NA	No records found	0	1990	2000	2000	No
AOC 3	NPDES outfall	D	1964	NA	No records found	0	NA	2021	2021	No
AOC5	Run-Off Ditch South of Retorts	E	1964	NA	No records found	0	1991	2025	Pending	No

Table XI.A.1. - Facility History for Waste Management Units

Name of Waste Management Unit[1]	Type of Waste Management Unit	Notice of Registration Unit Number	Date Waste Was *First* Placed in Unit	EPA Waste Code	Estimated Capacity of Unit (gallons)	Quantity of Waste Left in Place (cubic yards)	Date Waste Was Last Placed in Unit[2]	Date of Unit Closure Or Projected Closure	Date Unit Certified Closed[3]	Is There Evidence of a Release of Hazardous Constituent(s)[4] to Groundwater? (Yes, No, or Unknown)
AOC6	Run-Off Ditch South of Pond 1	F	1964	NA	No records found	0	1991	1991	Pending	No
AOC 7	Abandoned Pipe Release	G	2020	NA	No records found	0	current	2025	Pending	No

1 Indicate by asterisk (*) those waste management units that have received any hazardous waste constituent listed in Appendix VIII of 40 CFR Part 261.
2 For the purposes of this Compliance Plan Application, a waste management unit receiving hazardous waste after July 26, 1982 shall be considered a Regulated Unit. A waste management unit that ceased receiving hazardous waste on or before that date shall be considered a Solid Waste Management Unit (SWMU).
3 Date the applicant submitted certification of closure to the Commission.
4 Hazardous constituents are those hazardous constituents listed in Appendix IX of 40 CFR Part 264.

CP TABLES

CP Table II: Solid Waste Management Units and/or Areas of Concern Addressed in Permit Section XI.H. for which Corrective Action Applies Pursuant to 30 TAC Section 335.167

Unit Name[3]	NOR Number, if applicable	SWMU or AOC	Affected Media[1]	Date Program Requirement and Remedy Standard Completed[2]
Area I (Pond A and Drip Pad)	RCRA Units, 002, 003, 004, 005, and 006; SWMUs 011 and 026	SWMU	Soil and Groundwater	
SWMU 5 (Pond B)	012	SWMU	Soil	
SWMU 15 (Oil Water Separator)	A	SWMU	Soil	Closure Request Pending
SWMU 16 (Tank E Containment Area)	B	SWMU	Soil	Closure Request Pending
AOC 5 (Run-Off Ditch South of Retorts)	C	AOC	Soil	Closure Request Pending
AOC 6 (Run-Off Ditch South of Pond 1)	D	AOC	Soil	Closure Request Pending
AOC 7 (Abandoned Pipe Release)	E	AOC	Soil	Closure Request Pending
AOC 1 (Loading Track Area)	F	AOC	Soil	NFA dated 5 January 2022
AOC 3 (NDPES Outfall 001)	G	AOC	N/A*	NFA dated 25 May 2021 * No Further Action (NFA) issued on a jurisdictional basis (regulated under Section 402 of the Clean Water Act)

SWMU = Solid Waste Management Unit; AOC = Area of Concern; NOR = Notice of Registration

Footnotes:

1. Specify the affected media [i.e., soil, groundwater (GW), surface water (SW), or sediment (SED)].

2. For each SWMU or AOC which has completed the Corrective Action Program objectives, specify the Remedy Standard (or Risk Reduction Standard) that was completed, the date of the Commission's No Further Action (NFA) approval letter for all affected media of concern, and the land use used to obtain NFA.

3. For sites with an authorized Facility Operations Area (FOA), list all SWMUs and/or AOCs located within the FOA boundary and outside of the FOA boundary that are subject to Corrective Action at the site.

   Please separate the SWMUs and/or AOCs that are located within the FOA boundary from the

SWMUs and/or AOCs that are located outside of the FOA boundary.

Notes:

a) CP Table II lists SWMUs and/or AOC which have been identified in the RCRA Facility Assessment (RFA) Report as having a release(s) or potential releases of hazardous waste, hazardous constituents, or other chemicals of concern. The Permittee is thus required to meet Corrective Action objectives in accordance with Permit Section XI.H. and 30 TAC Section 335.167.

b) The Permittee shall update CP Table II when a new SWMU and/or AOC which requires Corrective Action is identified.

c) The Permittee shall also update CP Table II when the Corrective Action status of an affected media for a SWMU or AOC has changed as outlined in Footnote No. 2.

d) SWMUs and/or AOCs shall not be deleted from this table when the Corrective Action objectives have been completed and a NFA determination has been approved for the SWMU and/or AOC. In accordance with Permit Section XI.H., CP Table II is intended to be a historical record of the facility's corrective actions and to reflect when the Corrective Action objectives have been met for each SWMU/AOC.

e) There may be cases in which the Permittee fulfills the Corrective Action objectives for soils at a SWMU/AOC, but long-term monitoring and corrective action may be necessary to meet the groundwater Corrective Action objectives. In such instances, the SWMU/AOC would be listed in CP Table I.C and would be subject to all applicable provisions of this Compliance Plan. If a release from a SWMU/AOC is commingled with a RCRA-regulated unit, then the unit and the SWMU/AOC would be listed in CP Table I.D. In accordance with Permit Section XI.H, once the Corrective Action objectives for groundwater are completed, then the Permittee shall modify or amend the Compliance Plan to reassign the SWMU/AOC in CP Table I.C (or CP Table I.D) to CP Table II. CP Table II should reflect the new status of the SWMU/AOC and include the Remedy Standard (or Risk Reduction Standard) that was completed, the date of the NFA approval letter for all affected media of concern, and the land use used to obtain NFA.

CP Table II: Solid Waste Management Units and/or Areas of Concern Addressed in Permit Section XI.H. for which Corrective Action Applies Pursuant to 30 TAC Section 335.167

Unit Name[3]	NOR Number, if applicable	SWMU or AOC	Affected Media[1]	Date Program Requirement and Remedy Standard Completed[2]
Area I (Pond A and Drip Pad)	RCRA Units, 002, 003, 004, 005, and 006; SWMUs 011 and 026	SWMU	Soil and Groundwater	
SWMU 5 (Pond B)	012	SWMU	Soil	
SWMU 15 (Oil Water Separator)	A	SWMU	Soil	Closure Request Pending
SWMU 16 (Tank E Containment Area)	B	SWMU	Soil	Closure Request Pending
AOC 5 (Run-Off Ditch South of Retorts)	C	AOC	Soil	Closure Request Pending
AOC 6 (Run-Off Ditch South of Pond 1)	D	AOC	Soil	Closure Request Pending
AOC 7 (Abandoned Pipe Release)	E	AOC	Soil	Closure Request Pending
AOC 1 (Loading Track Area)	F	AOC	Soil	NFA dated 5 January 2022
AOC 3 (NDPES Outfall 001)	G	AOC	N/A*	NFA dated 25 May 2021 * No Further Action (NFA) issued on a jurisdictional basis (regulated under Section 402 of the Clean Water Act)

SWMU = Solid Waste Management Unit; AOC = Area of Concern; NOR = Notice of Registration

Footnotes:

1. Specify the affected media [i.e., soil, groundwater (GW), surface water (SW), or sediment (SED)].

2. For each SWMU or AOC which has completed the Corrective Action Program objectives, specify the Remedy Standard (or Risk Reduction Standard) that was completed, the date of the Commission's No Further Action (NFA) approval letter for all affected media of concern, and the land use used to obtain NFA.

3. For sites with an authorized Facility Operations Area (FOA), list all SWMUs and/or AOCs located within the FOA boundary and outside of the FOA boundary that are subject to Corrective Action at the site.

   Please separate the SWMUs and/or AOCs that are located within the FOA boundary from the

SWMUs and/or AOCs that are located outside of the FOA boundary.

Notes:

a) CP Table II lists SWMUs and/or AOC which have been identified in the RCRA Facility Assessment (RFA) Report as having a release(s) or potential releases of hazardous waste, hazardous constituents, or other chemicals of concern. The Permittee is thus required to meet Corrective Action objectives in accordance with Permit Section XI.H. and 30 TAC Section 335.167.

b) The Permittee shall update CP Table II when a new SWMU and/or AOC which requires Corrective Action is identified.

c) The Permittee shall also update CP Table II when the Corrective Action status of an affected media for a SWMU or AOC has changed as outlined in Footnote No. 2.

d) SWMUs and/or AOCs shall not be deleted from this table when the Corrective Action objectives have been completed and a NFA determination has been approved for the SWMU and/or AOC. In accordance with Permit Section XI.H., CP Table II is intended to be a historical record of the facility's corrective actions and to reflect when the Corrective Action objectives have been met for each SWMU/AOC.

e) There may be cases in which the Permittee fulfills the Corrective Action objectives for soils at a SWMU/AOC, but long-term monitoring and corrective action may be necessary to meet the groundwater Corrective Action objectives. In such instances, the SWMU/AOC would be listed in CP Table I.C and would be subject to all applicable provisions of this Compliance Plan. If a release from a SWMU/AOC is commingled with a RCRA-regulated unit, then the unit and the SWMU/AOC would be listed in CP Table I.D. In accordance with Permit Section XI.H, once the Corrective Action objectives for groundwater are completed, then the Permittee shall modify or amend the Compliance Plan to reassign the SWMU/AOC in CP Table I.C (or CP Table I.D) to CP Table II. CP Table II should reflect the new status of the SWMU/AOC and include the Remedy Standard (or Risk Reduction Standard) that was completed, the date of the NFA approval letter for all affected media of concern, and the land use used to obtain NFA.

CP Table III: Corrective Action Program Table of Detected Hazardous and Solid Waste Constituents and the Groundwater Protection Standard

Unit Name	Column A Hazardous Constituents	Column B Groundwater Protection Standards (mg/L) at the POC[1, 3]		Column C Groundwater Protection Standards (mg/L) at the POE, APOE, or FBOC[2, 3]	
Area I	Arsenic (total)	N/A*	*Monitored for the purpose of assessing naturally occurring concentrations in geologic formations	N/A**	**Arsenic may be occurring in groundwater as a result of biogeochemical processes related to the release from Area I.
Area I	Acenaphthene	2.2	MSC	N/A	
Area I	Acenaphthylene	2.2	MSC	N/A	
Area I	Acetone	3.3	MSC	N/A	
Area I	Anthracene	11	MSC	N/A	
Area I	Benzene	0.005	MSC	N/A	
Area I	Benzo(b)fluoranthene	0.0051	ND	N/A	
Area I	Benzo(k)fluoranthene	0.0012	MSC	N/A	
Area I	Benzo(a)anthracene	5.1e-4	ND	N/A	
Area I	Benzo(g,h,i)perylene	11	MSC	N/A	
Area I	Benzo(a)pyrene	5.1e-4	ND	N/A	
Area I	Bis(2-ethylhexyl)phthalate	0.006	MSC	N/A	
Area I	2-Butanone	2.2	MSC	N/A	
Area I	Carbazole	0.014	MSC	N/A	
Area I	4-Chloroaniline	0.15	MSC	N/A	
Area I	Chloroform	0.37	MSC	N/A	
Area I	Chrysene	0.012	MSC	N/A	
Area I	Di-n-octyl-phthalate	0.73	MSC	N/A	
Area I	Dibenz(a,h)anthracene	2e-4	MSC	N/A	
Area I	Dibenzofuran	0.15	MSC	N/A	
Area I	1,4-Dichlorobenzene	0.075	MSC	N/A	
Area I	2,4-Dimethylphenol	0.732	MSC	N/A	
Area I	2,4-Dinitrophenol	0.0732	MSC	N/A	
Area I	Ethylbenzene	0.70	MSC	N/A	
Area I	Fluoranthene	1.46	MSC	N/A	

Unit Name	Column A Hazardous Constituents	Column B Groundwater Protection Standards (mg/L) at the POC[1, 3]		Column C Groundwater Protection Standards (mg/L) at the POE, APOE, or FBOC[2, 3]	
Area I	Fluorene	1.5	MSC	N/A	
Area I	2-Hexanone	2.2	MSC	N/A	
Area I	Indeno(1,2,3-cd)pyrene	5.1e-4	ND	N/A	
Area I	Isopropyl benzene (cumene)	3.7	MSC	N/A	
Area I	1-Methylnaphthalene	2.6	MSC	N/A	
Area I	2-Methylnaphthalene	0.15	MSC	N/A	
Area I	2-Methylphenol	1.8	MSC	N/A	
Area I	3-Methylphenol	1.8	MSC	N/A	
Area I	4-Methylphenol	0.18	MSC	N/A	
Area I	4-Methyl-2-pentanone	2.9	MSC	N/A	
Area I	Naphthalene	1.46	MSC	N/A	
Area I	Phenanthrene	1.1	MSC	N/A	
Area I	Phenol	21.9	MSC	N/A	
Area I	Pyrene	1.1	MSC	N/A	
Area I	Styrene	0.10	MSC	N/A	
Area I	Toluene	1.0	MSC	N/A	
Area I	Total Petroleum Hydrocarbons (C6-C35 by TX-1005	~~N/A~~ 3.1	MSC, C16-21 Aromatics by TX-1006	N/A	
~~Area I~~	~~6 C Aliphatics~~	~~2.2~~	~~MSC~~	~~N/A~~	
~~Area I~~	~~>6-8 C Aliphatics~~	~~2.2~~	~~MSC~~	~~N/A~~	
~~Area I~~	~~>8-10 C Aliphatics~~	~~3.7~~	~~MSC~~	~~N/A~~	
~~Area I~~	~~>10-12 C Aliphatics~~	~~3.7~~	~~MSC~~	~~N/A~~	
~~Area I~~	~~>12-16 C Aliphatics~~	~~3.7~~	~~MSC~~	~~N/A~~	
~~Area I~~	~~>16-21 C Aliphatics~~	~~73~~	~~MSC~~	~~N/A~~	
Area I	1,2,4-Trichlorobenzene	0.07	MSC	N/A	
Area I	m,p-Xylene	10	MSC	N/A	
Area I	o-Xylene	10	MSC	N/A	

Notes:

a) If the Corrective Action Program (Provision XI.E.) does not apply to the RCRA-regulated units, SWMUs, or AOCs at the facility, delete the contents of the table and add "Reserved" to the first row of CP Table III.

b) CP Table III represents the long list of hazardous constituents that are reasonably expected to be in, or derived from, the waste placed in each RCRA-regulated unit, SWMU,

and/or AOC listed in the table. CP Table III also lists the hazardous constituents that have been historically detected in the groundwater for each RCRA-regulated unit, SWMU, and/or AOC. These hazardous constituents are monitored in accordance with Provision XI.F.3.c.(1).

c) In accordance with Provision XI.D.6., the Groundwater Protection Standards (GWPS) must be met before the Corrective Action Program can be terminated for the RCRA-regulated unit, SWMU, and/or AOC.

d) If applicable, "Appendix IX" can be used in Column A for a unit instead of listing each chemical of concern (COC). The Permittee may petition the Executive Director for the deletion of a specific COC from the Appendix IX analysis if the Permittee can demonstrate that the COC was never used in the facility's operations nor was disposed of in the unit.

e) Attenuation monitoring point (AMP) wells, corrective action system (CAS) wells, and corrective action observation (CAO) wells should not be listed in CP Table III. These wells should only be depicted in the CP Attachment A maps. Once an AMP, CAS, or CAO well meets its respective attenuation action levels (AALs) or GWPS, then the Permittee may propose to discontinue monitoring that well without modification to the Permit. If the AMP, CAS, or CAO well is listed in CP Table III, then any proposed change to the well would require modification to the Permit. Changes to the wells depicted in the CP Attachment A maps can be approved in the Groundwater Monitoring Report required by CP Table VII and Provision XI.G.3 and become a part of the Permit by reference.

f) POC = point of compliance; POE = point of exposure; APOE = alternate point of exposure (only applicable for an authorized plume management zone [PMZ]); and FBOC = Facility Operation Area (FOA) Boundary of Compliance (only applicable for an authorized FOA).

Footnotes:

1. Use Column B to specify the GWPS assigned at the POC for a RCRA-regulated unit subject to Corrective Action or for a SWMU/AOC subject to the Risk Reduction Rules. Put "N/A" if not applicable.

2. Use Column C to specify the GWPS assigned at the POE, APOE (PMZ only), or FBOC (authorized FOA only). Put "N/A" if not applicable.

3. For each COC, include the appropriate GWPS designation to demonstrate that the Corrective Action Program objectives are being achieved either under the Risk Reduction Rules (RRR) pursuant to 30 TAC Chapter 335 or the Texas Risk Reduction Program (TRRP) pursuant to 30 TAC Chapter 350. The RRR and TRRP GWPS designations and definitions may not be combined pursuant to 30 TAC Section 350.2(m).

   ACL = alternative concentration limit; PCL = protective concentration level; RSA = Remedy Standard A; RSB = Remedy Standard B

RRR GWPS Designations and Definitions

MSC	ACL pursuant to 30 TAC Section 335.160(b) based upon the groundwater Medium-Specific Concentration (MSC), Residential (or Industrial) Risk Reduction Standard No. 2 (or No. 3) specified in 30 TAC Section 335 Subchapter S.

MCL — ACL pursuant to 30 TAC Section 335.160(b) based upon the Groundwater Maximum Contaminant Level (MCL) specified in 40 CFR Part 141, National Primary Drinking Water Regulations Subparts B and G.

SMCL — ALC pursuant to 30 TAC Section 335.160(b) based upon the Groundwater Secondary Maximum Contaminant Level (SMCL) specified in 40 CFR Part 143, National Secondary Drinking Water Regulations.

AL — ACL pursuant to 30 TAC Section 335.160(b) based upon the Action Level (AL) specified in 40 CFR Part 141, National Primary Drinking Water Regulations Subpart I.

BKG — Background as determined in accordance with Provision XI.F.1.

ND — Non-detectable at the practical quantitation limit (PQL) as determined by the analytical methods of the most recent edition of EPA SW-846, and as listed in the July 8, 1987, edition of the Federal Register and later editions. The PQL is the lowest concentration of an analyte in groundwater that can be reliably determined within specified limits of precision and accuracy by the indicated methods under routine laboratory operating conditions.

TRRP GWPS Designations and Definitions

$^{GW}GW_{Ing}$ — ACL pursuant to 30 TAC Section 335.160(b) and 30 TAC Chapter 350 which is based upon the groundwater ingestion PCL determined under RSA or RSB (Residential or Commercial/Industrial) for Class 1 or Class 2 groundwater. The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table. In accordance with 30 TAC Section 350.72(b), $^{GW}GW_{Ing}$ PCLs may need to be adjusted to lower concentrations to meet the cumulative carcinogenic risk level (less than or equal to 1x10E-4) and hazard index criteria (less than or equal to 10) when there are more than 10 carcinogenic and/or more than 10 noncarcinogenic chemicals of concern within a source medium.

$^{GW}GW_{Class3}$ — ACL pursuant to 30 TAC Section 335.160(b) and 30 TAC Chapter 350 which is based upon the groundwater PCL determined under RSA or RSB (Residential or Commercial/Industrial) for Class 3 groundwater. The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table.

$^{Air}GW_{Inh\text{-}V}$ — ACL pursuant to 30 TAC Section 335.160(b) and 30 TAC Chapter 350 which is based upon the inhalation of volatile constituents from groundwater PCL determined under RSA or RSB (Residential or Commercial/Industrial) for Class 1, 2, or 3 groundwater. The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table.

^{SW}GW — ACL pursuant to 30 TAC Section 335.160(b) and 30 TAC Chapter 350 which is based upon the groundwater-to-surface water PCL determined under RSA or RSB (Residential or Commercial/Industrial). The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table.

^{SED}GW	ACL pursuant to 30 TAC Section 335.160(b) and 30 TAC Chapter 350 which is based upon the groundwater-to-sediment PCL determined under RSA or RSB (Residential or Commercial/Industrial). The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table.
^{ECO}GW	ACL pursuant to 30 TAC Section 335.160(b) and 30 TAC Chapter 350 which is based upon the groundwater PCL protective of ecological receptor(s) determined under RSA or RSB (Residential or Commercial/Industrial). The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table.
BKG	Background as determined in accordance with Provision XI.F.1.
ND	Non-detectable at the method quantitation limit (MQL) as determined by the analytical methods of the most recent edition of EPA SW-846 and as listed in the July 8, 1987, edition of the Federal Register and later editions. The MQL is defined in 30 TAC Section 350.4(54) as the lowest non-zero concentration standard in the laboratory's initial calibration curve and is based on the final volume of extract (or sample) used by the laboratory.

CP Table III: Corrective Action Program Table of Detected Hazardous and Solid Waste Constituents and the Groundwater Protection Standard

Unit Name	**Column A** Hazardous Constituents	**Column B** Groundwater Protection Standards (mg/L) at the POC[1, 3]		**Column C** Groundwater Protection Standards (mg/L) at the POE, APOE, or FBOC[2, 3]	
Area I	Arsenic (total)	N/A*	*Monitored for the purpose of assessing naturally occurring concentrations in geologic formations	N/A**	**Arsenic may be occurring in groundwater as a result of biogeochemical processes related to the release from Area I.
Area I	Acenaphthene	2.2	MSC	N/A	
Area I	Acenaphthylene	2.2	MSC	N/A	
Area I	Acetone	3.3	MSC	N/A	
Area I	Anthracene	11	MSC	N/A	
Area I	Benzene	0.005	MSC	N/A	
Area I	Benzo(b)fluoranthene	0.0051	ND	N/A	
Area I	Benzo(k)fluoranthene	0.0012	MSC	N/A	
Area I	Benzo(a)anthracene	5.1e-4	ND	N/A	
Area I	Benzo(g,h,i)perylene	11	MSC	N/A	
Area I	Benzo(a)pyrene	5.1e-4	ND	N/A	
Area I	Bis(2-ethylhexyl)phthalate	0.006	MSC	N/A	
Area I	2-Butanone	2.2	MSC	N/A	
Area I	Carbazole	0.014	MSC	N/A	
Area I	4-Chloroaniline	0.15	MSC	N/A	
Area I	Chloroform	0.37	MSC	N/A	
Area I	Chrysene	0.012	MSC	N/A	
Area I	Di-n-octyl-phthalate	0.73	MSC	N/A	
Area I	Dibenz(a,h)anthracene	2e-4	MSC	N/A	
Area I	Dibenzofuran	0.15	MSC	N/A	
Area I	1,4-Dichlorobenzene	0.075	MSC	N/A	
Area I	2,4-Dimethylphenol	0.732	MSC	N/A	
Area I	2,4-Dinitrophenol	0.0732	MSC	N/A	
Area I	Ethylbenzene	0.70	MSC	N/A	
Area I	Fluoranthene	1.46	MSC	N/A	

Unit Name	**Column A** Hazardous Constituents	**Column B** Groundwater Protection Standards (mg/L) at the POC[1, 3]		**Column C** Groundwater Protection Standards (mg/L) at the POE, APOE, or FBOC[2, 3]	
Area I	Fluorene	1.5	MSC	N/A	
Area I	2-Hexanone	2.2	MSC	N/A	
Area I	Indeno(1,2,3-cd)pyrene	5.1e-4	ND	N/A	
Area I	Isopropyl benzene (cumene)	3.7	MSC	N/A	
Area I	1-Methylnaphthalene	2.6	MSC	N/A	
Area I	2-Methylnaphthalene	0.15	MSC	N/A	
Area I	2-Methylphenol	1.8	MSC	N/A	
Area I	3-Methylphenol	1.8	MSC	N/A	
Area I	4-Methylphenol	0.18	MSC	N/A	
Area I	4-Methyl-2-pentanone	2.9	MSC	N/A	
Area I	Naphthalene	1.46	MSC	N/A	
Area I	Phenanthrene	1.1	MSC	N/A	
Area I	Phenol	21.9	MSC	N/A	
Area I	Pyrene	1.1	MSC	N/A	
Area I	Styrene	0.10	MSC	N/A	
Area I	Toluene	1.0	MSC	N/A	
Area I	Total Petroleum Hydrocarbons (C6-C35 by TX-1005)	3.1	MSC, C16-21 Aromatics by TX-1006	N/A	
Area I	1,2,4-Trichlorobenzene	0.07	MSC	N/A	
Area I	m,p-Xylene	10	MSC	N/A	
Area I	o-Xylene	10	MSC	N/A	

Notes:

a) If the Corrective Action Program (Provision XI.E.) does not apply to the RCRA-regulated units, SWMUs, or AOCs at the facility, delete the contents of the table and add "Reserved" to the first row of CP Table III.

b) CP Table III represents the long list of hazardous constituents that are reasonably expected to be in, or derived from, the waste placed in each RCRA-regulated unit, SWMU, and/or AOC listed in the table. CP Table III also lists the hazardous constituents that have been historically detected in the groundwater for each RCRA-regulated unit, SWMU, and/or AOC. These hazardous constituents are monitored in accordance with Provision XI.F.3.c.(1).

c) In accordance with Provision XI.D.6., the Groundwater Protection Standards (GWPS) must be met before the Corrective Action Program can be terminated for the RCRA-regulated unit, SWMU, and/or AOC.

d) If applicable, "Appendix IX" can be used in Column A for a unit instead of listing each chemical of concern (COC). The Permittee may petition the Executive Director for the deletion of a specific COC from the Appendix IX analysis if the Permittee can demonstrate that the COC was never used in the facility's operations nor was disposed of in the unit.

e) Attenuation monitoring point (AMP) wells, corrective action system (CAS) wells, and corrective action observation (CAO) wells should not be listed in CP Table III. These wells should only be depicted in the CP Attachment A maps. Once an AMP, CAS, or CAO well meets its respective attenuation action levels (AALs) or GWPS, then the Permittee may propose to discontinue monitoring that well without modification to the Permit. If the AMP, CAS, or CAO well is listed in CP Table III, then any proposed change to the well would require modification to the Permit. Changes to the wells depicted in the CP Attachment A maps can be approved in the Groundwater Monitoring Report required by CP Table VII and Provision XI.G.3 and become a part of the Permit by reference.

f) POC = point of compliance; POE = point of exposure; APOE = alternate point of exposure (only applicable for an authorized plume management zone [PMZ]); and FBOC = Facility Operation Area (FOA) Boundary of Compliance (only applicable for an authorized FOA).

Footnotes:

1. Use Column B to specify the GWPS assigned at the POC for a RCRA-regulated unit subject to Corrective Action or for a SWMU/AOC subject to the Risk Reduction Rules. Put "N/A" if not applicable.

2. Use Column C to specify the GWPS assigned at the POE, APOE (PMZ only), or FBOC (authorized FOA only). Put "N/A" if not applicable.

3. For each COC, include the appropriate GWPS designation to demonstrate that the Corrective Action Program objectives are being achieved either under the Risk Reduction Rules (RRR) pursuant to 30 TAC Chapter 335 or the Texas Risk Reduction Program (TRRP) pursuant to 30 TAC Chapter 350. The RRR and TRRP GWPS designations and definitions may not be combined pursuant to 30 TAC Section 350.2(m).

   ACL = alternative concentration limit; PCL = protective concentration level; RSA = Remedy Standard A; RSB = Remedy Standard B

RRR GWPS Designations and Definitions

MSC	ACL pursuant to 30 TAC Section 335.160(b) based upon the groundwater Medium-Specific Concentration (MSC), Residential (or Industrial) Risk Reduction Standard No. 2 (or No. 3) specified in 30 TAC Section 335 Subchapter S.
MCL	ACL pursuant to 30 TAC Section 335.160(b) based upon the Groundwater Maximum Contaminant Level (MCL) specified in 40 CFR Part 141, National Primary Drinking Water Regulations Subparts B and G.
SMCL	ALC pursuant to 30 TAC Section 335.160(b) based upon the Groundwater Secondary Maximum Contaminant Level (SMCL) specified in 40 CFR Part 143, National Secondary Drinking Water Regulations.
AL	ACL pursuant to 30 TAC Section 335.160(b) based upon the Action Level (AL)

specified in 40 CFR Part 141, National Primary Drinking Water Regulations Subpart I.

BKG Background as determined in accordance with Provision XI.F.1.

ND Non-detectable at the practical quantitation limit (PQL) as determined by the analytical methods of the most recent edition of EPA SW-846, and as listed in the July 8, 1987, edition of the Federal Register and later editions. The PQL is the lowest concentration of an analyte in groundwater that can be reliably determined within specified limits of precision and accuracy by the indicated methods under routine laboratory operating conditions.

TRRP GWPS Designations and Definitions

$^{GW}GW_{Ing}$ ACL pursuant to 30 TAC Section 335.160(b) and 30 TAC Chapter 350 which is based upon the groundwater ingestion PCL determined under RSA or RSB (Residential or Commercial/Industrial) for Class 1 or Class 2 groundwater. The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table. In accordance with 30 TAC Section 350.72(b), $^{GW}GW_{Ing}$ PCLs may need to be adjusted to lower concentrations to meet the cumulative carcinogenic risk level (less than or equal to 1x10E-4) and hazard index criteria (less than or equal to 10) when there are more than 10 carcinogenic and/or more than 10 noncarcinogenic chemicals of concern within a source medium.

$^{GW}GW_{Class3}$ ACL pursuant to 30 TAC Section 335.160(b) and 30 TAC Chapter 350 which is based upon the groundwater PCL determined under RSA or RSB (Residential or Commercial/Industrial) for Class 3 groundwater. The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table.

$^{Air}GW_{Inh\text{-}V}$ ACL pursuant to 30 TAC Section 335.160(b) and 30 TAC Chapter 350 which is based upon the inhalation of volatile constituents from groundwater PCL determined under RSA or RSB (Residential or Commercial/Industrial) for Class 1, 2, or 3 groundwater. The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table.

^{SW}GW ACL pursuant to 30 TAC Section 335.160(b) and 30 TAC Chapter 350 which is based upon the groundwater-to-surface water PCL determined under RSA or RSB (Residential or Commercial/Industrial). The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table.

^{SED}GW ACL pursuant to 30 TAC Section 335.160(b) and 30 TAC Chapter 350 which is based upon the groundwater-to-sediment PCL determined under RSA or RSB (Residential or Commercial/Industrial). The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table.

^{ECO}GW ACL pursuant to 30 TAC Section 335.160(b) and 30 TAC Chapter 350 which is based upon the groundwater PCL protective of ecological receptor(s) determined

under RSA or RSB (Residential or Commercial/Industrial). The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table.

BKG Background as determined in accordance with Provision XI.F.1.

ND Non-detectable at the method quantitation limit (MQL) as determined by the analytical methods of the most recent edition of EPA SW-846 and as listed in the July 8, 1987, edition of the Federal Register and later editions. The MQL is defined in 30 TAC Section 350.4(54) as the lowest non-zero concentration standard in the laboratory's initial calibration curve and is based on the final volume of extract (or sample) used by the laboratory.

CP Table IIIA: Corrective Action Program Table of Indicator Parameters and the Groundwater Protection Standard

Unit Name	**Column A** Hazardous Constituents	**Column B** Groundwater Protection Standards (mg/L) at the POC[1, 3]		**Column C** Groundwater Protection Standards (mg/L) at the POE, APOE, or FBOC[2, 3]	
Area I	Arsenic (total)	N/A*	*Monitored for the purpose of assessing naturally occurring concentrations in geologic formations	N/A**	**Arsenic may be occurring in groundwater as a result of biogeochemical processes related to the release from Area I.
Area I	Benzene	0.005	MSC	N/A	
Area I	Naphthalene	1.46	MSC	N/A	
~~Area I~~	~~Chrysene~~	~~0.012~~	~~MSC~~	~~N/A~~	

Notes:

a) If the Corrective Action Program (Provision XI.E.) does not apply to the RCRA-regulated units, SWMUs, or AOCs at the facility, delete the contents of the table and add "Reserved" to the first row of CP Table IIIA.

b) CP Table IIIA represents the short list of hazardous constituents (i.e., indicator parameters) developed from CP Table III and are monitored on a frequency specified in CP Table VIII to verify that the ground water protection standards (GWPS) are met.

c) In accordance with Provision XI.D.6, the GWPS must be met before the Corrective Action Program can be terminated for the RCRA-regulated unit, SWMU and/or AOC.

d) If applicable, "Appendix IX" can be used in Column A for a unit instead of listing each chemical of concern (COC). The Permittee may petition the Executive Director for the deletion of a specific COC from the Appendix IX analysis if the Permittee can demonstrate that the COC was never used in the facility's operations nor was disposed of in the unit.

e) Attenuation monitoring point (AMP) wells, corrective action system (CAS) wells, and corrective action observation (CAO) wells should not be listed in CP Table IIIA. These wells should only be depicted in the CP Attachment A maps. Once an AMP, CAS, or CAO well meets its respective attenuation action levels (AALs) or GWPS, then the Permittee may propose to discontinue monitoring that well without modification to the Permit. If the AMP, CAS, or CAO well is listed in CP Table IIIA, then any proposed change to the well would require modification to the Permit. Changes to the wells depicted in the CP Attachment A maps can be approved in the Groundwater Monitoring Report required by CP Table VII and Provision XI.G.3 and become a part of the Permit by reference.

f) POC = point of compliance; POE = point of exposure; APOE = alternate point of exposure (only applicable for an authorized plume management zone [PMZ]); FBOC = Facility Operations Area (FOA) Boundary of Compliance (only applicable for an authorized FOA).

Footnotes:

1. Use Column B to specify the GWPS assigned at the POC for a RCRA-regulated unit subject to Corrective Action or for a SWMU/AOC subject to the Risk Reduction Rules. Put "N/A" if not applicable.

2. Use Column C to specify the GWPS assigned at the POE, APOE, or FBOC. Put "N/A" if not applicable.

3. For each COC, include the appropriate GWPS designation to demonstrate that the Corrective Action Program objectives are being achieved either under the Risk Reduction Rules (RRR) pursuant to 30 TAC Chapter 335 or the Texas Risk Reduction Program (TRRP) pursuant to 30 TAC Chapter 350. The RRR and TRRP GWPS designations and definitions may not be combined pursuant to 30 TAC Section 350.2(m).

   ACL = alternative concentration limit; PCL = protective concentration level; RSA = Remedy Standard A; RSB = Remedy Standard B

RRR GWPS Designations and Definitions

MSC	ACL pursuant to 30 TAC Section 335.160(b) based upon the groundwater Medium-Specific Concentration (MSC), Residential (or Industrial) Risk Reduction Standard No. 2 (or No. 3) specified in 30 TAC Section 335 Subchapter S.
MCL	ACL pursuant to 30 TAC Section 335.160(b) based upon the groundwater Maximum Contaminant Level (MCL) specified in 40 CFR Part 141, National Primary Drinking Water Regulations Subparts B and G.
SMCL	ALC pursuant to 30 TAC Section 335.160(b) based upon the groundwater Secondary Maximum Contaminant Level (SMCL) specified in 40 CFR Part 143, National Secondary Drinking Water Regulations.
AL	ACL pursuant to 30 TAC Section 335.160(b) based upon the Action Level (AL) specified in 40 CFR Part 141, National Primary Drinking Water Regulations Subpart I.
BKG	Background as determined in accordance with Provision XI.F.1.
ND	Non-detectable at the practical quantitation limit (PQL) as determined by the

analytical methods of the most recent edition of EPA SW-846 and as listed in the July 8, 1987, edition of the Federal Register and later editions. The PQL is the lowest concentration of an analyte in groundwater that can be reliably determined within specified limits of precision and accuracy by the indicated methods under routine laboratory operating conditions.

TRRP GWPS Designations and Definitions

$^{GW}GW_{Ing}$	ACL pursuant to 30 TAC Section 335.160(b) and 30 TAC Chapter 350 which is based upon the groundwater ingestion PCL determined under RSA or RSB (Residential or Commercial /Industrial) for Class 1 or Class 2 groundwater. The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table. In accordance with 30 TAC Section 350.72(b), $^{GW}GW_{Ing}$ PCLs may need to be adjusted to lower concentrations to meet the cumulative carcinogenic risk level (less than or equal to 1x10E-4) and hazard index criteria (less than or equal to 10) when there are more than 10 carcinogenic and/or more than 10 noncarcinogenic chemicals of concern within a source medium.
$^{GW}GW_{Class3}$	ACL pursuant to 30 TAC Section 335.160(b) and 30 TAC Chapter 350 which is based upon the groundwater PCL determined under RSA or RSB (Residential or Commercial /Industrial) for Class 3 groundwater. The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table.
$^{Air}GW_{Inh\text{-}V}$	ACL pursuant to 30 TAC Section 335.160(b) and 30 TAC Chapter 350 which is based upon the inhalation of volatile constituents from groundwater PCL determined under RSA or RSB (Residential or Commercial /Industrial) for Class 1, 2, or 3 groundwater. The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table.
^{SW}GW	ACL pursuant to 30 TAC Section 335.160(b) and 30 TAC Chapter 350 which is based upon the groundwater-to-surface water PCL determined under RSA or RSB (Residential or Commercial/Industrial). The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table.
^{SED}GW	ACL pursuant to 30 TAC Section 335.160(b)and 30 TAC Chapter 350 which is based upon the groundwater-to-sediment PCL determined under RSA or RSB (Residential or Commercial/Industrial). The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table.
^{ECO}GW	ACL pursuant to 30 TAC Section 335.160(b) and 30 TAC Chapter 350 which is based upon the groundwater PCL protective of ecological receptor(s) determined under RSA or RSB (Residential or Commercial/Industrial). The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table.
BKG	Background as determined in accordance with Provision XI.F.1.

ND	Non-detectable at the method quantitation limit (MQL) as determined by the analytical methods of the most recent edition of EPA SW-846 and as listed in the July 8, 1987, edition of the Federal Register and later editions. The MQL is defined in 30 TAC Section 350.4(54) as the lowest non-zero concentration standard in the laboratory's initial calibration curve and is based on the final volume of extract (or sample) used by the laboratory.

CP Table IIIA: Corrective Action Program Table of Indicator Parameters and the Groundwater Protection Standard

Unit Name	**Column A** Hazardous Constituents	**Column B** Groundwater Protection Standards (mg/L) at the POC[1, 3]		**Column C** Groundwater Protection Standards (mg/L) at the POE, APOE, or FBOC[2, 3]	
Area I	Arsenic (total)	N/A*	*Monitored for the purpose of assessing naturally occurring concentrations in geologic formations	N/A**	**Arsenic may be occurring in groundwater as a result of biogeochemical processes related to the release from Area I.
Area I	Benzene	0.005	MSC	N/A	
Area I	Naphthalene	1.46	MSC	N/A	

Notes:

a) If the Corrective Action Program (Provision XI.E.) does not apply to the RCRA-regulated units, SWMUs, or AOCs at the facility, delete the contents of the table and add "Reserved" to the first row of CP Table IIIA.

b) CP Table IIIA represents the short list of hazardous constituents (i.e., indicator parameters) developed from CP Table III and are monitored on a frequency specified in CP Table VIII to verify that the ground water protection standards (GWPS) are met.

c) In accordance with Provision XI.D.6, the GWPS must be met before the Corrective Action Program can be terminated for the RCRA-regulated unit, SWMU and/or AOC.

d) If applicable, "Appendix IX" can be used in Column A for a unit instead of listing each chemical of concern (COC). The Permittee may petition the Executive Director for the deletion of a specific COC from the Appendix IX analysis if the Permittee can demonstrate that the COC was never used in the facility's operations nor was disposed of in the unit.

e) Attenuation monitoring point (AMP) wells, corrective action system (CAS) wells, and corrective action observation (CAO) wells should not be listed in CP Table IIIA. These wells should only be depicted in the CP Attachment A maps. Once an AMP, CAS, or CAO well meets its respective attenuation action levels (AALs) or GWPS, then the Permittee may propose to discontinue monitoring that well without modification to the Permit. If the AMP, CAS, or CAO well is listed in CP Table IIIA, then any proposed change to the well would require modification to the Permit. Changes to the wells depicted in the CP Attachment A maps can be approved in the Groundwater Monitoring Report required by CP Table VII and Provision XI.G.3 and become a part of the Permit by reference.

f) POC = point of compliance; POE = point of exposure; APOE = alternate point of exposure (only applicable for an authorized plume management zone [PMZ]); FBOC = Facility Operations Area (FOA) Boundary of Compliance (only applicable for an authorized FOA).

Footnotes:

1. Use Column B to specify the GWPS assigned at the POC for a RCRA-regulated unit subject to Corrective Action or for a SWMU/AOC subject to the Risk Reduction Rules. Put "N/A" if not applicable.

2. Use Column C to specify the GWPS assigned at the POE, APOE, or FBOC. Put "N/A" if not applicable.

3. For each COC, include the appropriate GWPS designation to demonstrate that the Corrective Action Program objectives are being achieved either under the Risk Reduction Rules (RRR) pursuant to 30 TAC Chapter 335 or the Texas Risk Reduction Program (TRRP) pursuant to 30 TAC Chapter 350. The RRR and TRRP GWPS designations and definitions may not be combined pursuant to 30 TAC Section 350.2(m).

   ACL = alternative concentration limit; PCL = protective concentration level; RSA = Remedy Standard A; RSB = Remedy Standard B

RRR GWPS Designations and Definitions

MSC	ACL pursuant to 30 TAC Section 335.160(b) based upon the groundwater Medium-Specific Concentration (MSC), Residential (or Industrial) Risk Reduction Standard No. 2 (or No. 3) specified in 30 TAC Section 335 Subchapter S.
MCL	ACL pursuant to 30 TAC Section 335.160(b) based upon the groundwater Maximum Contaminant Level (MCL) specified in 40 CFR Part 141, National Primary Drinking Water Regulations Subparts B and G.
SMCL	ALC pursuant to 30 TAC Section 335.160(b) based upon the groundwater Secondary Maximum Contaminant Level (SMCL) specified in 40 CFR Part 143, National Secondary Drinking Water Regulations.
AL	ACL pursuant to 30 TAC Section 335.160(b) based upon the Action Level (AL) specified in 40 CFR Part 141, National Primary Drinking Water Regulations Subpart I.
BKG	Background as determined in accordance with Provision XI.F.1.
ND	Non-detectable at the practical quantitation limit (PQL) as determined by the

analytical methods of the most recent edition of EPA SW-846 and as listed in the July 8, 1987, edition of the Federal Register and later editions. The PQL is the lowest concentration of an analyte in groundwater that can be reliably determined within specified limits of precision and accuracy by the indicated methods under routine laboratory operating conditions.

TRRP GWPS Designations and Definitions

$^{GW}GW_{Ing}$	ACL pursuant to 30 TAC Section 335.160(b) and 30 TAC Chapter 350 which is based upon the groundwater ingestion PCL determined under RSA or RSB (Residential or Commercial /Industrial) for Class 1 or Class 2 groundwater. The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table. In accordance with 30 TAC Section 350.72(b), $^{GW}GW_{Ing}$ PCLs may need to be adjusted to lower concentrations to meet the cumulative carcinogenic risk level (less than or equal to 1x10E-4) and hazard index criteria (less than or equal to 10) when there are more than 10 carcinogenic and/or more than 10 noncarcinogenic chemicals of concern within a source medium.
$^{GW}GW_{Class3}$	ACL pursuant to 30 TAC Section 335.160(b) and 30 TAC Chapter 350 which is based upon the groundwater PCL determined under RSA or RSB (Residential or Commercial /Industrial) for Class 3 groundwater. The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table.
$^{Air}GW_{Inh\text{-}V}$	ACL pursuant to 30 TAC Section 335.160(b) and 30 TAC Chapter 350 which is based upon the inhalation of volatile constituents from groundwater PCL determined under RSA or RSB (Residential or Commercial /Industrial) for Class 1, 2, or 3 groundwater. The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table.
^{SW}GW	ACL pursuant to 30 TAC Section 335.160(b) and 30 TAC Chapter 350 which is based upon the groundwater-to-surface water PCL determined under RSA or RSB (Residential or Commercial/Industrial). The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table.
^{SED}GW	ACL pursuant to 30 TAC Section 335.160(b)and 30 TAC Chapter 350 which is based upon the groundwater-to-sediment PCL determined under RSA or RSB (Residential or Commercial/Industrial). The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table.
^{ECO}GW	ACL pursuant to 30 TAC Section 335.160(b) and 30 TAC Chapter 350 which is based upon the groundwater PCL protective of ecological receptor(s) determined under RSA or RSB (Residential or Commercial/Industrial). The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table.
BKG	Background as determined in accordance with Provision XI.F.1.

ND	Non-detectable at the method quantitation limit (MQL) as determined by the analytical methods of the most recent edition of EPA SW-846 and as listed in the July 8, 1987, edition of the Federal Register and later editions. The MQL is defined in 30 TAC Section 350.4(54) as the lowest non-zero concentration standard in the laboratory's initial calibration curve and is based on the final volume of extract (or sample) used by the laboratory.

CP Table VIII: Compliance Schedule

Item	Compliance Schedule (from the date of issuance of the Compliance Plan unless otherwise specified)	Regulatory Citation	Requirement
A.	60 Days	Compliance Plan	Submit to the Executive Director a schedule summarizing all activities required by the Compliance Plan. The schedule shall list the starting dates of all routine activities. The permittee shall include an updated schedule in the groundwater monitoring report required by Provision XI.G.3. The schedule shall list the activity or report, the Compliance Plan Section which requires the activity or report and the calendar date the activity or report is to be completed or submitted (if this date can be determined.)
B.	During the first thirty (30) days of each second quarter.	30 TAC Subchapter 335.151, 335.166 - 335.167	For deep zone wells identified in CP Table V and depicted on CP Attachment A, annual groundwater monitoring shall be performed in accordance with Permit Provision XI and the Sampling and Analysis Plan. Monitoring results shall be incorporated into the groundwater monitoring report required CP Table VII.
C.	During the first thirty (30) days of each second and fourth quarter.	30 TAC Subchapter 335.151, 335.166 - 335.167	For shallow zone wells listed in CP Table V and as depicted on Cp Attachment A semiannual groundwater monitoring shall be performed in accordance with Permit Provision XI and the Sampling and Analysis Plan. Monitoring results shall be incorporated into the groundwater monitoring report required by CP Table VII.
D.	For the Triennial Sampling, every third year from 2020 sampling shall be conducted during the first thirty (30) days of each second quarter.	30 TAC Subchapter 335.151, 335.166 - 335.167	Conduct the triennial groundwater monitoring specified in the Sampling and Analysis Plan. Submit the monitoring results as part of the next subsequent groundwater monitoring report required by CP Table VII.

CP Table VIII: Compliance Schedule

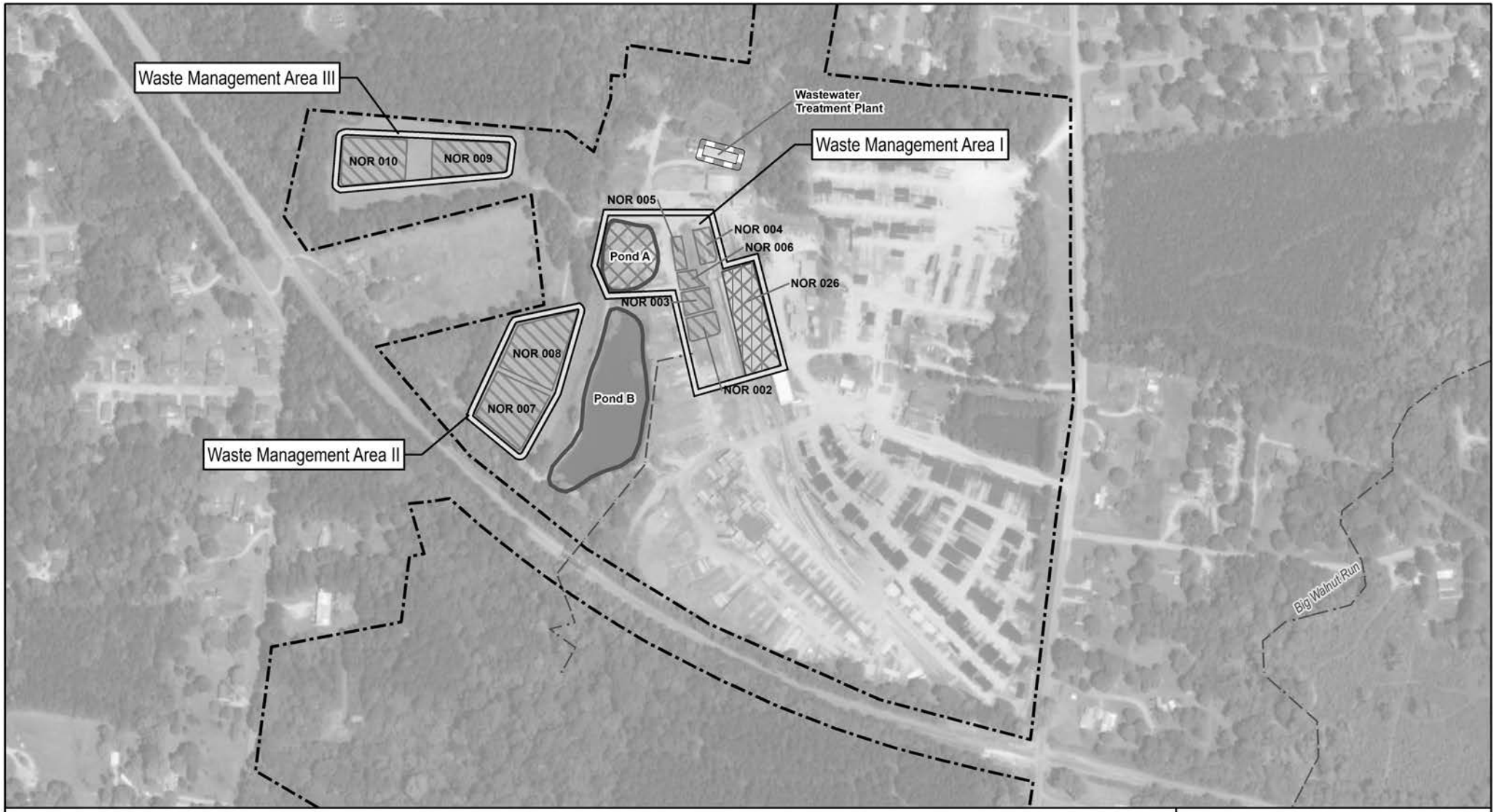
Item	**Compliance Schedule** (from the date of issuance of the Compliance Plan unless otherwise specified)	**Regulatory Citation**	**Requirement**
A.	60 days	Compliance Plan	Submit to the Executive Director a schedule summarizing all activities required by the Compliance Plan. The schedule shall list the starting dates of all routine activities. The permittee shall include an updated schedule in the groundwater monitoring report required by Provision XI.G.3. and CP Table VII. The schedule shall list the activity or report, the Compliance Plan Section which requires the activity or report, and the calendar date the activity or report is to be completed or submitted (if this date can be determined.)
B.	Requirement completed on 31 March 2025	30 TAC §335.163(4) and Provision XI.F.2.	Submit to the Executive Director for review and approval a Sampling & Analysis Plan (SAP) unless the SAP has been submitted with the application and referenced in Provision I.B.
C.	Not Applicable	30 TAC §335.166	Corrective Action monitoring shall be conducted on Choose an item. basis for the RCRA-regulated units listed in CP Table I.A. which are subject to the Corrective Action Program.
D.	Not Applicable	30 TAC §335.165	Compliance Monitoring shall be conducted on Choose an item. basis for the RCRA-regulated units listed in CP Table I.B. which are subject to the Compliance Monitoring Program.
E.	Not Applicable	30 TAC §335.167	Corrective Action monitoring shall be conducted on Choose an item. basis for the solid waste management units (SWMUs) and/or areas of concern (AOCs) listed in CP Table I.C. which are subject to the Corrective Action Program.

Item	**Compliance Schedule** (from the date of issuance of the Compliance Plan unless otherwise specified)	**Regulatory Citation**	**Requirement**
F.1 and F.2.	During the first thirty (30) days of each second quarter	30 TAC §335.151	F.1 For deep zone wells identified in CP Table V and depicted on CP Attachment A, an annual groundwater monitoring (during the first 30 days of each second quarter) shall be performed in accordance with Permit Provision XI and the Sampling and Analysis Plan. F.2 For shallow zone wells listed in CP Table V and as depicted on CP Attachment A semiannual groundwater monitoring (during the first 30 days of each second and fourth quarter) shall be performed in accordance with Permit Provision XI and the Sampling and Analysis Plan. Monitoring results shall be incorporated into the groundwater monitoring report required by CP Table VII.
G.	Not Applicable	30 TAC Section 335.156 and Chapter 350	FOA Corrective Action monitoring shall be conducted on Choose an item. basis for the RCRA-regulated units, SWMUs, and/or AOCs listed in CP Table I.E., which are located within the FOA Boundary and are subject to the Corrective Action Program.
H.	Not Applicable	30 TAC §350.31(g) and §350.33(f) (4)(C)(i)	If a plume management zone (PMZ) has been authorized, submit to the Executive Director proof of compliance with the institutional control requirements which provides notice of the existence and location of the PMZ and which prevents exposure to groundwater from this zone until such a time when the concentrations of the chemicals of concern are less than the groundwater protection standards (GWPS) listed on CP Table III.
I.	Not Applicable	30 TAC §350.33(k)	If a PMZ has been authorized, after an unexpected event occurs which indicates that additional response actions will be required at an affected property.

Notes:

1. Please note that Corrective Action monitoring is conducted on semiannual basis unless a less frequent monitoring schedule is approved based on plume stability and achievement of Corrective Action objectives.

CP FIGURES

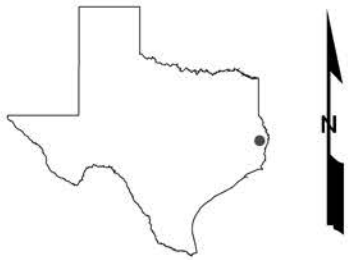


LEGEND

- Facility Property Boundary
- Waste Management Area Boundary
- Hazardous Waste Management Unit (HWMU)
- Solid Waste Management Unit (SWMU)
- Wastewater Treatment Plant
- Pond
- Stream Channel
- Area of Concern

0 500 1,000

Feet



N

IMAGERY SOURCE: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

WESTON SOLUTIONS

CP ATTACHMENT A

SHEET 2 OF 4

FIGURE 2 - RCRA-REGULATED WMU / SWMU

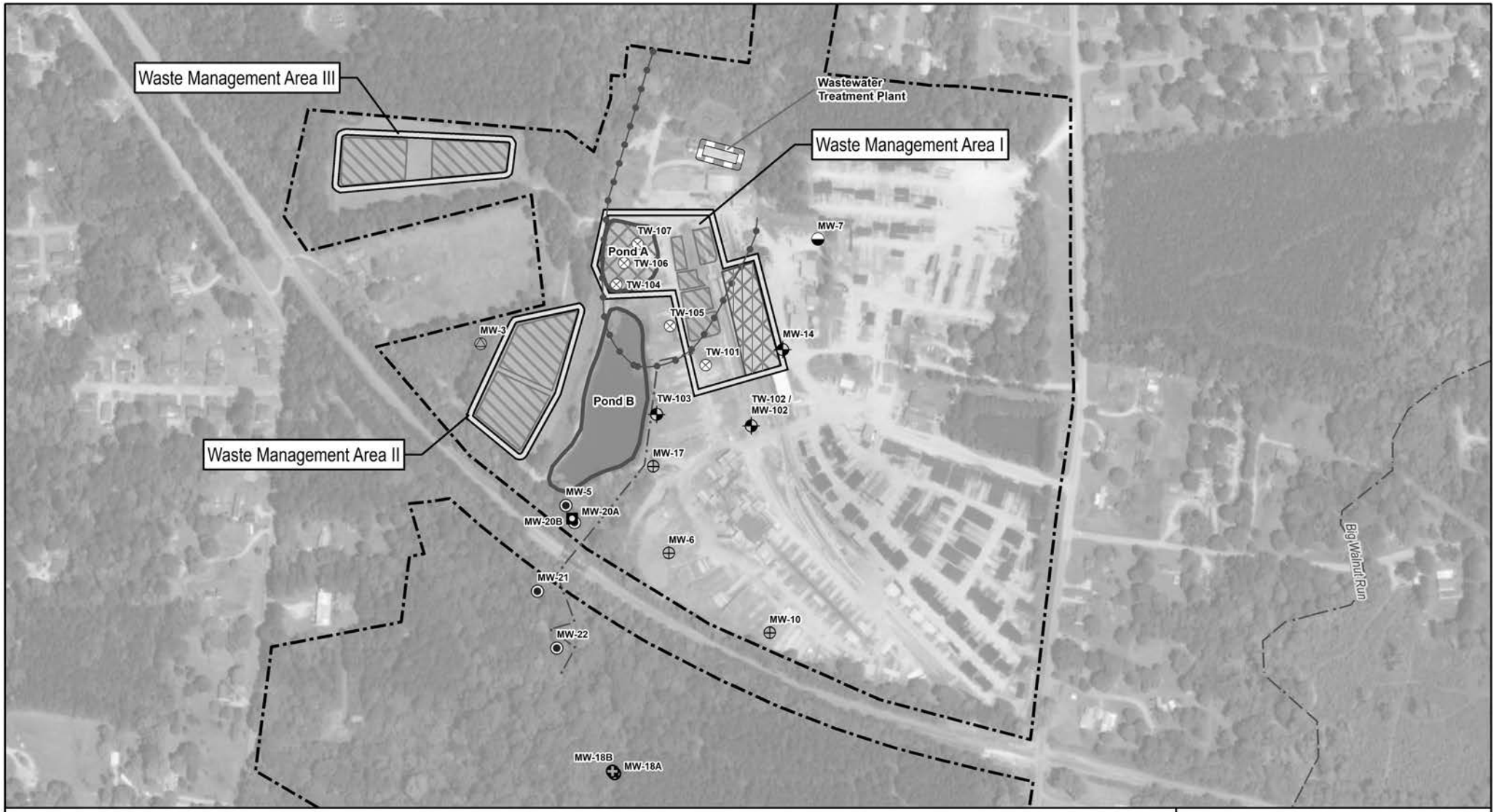
TEXAS ELECTRICAL COOPERATIVES, INC.

RCRA PERMIT NUMBER: HW-50345

JASPER, JASPER COUNTY, TEXAS

DATE	PROJECT NO	SCALE
JUNE 2020	10472.006.001.0001	AS SHOWN

FILE: G:\Commercial\Texas Electrical Coop\Jasper\RCRA_Permit\MXD\Attachment A\20200610\CP Attachment A Figure 2 - RCRA-Regulated SWMU.mxd 1:21:20 PM 6/25/2020 greenr



LEGEND

- Facility Property Boundary
- Hazardous Waste Management Unit (HWMU)
- Solid Waste Management Unit (SWMU)
- Wastewater Treatment Plant
- Pond
- Stream Channel
- Shallow Sand Unit Boundary
- Area of Concern

Shallow Groundwater Well Types

- Background Well
- Corrective Action Observation Well
- Corrective Action System Well
- Observation Well
- Point of Compliance Well
- Point of Exposure Well
- Recovery Well
- Supplemental Well

0 500 1,000

Feet

N

IMAGERY SOURCE: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

WESTON SOLUTIONS

CP ATTACHMENT A

SHEET 3 OF 4

FIGURE 3 - SHALLOW GROUNDWATER MONITORING LOCATIONS

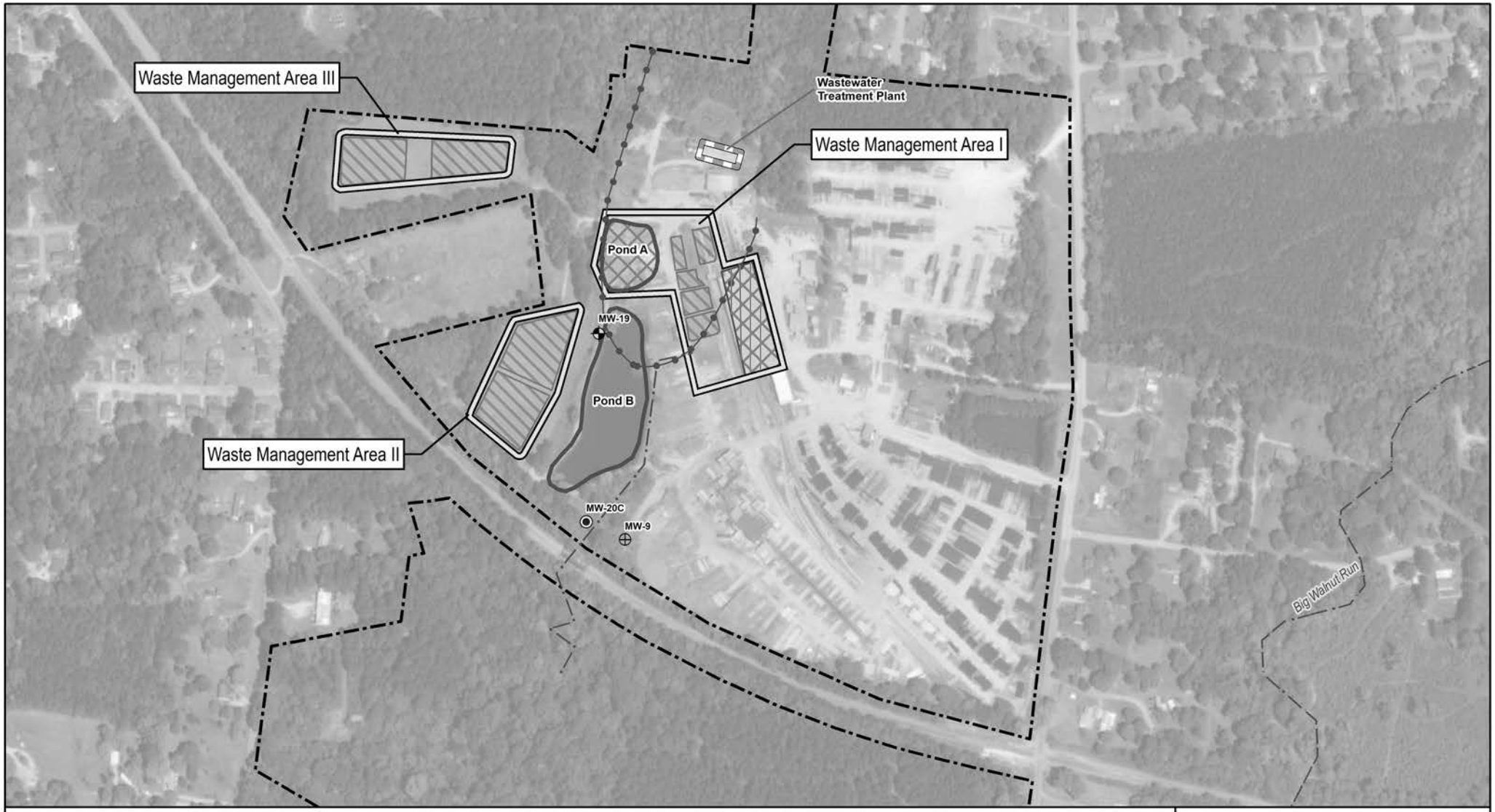
TEXAS ELECTRICAL COOPERATIVES, INC.

RCRA PERMIT NUMBER: HW-50345

JASPER, JASPER COUNTY, TEXAS

DATE	PROJECT NO	SCALE
JUNE 2020	10472.006.001.0001	AS SHOWN

FILE: G:\Commercial\Texas Electrical Coop\Jasper\RCRA_Permit\MXD\Attachment A\20200610\CP Attachment A Figure 3 - Shallow Groundwater Monitoring Locations Map.mxd 1:22:12 PM 6/25/2020 greenr



LEGEND

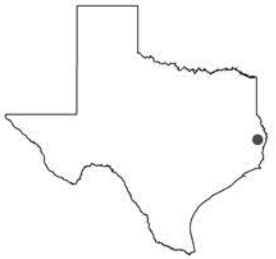
- Facility Property Boundary
- Waste Management Area Boundary
- Hazardous Waste Management Unit (HWMU)
- Solid Waste Management Unit (SWMU)
- Wastewater Treatment Plant
- Pond
- Stream Channel
- Shallow Sand Unit Boundary

Deep Groundwater Well Types

- Point of Compliance Well
- Point of Exposure Well
- Supplemental Well
- Area of Concern

0 500 1,000

Feet



N

IMAGERY SOURCE: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

WESTON SOLUTIONS

CP ATTACHMENT A

SHEET 4 OF 4

FIGURE 4 - DEEP GROUNDWATER MONITORING LOCATIONS

TEXAS ELECTRICAL COOPERATIVES, INC.

RCRA PERMIT NUMBER: HW-50345

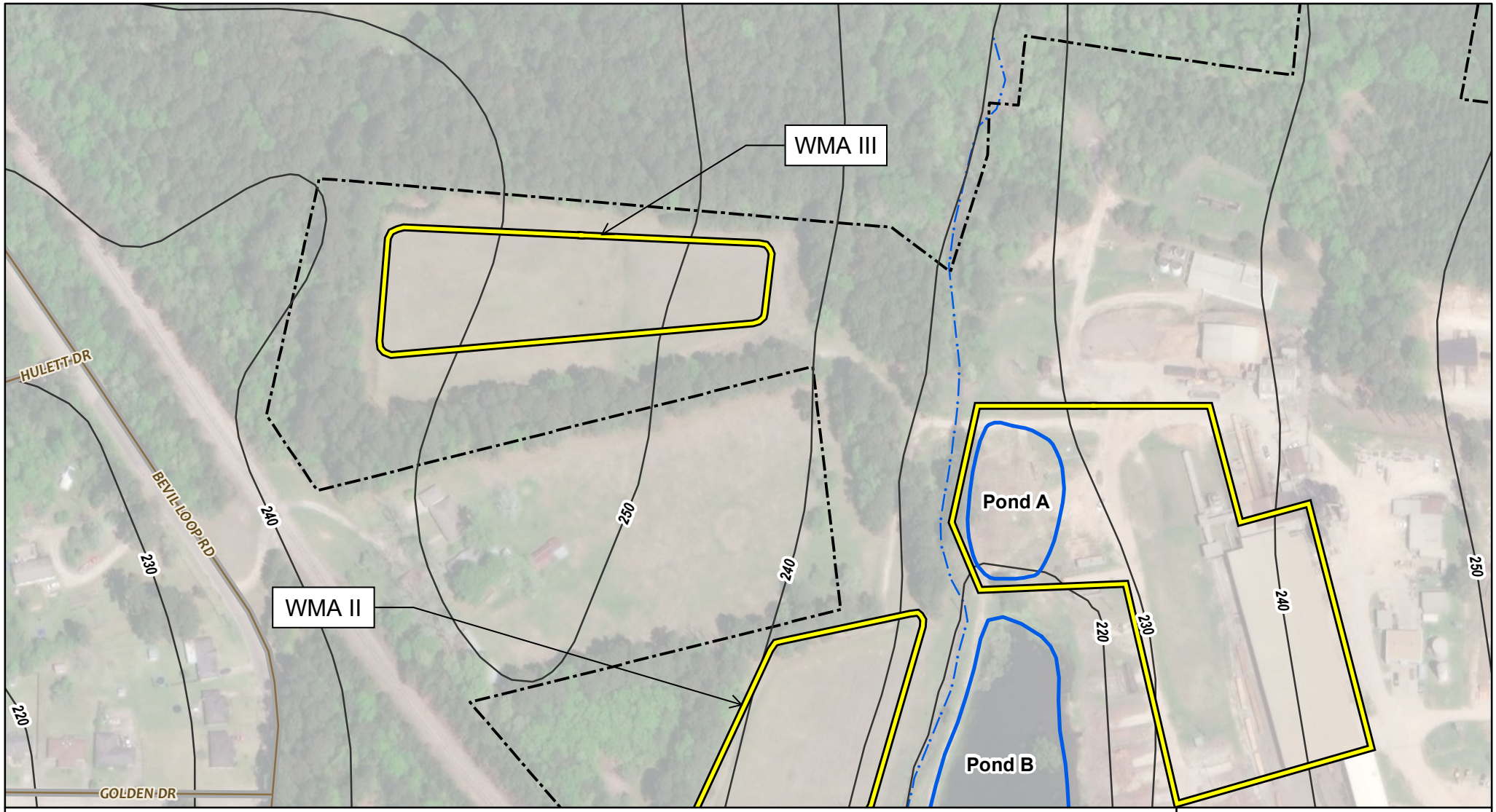
JASPER, JASPER COUNTY, TEXAS

DATE	PROJECT NO	SCALE
JUNE 2020	10472.006.001.0001	AS SHOWN

FILE: G:\Commercial\Texas Electrical Coop\Jasper\RCRA_Permit\MXD\Attachment A\20200610\CP Attachment A Figure 4 - Deep Groundwater Monitoring Locations Map.mxd 1:22:50 PM 6/25/2020 greenr

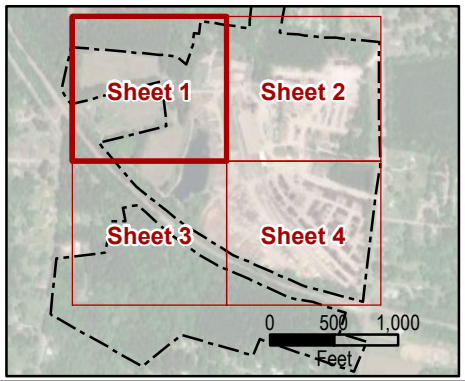
APPENDIX XI.A.1

TOPOGRAPHIC MAPBOOK AND HISTORICAL AERIALS



LEGEND

- Facility Property Boundary
- Topographic Contour Line (Feet AMSL)
- Stream Channel
- Waste Management Area Boundary
- Pond



0 100 200
Feet

N

TOPOGRAPHIC SOURCE: United States Geological Survey (USGS)
IMAGERY SOURCE: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

WESTON SOLUTIONS

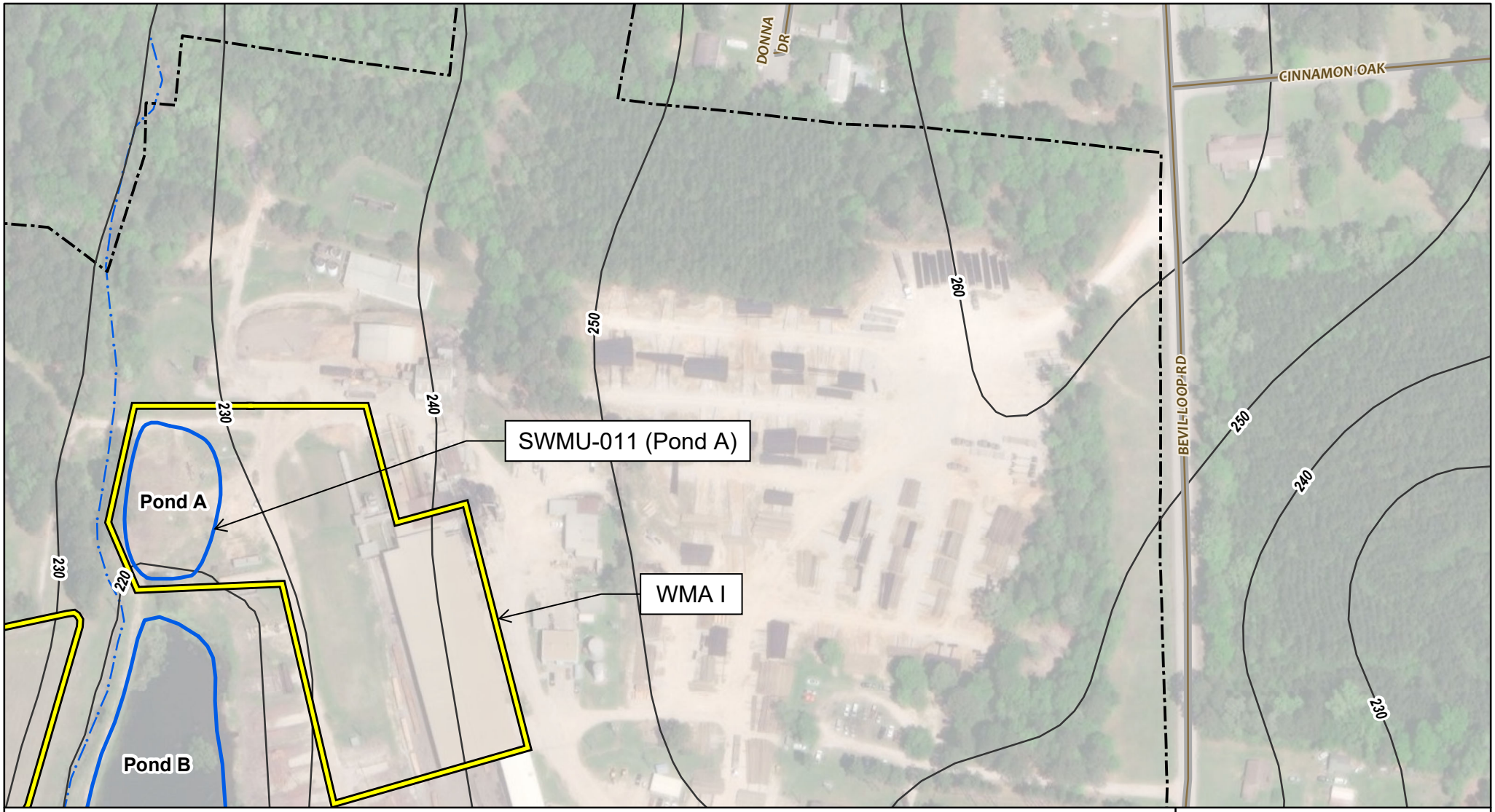
CP APPENDIX XI.A.1

SHEET 1 OF 4

FIGURE 1 - TOPOGRAPHIC MAP
TEXAS ELECTRIC COOPERATIVES, INC.
RCRA PERMIT NUMBER: HW-50345
JASPER, JASPER COUNTY, TEXAS

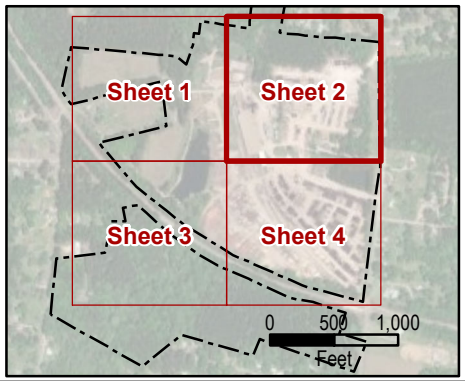
DATE	PROJECT NO	SCALE
MARCH 2025	10472.006.001.0001	AS SHOWN

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LEGEND

- Facility Property Boundary
- Topographic Contour Line (Feet AMSL)
- Stream Channel
- Waste Management Area Boundary
- Pond



0 100 200
Feet

N

TOPOGRAPHIC SOURCE: United States Geological Survey (USGS)
IMAGERY SOURCE: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

WESTON SOLUTIONS

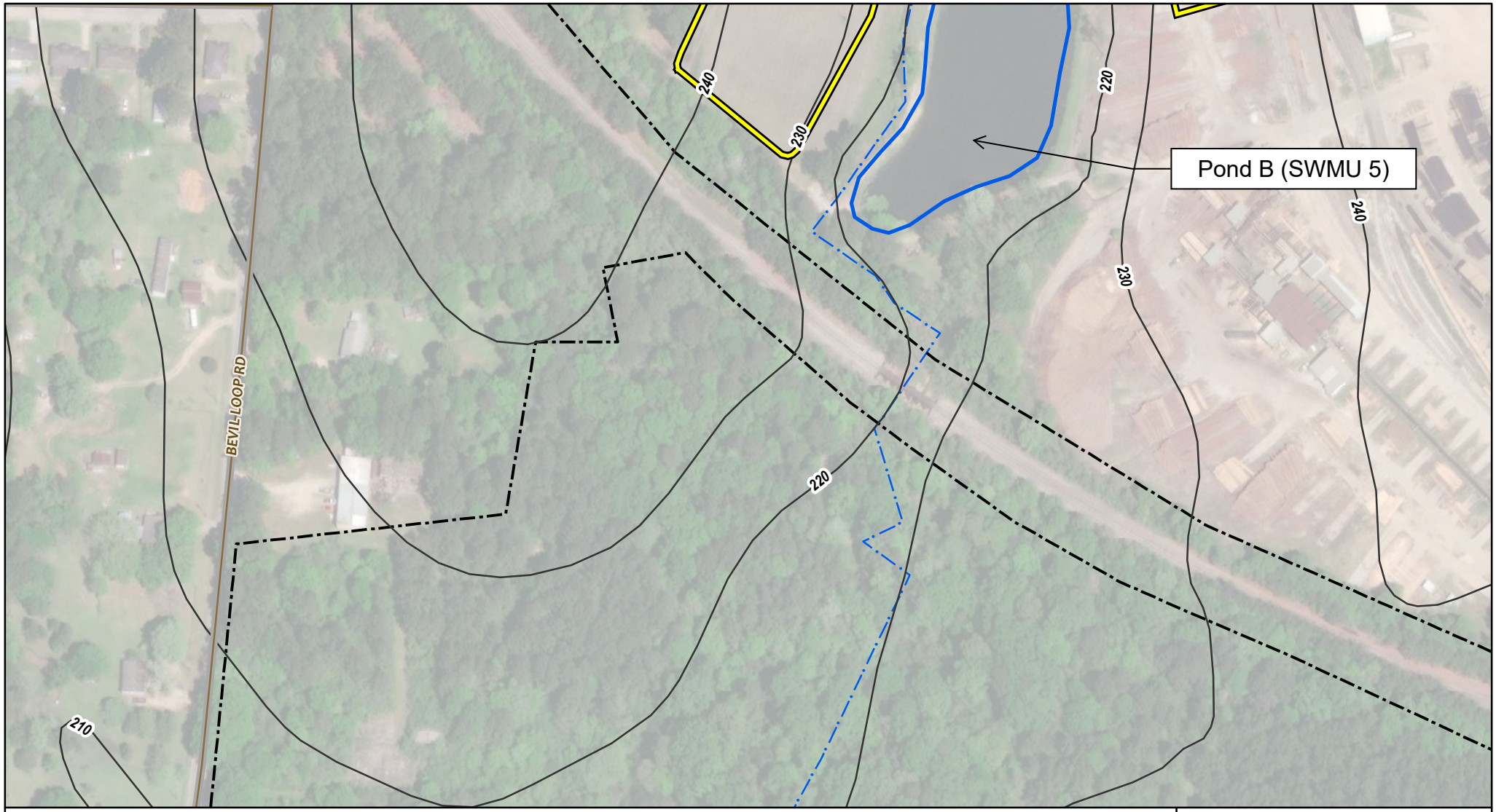
CP APPENDIX XI.A.1

SHEET 2 OF 4

FIGURE 1 - TOPOGRAPHIC MAP
TEXAS ELECTRIC COOPERATIVES, INC.
RCRA PERMIT NUMBER: HW-50345
JASPER, JASPER COUNTY, TEXAS

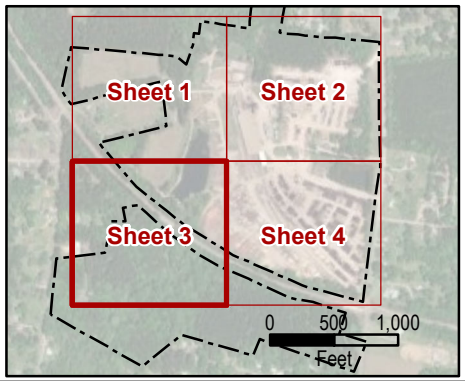
DATE	PROJECT NO	SCALE
MARCH 2025	10472.006.001.0001	AS SHOWN

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LEGEND

- Facility Property Boundary
- Topographic Contour Line (Feet AMSL)
- Stream Channel
- Waste Management Area Boundary
- Pond



0 100 200
Feet

N

TOPOGRAPHIC SOURCE: United States Geological Survey (USGS)
IMAGERY SOURCE: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

WESTON SOLUTIONS

CP APPENDIX XI.A.1

SHEET 3 OF 4

FIGURE 1 - TOPOGRAPHIC MAP
TEXAS ELECTRIC COOPERATIVES, INC.
RCRA PERMIT NUMBER: HW-50345
JASPER, JASPER COUNTY, TEXAS

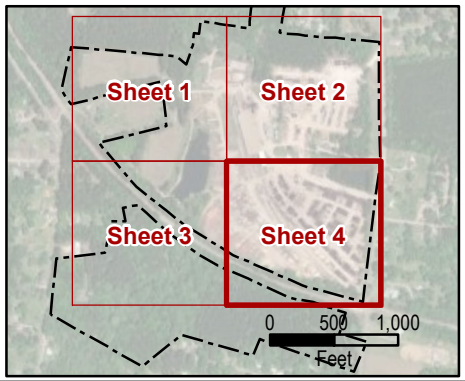
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MARCH 2025	10472.006.001.0001	AS SHOWN

FILE: G:\Commercial\Texas Electrical Coop\Jasper\RCRA_Permit\mxd\Attachment A\20200610\CP Attachment XI.A1 Figure 3 - Topographic Mapbook.mxd 10:42:20 AM 3/5/2025 letartes



LEGEND

- Facility Property Boundary
- Topographic Contour Line (Feet AMSL)
- Stream Channel
- Waste Management Area Boundary
- Pond



0 100 200
Feet

N

TOPOGRAPHIC SOURCE: United States Geological Survey (USGS)
IMAGERY SOURCE: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

WESTON SOLUTIONS

CP APPENDIX XI.A.1

SHEET 4 OF 4

FIGURE 1 - TOPOGRAPHIC MAP
TEXAS ELECTRIC COOPERATIVES, INC.
RCRA PERMIT NUMBER: HW-50345
JASPER, JASPER COUNTY, TEXAS

DATE	PROJECT NO	SCALE
MARCH 2025	10472.006.001.0001	AS SHOWN

FILE: G:\Commercial\Texas Electrical Coop\Jasper\RCRA_Permit\mxd\Attachment A\20200610\CP Attachment XI.A1 Figure 3 - Topographic Mapbook.mxd 10:42:30 AM 3/5/2025 letartes



LEGEND

- Facility Boundary
- Former Surface Impoundment/Hazardous Waste Management Area
- Pond
- Area of Concern

N

0 350 700

Feet

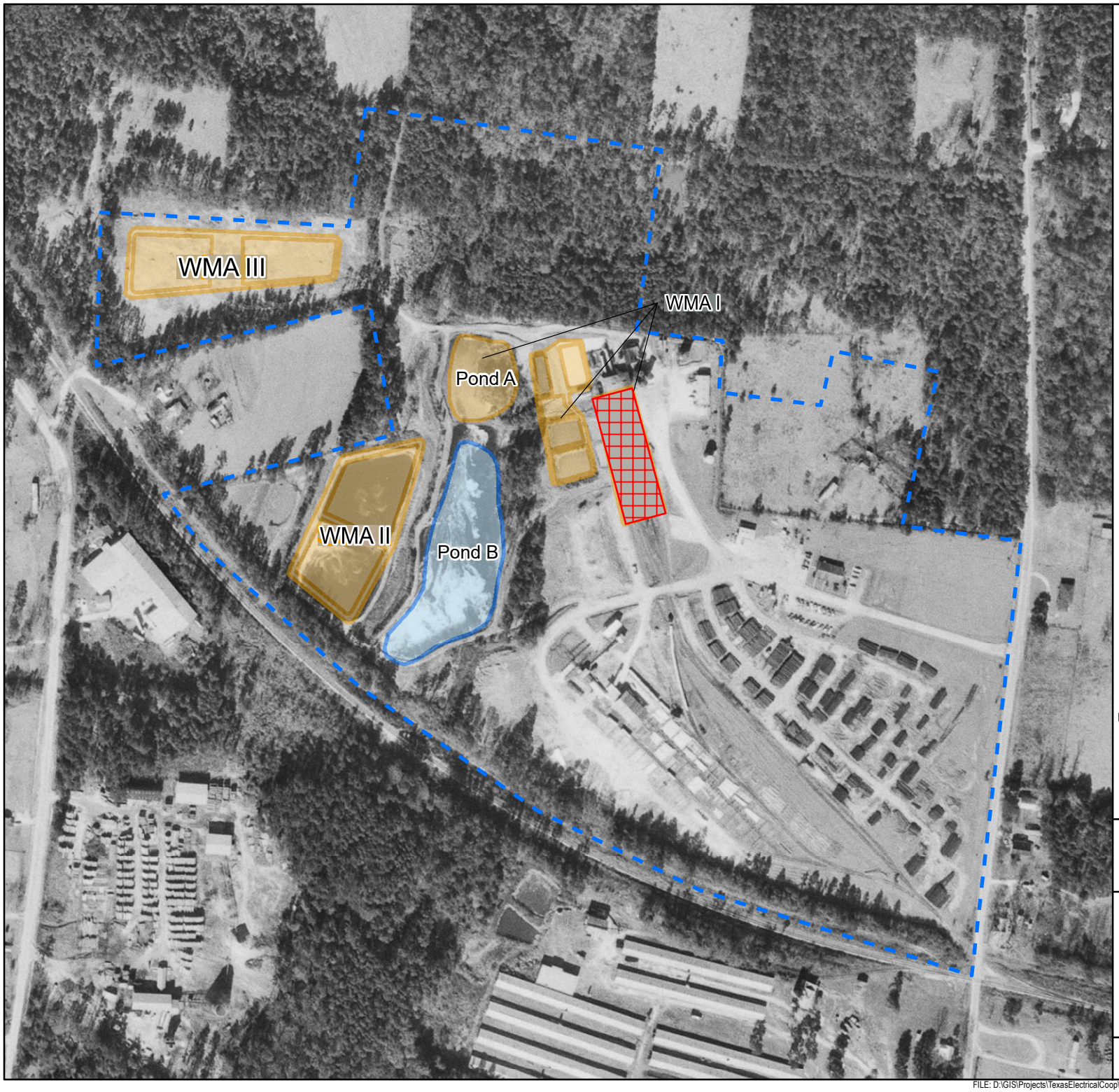
SOURCE: EarthLink Aerial Imagery; November 21, 1952

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ATTACHMENT XI.A.1 FIGURE 2
HISTORICAL AERIAL IMAGERY (1952)
TEXAS ELECTRIC COOPERATIVES, INC.
RCRA PERMIT NUMBER: HW-50345
JASPER, TEXAS

DATE	PROJECT NO	SCALE
DEC 2019	10472.003.013.0003	AS SHOWN

FILE: D:\GIS\Projects\TexasElectricalCoop\Maps\XI.A.1 Figure 1 - Historical Aerial Imagery 1952.mxd 5:04:29 PM 12/9/2019 baye



LEGEND

- Facility Boundary
- Former Surface Impoundment/Hazardous Waste Management Area
- Pond
- Area of Concern

N

0 350 700

Feet

SOURCE: EarthLink Aerial Imagery; January 9, 1976

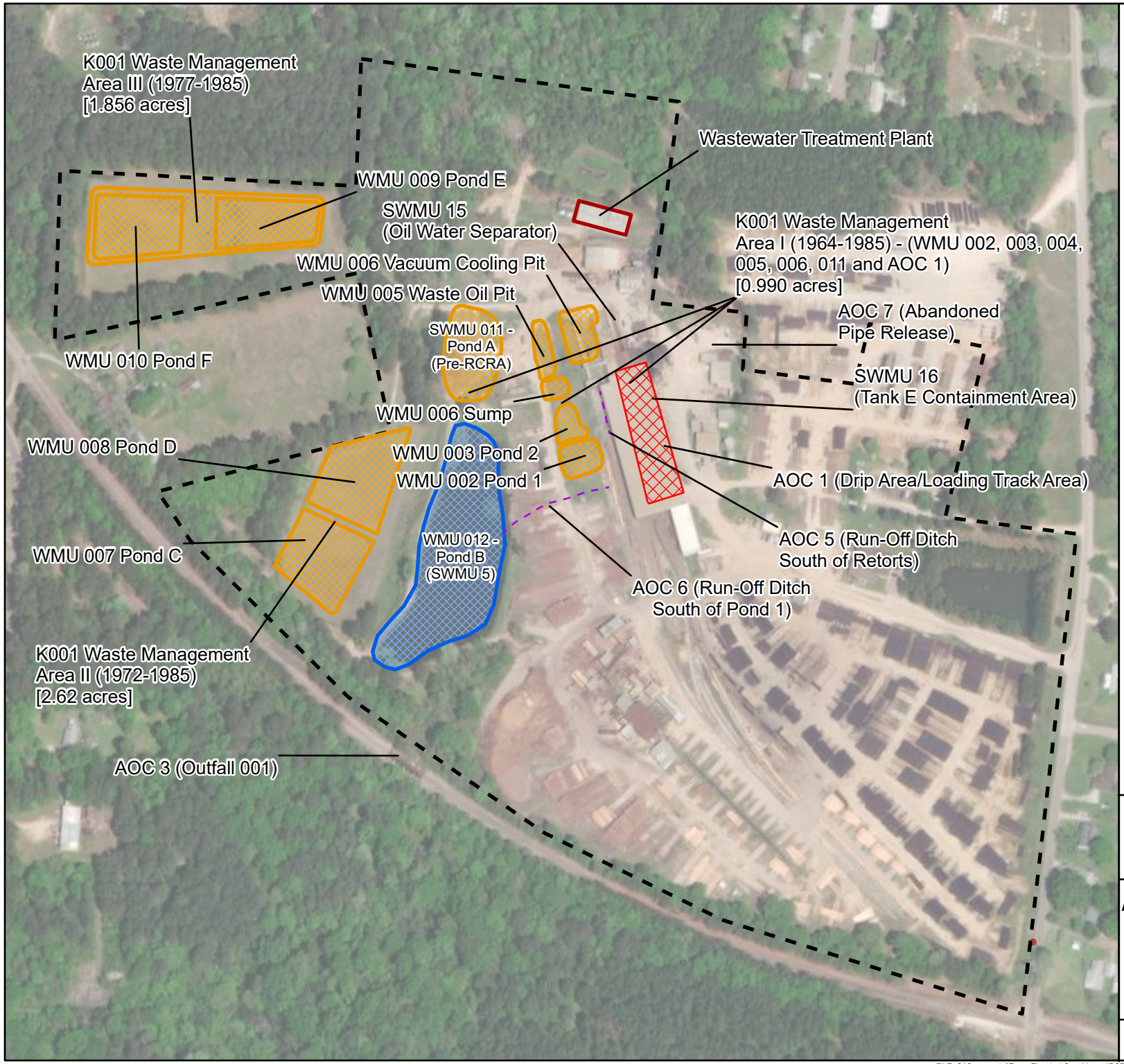
ATTACHMENT XI.A.1 FIGURE 2
HISTORICAL AERIAL IMAGERY (1976)
TEXAS ELECTRIC COOPERATIVES, INC.
RCRA PERMIT NUMBER: HW-50345
JASPER, TEXAS

DATE	PROJECT NO	SCALE
DEC 2019	10472.003.013.0003	AS SHOWN

FILE: D:\GIS\Projects\TexasElectricalCoop\Maps\XI.A.1 Figure 2 - Historical Aerial Imagery 1976.mxd 5:06:18 PM 12/9/2019 baye

APPENDIX XI.A.2-1

FIGURE 1 WMU MAP



LEGEND

- Wastewater Treatment Plant (Operated by Stella Jones and not RCRA regulated)
- Facility Boundary
- Pond
- Former Surface Impoundment
- Area of Concern
- Ditch

N

0 500

Feet

SOURCE: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community©

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APPENDIX XI.A.2 - FIGURE 1

FACILITY WASTE MANAGEMENT UNIT MAP

TEXAS ELECTRIC COOPERATIVES, INC.

RCRA PERMIT NUMBER: HW-50345

JASPER, JASPER COUNTY, TEXAS

DATE	PROJECT NO	SCALE
FEBRUARY 2025	10472.006.001.0001	AS SHOWN

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APPENDIX XI.A.2-2

DETECTION MONITORING EXIT JUSTIFICATION REPORT

Koch, Nancy

From: Charles Brown [redacted]
Sent: Thursday, October 31, 2024 8:53 AM
To: Archie Lopez [redacted]
Cc: Henke, Jeff; Koch, Nancy
Subject: RE: Request to Terminate Detection Monitoring Program, TEC Jasper (IHW50345), Tracking No. 29833721

***** External Message *** -- PROBE message before clicking links or opening attachments.**

Mr. Archie Lopez
Texas Electric Cooperatives
100 Cooperative Way
Georgetown, Texas 78626

Re: Request to Terminate Detection Monitoring Program
Texas Electric Cooperatives, Inc. – Jasper, Jasper County
Hazardous Waste Permit No. 50345
Industrial Solid Waste Registration No. 31340
EPA Identification No. TXD041468836
Communication Tracking No. 29833721; RN101898948/CN600128243

Dear Mr. Lopez:

The Industrial and Hazardous Waste (IHW) Permits Section of the Texas Commission on Environmental Quality reviewed the Detection Monitoring Exit Justification Report, dated May 29, 2024, addressing the cessation of groundwater detection monitoring activities at Waste Management Areas (WMAs) II and III. The information provided in the report is sufficient to justify the termination of groundwater detection monitoring. Texas Electric Cooperative, Inc. should now submit a permit modification request to remove the detection monitoring requirements from the permit. The request should include all information necessary for TCEQ to make a determination on the suitability of the request. Such information must include, but is not limited to, all information and supporting documentation and data included in the justification report.

Please be aware that it is the continuing obligation of persons associated with a site to ensure that the WMAs are managed in a manner which does not cause the discharge or imminent threat of discharge of waste into or adjacent to waters in the state, a nuisance, or the endangerment of the public health and welfare as required by 30 TAC §335.4. In addition, the permittee is required to comply with conditions of the permit until such time as the permit is modified.

Should you have any questions, please contact Mr. Charles Brown of the IHW Permits Section by phone at (512) 239-6234, by email at [redacted] or at the letterhead address provided in the correspondence. If you respond in writing, please include mail code MC 130 in the mailing address.

Charles Brown, P.G.
Work Lead, Industrial and Hazardous Waste Section
Waste Permits Division (MC130)
Texas Commission on Environmental Quality
(512) 239-6234
[redacted]
www.tceq.texas.gov/goto/customersurvey

CAUTION: This email originated outside of the organization. **DO NOT CLICK** links or open attachments unless you recognize the sender and know the content is safe.

Weston Solutions, Inc.
5301 Southwest Parkway, Suite 450
Austin, TX, 78735
512-651-7100
WestonSolutions.com

29 May 2024

Mr. Mario Perez
Texas Commission on Environmental Quality
Industrial and Hazardous Waste Permits Section
Waste Permits Division
12100 Park 35 Circle, Building D, MC-130
Austin, TX 78753

Re: Transmittal of Detection Monitoring Program Exit Justification Report,
Waste Management Areas II and III,
Texas Electric Cooperatives, Inc.,
Jasper, Texas, IHW Permit HW-50345, SWR 31340

Dear Mr. Perez:

Weston Solutions, Inc. (WESTON®), on behalf of our client Texas Electric Cooperatives, Inc. (TEC), is pleased to submit the attached Detection Monitoring Program Exit Justification Report for Waste Management Areas (WMAs) II and III at the Post Closure Care facility owned and operated by TEC. The report presents the technical justification argument for exiting the Detection Monitoring Program for WMA II and III at TEC-Jasper, as currently defined in Industrial Hazardous Waste Permit HW-50345.

Please contact me at (512) 775-1065 or [redacted] should you have any questions.

Sincerely,
Weston Solutions, Inc.

Jeffrey R. Henke, P.G.
Principal Project Manager

Attachment

cc: Charles Brown, TCEQ-IHW Permits (electronic)
Joy Archuleta, TCEQ- IHW Permits (electronic)
Rachel Vander Nat, TCEQ – Corrective Action (electronic)
Archie Lopez, Texas Electric Cooperatives, Inc.

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DETECTION MONITORING PROGRAM EXIT JUSTIFICATION REPORT
WASTE MANAGEMENT AREAS II AND III
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS
IHW PERMIT HW-50345
SWR 31340

Prepared for:

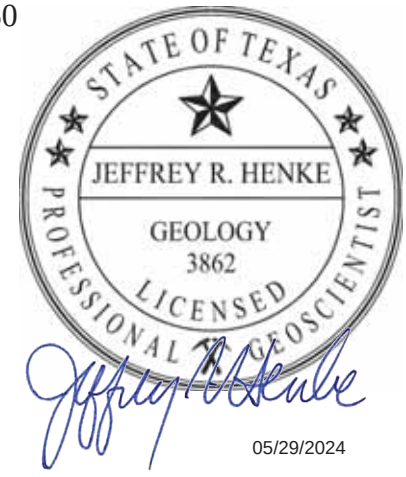
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
12100 Park 35 Circle
Austin, TX 78753

On behalf of:

TEXAS ELECTRIC COOPERATIVES
100 Cooperative Way
Georgetown, TX 78626

Prepared by:

WESTON SOLUTIONS, INC.
5301 Southwest Parkway, Suite 450
Austin, TX 78735



May 2024

W.O. No. 10472.003.024

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LIST OF ACRONYMS AND ABBREVIATIONS

§	Part
%	percent
3D	three-dimensional
amsl	above mean sea level
ANOVA	analysis of variance
AOC	Area of Concern
APAR	Affected Property Assessment Report
bgs	below ground surface
CFR	Code of Federal Regulations
CL	Concentration Limit
CMI	Corrective Measures Implementation
COC	chemical of concern
CP	Compliance Plan
DMP	Detection Monitoring Program
EPA	U.S. Environmental Protection Agency
ft	foot (feet)
ft/day	feet per day
ft/ft	feet per foot
gpd	gallons per day
gpm	gallons per minute
GWBU	Groundwater Bearing Unit
HDPE	High-Density Polyethylene
IHW	Industrial Hazardous Waste
K-W	Kruskal-Wallis
LDR	Land Disposal Restrictions
MDL	Method Detection Limit
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
Mil	one thousandth of one inch
M-K	Mann -Kendall
MW	Monitor Well
NA	Not Applicable
No.	Number
PAH	polycyclic aromatic hydrocarbon
PC/CA Facility	Post-Closure Care and Corrective Action Facility
pH	hydrogen ion concentration
POC	Point-Of-Compliance
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RL	Reporting Limit
SJC	Stella-Jones Corporation
SSI	statistically significant increase
SWMU	Solid Waste Management Unit
SWR	Solid Waste Registration
TCEQ	Texas Commission on Environmental Quality
TEC	Texas Electric Cooperatives, Inc.
TNRCC	Texas Natural Resource Conservation Commission

LIST OF ACRONYMS AND ABBREVIATIONS (CONTINUED)

TOC	Total Organic Carbon
TOX	Total Organic Halogens
TRRP	Texas Risk Reduction Program
T-W	Tarone-Ware
TWC	Texas Water Commission
TWDB	Texas Water Development Board
UTBEG	The University of Texas - Bureau of Economic Geology
WESTON®	Weston Solutions, Inc.
WMA	Waste Management Area

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EXECUTIVE SUMMARY

Weston Solutions, Inc. (WESTON®) prepared this report on behalf of Texas Electric Cooperatives, Inc. (TEC) to provide justification toward exiting the Detection Monitoring Program (DMP) requirements for Waste Management Areas (WMAs) II and III at the wood preservation facility formerly owned by TEC, in Jasper, Texas (Site) (Solid Waste Registration [SWR] Number [No.] 31340).

Between the 1970s and 1985, TEC owned and operated the four RCRA-regulated surface impoundments that later comprised WMAs II and III to treat/store bottom sediment sludge from wastewaters generated from a wood preserving process that used coal-tar based creosote. Surface impoundment closure activities commenced in October 1990. Closure details for WMA II and WMA III are described in the *Surface Impoundment Closure Report and Certification* (J&N, 1991), which was submitted to the Texas Water Commission (TWC) on 27 June 1991. In a letter dated 11 June 1993, TWC acknowledged the 1991 *Surface Impoundment Closure Report and Certification*, stating that the units were closed in accordance with the approved Closure Plan (TWC, 1993). The Post-Closure Care period for WMAs II and III began on the date of approval of the Certified Closure (27 June 1991). Therefore, the earliest date that the Post-Closure Care period could end was 27 June 2021, as listed in Permit Table VII.G.

The initial Industrial Hazardous Waste (IHW) Permit HW-50345 (the Permit) regulating Post-Closure Care at the WMAs was issued by the Texas Natural Resource Conservation Commission (TNRCC)—predecessor to the Texas Commission on Environmental Quality (TCEQ)—on 11 June 1999, and WMAs II and III have been subject to the Groundwater Detection Monitoring provisions of the Permit since that time. The Permit provides details on Groundwater Detection Monitoring in Section VI and Closure and Post-Closure Care Requirements in Section VII.

Based on a discussion with the TCEQ Waste Permits Division on 31 August 2022, and using the TCEQ-recommended U.S. Environmental Protection Agency (EPA) guidance document titled *Guidelines for Evaluating the Post-Closure Care Period for Hazardous Waste Disposal Facilities Under Subtitle C of RCRA* (U.S. EPA, 2016), TEC and WESTON have developed a technical justification argument for exiting the DMP. The primary consideration in the EPA guidance is the uncertainty related to the long-term presence of hazardous waste in a Post-Closure Care facility. Thus, termination requires an adequate demonstration that site-specific conditions minimize the risk of contaminant migration from the closed unit that would result in an unacceptable risk to human health and the environment.

This Detection Monitoring Program Exit Justification Report (DMP Exit Report) demonstrates that the Post-Closure Care termination requirements outlined in the Permit and the EPA guidance have been fulfilled through the following lines of evidence:

- Complete compliance with the monitoring frequency, testing, and analytical procedures laid out in the Permit over a period of more than 30 years since Closure Certification.

- Complete compliance with the Post-Closure Care inspection requirements to ensure the ongoing integrity of the compacted clay cap material and monitoring infrastructure within WMAs II and III.

- Semi-annual groundwater elevation data from the past 30-plus years that exhibit stability and consistency in the interpreted direction of groundwater flow and hydraulic gradient relative to the waste boundaries and the monitoring well network. This data record includes 23 consecutive years of uninterrupted semi-annual monitoring data (since the initial Post-Closure Care Permit was issued by TNRCC in 1999), plus more than seven prior years of intermittent groundwater investigation and monitoring data as TEC commenced its Resource Conservation and Recovery Act (RCRA) closure program and prepared their initial RCRA Part A and Part B Applications. The consistency of the groundwater flow direction at WMA II and WMA III strongly supports TEC's position that the background and Point-of-Compliance (POC) monitoring wells were designated appropriately to comply with the Permit requirements throughout the Post-Closure Care period and have remained appropriately positioned for that purpose, such that a release of chemicals of concern to the upper groundwater bearing zone, if any, would have been readily and timely detected in the DMP monitoring well network.

- A data record of more than 30 years of groundwater sampling and analysis for creosote constituents and/or indicator/surrogate analytes of them, including 23 consecutive years of uninterrupted semi-annual analytical data (since the initial Post-Closure Care Permit was issued by TNRCC in 1999), plus more than seven prior years of intermittent groundwater investigation and monitoring data as TEC commenced its RCRA closure program and prepared its initial RCRA Part A and Part B Applications. These data all indicate that no release or even a suggestion of a release has occurred since TEC physically closed the wastewater ponds that now constitute WMA II and WMA III in 1991. Groundwater data collected in the pond areas before the actual pond closures, dating back to the 1980s, also indicate that no release occurred during the operational years of those ponds. Formal statistical analysis of the semi-annual groundwater analytical data collected from 2003 to 2023 strongly demonstrates that a statistically significant increase (SSI) has not occurred since the inception of Post-Closure Care monitoring program.

- Favorable geologic and buried waste conditions that support long-term future protection against releases with high certainty, including:

    - The robust method of waste stabilization used during closure;

- The use of a geosynthetic waste containment system, consisting of a high-density polyethylene (HDPE) liner and cap during closure and capping;
- Well-executed and well-documented clay capping during closure;
- The protectiveness of the native geologic strata beneath and laterally adjacent to the waste cells; and
- The relatively insoluble, immobile, and biodegradable nature of the chemicals in the waste.

This report provides unequivocal evidence that the termination of the DMP as currently required in the Post-Closure Permit for WMA II and WMA III is justified and warranted. The termination of the DMP will not substantively alter the environmental and human health risk of the site. Termination of the monthly WMA II and WMA III cap inspections and maintenance requirements, or of the annual reporting requirements under the Permit, are not proposed.

TEC therefore requests TCEQ's approval to terminate the DMP monitoring and reporting requirements based on the information in this report. TEC recognizes that a program termination would require a Post-Closure Care Permit modification (Class 2 Mod), which TEC would prepare and submit following TCEQ approval of program termination. Program activities would not cease until the Permit modification application is issued by TCEQ.

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1. INTRODUCTION

1.1 PURPOSE

Weston Solutions, Inc. (WESTON®) prepared this report on behalf of Texas Electric Cooperatives, Inc. (TEC) to provide justification and evidence in support of exiting the DMP requirements for WMAs II and III at the Hazardous Waste Post-Closure Care and Corrective Action Facility (PC/CA Facility), in Jasper, Texas (Site) (Solid Waste Registration [SWR] Number [No.] 31340).

TEC previously owned and operated the wood preservation facility on the 57-acre property located at 2100 Bevil Loop in Jasper, Texas. The facility opened in 1964 to pressure-treat wooden poles with coal tar-based creosote for the electrical distribution industry. TEC sold the wood preservation facility manufacturing operations and associated buildings, structures, and other improvements to Stella-Jones Corporation (SJC) on November 1, 2022, but remains the owner of the real property and the permittee of Texas Commission on Environmental Quality (TCEQ) Industrial and Hazardous Waste (IHW) Permit HW-50345 and Compliance Plan (CP) CP-50345 for the PC/CA Facility. The initial Permit regulating the WMAs was issued by the Texas Natural Resource Conservation Commission (TNRCC)—predecessor to TCEQ—on 11 June 1999 and was subsequently renewed by the TCEQ on 26 August 2010 and 29 December 2020 (TCEQ, 2020). The Permit requires semi-annual Detection Monitoring (see Section VI of the Permit) and annual reporting for WMAs II and III at the PC/CA Facility. The Permit also prescribes Post-Closure Care measures for WMAs II and III (see Section VII of the Permit).

TEC contracts with SJC to provide permit compliance assistance by conducting monthly inspections of the WMA caps, fences, signage, and other permit-required activities. TEC manages and interprets the collected data and implements necessary repairs and improvements to ensure compliance with the Permit.

1.2 REPORT ORGANIZATION

This report is organized as follows:

- Section 1 – Introduction
- Section 2 – Site Background
- Section 3 – Geologic and Hydrogeologic Setting
- Section 4 – Post-Closure Care Information Review
- Section 5 – Summary and Conclusions
- Section 6 – References

1.3 REGULATORY CONTEXT

The management and compliance monitoring of hazardous waste facilities is based on U.S. Environmental Protection Agency (EPA) regulations under Subtitle C of RCRA, established in 1976. The EPA promulgated regulations governing the closure and post-closure care of closed landfills containing hazardous waste in 1982 and revised these regulations in 1998 to implement the Post-Closure Rule. Closure requirements for landfills containing hazardous waste are provided in Title 40 of the Code of Federal Regulations (CFR) Part 264 (for permitted facilities) and Part 265 (for interim status facilities).

Texas has had State Authorization under RCRA since 1984, which delegates the primary responsibility of implementing RCRA programs to the State. The TCEQ (and its predecessors) have enforced the applicable hazardous waste and post-closure regulations that apply to WMAs II and III via the Post-Closure Care Permit (and prior action such as the 1994 Agreed Order) under authority from the EPA granted through the State Authorization rule. This section summarizes the specific Post-Closure Care requirements for WMAs II and III under the Permit and identifies the Post-Closure Care evaluation criteria and factors that support ending the Post-Closure Care period for closed landfills.

1.4 STATE REGULATORY CONTEXT

Section VII(B) of the Permit states that "the permittee shall conduct post-closure care of the unit[s] for a period of at least thirty years after certification of closure of each respective unit" (TCEQ, 2020). A Certification of Closure was provided for WMAs II and III in the *Surface Impoundment Closure Report and Certification* report dated 27 June 1991 (J&N, 1991). The Certification of Closure was acknowledged by the TWC as having been conducted in accordance with the approved Closure Plan in the letter dated 11 June 1993 (TWC, 1993). Thus, based on the Certification date, the earliest date to terminate the Post-Closure Care period was 27 June 2021.

Discontinuation of the DMP is allowed after the Post-Closure Care period has expired and no evidence of an SSI of DMP parameters has been confirmed, as described in Provision VI.C.3 of the Permit.

Per Permit Provision VI.C.3, a final report to discontinue the DMP must be submitted to the TCEQ with detailed information listed in Section VI.G of the Permit. Such information has been included in annual detection monitoring reports for WMAs II and III submitted to the TCEQ by WESTON since 2003. **Table 1-1** below lists the information required by Permit Section VI.G and indicates where the respective information is discussed in this report.

Table 1-1 Required Reporting Elements Listed in Permit Provision VI.G.

Reporting Requirement	Report Section Discussed	Findings Overview
SSI Determination and Results	Groundwater analytical results and SSI determination are discussed in **Section 4.1**.	No SSIs have been documented during Detection Monitoring at the Site.
Monitoring, Testing, and Analytical Results	The groundwater monitoring program is discussed in **Section 4.1**. Groundwater analytical results are presented in **Tables 4-1** and **4-2**.	No SSIs have been documented during Detection Monitoring at the Site.
Groundwater Flow Direction and Rate in Upper GWBU	Groundwater gradient and velocity are discussed in **Section 3.3**, and groundwater elevations and flow velocities are presented in **Tables 3-1** and **3-2**, respectively. Groundwater potentiometric surface maps for October and April 2023 are included as **Figures 3-5** and **3-6,** respectively. Historical potentiometric maps are included in **Attachment 5**.	Groundwater flow direction has remained consistent to the south/southwest at the Site during Detection Monitoring.
Piezometric Water Levels	Piezometric water levels are discussed in **Section 3.3**, and historical groundwater elevation data are provided in **Table 3-1**.	Groundwater flow direction in the vicinity of WMAs II and III has remained consistent to the south/southwest at the Site during Detection Monitoring.
Recommendations	No recommendations are made in this report beyond the exiting of Detection Monitoring.	NA
Other Items	NA	NA

Notes:
GWBU – Groundwater Bearing Unit
NA – Not Applicable
SSI – Statistically Significant Increase

1.5 FEDERAL REGULATORY CONTEXT

During a conference call with TCEQ Waste Permits personnel on 31 August 2022, the TCEQ recommended that TEC follow the 2016 EPA Guidance Memorandum *Guidelines for Evaluating the Post-Closure Care Period for Hazardous Waste Disposal Facilities under Subtitle C of RCRA* (U.S. EPA, 2016) to demonstrate justification for termination or reduction of the Site's Post-Closure Care period. The EPA guidance indicates that it should be used to evaluate the effectiveness of containment measures, waste treatment, setting (with respect to geologic and hydrologic features), and Post-Closure Care practices. These evaluation criteria and descriptive summaries developed from the EPA guidance are summarized in **Table 1-2** below. The Site-specific conditions and factors that support termination of Post-Closure Care for WMAs II and III are discussed in-depth in the following report sections and are summarized in **Section 4** in comparison to these same criteria.

The EPA criteria are used to evaluate whether it is appropriate to end the Post-Closure Care period based on site-specific characteristics and analytical data. Any decision to end (or adjust)

Post-Closure Care must ensure ongoing protection of human health and the environment. According to the EPA guidance, the primary consideration in such an evaluation is the uncertainty related to the long-term presence of hazardous waste in the landfill. Accordingly, TEC demonstrates in this report that Site-specific conditions minimize the risk of contaminant migration from the closed landfill unit that would result in an unacceptable risk to human health and the environment. Demonstrating that site-specific conditions minimize that risk is accomplished by showing that there is minimal risk that contaminants will migrate from the waste unit, or, in the event of an engineering controls fail, that a release would not pose an unacceptable risk to human health and the environment.

Table 1-2 Criteria for Evaluating the Post-Closure Care Period (after U.S. EPA, 2016)

Evaluation Criteria	Descriptive Summary
Waste Treatment	Groundwater protection can be achieved through institutional controls, waste treatment to reduce toxicity, and/or stabilization (e.g., chemical or physical solidification). Treating hazardous waste in accordance with the Land Disposal Restrictions (LDR) program standards is a key evaluation parameter.
Nature of Hazardous Waste Remaining in the Unit	Properties of the hazardous waste, such as degradation, solubility, and liquid-to-solid ratio, are important indicators of the waste's ability to migrate or disperse in the environment.
Unit Type and Design	Type of waste unit (e.g., landfill, surface impoundment, closed tank) and the construction/design of the unit determine the unit's ability to contain the hazardous waste.
Leachate Monitoring	Leachate monitoring is an effective way to determine the integrity of the WMA. A facility's leachate hazardous constituent concentrations are considered when evaluating Post-Closure Care.
Groundwater	Groundwater monitoring is the primary means of release detection. The integrity of the groundwater monitoring networks, including well placement and flow direction, well constructions, and sample results are considered when evaluating Post-Closure Care.
Siting and Site Geology and Hydrogeology	Relevant facility location characteristics such as wetlands, faults/seismic activity, distance to drinking water sources, and nearby residences are considered when evaluating Post-Closure Care.
Facility History	A facility's history with environmental compliance, record keeping, and management practices are considered when evaluating Post-Closure Care.
Gas Collection System Integrity	For units with gas collection systems, the emissions potential of the system should it shut down are considered when evaluating Post-Closure Care.
Integrity of Cover System	The integrity and construction of the containment structure is the most important mechanism to prevent a release. The cover system may be compromised after terminating Post-Closure Care; therefore, the performance during the Post-Closure Care period is evaluated.
Long-Term Care	Long-Term Care evaluation criteria includes the establishment and maintenance of physical and legal controls that prevent unacceptable exposure risk to waste sites. Engineering controls and institutional controls are evaluated and considered in the Long-Term Care evaluation criteria.

2. SITE BACKGROUND

This section includes a summary of the PC/CA Facility's history and operations; previous environmental investigations; Site chronology, compliance, and permitting; and nature of the waste enclosed in and the construction of WMAs II and III. While the focus of this DMP Exit Justification Report is WMAs II and III, information collected as part of the WMA I corrective action is also presented where it relates to overall Site conditions.

2.1 SITE HISTORY AND OPERATIONS

TEC previously owned and operated the wood preservation facility on the 57-acre property located at 2100 Bevil Loop in Jasper, Texas. TEC sold the wood preservation manufacturing operations and associated buildings, structures, fixtures, and other improvements to SJC in November 2022, but TEC remains the owner of the real property, the permittee of the Permit, and the owner and operator of the PC/CA Facility on the property.

Bottom sediment sludge from wastewater generated during wood preserving processes that used coal-tar based creosote were historically stored and treated in nine RCRA-regulated surface impoundments and one un-regulated impoundment (Pond A). Pond A was closed prior to RCRA rules being promogulated. Closure activities began at the nine RCRA surface impoundments (Sump, Oil Pit, Vacuum Cooling Pond, Pond 1, Pond 2, and Ponds C through F) in October 1990 and were completed sometime before June 1991 (J&N, 1991). Waste enclosed in WMAs II (Ponds C and D) and III (Ponds E and F), along with closure activities and Post-Closure Care and monitoring, are described in more detail in the following sections.

2.2 SITE TOPOGRAPHY AND CURRENT LAYOUT

The general Site location, topography, and surrounding areas are shown on **Figure 2-1** and **Figure 2-2.** The WMA locations and Site features are shown on **Figure 2-3.**

The TEC property comprises approximately 57 acres in an irregular wedge shape, oriented roughly east/west. The topographically highest part of the property is its northeast corner, where surface elevations reach approximately 255 feet (ft) above mean sea level (amsl). The extreme northwest corner also exceeds 250 ft amsl in elevation. The eastern one-third of the property slopes gradually to the east and southeast to ditches located along the eastern and southern property boundaries. The western two-thirds of the TEC property slopes more steeply to an unnamed intermittent drainage that bisects the western portion of the property.

WMAs II and III are west of the unnamed intermittent drainage. WMA II is about 10 ft lower topographically than WMA III. The active wood preservation operations area of the property is in the north-central part of the property, east of the intermittent drainage. WMA I, which is subject to RCRA Corrective Action, is located downslope (southwest) of the active operations area and east of the unnamed drainage.

2.3 PREVIOUS INVESTIGATIONS

Multiple environmental investigations have been conducted at the Site beginning as early as 1971 (TEC, 1997b) to identify and characterize soil and groundwater contaminants related to wood preservation processes historically conducted at the Site. A release to groundwater was identified at what was later designated as WMA I, and it has been under investigation and remediation since the 1980s, and under formal Corrective Action since the initial hazardous waste permit was issued in 1999.

No releases from WMAs II and III were identified during the early investigations leading up to closure in 1991; therefore, these WMAs have been in a DMP since 1999. The Post-Closure Care period for WMAs II and III began on the date of approval of the Certified Closure (27 June 1991). Therefore, the earliest date the Post-Closure Care period could end was 27 June 2021, as listed in Permit Table VII.G.

A combined RCRA Facility Investigation (RFI) and Affected Property Assessment Report (APAR) was submitted to the TCEQ Corrective Active Section by WESTON in July 2022 (WESTON, 2022) to address several historical areas of concern (AOCs) and solid waste management units (SWMUs) identified by EPA in 1987 but never officially closed, transferred, or subsumed into WMA I by EPA, TCEQ, or TCEQ predecessor agencies. The RFI/APAR addressed possible releases to six areas of concern outside the boundaries of WMAs II and III. Several of the RFI/APAR cross sections and maps are presented in this report to support TEC's DMP exit argument.

2.4 NATURE OF WASTE IN WMA II AND WMA III

Prior to 1985, TEC operated the four RCRA-regulated surface impoundments that made up WMAs II and III to treat/store bottom sediment sludge from wastewaters generated from a wood preserving process that used creosote. An initial Closure Plan, discussed in **Section 2.6**, was submitted to TWC in 1985 (SWL, 1985), which listed the sludge in these impoundments as hazardous waste due to toxicity (K001) because they contained polynuclear aromatic compounds listed in Appendix VII of 40 CFR Part 261. Naphthalene was listed as the indicator of contamination, as it had the highest concentration in soil samples collected from under the ponds in 1983 (SWL, 1985). Naphthalene was eventually listed as a groundwater DMP parameter in the initial 1999 Permit. TEC ceased discharging waste into the impoundments on 7 November 1985 (J&N, 1991) and the waste was solidified to the "no free liquid limit" during closure as described in **Section 2.6** below.

2.5 CONSTRUCTION OF THE WASTE IMPOUNDMENT PONDS

Ponds C and D (WMA II) were in operation by at least 1972, and Ponds E and F (WMA III) were in operation by at least 1977 based on information in the TNRCCs *Notice of Executive Director's Proposed Post-Closure Care Order Requiring Certain Actions* issued 15 April 1994

(TNRCC, 1994). Some details of the original construction can be inferred from available reports. The ponds were excavated into the ground with bermed sides and compacted (in-situ) native clay floor and sides to prevent downward migration. No geosynthetic bottom liners are mentioned, except for high-density polyethylene (HDPE) liners installed with construction of treatments cells in Pond E during closure from 1987 to 1988. Cross sections of the active waste ponds from a 1983 field survey are included as **Attachment 1**. These cross sections were included as an attachment to a letter from TEC to TNRCC dated 14 February 1997 (TEC, 1997a).

The lateral dimensions and contents of the ponds as described in the 1994 TNRCC Order, as well as the pond's depicted depth and contents from the 1983 cross sections are listed below:

- Pond C was approximately 190 ft by 175 ft containing 1,496,000 gallons of K001 sludge and an estimated 4,000 cubic yards of solidified K001 sludge and solidified soils from the Drip Pad remediation effort. The 1983 cross sections depicted Pond C as approximately 10 to 15 ft deep with approximately 6 to 7 ft of water and an approximately 1-ft layer of "sludge" on the bottom.

- Pond D was approximately 190 ft by 200 ft containing 1,469,000 gallons of K001 sludge. The 1983 cross sections depicted Pond D as approximately 10 to 15 ft deep with approximately 6 to 7 ft of water and an approximately 1-ft layer of "sludge" on the bottom.

- Pond E was approximately 175 ft by 275 ft containing 1,615,680 gallons of K001 sludge, and an estimated 1,500 cubic yards of solidified K001 sludge. The 1983 cross sections depicted Pond E as approximately 10 ft deep with approximately 5 to 6 ft of water and an approximately 1-ft layer of "sludge" on the bottom.

- Pond F was approximately 275 ft by 200 ft containing 987,360 gallons of K001 sludge and an estimated 2,500 cubic yards of K001 solidified sludge. The 1983 cross sections depicted Pond F as approximately 5 ft deep with approximately 2 to 3 ft of water and an approximately 1-ft layer of "sludge" on the bottom.

2.6 CLOSURE OF THE WMAS

After ceasing discharge of waste into the WMAs in 1985, TEC submitted an initial Closure Plan to TWC in January 1985, which included de-watering the surface impoundments; excavating all obvious sludge and 6 to 12 inches of underlying impacted soil and transportation to a disposal facility; conducting confirmation sampling to confirm complete removal of waste and impacted soil; and backfilling with clean material. The initial Closure Plan was approved by TWC on 7 October 1986 but not implemented. The Closure Plan was revised in 1988 to include in-situ biological treatment of the sludge and soil in three lined treatment cells within Pond E prior to disposal. However, TWC informed TEC on 8 February 1989 that, due to the recent RCRA land ban restrictions (40 CFR 268), the company was not allowed to move hazardous waste between WMAs without outfitting WMAs to comply with RCRA's minimal technical requirements for

surface impoundments (TWC, 1989).

As a result of the new regulations, the Closure Plan was again revised for in-place solidification of the waste and capping for closure in-place of all nine impoundments at TEC in what became WMA I, WMA II, and WMA III. Since Ponds C and D and Ponds E and F were combined into WMAs II and III, respectively, waste from adjacent ponds was allowed to be transferred between ponds within the same WMA.

A new Closure Plan for all nine RCRA surface impoundments, *Closure Plan for Texas Electric Cooperatives Solid Waste Registration No. 31340,* was submitted to TWC by Jones and Neuse in a letter dated 28 April 1989. It was subsequently revised in a letter dated 11 September 1989 (J&N, 1989) to increase the clay cap thickness and extent and to specify construction quality assurance practices. The revised Closure Plan was approved by TWC on 30 July 1990 (J&N, 1991).

Surface impoundment closure activities commenced in October 1990. Closure details for WMA I, WMA II, and WMA III are described in the *Surface Impoundment Closure Report and Certification* (J&N, 1991), which was submitted to TWC on 27 June 1991. Cross sections and detailed drawings showing the proposed final closure design components of WMAs II and III (i.e., design topography and slope, drainage features, vegetative cover, compacted clay caps, geosynthetic containment systems, and solidified waste, where applicable) from the approved April 1989 Closure Plan are included as **Attachment 2**.

No as-built drawings (surveys) of the closed WMA II and III units were available for review; however, detailed descriptions of the closure activities for WMAs II and III were presented in *Surface Impoundment Closure Report and Certification* (J&N, 1991), which are summarized below.

For both WMA II and III, the ponds were de-watered (where necessary), either through evaporation and/or pumping to the City of Jasper Sanitary Sewer under a city permit. The waste sludge and sediment were solidified with cement kiln dust to a “no free liquid limit” visual endpoint. “General fill” was placed around the sidewalls, and the sidewalls were cut to allow the clay cap to be “keyed in” per the *Closure Plan*. During construction, TEC completed soil compaction testing and surveying to establish/confirm grade (J&N, 1991). The clay caps were extended 3 to 4 ft beyond the perimeter of the WMAs and were “keyed into” the existing sidewalls. The clay caps were finished with topsoil and seeded for vegetative growth.

WMA II

Ponds C and D were designed and constructed to be approximately 10 to 15 ft deep to provide adequate capacity for the volumes of wastewater requiring treatment. As a result, a volumetric void existed in these two ponds during closure once the liquids were treated and discharged to

the city sewer system. In addition to the procedures described above, Pond C closure activities included backfilling the void volume with "general fill," compacting the general fill to specification, and then capping with 3 ft of compacted clay. No bottom soil sampling was conducted at Pond C.

Similar to Pond C, the waste in Pond D was dewatered and solidified to a sludge consistency. The waste was then consolidated and temporarily stockpiled on top of HDPE plastic in the northwest corner of the pond. Three soil samples were collected from the base of Pond D where the temporary stockpile did not cover. The exact location of these soil samples is undocumented. In the three soil samples, 19 polycyclic aromatic hydrocarbon (PAH) compounds were analyzed. Of these, four PAHs (acenaphthylene, carbazole, phenanthrene, and naphthalene) were reported at concentrations less than 20 milligrams per kilogram (mg/kg) in only one soil sample. For the other two samples, no PAH concentrations greater than the laboratory method detection levels of 0.5 mg/kg were reported.

A 60-mil HDPE liner was then placed on the bottom and sidewalls of Pond D and covered with a 6-inch layer of compacted "general fill." The stockpiled, solidified waste sludge in the northwest corner was then spread in the lined area and another 6-inch layer of "general fill" was placed and compacted above it, followed by a top liner of 60-mil HDPE. The bottom and top liners were continuously welded together to fully encapsulate the waste in Pond D. "General fill" was placed over the top liner and compacted, and a 3-ft compacted clay cap with topsoil was constructed overtop the "general fill" layer.

The area in the northwest corner of Pond D where the stabilized waste had been temporarily stored was not included in the encapsulated waste area. After spreading the stockpiled solidified sludge within the adjacent lined part of the pond floor, the underlying plastic from the stockpile was removed, and two soil samples were collected from the base of the Pond D where the stockpile had been located. The *Surface Impoundment Closure Report and Certification* states that "no creosote constituents were detected" in the two soil samples collected from the Pond D stockpile area. A 4-ft thick compacted clay cap with topsoil cover was constructed over the entire Pond D area, including the northwest corner.

WMA III

Ponds E and F were substantially shallower in depth than Ponds C and D, and both ponds had a native soil bottom liner. As part of the initial Closure Plan approach, Pond E had been equipped with multiple, temporary 60-mil HDPE-lined biological treatment cells ("MoTEC Process") that were used to contain sludge and wastewater from recently-closed WMA I ponds for biological treatment. Soil samples collected from the native soil base of Pond E before the temporary treatment cell construction were reported with no detectable concentrations of creosote constituents. After the final biological treatment, which was deemed infeasible to achieve a

"clean closure," the remaining sludge in the lined treatment cells was solidified in-place and compacted as part of the final Closure Plan. A layer of "general fill" was then placed over the compacted and solidified sludge and the "general fill" layer was compacted. The 60-mil HDPE liner was folded back over the waste and welded to itself at its perimeter to fully encapsulate the waste in 60-mil HDPE. "General fill" was then placed and compacted over the encapsulated materials, and a 3-ft-thick clay cap with topsoil was installed overtop Pond E.

The sludge in Pond F was solidified in-place and compacted. Pond F also received a small amount of contaminated soil during the Pond D closure process. A layer of "general fill" was then placed over the compacted and solidified sludge and the "general fill" layer was compacted. No waste encapsulation with HDPE was conducted at Pond F. Pond F was equipped with a 4-ft compacted clay cap and topsoil layer to complete the construction.

Final "As-Built" plan-view drawings of the clay caps with topographic contours are included as **Attachment 3**. "As-Built" details and cross section drawings, etc. depicting the compacted clay cap, geosynthetic liner systems, and other closure components could not be located.

In a letter dated 11 June 1993, TWC acknowledged the 1991 *Surface Impoundment Closure Report and Certification,* stating that the units were closed in accordance with the approved Closure Plan (TWC, 1993).

In a letter dated 8 January 1998, The TNRCC (successor to TWC) approved the closure and stabilization measures as equivalent to the Corrective Measures Implementation (CMI) for soil within WMAs II and III. The letter stated "No Further Action" was necessary, and corrective action was terminated for soil within the boundaries of WMAs II and III. WMAs II and III remained subject to Post-Closure Care and Detection Monitoring.

3. GEOLOGIC AND HYDROGEOLOGIC SETTING

The regional and site-specific geologic and hydrogeologic settings are presented in the following subsections.

3.1 REGIONAL GEOLOGY AND HYDROGEOLOGY

According to the Geologic Atlas of Texas, Beaumont Sheet (UTBEG, 1968), the Site is situated on the outcrop of the Fleming Formation. Regionally, the upper part of this formation consists of silt, sand, and predominantly light gray to yellow gray calcareous clay. The dominant soil derived from this formation is typically brownish-black, loamy, and poorly drained to moderately well-drained. The thickness of this formation is approximately 1,300 to 1,450 ft. A Regional Geologic Map is included as **Figure 3-1.**

The Site is located within the footprint of the Gulf Coast Aquifer system, as described in the Texas Water Development Board (TWDB) Report 380, *Aquifers of Texas* (TWDB, 2011). The lateral extent of this regional, multi-layered aquifer system parallels the Gulf of Mexico coastline and consists of multiple aquifers that dip towards the Gulf. Water-producing formations within the Gulf Coast Aquifer system include, from shallowest to deepest, the Chicot, Evangeline, and Jasper Aquifers. These aquifers are composed of interbedded and discontinuous clays, silts, sands, and gravels. The Gulf Coast Aquifer system thicknesses increases toward the Gulf of Mexico, and the maximum total sand thickness for the Gulf Coast Aquifer system ranges from 700 ft in the south to 1,300 ft in the north (TWDB, 2011). A Regional Cross Section is included as **Figure 3-2**.

The regional aquifer in the vicinity of the Site is the Jasper Aquifer, as described in the TWDB Report 295, *Hydrology of the Jasper Aquifer in the Southeast Texas Coastal Plain* (TWDB, 1986). The Jasper Aquifer is the oldest/deepest of the aquifers that comprise the Gulf Coast Aquifer system, and it outcrops at the updip extent of the larger Gulf Coast Aquifer system. In the subsurface, the Jasper Aquifer dips towards the Gulf of Mexico and is confined (in down dip areas) by the Catahoula Formation below and the Burkeville Confining System above. A Regional Stratigraphic Section is included as **Figure 3-3**.

3.2 SITE-SPECIFIC GEOLOGY AND HYDROGEOLOGY

The Permit identifies the “uppermost aquifer” as the “uppermost water bearing unit of the Jasper Aquifer” and states:

> *The Jasper (Aquifer) Member of the Fleming Formation ranges in elevation from approximately 200 feet above mean sea level (amsl) to 1,050 below amsl. When present the top of the uppermost aquifer/water-bearing zone is approximately 10 to 12 feet below ground surface (BGS). Groundwater is typically encountered 20 to 30 feet BGS.*

There are two groundwater bearing units (GWBUs) (historically described as the upper and lower GWBUs) at the Site plus a shallow sandy unit of limited lateral extent located in the north central portion of the Site. Both the upper and lower GWBUs at the Site are Class II groundwater resources (based on TCEQ's Texas Risk Reduction Program [TRRP] classification scheme) since production wells do not exist within 0.5-mile of the Site, and well yields are believed to be between 150 gallons per day (gpd) for Class 3 and 100 gallons per minute (gpm), or 144,000 gpd for Class 1 (WESTON, 2022).

The Detection Monitoring System was designed to monitor the groundwater in the upper GWBU only, as it is the shallowest groundwater bearing zone beneath the bottom of WMA II and WMA III. The "uppermost aquifer," as referenced in the Permit, is referred to herein as the upper GWBU. The lower GWBU is monitored in the Corrective Action Program by three wells located to the southeast (cross-gradient) from WMA II and WMA III: MW-19, MW-9, and MW-20C (**Figure 2-3**). The lower GWBU is not monitored for the DMP at WMAs II and III.

The depth to the top of the upper GWBU beneath WMA II and WMA III (sandy strata) ranges between 10 and 25 ft bgs, and depth to groundwater within the upper GWBU is typically 30 to 50 ft bgs in the WMA II and III area (**Figures 3-4C** and **3-4D**). The average elevation of the top of the upper GWBU (saturated zone) is about 195 to 200 ft amsl based on the presented geologic cross sections. The upper GWBU overlies a sandy clay aquitard that is believed to hydraulically isolate the upper GWBU from the lower GWBU. This aquitard varies in thickness across the Site from about 5 ft (at MW-1) to greater than 30 ft (MW-20C), and the top of the aquitard is encountered at an elevation of about 160 to 190 ft amsl.

Cross section alignments for the Site are provided on **Figure 3-4A**, the related cross sections are presented on **Figures 3-4B** through **3-4D,** and supporting boring logs are included in **Appendix 4.**

In addition to the cross sections, a three-dimensional (3D) geologic model of the Site is presented to better illustrate the spatial relationships between the water-bearing zones and the intervening confining clays in the vicinity of WMA II and WMA III. This Site-wide 3D model was used to evaluate and illustrate the distribution and geometries of high- and low-permeability subsurface zones. The link to the online interactive model viewing software ("C-tech"), provided in **Attachment 5**, allows a greater level of flexibility to view and understand the Site-scale geologic stratigraphy when used to view the model files. **Attachment 6** includes selected still images from the 3D model viewer chosen by WESTON to highlight important features.

Attachment 5 (enclosed files on digital device) contains the following general elements:

- Base map showing topographic contours (publicly available Digital Elevation Model), property boundary, and the locations of WMAs I, II, and III.

- Monitoring well locations, borehole lithology data (as recorded in boring logs for the Site), and groundwater elevation data from October 2023.

- Geologic block model for the Site, developed using geostatistical indicator kriging, showing 3D visualizations of the vertical and lateral extent of fill, silt/clay, and sand lithology types.

Figure 3-4C, **Figure 3-4D**, and the 3D model/still images (**Attachments 5** and **6**) depict an 8 to 12-ft-thick native clay layer from the bottom of the WMA's compacted native clay base to the top of the unsaturated portion (sandy strata) of the upper GWBU. The low-permeability native clay is also present outside the sidewalls of the WMAs. In addition, the native clay soils used for the recompacted clay cap of WMAs II and III are of sufficiently low permeability and thickness to substantially impede or prevent downward migration of precipitation to form contact leachate. Few issues with the condition of the cap have been reported over the more than 30-year inspection/reporting period.

Together with the pre-burial waste treatment procedure and the subsequent geosynthetic liner encapsulation approach used during closure, the overall WMA construction method has proven to provide a robust degree of isolation of the waste from infiltrating rainwater, thus greatly reducing the future potential for leaching of the waste. The substantial vertical distances between the bases of the WMAs and the saturated portion of the upper GWBU, which range from about 25 ft (WMA II) to 50 ft (WMA III), add an important additional level of groundwater protectiveness of the units. There is no evidence from field observations in soil borings around WMA II and WMA III that waste or leachate have penetrated the bottom boundary of the WMAs, much less reached the soil or groundwater beneath the units' bases.

The successful enclosure of the waste and effectiveness of the low-permeability compacted clay in preventing a release is further proven by over 30 years of groundwater sampling data presented in **Section 4.1**.

3.3 SITE-SPECIFIC GROUNDWATER FLOW DIRECTION AND VELOCITY

The most recent potentiometric surface maps generated from data collected in April and October 2023 are included as **Figures 3-5** and **3-6**, respectively. Historical potentiometric surface maps are included as **Attachment 7**. Historical groundwater elevations and depth to water measurements from January 2003 through October 2023 are presented in **Table 3-1**. Groundwater gradient calculations are discussed in more detail below and are presented in **Table 3-2**.

Groundwater at WMA II and WMA III generally flows in a south to southwestward direction. In general, across the entire Site monitoring well network, the groundwater in the upper GWBU is interpreted as following a radial outward flow pattern from the north-central part of the Site,

which is a topographic high point. WMA II and WMA III are interpreted as being cross-gradient to possibly downgradient (WMA II only) relative to WMA I.

Based solely on the monitoring well's locations relative to the actual lateral boundaries of the WMA cells and to the interpreted historical and recent groundwater flow directions, the detection monitoring wells for WMA II and WMA III have been consistently downgradient of the buried waste and would therefore have been capable of detecting a release from the WMAs if a release had occurred.

Groundwater elevation data collected between well pairs in the WMA II and WMA III areas between January 2003 and October 2023 have been used to calculate groundwater velocities at WMA II and WMA III for each semi-annual sampling event in satisfaction of Section VI.G of the Permit. Historical groundwater velocity calculations from January 2003 through October 2023 on a semi-annual frequency are presented in **Table 3-2.** The results have been presented to the TCEQ in the *Annual Detection Monitoring Report* for the past 20 years: the average hydraulic gradient in the WMA II/WMA III portion of the Site over that period is 0.0023 feet per foot (ft/ft) and the average groundwater velocity is 1.6 feet per day (ft/day). The upper GWBU groundwater velocities at WMA II/III support the likelihood of a timely detection of a release at the detection monitoring wells if releases ever occurred.

4. POST-CLOSURE CARE INFORMATION REVIEW

TEC discontinued the use of the surface impoundments in 1985 and closure activities were complete by 1991. Post-Closure Care activities have been conducted since the 1991 closure in accordance with the requirements detailed in the 1990 *Post-Closure Care Plan* (J&N, 1990). The TNRCC (predecessor to TCEQ) issued the *Notice of Executive Director's Proposed Post-Closure Care Order Requiring Certain Actions* (TNRCC, 1994) in April 1994. The TNRCC's 1994 Order was the precursor to the initial IHW Permit No. 50345, and the Site operated under the TNRCC Order until 1999. The TNRCC's 1994 Order included Detection Monitoring and Post-Closure Care provisions for WMAs II and III that were carried over to the initial IHW Permit (issued in 1999) and continued in the current IHW Permit No. 50345. The DMP began with the initial Permit in 1999; however, groundwater sampling, analysis, and reporting have been conducted since at least 1993 (J&N, 1996).

Post-Closure Care activities include final cover inspections, maintenance and repairs, and groundwater monitoring/reporting. Potential exposure to site chemicals of concern (COCs) by off-site receptors has been evaluated throughout the entire Post-Closure Care period, and institutional controls were established during closure. No sensitive human or ecological receptors have been identified on neighboring properties, and institutional controls for WMAs II and III have been on file in the county records since the 1990s (WESTON, 2022).

4.1 GROUNDWATER ANALYTICAL DATA REVIEW

The groundwater monitoring network was designed to satisfy the requirements included in the relevant RCRA guidance (U.S. EPA, 1986) with one up-gradient well and three down-gradient wells. Permit Table VI.B.3.b.1 identifies monitoring wells MW-3, MW-4, and MW-13 as POC wells for WMA II; monitoring wells MW-1, MW-2, MW-8, MW-15A, and MW-15B as POC wells for WMA III; and monitoring well MW-11 as an up-gradient/background well for both WMAs II and III. Monitoring well locations are shown on **Figure 2-3**.

The current DMP for WMAs II and III includes semi-annual sampling of the background and POC wells for analysis of field water quality parameters and naphthalene (by laboratory); additionally, the Program includes triennial sampling for additional analyses of "creosote constituents" (anthracene, benzo[a]anthracene, chrysene, 4,6-dinitro-o-cresol, 2,4-dinitrophenol, fluoranthene, phenanthrene, and acenaphthylene) in accordance with Permit Table VI.B.3.c for the duration of the Post-Closure Care period. This permit table also establishes the Method Detection Limit (MDL) and the Concentration Limit (CL) for the nine individual laboratory analyte compounds. The CL is the basis for determining whether a release has occurred from the subject unit.

Groundwater monitoring results were submitted to the TCEQ (and its predecessor) during the entire Post-Closure Care monitoring period. Before 1999 (date of initial IHW Permit), groundwater monitoring events were conducted as part of groundwater compliance and detection monitoring required by TWC or TNRCC as far back as 1982 (see **Section 4.11**). Beginning July 1999, the format of the submittal was an annual or semi-annual groundwater monitoring report as required by the initial Permit. None of the submitted reports identified SSIs in the WMA II and WMA III POC well analytical data.

Provision VI.C.3 of the Permit states that if the 30-year Post-Closure Care period has elapsed and an SSI, as defined by the *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities Unified Guidance* (U.S. EPA, 2009), has not been identified in the groundwater during the Post-Closure Care period, then the permittee is eligible to discontinue Detection Monitoring. That condition has been met at WMA II and MWA III, as there has been no evidence of a release and no indication of an SSI at WMAs II and III since the Post-Closure Care period began in 1991.

4.1.1 HISTORICAL GROUNDWATER ANALYTICAL DATA REVIEW

Groundwater sampling data prior to the issuance of the initial Permit (1999) is intermittent due to the regulatory requirements and the lack of availability of complete records at that time. However, groundwater monitoring and regulatory reporting were being conducted at the Jasper property prior to the issuance of the initial Permit in 1999. The earliest groundwater sampling data for the monitoring wells at WMAs II and III are in an August 1988 *Quarterly Groundwater Sampling Results* letter from Jones and Neuse to TWC, dated 26 September 1988 (J&N, 1988) (see **Attachment 8**). Only data from monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-11 (listed as W-1, W-2, W-3, W-4, W-8, and W-11 in the 1988 letter) were reported, as the other DMP wells (MW-13, MW-15A, and MW-15B) were not installed as of 1988. The data tables from the 1988 letter summarize groundwater analytical data for the indicator compounds Total Organic Halogens (TOX) and Total Organic Carbon (TOC), plus hydrogen ion concentration (pH) and specific conductance, from September 1982 through August 1988, as was typical for DMPs during that period.

A *Draft July 1996 Groundwater Sampling Report* was completed by Jones and Neuse and submitted to TNRCC on 17 June 1996 (J&N, 1996) (see **Attachment 8**). The submittal cover letter states the sampling was conducted as part of "groundwater compliance monitoring" conducted at the Jasper property. The 1996 groundwater monitoring report provides data tables that summarize TOX, TOC, pH, and specific conductance data for all WMA II and III wells (MW-1, MW-2, MW-3, MW-8, MW-11, MW-13, MW-15A, and MW-15B) from the third quarter 1993 through the second quarter 1996, on a quarterly basis.

A *Semiannual Groundwater Monitoring Report*, prepared by Geraghty & Miller and dated 1 July 1997 (Geraghty & Miller, 1997) reported the results of the first and second quarterly sampling events of 1997 for the DMP (data from "Closed Area II" and "Closed Area III") and the "compliance monitoring data from Closed Area I" (see **Attachment 8**). Page 8 of the report states that TOX and TOC have historically "exhibited significant variability in the detection monitoring data and are unreliable indicators of a release." Therefore, starting in October 1996, Closed Area II groundwater samples were also analyzed semi-annually for "K001 constituents … in lieu of statistical analysis of the TOC and TOX data," with prior approval of TNRCC at the time (Geraghty & Miller, 1997). The report text summarizes that TOX and "K001 constituents" were not reported above their laboratory method detection levels in groundwater samples collected from any of the wells in WMAs II or III. The text of the report is all that is available to TEC and WESTON; data summary tables, figures, lab reports, etc. are not available.

The earliest groundwater sampling report available to TEC and WESTON for the period after the issuance of the initial Permit in 1999 is a *Semi-Annual Groundwater Monitoring Report* for the Jasper property for samples collected in July and October 2000, completed by ARCADIS Geraghty & Miller, Inc. and dated January 24, 2001 (ARCADIS, 2001). The conclusions section of the 2000 *Semi-Annual Groundwater Monitoring Report* states that naphthalene was not reported above the laboratory MDLs in any of the samples collected from the WMA II or WMA III wells in October 2000 (**Attachment 8**).

4.1.2 CURRENT GROUNDWATER ANALYTICAL DATA REVIEW

Groundwater analytical results for the WMA II and III wells for the period between January 2003 and October 2023 are summarized in **Table 4-1** (naphthalene and arsenic; semi-annual sampling), and **Table 4-2** (creosote constituents; triennial sampling). There have been 42 monitoring periods for the semi-annual naphthalene/arsenic data set in **Table 4-1** and seven monitoring periods for the triennial "creosote constituents" data set (**Table 4-2)**. As discussed below, an SSI has not been confirmed in the WMA II or WMA III POC wells based on the current data from 2003 through 2023.

4.1.2.1 Statistical Analysis Methods

To assess the occurrence of statistically significant trends in concentration data over time, Mann-Kendall (M-K) testing, Kruskal-Wallis (K-W) testing, and Tarone-Ware (T-W) testing were conducted, as described in Chapter 17 of *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance* (U.S. EPA, 2009). The statistical tests were performed using 2009 through 2023 groundwater monitoring data and the EPA software package ProUCL (Version 5.2) with a 95 percent (%) confidence level. The reason for using data only from this date range, despite the availability of compound-specific laboratory analytical data dating back to 1996, is explained below.

As discussed above, consistent analysis of specific creosote-related compounds at WMAs II and III was first conducted on the October 1996 groundwater samples. Due to a substantial decrease in the naphthalene Reporting Limits (RL; aka MDL) from 0.010 milligrams per liter (mg/L) and 0.005 mg/L to 0.001 mg/L starting in 2009, the naphthalene analytical data reported between 1996 and 2008 were omitted from the statistical trend analysis data sets. These data were omitted from consideration because the higher RLs relative to 2009 and later data was interpreted as possibly introducing bias. No CL exceedances were reported in any of the WMA II or III wells between 2003 and 2008 (see **Table 4-1)**. Groundwater analytical data summary tables or lab reports for WMA II and WMA III wells for the period October 1996 through 2002 are not available to TEC and WESTON.

Using only the 2009 through 2023 data, the number of samples for each data set (n-value) was between 26 and 40 for the evaluation ending with April 2023 data. The n-value was between 27 and 41 for the evaluation ending with October 2023 data. In both cases, the n-values were adequate to support a robust statistical analysis (U.S. EPA, 2009).

Test Descriptions

The M-K trend test is a non-parametric (rank-based) method that evaluates a time-ordered set of data for a unidirectional trend. The procedure makes no assumptions regarding the shape of the trend (e.g., linear, log linear) except that the trend is in a single direction (i.e., consistently upward, downward, or no statistically relevant trend) for the data included in the evaluation.

The K-W and T-W tests can be used to evaluate the agreement between two data sets – in this case, the reported naphthalene concentrations in the background well (MW-11) and in any POC well with a reported naphthalene concentration exceeding the RL. Both the K-W and T-W tests are appropriate statistical analytical tools for data sets containing multiple non-detect results (U.S. EPA, 2009). The K-W test is a non-parametric analysis of variance (ANOVA) test. The T-W test is a two-sample test designed to overcome the limitations generated from “censored” data, such as data sets with significant “non-detect” results and is only applicable if the data set exhibits no upward or downward trend. The M-K trend test results can be used to evaluate the applicability of the T-W test to the data set of interest.

For the 2023 SSI evaluation, the M-K trend test method was first used to assess whether an upward, downward, or no statistically relevant trend is present in the data sets from each of the wells included in the statistical analysis.

Following the 2009 EPA Guidance (U.S. EPA, 2009), the presence of “censored” data in the analytical results was addressed using the approach described below. The data set was deemed “censored,” and no M-K trend testing was performed if it contained no CL exceedances and one of the conditions below was also met:

1) The data set contained more than 80% non-detects; or
2) The data set had fewer than four detected values.

Based on these criteria, M-K trend tests were not conducted on POC wells MW-1, MW-13, MW-15A, or MW-15B. Completion of this step left data for wells MW-2, MW-3, MW-4, and MW-8 subject to the full SSI evaluation. An M-K trend test was also completed for data from well MW-11 as the background well for both WMAs II and III.

Where non-detect results were reported for naphthalene, which represents between 88% and 93% of the reported results for the WMA II and III wells between 2009 and 2023, the laboratory RL was used as the reported concentration included in the statistical analysis completed for each of the data sets evaluated, as recommended in the *ProUCL Technical Guidance* (U.S. EPA, 2009). This approach was used rather than the RL/2 substitution method.

M-K trend tests were completed for the data sets from wells MW-2 and MW-3 because naphthalene was reported at a concentration greater than the RL four or more times. An M-K trend test was also completed for the data set from wells MW-4 and MW-8 due to the singular CL exceedances reported in June 2021 and April 2023, respectively. An M-K analysis was completed for the data set from the background well, MW-11, to evaluate the appropriateness to use that data set in the T-W test.

The K-W and T-W tests were completed for wells MW-11 (background well) and MW-8 (POC well) to evaluate whether an SSI occurred in April 2023. Statistical analysis results of the April and October 2023 sampling data for each well described above are presented below. *ProUCL* numerical analysis summaries of the M-K test, T-W test, and K-W test conducted are included in **Attachment 9**.

4.1.2.2 Statistical Trend Analysis Results – Through October 2023

Naphthalene was reported at a concentration greater than the RL but less than the CL in the groundwater samples collected in October 2023 from wells MW-8 and MW-15A (see **Table 4-1**). Naphthalene was reported at a concentration greater than the RL in MW-15A only two times between January 2009 and October 2023. Thus, the data set for well MW-15A meets the censored data conditions presented above; therefore, statistical analyses were not performed for the MW-15A data set.

The M-K, K-W, and T-W test results for data through October 2023 are summarized in **Table 4-4** below. M-K trend tests for the October 2023 data resulted in no statistically significant trend in naphthalene concentrations in wells MW-2, MW-4, and MW-8 and a decreasing trend in well MW-3. The calculated K-W and T-W p-values are 0.875 and 0.551, respectively, for the MW-8/MW-11 comparison, which suggests that the background data set from MW-11 and the POC data set at MW-8 are comparable and roughly equivalent.

Table 4-3 Statistical Trend Analysis Results Summary – through October 2023

Well ID	Well Type	M-K Trend	K-W P-Value	T-W P-Value
MW-2	POC	No Trend	NA	NA
MW-3	POC	Decreasing	NA	NA
MW-4	POC	No Trend	NA	NA
MW-8	POC	No Trend	0.875	0.551
MW-11	Background	No Trend		

Notes:
A p-value greater than 0.05 (at the 95% confidence level; shaded green) supports a conclusion of "no SSI."

Based on the statistical analyses for these wells and the censored data conditions presented in the 2009 EPA Guidance (U.S. EPA, 2008), no SSIs were identified in the October 2023 groundwater monitoring data.

4.2 FINAL COVER CARE AND MAINTENANCE

As detailed in **Section 2**, wastes disposed in WMAs II and III were stabilized in place, encapsulated within an HDPE liner (top and basal liners), and capped with a 3- to 4-ft-thick compacted clay layer (J&N, 1991). The clay cap was graded to minimize ponding water and erosion, then covered with topsoil and seeded. Cap inspection activities have been conducted monthly throughout the entire Post-Closure Care period and have included checks for cap settlement, evidence of burrowing animals, and tall grass/other vegetation that might penetrate the top liner. Additional cap inspections were conducted following significant rainfall events, and these typically included checks for ponded water, erosion troughs, and bare spots.

Criteria for determining whether maintenance is required and the related maintenance actions are listed in the *Post-Closure Care Plan* (J&N, 1990). The caps are currently in good condition, as documented in the *2023 Annual Detection Monitoring Report* (WESTON, 2023), and no major repairs have been necessary since the caps were completed. Continued cap inspections, as-needed maintenance activities, and annual cap inspection reporting are anticipated for long-term care under the Permit, regardless of any groundwater monitoring requirements. TEC has committed to continuing the periodic cap inspection and annual reporting for as long as it owns and operates the PC/CA Facility and owns the real property.

The condition and security of DMP monitoring wells have also been inspected monthly, and general well maintenance and repairs were made in accordance with the *Post-Closure Care Plan*. WMAs II and III are located within the larger TEC property, which is secured with a perimeter fence (with "No Trespassing" signs posted approximately every 20 ft around the entire perimeter) and lockable gated entrances. A subset of recent cap inspection and maintenance records are included in **Attachment 10**. Historical cap inspection documentation has been presented in the semi-annual and annual groundwater monitoring reports submitted to the TCEQ and its predecessors over the past 30 years.

4.3 POTENTIAL RECEPTORS

An analysis of potential adjacent receptors to a release at the Site was included in the 2022 RFI/APAR (WESTON, 2022). A formal receptor survey was conducted to identify potential receptors, either human or ecological, within a 500-ft radius of the TEC property. No sensitive human receptors (i.e., playgrounds, daycares, hospitals, etc.), water wells, or ecological receptors (i.e., perennial creeks/streams) were identified within 500 ft of the TEC property boundary. No drinking water wells were identified with ½-mile of the TEC property boundary based on a state and local registered well records search. The nearest surface water body, Big Walnut Run, is located 4,600 ft south of the Site. In addition, the City of Jasper supplies drinking water to the Site and surrounding properties.

4.4 INSTITUTIONAL CONTROLS

WMAs II and III were deed recorded in the Jasper County property records in 1991 to ensure the caps remain undisturbed indefinitely. The county filings require that any future use of the Site in the WMA II and III cap areas or disturbance of the cap for any purpose would require pre-approval of the TCEQ Executive Director.

If the property is transferred or sold to a new owner, the new owner's due diligence review of the county records will communicate these requirements to them. TEC will also be required by law to disclose these land use restrictions in a real estate transaction for the property. SJC, the current owner and operator of the wood preservation facility, is already fully aware of the restrictions and requirements related to WMAs II and III. A copy of the deed record is included in **Attachment 11**.

4.5 POST-CLOSURE CARE EVALUATION CRITERIA

As introduced in **Section 1.5** of this report, the TCEQ has specified that the criteria outlined in the 2016 EPA Guidance Memorandum *Guidelines for Evaluating the Post-Closure Care Period for Hazardous Waste Disposal Facilities under Subtitle C of RCRA* (U.S. EPA, 2016) should be used to evaluate the effectiveness of Post-Closure Care practices (See **Section 1.5**). **Table 1-2** summarizes the evaluation criteria and describes each criterion.

Table 4-4 below adds to **Table 1-2** by including a summary of the satisfying Site-specific lines of evidence for each of the criteria for WMA II and WMA III in the right-hand column. The right-hand column summarizes the details provided in the preceding sections.

Table 4-4 Lines of Evidence for Satisfaction of the Post-Closure Care Criteria (after U.S. EPA, 2016)

Evaluation Criteria	Descriptive Summary	How Site Satisfies Criteria
Waste Treatment	Groundwater protection can be achieved through institutional controls, waste treatment to reduce toxicity, and/or stabilization (e.g., chemical or physical solidification). Treating hazardous waste in accordance with LDR program standards is a key evaluation parameter.	As noted in **Section 2**, the waste closed in place within WMA II and WMA III is listed hazardous waste (K001), due to toxicity. The waste was, in part, biologically treated (WMA III only) and stabilized (both WMA II and III). WMAs II and III at the Jasper property were closed under the LDR Program using the exemptions that allow hazardous sediment/sludge waste to be treated in-situ in surface impoundments.
Nature of Hazardous Waste Remaining in the Unit	Properties of the hazardous waste, such as degradation, solubility, liquid-to-solid ratio, are important indicators of the waste's ability to migrate or disperse in the environment.	As noted in **Section 2**, waste closed in WMA II and WMA III was stabilized to the "no free liquid" limit with kiln dust, layered between "general fill," and encapsulated in two 60-mil HDPE liners (except Pond F) to prevent migration of hazardous contaminants.
Unit Type and Design	Type of waste unit (i.e., landfill, surface impoundment, closed tank) and the construction/design of the unit determine the unit's ability to contain the hazardous waste.	As described in **Section 2**. WMAs II and III were surface impoundments that have had the waste encapsulated in HDPE (except Pond F) lined (bottom) in native clay and capped with 3+ feet of compacted local clay. The construction and design for both WMAs included grading to protect against ponding water and erosion and were approved by the TCEQ's predecessor agency at the time of construction.
Leachate Monitoring	Leachate monitoring is an effective way to determine the integrity of the WMA. A facility's leachate hazardous constituent concentrations are considered when evaluating Post-Closure Care.	A leachate collection system was not installed at WMAs II and III because the waste was dewatered, stabilized, and contained within a geosynthetic liner. The waste is well above the water table.

Table 4-4 Lines of Evidence for Satisfaction of the Post-Closure Care Criteria (after U.S. EPA, 2016) (Cont.)

Evaluation Criteria	Descriptive Summary	How Site Satisfies Criteria
Groundwater	Groundwater monitoring is the primary means of release detection. The integrity of the groundwater monitoring networks, including well placement and flow direction, well constructions, and sample results. are considered when evaluating Post-Closure Care.	Groundwater analytical data are discussed in **Section 4.1**. The groundwater monitoring network at WMAs II and III has been well maintained over the entire Post-Closure Care period. Groundwater sampling data and annual reporting to the TCEQ (or predecessors) has clearly demonstrated the adequacy and integrity of the monitoring well network, year-over-year consistency of groundwater flow direction, and that no evidence of a release or SSI has been detected. The DMP began in 1999 per the original Permit; however, groundwater sampling as part of the predecessor compliance and detection program were conducted since at least 1993 (J&N, 1996), with some sampling data as far back as the 1980s.
Siting and Site Geology and Hydrogeology	Relevant facility location characteristics such as wetlands, faults/seismic activity, distance to drinking water sources, and nearby residences are considered when evaluating Post-Closure Care.	The Site geology and hydrogeology are well understood, as described in **Section 3**. The saturated portion of the upper GWBU is at depths of 25 to 50 ft below the base of WMA II and WMA III, respectively. An 8-12 ft thick clay aquitard is present under the base of WMA II and WMA III, and the same clay surrounds their perimeters. A field receptor survey did not identify sensitive receptors, or potential human or ecological receptors within a 500-ft radius of the Site, and no drinking water wells or surface water bodies were identified within a ½-mile of the Site (WESTON, 2022).
Facility History	A facility's history with environmental compliance, record keeping, and management practices are considered when evaluating Post-Closure Care.	TEC consistently submitted annual groundwater monitoring reports for WMAs II and III to the TCEQ (or predecessors) over the Post-Closure Care period, which started in 1991, per the Permit. Compliance has been excellent.
Gas Collection System Integrity	For units with gas collection systems, the emissions potential of the system should it shut down are considered when evaluating Post-Closure Care.	No gas collection system is present at WMA II or III.

Table 4-4 Lines of Evidence for Satisfaction of the Post-Closure Care Criteria (after U.S. EPA, 2016) (Cont.)

Evaluation Criteria	Descriptive Summary	How Site Satisfies Criteria
Integrity of Cover System	The integrity and construction of the containment structure is the most important mechanism to prevent a release. The cover system may be compromised after terminating Post-Closure Care; therefore, the performance during the Post-Closure Care period is evaluated.	As described in **Section 4.2.** The cover system/cap at WMAs II and III has been consistently inspected and well maintained throughout the post-closure care period in accordance with the schedule presented in the *Post-Closure Care Plan* (J&N, 1990). The cap has remained in good condition over the entire Post-Closure Care period with only minor maintenance (e.g., adding topsoil and seeding; mowing; occasional ruts along flanks) reported. Cap inspection records for 2023 are provided as an attachment and previous cap inspection records have been submitted to the TCEQ in annual DMP reports since 2000. The caps are currently grass covered and in excellent condition.
Long-Term Care	Long-Term Care evaluation criteria includes the establishment and maintenance of physical and legal controls that prevent unacceptable exposure risk to waste sites. Engineering controls and institutional controls are evaluated and considered in the Long-Term Care evaluation criteria.	As described in **Section 4.3**, WMAs II and III are deed recorded in the Jasper County property records for future notification. The deed recordation prohibits disturbance of the WMAs without authorization from the TCEQ Executive Director and memorializes the regulatory requirements of the WMAs for any future owners of the property. As the current owner of the property and of the PC/CA Facility, TEC is aware of the restrictions and requirements related to WMAs II and III.

5. SUMMARY AND CONCLUSIONS

TEC previously owned and operated the wood preservation facility on the 57-acre property located at 2100 Bevil Loop in Jasper, Texas. The facility opened in 1964 to pressure-treat wooden poles with coal tar-based creosote for the electrical distribution industry. TEC sold the wood preservation manufacturing operations and associated buildings, structures, fixtures, and other improvements to SJC in November 2022, but TEC remains the owner of the real property, owner and operator of the PC/CA Facility, and permittee of the Permit.

Bottom sediment/sludge from the treatment of wastewater generated during wood preserving processes was historically stored and treated in nine RCRA-regulated surface impoundments between 1964 and 1985, including Ponds C, D, E, and F (installed by at least 1972 [Ponds C and D] and 1977 [Ponds E and F]). Closure of these ponds was initiated in October 1990 and completed by June 1991 (J&N, 1991). Ponds C and D were closed under one cap and were designated as WMA II. Similarly, Ponds E and F were closed under a single cap and designated as WMA III. WMAs II and III have been in Post-Closure Care since closure certification occurred in 1991. This DMP Exit Report presents TEC's demonstration for the discontinuation of detection monitoring at WMAs II and III at the Site.

A Certification of Closure dated 27 June 1991 was submitted to the TWC for WMAs II and III, and the stipulated Post-Closure Care period was 30 years (J&N, 1991). The TWC approved the Certification of Closure in 1993 and the TNRCC ordered Post-Closure Care at the Site in 1994. The initial Post-Closure Care Permit was issued by the TNRCC in 1999 and a formal DMP was established. The Permit ensured that the official Post-Closure Period commenced in June 1991.

Groundwater sampling at WMA II and WMA III had been conducted as far back as the 1980s as part of compliance and detection monitoring, with analyses of specific creosote component compounds starting in late 1996. A more formal DMP for WMA II and III started in 1999 with the initial Post-Closure Care Permit and has since included semi-annual and triennial sampling of required groundwater analytes under the Permit. There has been no evidence of an SSI for these groundwater analytes at WMA II and III during the entire Post-Closure Care period. In addition, no sensitive human or ecological receptors were identified on neighboring properties, and institutional controls include deed recording institutional controls for WMAs II and III in the Jasper County records.

The leachability potential of the encapsulated, stabilized wastes is considered minimal at WMAs II and III, given the closure methods used. The contaminant properties (i.e. relatively insoluble, biodegradable) are significant mitigating factors for naphthalene and other creosote constituents. If a release had occurred over the past 30 plus years from WMA II or WMA III, TEC believes it would have been detected at the POC wells in the form of an obvious and consistent detection of site COCs in groundwater rather than the rare and extremely intermittent detection in the POC wells experienced at WMAs II and III. The absence of such sustained breakthrough of

naphthalene or other creosote COCs over the 30-year post-closure period strongly supports the case that no release has occurred and will not occur in the future with continued proper care of the containment caps.

Based on the information presented to demonstrate that the Post-Closure Care evaluation criteria have been more than satisfied, WMAs II and III are proposed as suitable for exiting the DMP, thus ending the related Post-Closure Care groundwater monitoring activities.

Going forward, the engineered containment cells, together with the compacted clay caps and the stabilization of the wastes within WMAs II and III, are and will continue to be adequate to control leaching and migration of waste constituents beyond the WMA boundaries.

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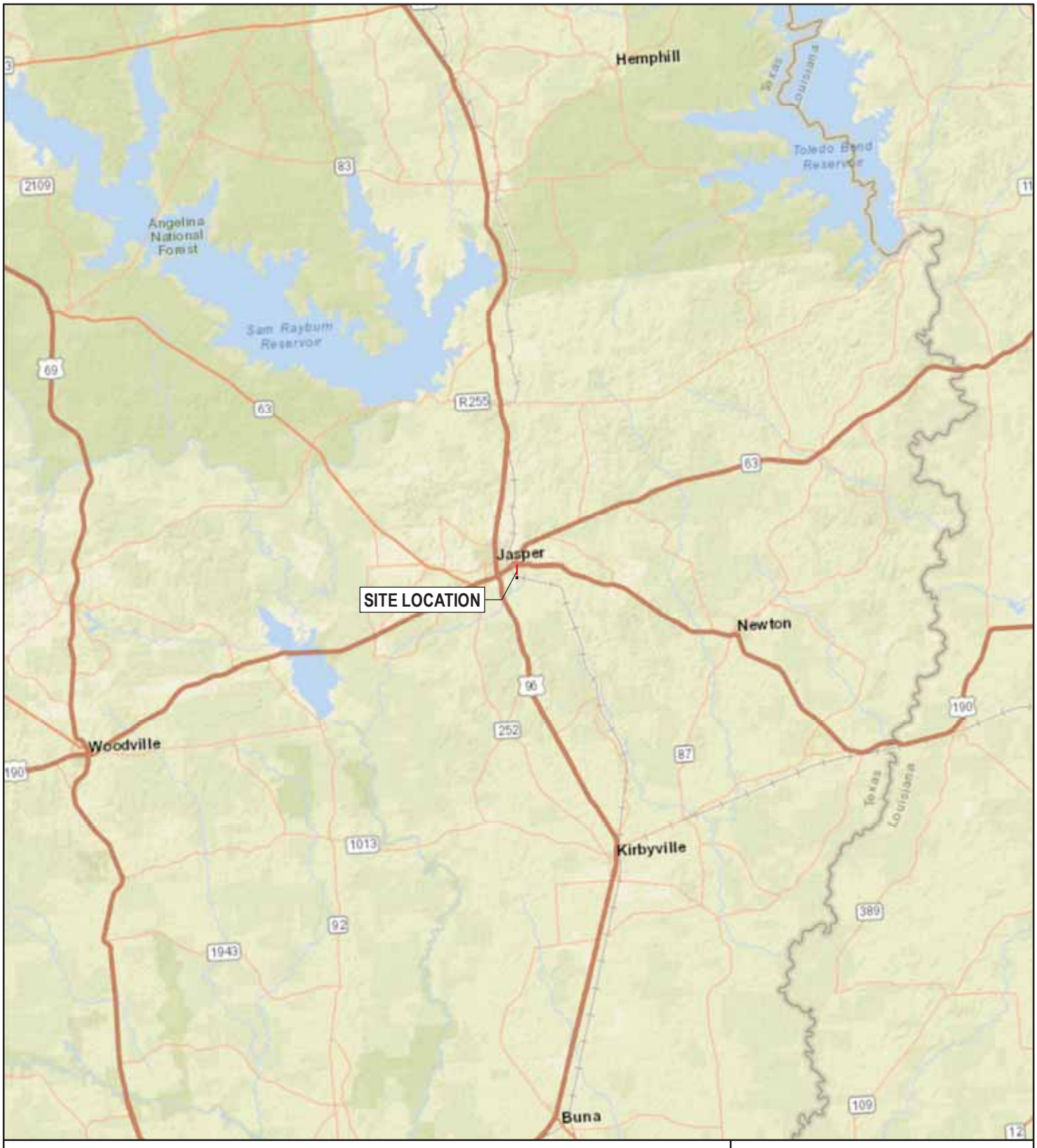
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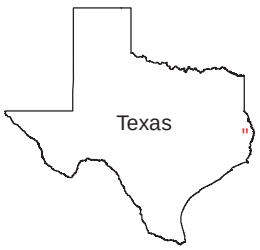
FIGURES

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MILES



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! Site Location

SOURCE: WORLD STREET MAPS; ESRI

WESTON SOLUTIONS

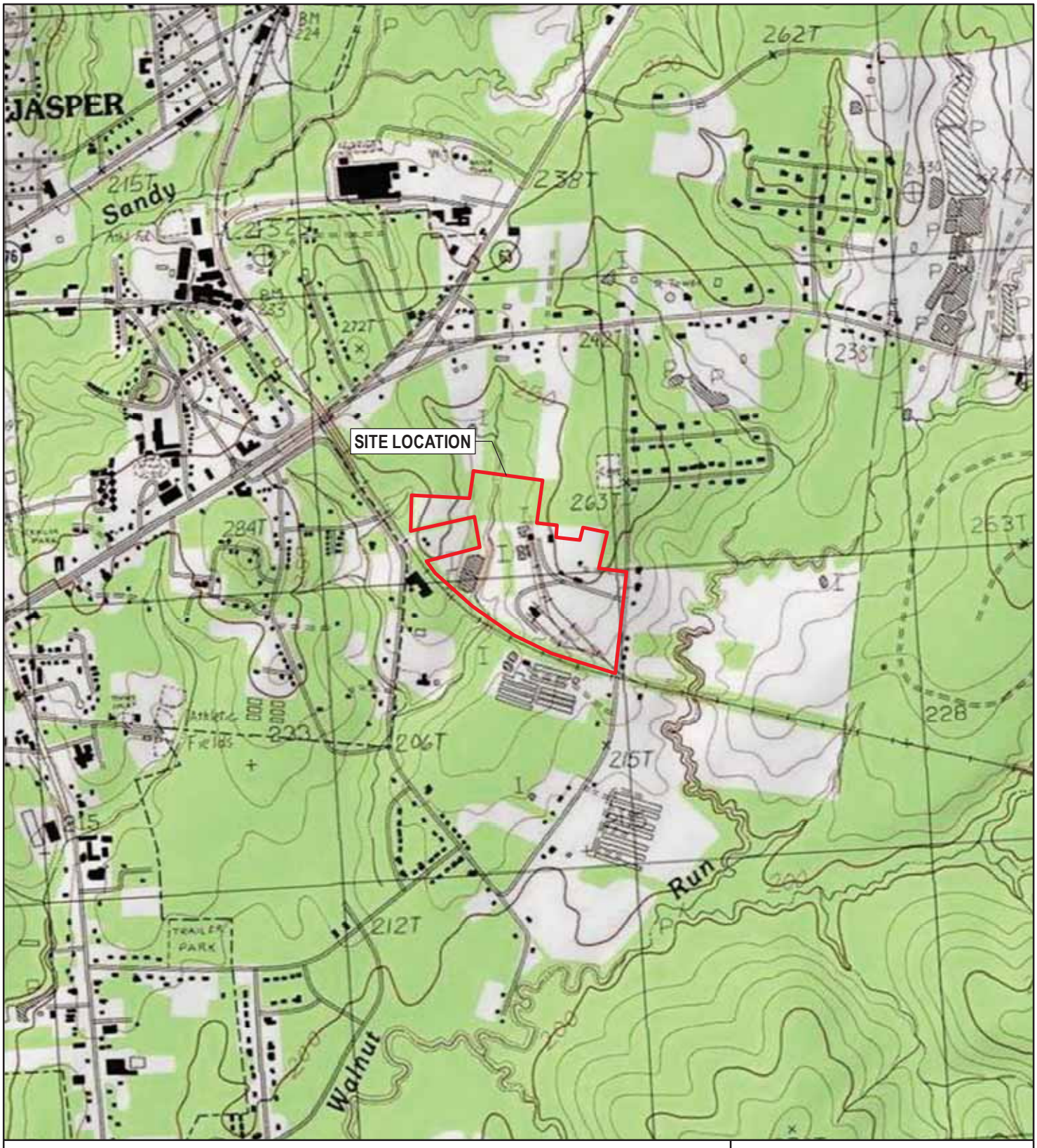
FIGURE 2-1

SITE LOCATION MAP
DETECTION MONITORING
EXIT JUSTIFICATION REPORT
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS

DATE	PROJECT NO	SCALE
NOV. 2023	10472.003.024	AS SHOWN

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Property Boundary

SOURCE: USA TOPO MAPS; ESRI

WESTON SOLUTIONS

FIGURE 2-2
SITE AREA MAP
DETECTION MONITORING
EXIT JUSTIFICATION REPORT
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS

DATE	PROJECT NO	SCALE
NOV. 2023	10472.003.024	AS SHOWN

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LEGEND

- Background Well
- Corrective Action Observation
- Corrective Action System
- Detection Monitoring Well
- Point of Compliance Well
- Point of Exposure Well
- Supplemental Well
- Staff Gauge
- Deep Monitoring Well
- Branch Channel
- Parcel Boundary
- Property Boundary
- Waste Management Areas
- Shallow Sand Unit Boundary
- Pond Boundary

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Feet

SOURCE: Imagery (c) 2010 Microsoft Corporation and its data suppliers

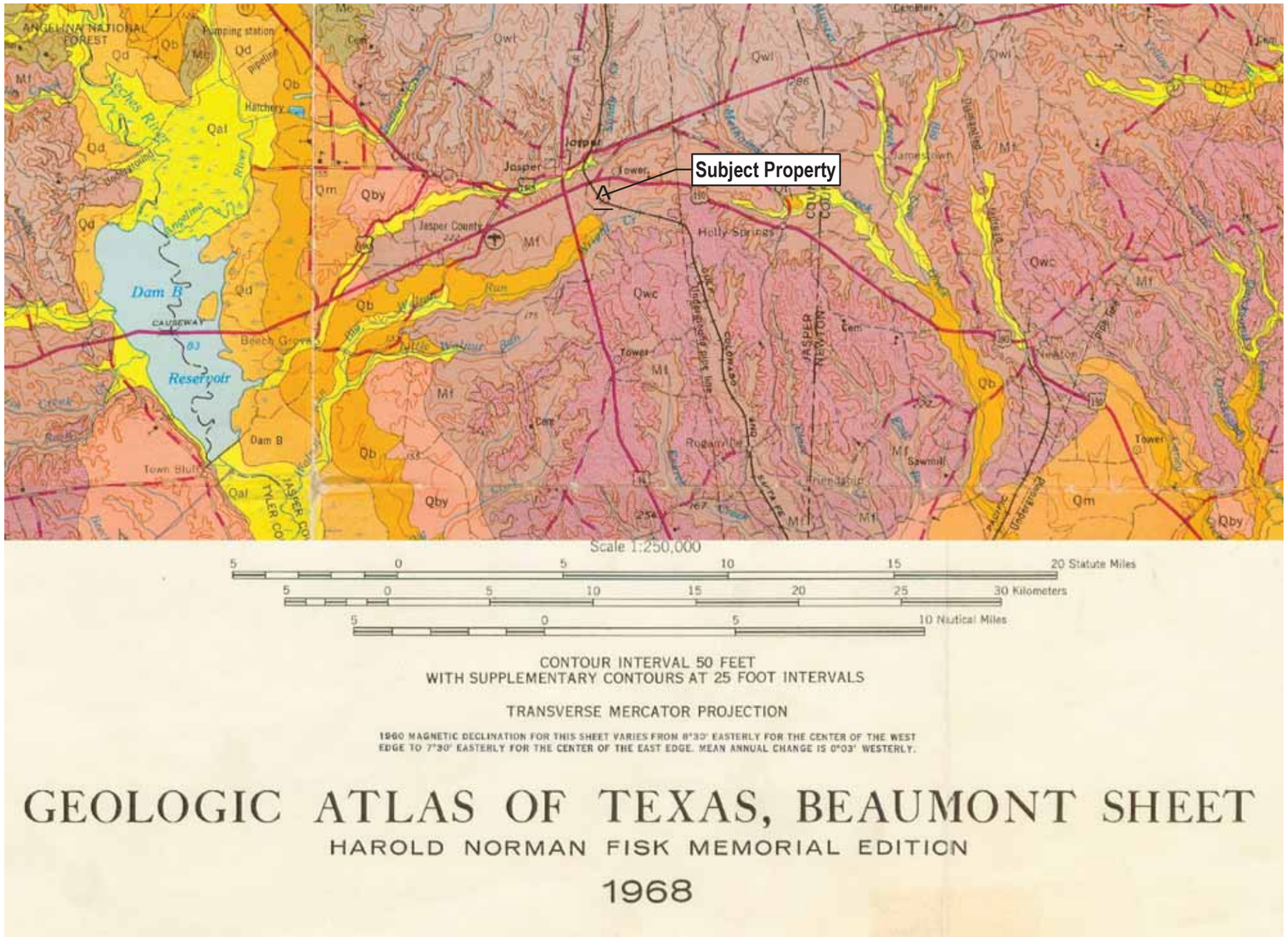
WESTON SOLUTIONS

FIGURE 2-3
SITE FEATURES MAP
DETECTION MONITORING PROGRAM
EXIT JUSTIFICATION REPORT
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS

DATE	PROJECT NO	SCALE
FEBRUARY 2024	10472.003.024	AS SHOWN

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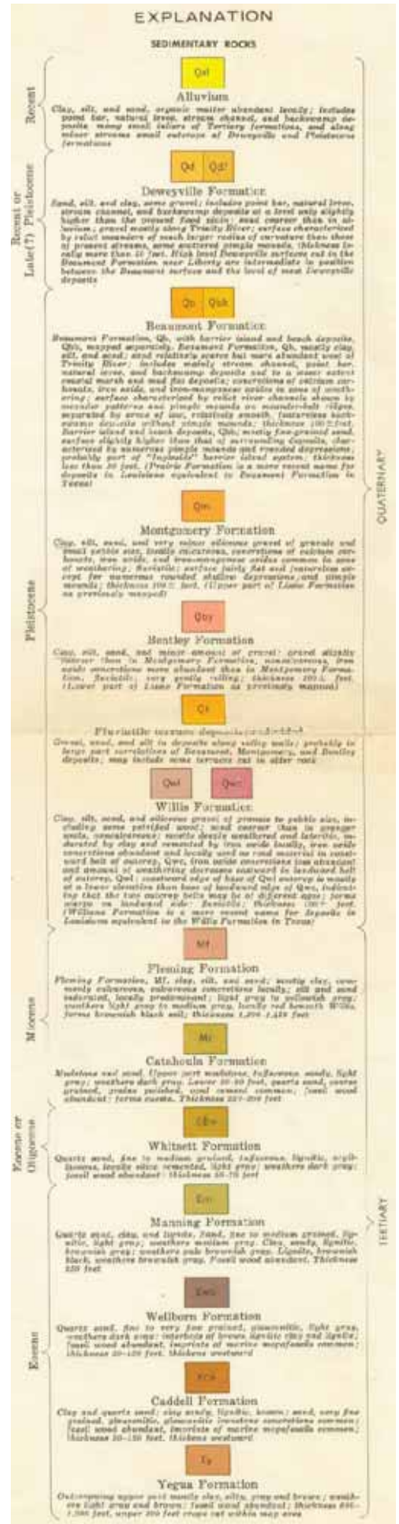
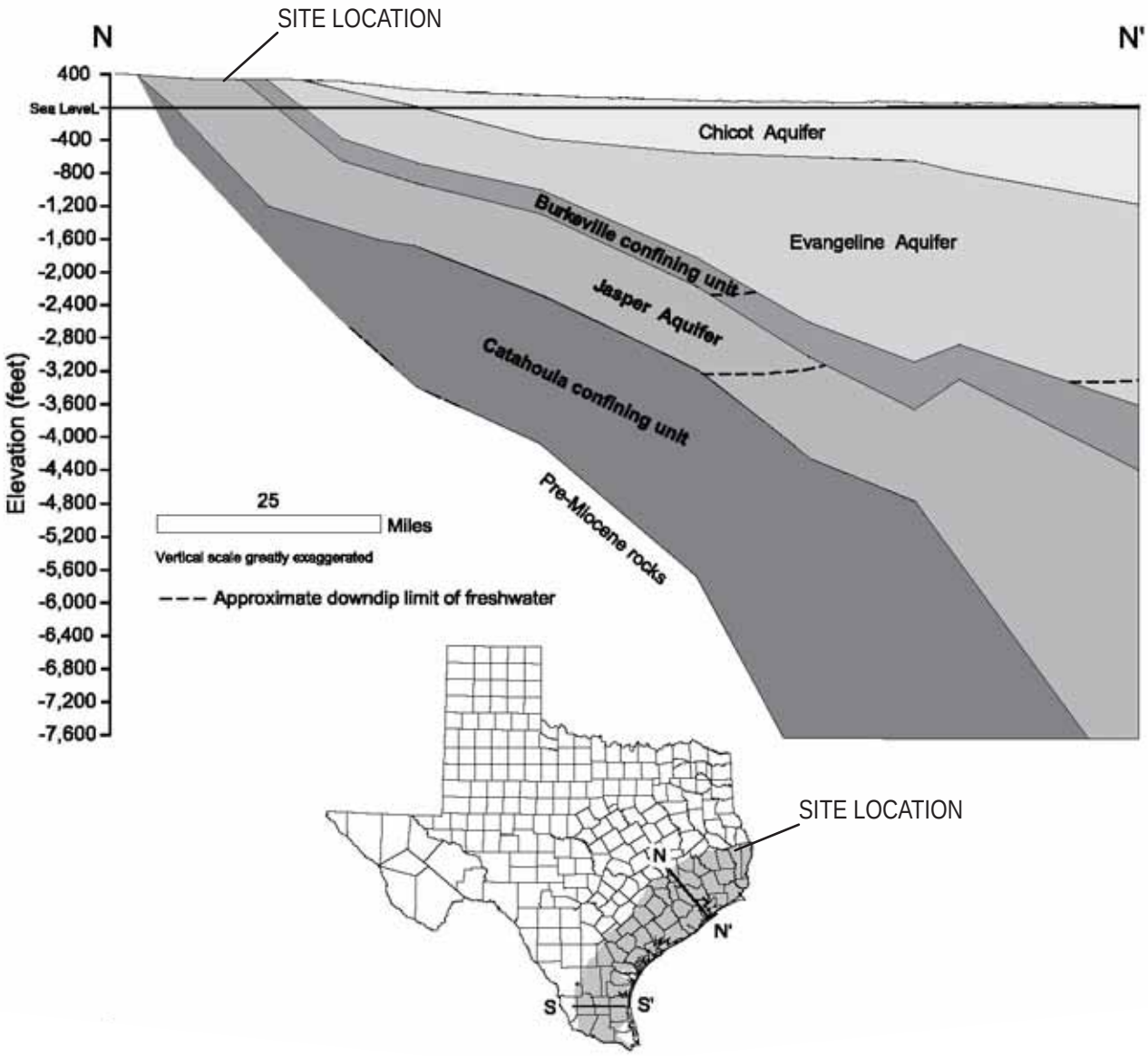


FIGURE 3-1
REGIONAL GEOLOGIC MAP
DETECTION MONITORING
EXIT JUSTIFICATION REPORT
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS

DATE	PROJECT NO	SCALE
NOV. 2023	10472.003.024	AS SHOWN

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Source: Texas Water Development Board. *Aquifers of Texas- Report 380, Page 44, July 2011*

FIGURE 3-2

REGIONAL CROSS-SECTION

TEXAS ELECTRICAL COOPERATIVES, INC.

JASPER, JASPER COUNTY, TEXAS

DATE	PROJECT NO	SCALE
APRIL 2024	10472.003.024.0007	AS SHOWN

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Table 1.--Stratigraphic and Hydrologic Framework of the Southeast Texas Coastal Plain [1/]

Era-them	System	Series	Stratigraphic Units	Hydrogeologic Units	Selected Faunal Markers	Remarks
CENOZOIC	Quaternary	Holocene	Alluvium	Chicot aquifer		Quaternary System undifferentiated on sections.
		Pleistocene	Beaumont Clay Montgomery Formation Bentley Formation Willis Sand			
	Tertiary	Pliocene	Goliad Sand	Evangeline aquifer		
		Miocene	Fleming Formation	Burkeville confining system	*Potamides matsoni* *Bigenerina nodosaria var. directa* *Bigenerina humblei* *Amphistegina sp.*	-
			Oakville Sandstone	Jasper aquifer		Oakville Sandstone included in Fleming Formation east of Washington County.
			Subsurface: Catahoula Sandstone — Upper part of Catahoula Sandstone	Catahoula confining system (restricted)	*Discorbis nomada* *Discorbis gravelli* *Heterostegina sp.* *Marginulina idiomorpha*	Anahuac and "Frio" Formations may be Oligocene in age.
			Subsurface: Anahuac Formation			
			Subsurface: "Frio" Formation		*Textularia mississippiensis*	
			Pre-Miocene rocks			

1/ Modified from Baker (1979, p. 4).

Source: Texas Water Development Board. Hydrology of the Jasper Aquifer in the Southeast Texas Coastal Plain - Report 295, Page 16. October 1986.

WESTON SOLUTIONS

FIGURE 3-3
REGIONAL STRATIGRAPHIC SECTION
DETECTION MONITORING
EXIT JUSTIFICATION REPORT
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS

DATE	PROJECT NO	SCALE
NOV. 2023	10472.003.024	AS SHOWN

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LEGEND

- Background Well
- Corrective Action Observation
- Corrective Action System
- Detection Monitoring Well
- Point of Compliance Well
- Point of Exposure
- Supplemental Well
- Soil Boring
- Deep Monitoring Well
- Parcel Boundary
- Branch Channel
- Shallow Sand Unit Boundary
- Transect Line A
- Transect Line B
- Transect Line C
- Perpendicular Line Projecting SWMU5-SB-04A onto A2-A2' Transect
- Property Boundary
- Waste Management Areas

N

0 250 500

SCALE IN FEET

SOURCE: Imagery (c) 2010 Microsoft Corporation and its data suppliers

WESTON SOLUTIONS

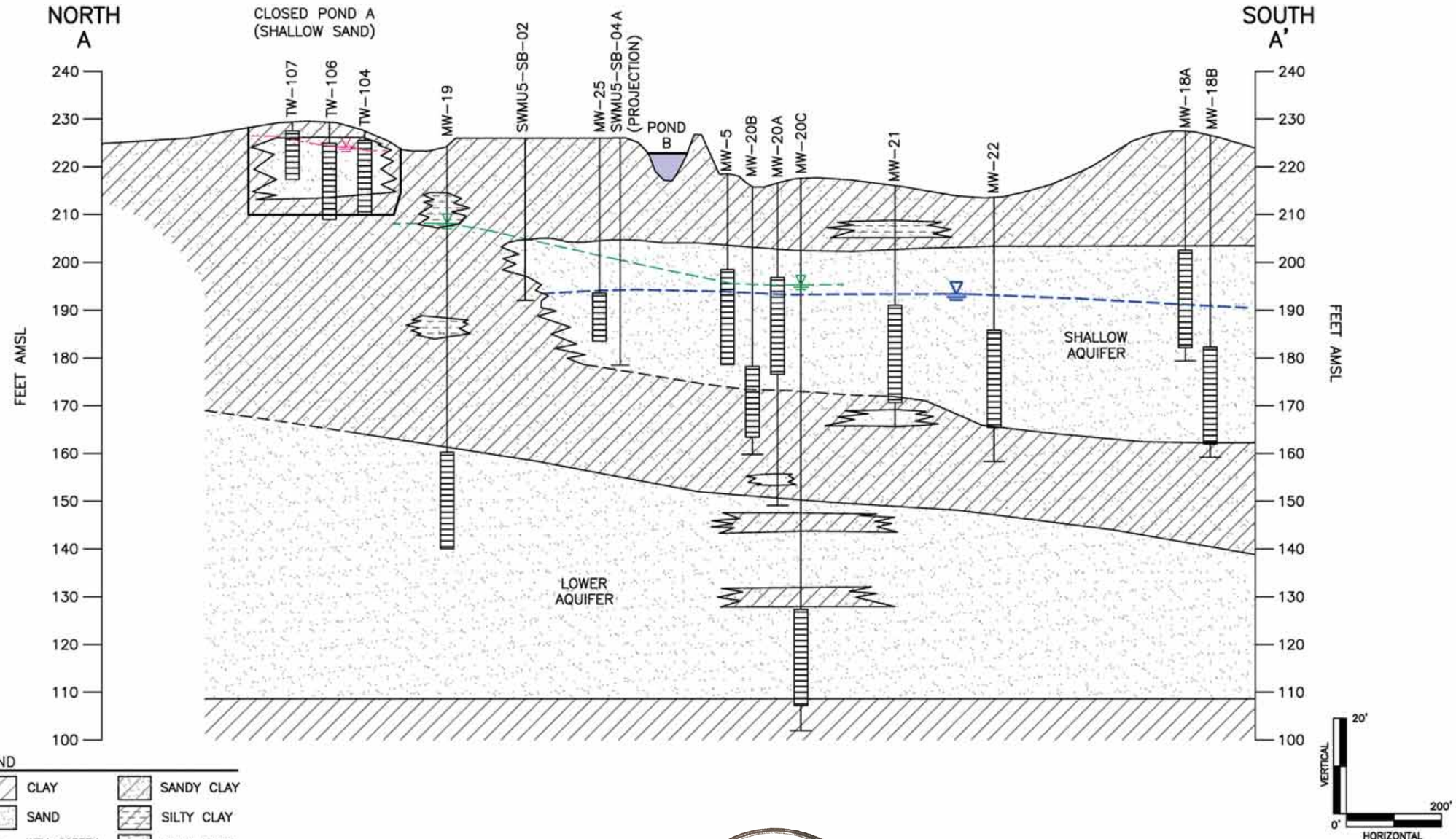
FIGURE 3-4A

CROSS SECTION TRANSECT MAP
DETECTION MONITORING EXIT JUSTIFICATION REPORT
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS

DATE	PROJECT NO	SCALE
APRIL 2024	10472.003.019.1004	AS SHOWN

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LEGEND

- CLAY
- SAND
- WELL SCREEN INTERVAL
- SANDY CLAY
- SILTY CLAY
- SILTY SAND
- SHALLOW AQUIFER GROUNDWATER ELEVATION
- LOWER AQUIFER GROUNDWATER ELEVATION
- WATER LEVEL IN CLOSED POND A

NOTES:

1. GROUNDWATER ELEVATIONS BASED ON MAY 2022 GAUGING/SAMPLING EVENT.
2. AMSL – ABOVE MEAN SEA LEVEL.
3. LITHOLOGIC CONTACTS ARE DASHED WHERE INTERPRETED BASED ON DRILLING METHODS AND LITHOLOGIC CONDITIONS

STATE OF TEXAS
5/28/24
GARRETT L. HAAS
GEOLOGY
15246
LICENSED
PROFESSIONAL GEOSCIENTIST

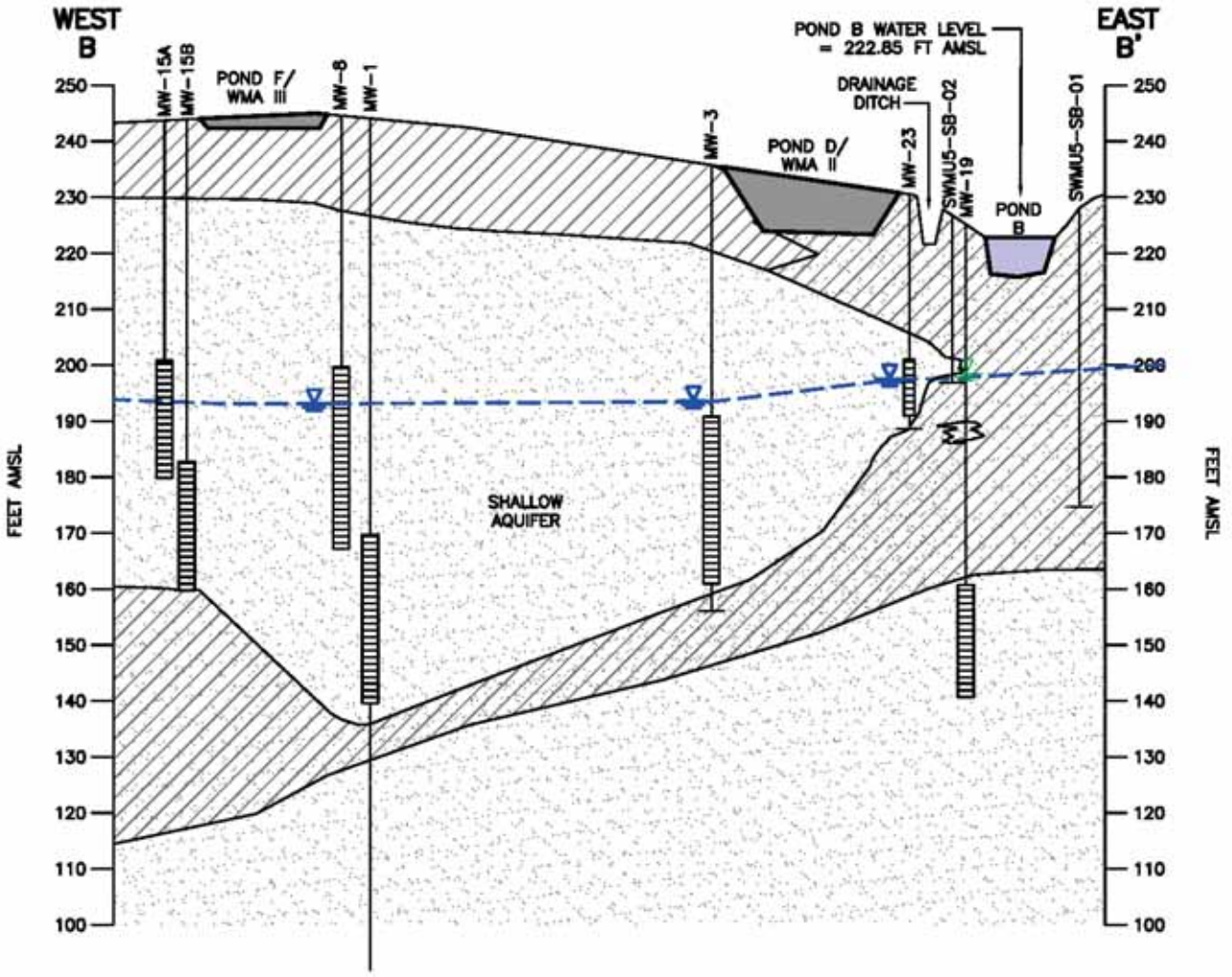
WESTON SOLUTIONS

FIGURE 3-4B

CROSS SECTION A-A'
DETECTION MONITORING EXIT
JUSTIFICATION REPORT
TEXAS ELECTIRC COOPERATIVES, INC.
JASPER, JASPER COUNTY, TEXAS

DATE	PROJECT NO	SCALE
JAN 2024	10472.003.024.0007	AS SHOWN

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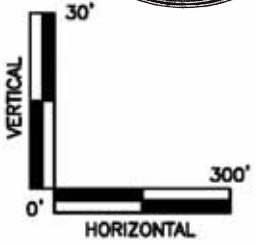
LEGEND

- CLAY
- SAND
- WELL SCREEN INTERVAL
- SANDY CLAY
- SILTY CLAY
- CAPPED WASTE
- SHALLOW AQUIFER GROUNDWATER ELEVATION
- LOWER AQUIFER GROUNDWATER ELEVATION

NOTES:

1. GROUNDWATER ELEVATIONS BASED ON MAY 2022 GAUGING/SAMPLING EVENT.
2. AMSL – ABOVE MEAN SEA LEVEL.
3. LITHOLOGIC CONTACTS ARE DASHED WHERE INTERPRETED BASED ON DRILLING METHODS AND LITHOLOGIC CONDITIONS.
4. MW-1 WAS DRILLED TO A TERMINAL DEPTH OF 70 FEET AMSL. LITHOLOGY DOES NOT CHANGE BETWEEN 100 FT AMSL AND 70 FT AMSL.

STATE OF TEXAS
5/28/24
GARRETT L. HAAS
GEOLOGY
15246
LICENSED
PROFESSIONAL GEOSCIENTIST



WESTON SOLUTIONS

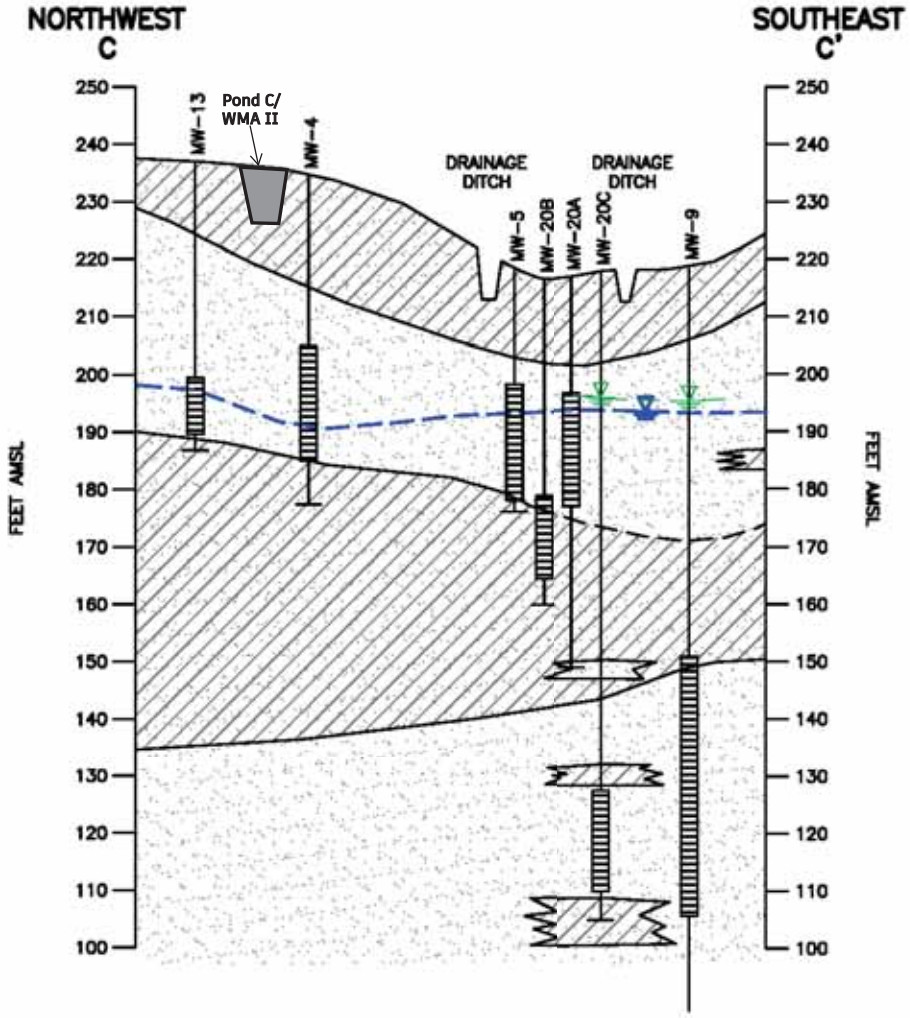
FIGURE 3-4C

CROSS SECTION B-B'
DETECTION MONITORING EXIT
JUSTIFICATION REPORT
TEXAS ELECTIRC COOPERATIVES, INC.
JASPER, JASPER COUNTY, TEXAS

DATE	PROJECT NO	SCALE
APRIL 2024	10472.003.024.0007	AS SHOWN

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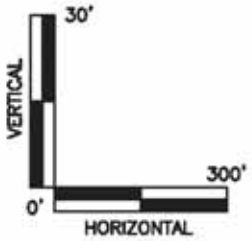
LEGEND

- CLAY
- CAPPED WASTE
- SAND
- SANDY CLAY
- WELL SCREEN INTERVAL
- SHALLOW AQUIFER GROUNDWATER ELEVATION
- LOWER AQUIFER GROUNDWATER ELEVATION

NOTES:

1. GROUNDWATER ELEVATIONS BASED ON MAY 2022 GAUGING/SAMPLING EVENT.
2. AMSL – ABOVE MEAN SEA LEVEL.
3. LITHOLOGIC CONTACTS ARE DASHED WHERE INTERPRETED BASED ON DRILLING METHODS AND LITHOLOGIC CONDITIONS.
4. MW-9 WAS DRILLED TO A TERMINAL DEPTH OF 80 FEET AMSL. LITHOLOGY DOES NOT CHANGE BETWEEN 100 FT AMSL AND 80 FT AMSL.
5. MW-20B IS A RECOVERY WELL THAT IS NOT MEASURED FOR GROUNDWATER ELEVATION.





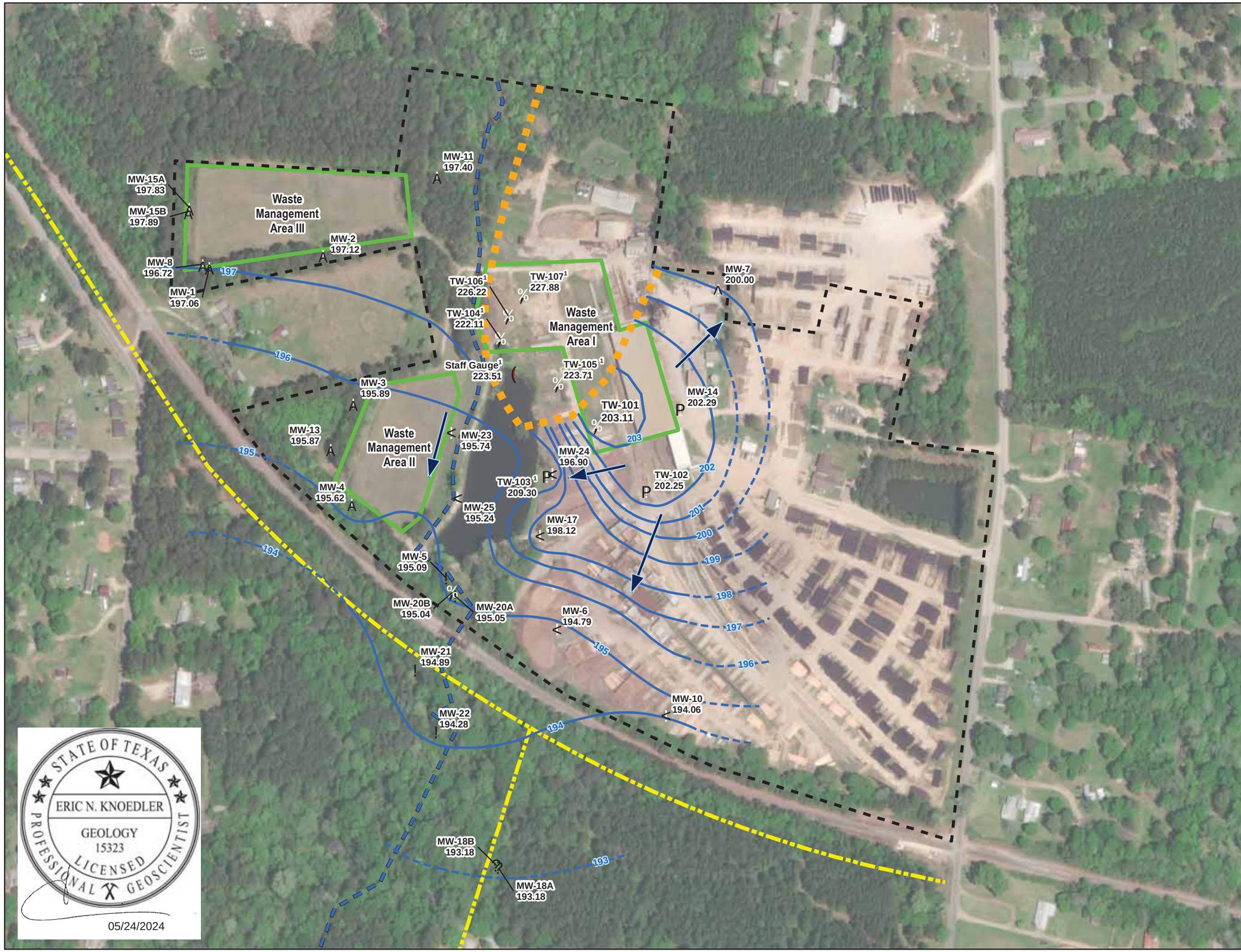
WESTON SOLUTIONS

FIGURE 3-4D

CROSS SECTION C-C'
DETECTION MONITORING EXIT
JUSTIFICATION REPORT
TEXAS ELECTIRC COOPERATIVES, INC.
JASPER, JASPER COUNTY, TEXAS

DATE	PROJECT NO	SCALE
APRIL 2024	10472.003.024.0007	AS SHOWN

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STATE OF TEXAS
ERIC N. KNOEDLER
GEOLOGY
15323
LICENSED
PROFESSIONAL GEOSCIENTIST

05/24/2024

LEGEND

- A — Detection Monitoring Well
- ^ — Background Well
- P — Point of Compliance Well
- ′ — Corrective Action System
- ? — Corrective Action Observation
- < — Supplemental Well
- ! — Point of Exposure Well
- (— Staff Gauge
- Interpreted Potentiometric Contour (ft msl)
  - 202.29 = Groundwater elevation (ft msl)
- Inferred Potentiometric Contour (ft msl)
  - 202.29 = Groundwater elevation (ft msl)
- Groundwater Flow Direction
- Branch Channel
- Parcel Boundary
- Property Boundary
- Waste Management Areas
- Shallow Sand Unit Boundary

Notes:

ft msl = Feet above mean sea level

Groundwater elevation data were collected 18-19 April 2023, except as noted below

[1]Wells TW-103 through TW-107 and Staff Gauge were not used to generate potentiometric surface lines.

Groundwater elevation data for well TW-105 were collected on 27 April 2023

0 250 500

Feet

SOURCE: Imagery (c) 2010 Microsoft Corporation and its data suppliers

WESTON SOLUTIONS

FIGURE 3-5
POTENTIOMETRIC SURFACE MAP
APRIL 2023
DETECTION MONITORING
EXIT JUSTIFCATION REPORT
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS

DATE	PROJECT NO	SCALE
FEB 2024	10472.003.024	AS SHOWN

FILE: G:\Commercial\Texas Electrical Coop\Jasper\001_GW Quarterly Reports\mxd\2023\Figure 2 - Groundwater Gradient Map - April2023_UpperWBZ.mxd 2:27:10 PM 2/9/2024 gomezd

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MW-15A
195.19

MW-15B
195.99

MW-8
196.32

MW-1
194.72

MW-2
196.00

MW-11
196.64

Waste Management Area III

Waste Management Area I

Waste Management Area II

TW-107[1]
224.99

TW-106[1]
221.91

TW-104[1]
219.24

Staff Gauge[1]
222.58

TW-105[1]
219.81

MW-7
199.70

MW-14
201.15

TW-101
202.74

TW-102
202.01

MW-3
194.62

MW-13
194.00

MW-23
194.34

MW-24
195.36

TW-103[1]
206.46

MW-25
193.73

MW-4
193.94

MW-17
197.49

MW-5
193.34

MW-20B
193.22

MW-20A
193.14

MW-6
193.21

MW-21
193.27

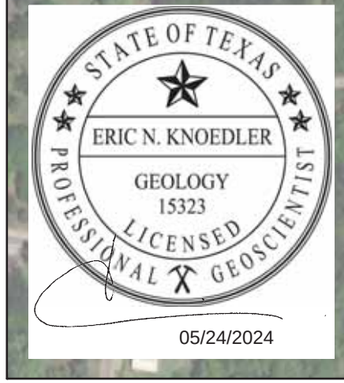
MW-22
192.42

MW-10
192.91

MW-18B
191.52

MW-18A
191.51

196
195
194
193
192
191
202
201
200
199
198
197
196
195
194
193
192
191



05/24/2024

LEGEND

- Background Well
- Corrective Action Observation
- Corrective Action System
- Detection Monitoring Well
- Point of Compliance Well
- Point of Exposure Well
- Supplemental Well
- Staff Gauge
- Interpolated Potentiometric Contour (ft msl)
  202.29 = Groundwater elevation (ft msl)
- Inferred Potentiometric Contour (ft msl)
  202.29 = Groundwater elevation (ft msl)
- Groundwater Flow Direction
- Branch Channel
- Parcel Boundary
- Property Boundary
- Waste Management Areas
- Shallow Sand Unit Boundary

Notes:

ft msl = Feet above mean sea level

Groundwater elevation data were collected Oct. 17 2023, except as noted below

[1] Wells TW-103, TW-107, and Staff Gauge were not used to generate Potentiometric surface lines

N

0 250 500

SCALE IN FEET

SOURCE: Imagery (c) 2010 Microsoft Corporation and its data suppliers

WESTON SOLUTIONS

FIGURE 3-6
POTENTIOMETRIC SURFACE MAP
OCTOBER 2023
DETECTION MONITORING
EXIT JUSTIFICATION REPORT
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS

DATE	PROJECT NO	SCALE
FEB 2023	10472.003.024	AS SHOWN

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TABLES

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TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
WMA I Wells				
MW-5	01/21/03	221.51	25.68	195.83
	07/28/03	221.51	26.55	194.96
	01/28/04	221.51	26.95	194.56
	07/12/04	221.51	25.10	196.41
	01/12/05	221.51	25.52	195.99
	07/11/05	221.51	26.90	194.61
	01/25/06	221.51	27.81	193.70
	07/10/06	221.51	27.40	194.11
	01/22/07	221.51	26.60	194.91
	07/16/07	221.51	26.50	195.01
	01/16/08	221.51	27.57	193.94
	07/21/08	221.51	27.79	193.72
	01/19/09	221.51	27.60	193.91
	07/08/09	221.51	27.85	193.66
	01/04/10	221.51	27.00	194.51
	07/13/10	221.51	27.61	193.90
	01/18/11	221.51	28.80	192.71
	07/26/11	221.51	29.35	192.16
	01/10/12	221.51	29.60	191.91
	07/23/12	221.51	28.20	193.31
	01/14/13	221.51	29.10	192.41
	07/22/13	221.51	28.48	193.03
	01/13/14	221.51	28.55	192.96
	07/21/14	221.51	28.47	193.04
	01/12/15	221.51	28.70	192.81
	07/27/15	221.51	27.40	194.11
	01/25/16	221.51	27.38	194.13
	07/18/16	221.51	26.20	195.31
	01/30/17	221.51	27.54	193.97
	07/17/17	221.51	26.88	194.63
	01/15/18	221.51	27.22	194.29
	07/23/18	221.51	26.62	194.89
	01/14/19	221.51	26.20	195.31
	06/25/19	221.51	25.70	195.81
	01/20/20	221.51	25.95	195.56
	07/30/20	221.51	24.40	197.11
	05/27/21	221.51	24.69	196.82
	10/14/21	221.51	25.67	195.84
	05/03/22	220.90	25.44	195.46
	10/04/22	220.90	27.00	193.90
	04/18/23	220.90	25.81	195.09
	10/17/23	220.90	27.56	193.34

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-6	01/21/03	229.93	34.12	195.81
	07/28/03	229.93	35.03	194.90
	01/28/04	229.93	35.40	194.53
	07/12/04	229.93	33.46	196.47
	01/12/05	229.93	33.86	196.07
	07/11/05	229.93	34.84	54.08
	01/25/06	229.93	35.78	194.15
	07/10/06	229.93	35.60	194.33
	01/22/07	229.93	34.67	195.26
	07/16/07	229.93	34.70	195.26
	01/16/08	229.93	35.50	195.26
	07/21/08	229.93	35.81	195.26
	01/19/09	229.93	35.44	195.26
	07/07/09	229.93	33.65	195.26
	01/04/10	229.93	35.10	195.26
	07/13/10	229.93	35.71	194.22
	01/18/11	229.93	37.21	192.72
	07/26/11	229.93	36.11	193.82
	01/10/12	229.93	38.03	191.90
	07/23/12	229.93	36.66	193.27
	01/14/13	229.93	39.60	190.33
	07/22/13	229.93	36.99	192.94
	01/13/14	229.93	37.05	192.88
	07/21/14	229.93	36.96	192.97
	01/13/15	229.93	37.35	192.58
	07/27/15	229.93	45.18	184.75
	01/25/16	229.93	45.25	184.68
	07/18/16	229.93	34.80	195.13
	01/30/17	229.93	36.14	193.79
	07/17/17	229.93	35.45	194.48
	01/15/18	229.93	35.81	194.12
	07/23/18	229.93	35.22	194.71
	01/14/19	229.93	34.75	195.18
	06/25/19	229.93	34.29	195.64
	01/20/20	229.93	34.73	195.20
	07/27/20	229.93	34.95	194.98
	05/27/21	229.93	33.29	196.64
	10/14/21	229.93	35.41	194.52
	05/03/22	229.41	34.61	194.80
	10/04/22	229.41	35.79	193.62
	04/18/23	229.41	34.62	194.79
	10/17/23	229.41	36.20	193.21

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-7	01/21/03	249.75	50.15	199.60
	07/28/03	249.75	50.45	199.30
	01/28/04	249.75	50.74	199.01
	07/12/04	249.75	50.40	199.35
	01/14/05	249.75	50.88	198.87
	07/11/05	249.75	50.33	61.00
	01/24/06	249.75	50.78	198.97
	07/11/06	249.75	50.58	199.17
	01/22/07	249.75	50.75	199.00
	07/16/07	249.75	50.49	199.26
	01/16/08	249.75	50.43	199.32
	07/21/08	249.75	50.82	198.93
	01/19/09	249.75	50.45	199.30
	07/07/09	249.75	50.72	199.03
	01/04/10	249.75	50.89	198.86
	07/13/10	249.75	50.78	198.97
	01/18/11	249.75	50.65	199.10
	07/26/11	249.75	50.82	198.93
	01/10/12	249.75	50.81	198.94
	07/23/12	249.75	50.38	199.37
	01/14/13	249.75	51.13	198.62
	07/22/13	249.75	50.98	198.77
	01/13/14	249.75	50.95	198.80
	07/21/14	249.75	50.81	198.94
	01/13/15	249.75	51.17	198.58
	07/27/15	249.75	50.98	198.77
	01/25/16	249.75	51.15	198.60
	07/18/16	249.75	51.08	198.67
	01/30/17	249.75	51.07	198.68
	07/17/17	249.75	50.98	198.77
	01/15/18	249.75	51.03	198.72
	07/23/18	249.75	50.80	198.95
	01/14/19	249.75	51.11	198.64
	06/25/19	249.75	50.80	198.95
	01/20/20	249.75	50.90	198.85
	07/27/20	249.75	50.61	199.14
	05/27/21	249.75	51.10	198.65
	10/13/21	249.75	50.38	199.37
	05/06/22	250.47	50.61	199.86
	10/04/22	250.47	51.60	198.87
	04/18/23	250.47	50.47	200.00
	10/17/23	250.47	50.77	199.70

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-9	01/21/03	221.75	25.31	196.44
	07/28/03	221.75	26.22	195.53
	01/28/04	221.75	26.61	195.14
	07/12/04	221.75	24.66	197.09
	01/12/05	221.75	25.03	196.72
	07/11/05	221.75	25.75	114.00
	01/25/06	221.75	26.67	195.08
	07/10/06	221.75	NM	NM
	01/22/07	221.75	25.61	196.14
	07/16/07	221.75	NM	NM
	01/16/08	221.75	26.62	195.13
	07/21/08	221.75	NM	NM
	01/19/09	221.75	26.73	195.02
	07/07/09	221.75	NM	NM
	01/04/10	221.75	26.26	195.49
	07/12/10	221.75	NM	NM
	01/18/11	221.75	28.00	193.75
	07/26/11	221.75	NM	NM
	01/10/12	221.75	28.90	192.85
	07/23/12	221.75	27.44	194.31
	01/14/13	221.75	27.34	194.41
	07/22/13	221.75	26.89	194.86
	01/13/14	221.75	27.90	193.85
	07/21/14	221.75	27.82	193.93
	01/13/15	221.75	28.12	193.63
	07/27/15	221.75	26.75	195.00
	01/25/16	221.75	26.82	194.93
	07/18/16	221.75	NM	NM
	01/30/17	221.75	26.95	194.80
	07/17/17	221.75	26.94	194.81
	01/15/18	221.75	27.13	194.62
	07/23/18	221.75	26.47	195.28
	01/14/19	221.75	25.88	195.87
	06/25/19	221.75	25.55	196.20
	01/20/20	221.75	25.94	195.81
	07/27/20	221.75	26.30	195.45
	05/27/21	221.75	24.48	197.27
	10/13/21	221.75	NM	NM
	05/04/22	221.05	25.50	195.55
	10/04/22	221.05	26.49	194.56
	04/18/23	221.05	25.33	195.72
	10/17/23	221.05	26.86	194.19

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-10	01/21/03	239.05	43.76	195.29
	08/18/03	239.05	45.20	193.85
	01/28/04	239.05	35.00	204.05
	07/12/04	239.05	44.60	NM
	01/12/05	239.05	NM	NM
	07/11/05	239.05	NM	58.00
	01/25/06	239.05	45.48	193.57
	07/11/06	239.50	45.56	193.94
	01/22/07	239.05	44.55	194.50
	07/16/07	239.05	44.72	194.33
	01/16/08	239.05	45.48	193.57
	07/21/08	239.05	45.84	193.21
	01/19/09	239.05	45.45	193.60
	07/07/09	239.05	45.75	193.30
	01/04/10	239.05	46.22	192.83
	07/12/10	239.05	46.22	192.83
	01/18/11	239.05	46.84	192.21
	07/26/11	239.05	47.01	192.04
	01/09/12	239.05	46.04	193.01
	07/23/12	239.05	46.77	192.28
	01/14/13	239.05	48.81	190.24
	07/22/13	239.05	47.03	192.02
	01/13/14	239.05	47.14	191.91
	07/21/14	239.05	47.07	191.98
	01/13/15	239.05	47.40	191.65
	07/27/15	239.05	35.81	203.24
	01/25/16	239.05	35.95	203.10
	07/18/16	239.05	45.75	193.30
	01/30/17	239.05	NM	NM
	07/17/17	239.05	NM	NM
	01/15/18	239.05	45.48	193.57
	07/23/18	239.05	44.95	194.10
	01/14/19	239.05	44.36	194.69
	06/25/19	239.05	44.95	194.10
	01/20/20	239.05	43.98	195.07
	07/27/20	239.05	44.49	194.56
	05/27/21	239.05	42.80	196.25
	10/13/21	239.05	44.40	194.65
	05/03/22	239.56	45.35	194.21
	10/04/22	239.56	46.28	193.28
	04/18/23	239.56	45.50	194.06
	10/17/23	239.56	46.65	192.91

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-14	01/21/03	245.88	43.42	202.46
	07/28/03	245.88	43.91	201.97
	01/28/04	245.88	44.18	201.70
	07/12/04	245.88	43.82	202.06
	01/12/05	245.88	43.35	202.53
	07/11/05	245.88	43.68	NM
	01/26/06	245.88	43.95	201.93
	07/11/06	245.88	43.71	202.17
	01/22/07	245.88	43.70	202.18
	07/16/07	245.88	43.68	202.20
	01/16/08	245.88	43.68	202.20
	07/21/08	245.88	43.74	202.14
	01/19/09	245.88	43.36	202.52
	07/07/09	245.88	43.75	202.13
	01/04/10	245.88	43.67	202.21
	01/04/10	245.88	43.67	202.21
	07/13/10	245.88	43.61	202.27
	01/19/11	245.88	43.81	202.07
	07/27/11	245.88	43.77	202.11
	01/11/12	245.88	43.70	202.18
	07/23/12	245.88	44.02	201.86
	01/14/13	245.88	44.00	201.88
	07/22/13	245.88	44.10	201.78
	01/13/14	245.88	44.30	201.58
	07/21/14	245.88	44.21	201.67
	01/13/15	245.88	44.18	201.70
	07/27/15	245.88	43.89	201.99
	01/25/16	245.88	44.00	201.88
	07/19/16	245.88	NM	NM
	01/30/17	245.88	43.90	201.98
	07/18/17	245.88	43.96	201.92
	01/30/17	245.88	43.90	201.98
	07/23/18	245.88	43.73	202.15
	01/14/19	245.88	43.96	201.92
	06/25/19	245.88	43.80	202.08
	01/20/20	245.88	43.91	201.97
	07/27/20	245.88	43.63	202.25
	05/27/21	245.88	43.46	202.42
	10/13/21	245.88	NM	NM
	05/06/22	246.00	43.61	202.39
	10/04/22	246.00	43.66	202.34
	04/18/23	246.00	43.71	202.29
	10/17/23	246.00	44.85	201.15

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-17	01/21/03	227.63	29.60	198.03
	07/28/03	227.63	29.98	197.65
	01/28/04	227.63	30.20	197.43
	07/12/04	227.63	29.36	198.27
	01/12/05	227.63	29.50	198.13
	07/11/05	227.63	29.90	NM
	01/26/06	227.63	30.09	197.54
	07/11/06	227.63	26.90	200.73
	01/22/07	227.63	29.59	198.04
	07/16/07	227.63	29.49	198.14
	01/16/08	227.63	29.67	197.96
	07/21/08	227.63	29.64	197.99
	01/19/09	227.63	29.38	198.25
	07/07/09	227.63	29.30	198.33
	01/04/10	227.63	DRY	DRY
	07/12/10	227.63	DRY	DRY
	01/17/11	227.63	DRY	DRY
	07/27/11	227.63	DRY	DRY
	01/10/12	227.63	DRY	DRY
	07/23/12	227.63	DRY	DRY
	01/14/13	227.63	DRY	DRY
	07/22/13	227.63	DRY	DRY
	01/13/14	227.63	DRY	DRY
	07/21/14	227.63	DRY	DRY
	01/12/15	227.63	DRY	DRY
	07/27/15	227.63	DRY	DRY
	01/25/16	227.63	DRY	DRY
	07/18/16	227.63	NM	NM
	01/30/17	227.63	DRY	DRY
	07/17/17	227.63	29.30	198.33
	01/15/18	227.63	29.57	198.06
	07/23/18	227.63	29.59	198.04
	01/14/19	227.63	29.65	197.98
	06/25/19	227.63	29.35	198.28
	01/20/20	227.63	29.64	197.99
	07/27/20	227.63	29.51	198.12
	05/27/21	227.63	29.80	197.83
	10/13/21	227.63	29.29	198.34
	05/03/22	227.94	28.48	199.46
	10/04/22	227.94	30.15	197.79
	04/18/23	227.94	29.82	198.12
	10/17/23	227.94	30.45	197.49

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-18A	01/21/03	230.45	36.81	193.64
	07/28/03	230.45	37.98	192.47
	01/29/04	230.45	38.40	192.05
	07/12/04	230.45	36.31	194.14
	01/12/05	230.45	36.92	193.53
	07/11/05	230.45	37.52	48.00
	01/25/06	230.45	38.38	192.07
	07/11/06	230.45	38.40	192.05
	01/22/07	230.45	36.65	193.80
	07/16/07	230.45	37.50	192.95
	01/16/08	230.45	38.41	192.04
	07/21/08	230.45	38.70	191.75
	01/19/09	230.45	38.30	192.15
	07/07/09	230.45	38.05	192.40
	01/04/10	230.45	37.71	192.74
	07/12/10	230.45	38.60	191.85
	01/18/11	230.45	39.61	190.84
	07/26/11	230.45	40.15	190.30
	01/10/12	230.45	40.40	190.05
	07/23/12	230.45	39.18	191.27
	01/14/13	230.45	39.91	190.54
	07/22/13	230.45	39.51	190.94
	01/13/14	230.45	39.60	190.85
	07/21/14	230.45	39.55	190.90
	01/13/15	230.45	39.75	190.70
	07/27/15	230.45	38.57	191.88
	01/25/16	230.45	38.63	191.82
	07/19/16	230.45	37.54	192.91
	01/30/17	230.45	38.69	191.76
	07/18/17	230.45	37.96	192.49
	01/15/18	230.45	38.49	191.96
	07/23/18	230.45	37.80	192.65
	01/14/19	230.45	37.08	193.37
	06/25/19	230.45	37.91	192.54
	01/20/20	230.45	37.30	193.15
	07/27/20	230.45	37.67	192.78
	05/27/21	230.45	NM	NM
	10/14/21	230.45	36.97	193.48
	05/04/22	230.08	37.22	192.86
	10/04/22	230.08	38.29	191.79
	04/19/23	230.08	36.90	193.18
	10/17/23	230.08	38.57	191.51

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-18B	01/21/03	230.27	36.72	193.55
	07/28/03	230.27	37.85	192.42
	01/29/04	230.27	38.25	192.02
	07/12/04	230.27	36.16	194.11
	01/12/05	230.27	36.80	193.47
	07/11/05	230.27	37.38	67.83
	01/25/06	230.27	38.23	192.04
	07/11/06	230.27	38.30	191.97
	01/22/07	230.27	37.05	193.22
	07/16/07	230.27	37.40	192.87
	01/16/08	230.27	38.30	191.97
	07/21/08	230.27	38.58	191.69
	01/19/09	230.27	38.22	192.05
	07/07/09	230.27	37.95	192.32
	01/04/10	230.27	37.61	192.66
	07/12/10	230.27	38.42	191.85
	01/18/11	230.27	39.49	190.78
	07/26/11	230.27	40.04	190.23
	01/10/12	230.27	40.30	189.97
	07/23/12	230.27	39.06	191.21
	01/14/13	230.27	39.81	190.46
	07/22/13	230.27	39.41	190.86
	01/13/14	230.27	39.51	190.76
	07/21/14	230.27	39.44	190.83
	01/13/15	230.27	39.63	190.64
	07/27/15	230.27	38.48	191.79
	01/25/16	230.27	38.53	191.74
	07/19/16	230.27	37.48	192.79
	01/30/17	230.27	38.58	191.69
	07/18/17	230.27	37.85	192.42
	01/15/18	230.27	38.38	191.89
	07/23/18	230.27	37.70	192.57
	01/14/19	230.27	36.98	193.29
	06/25/19	230.27	36.75	193.52
	01/20/20	230.27	37.18	193.09
	07/27/20	230.27	37.57	192.70
	05/27/21	230.27	NM	NM
	10/14/21	230.27	36.57	193.70
	05/04/22	229.89	37.31	192.58
	10/04/22	229.89	38.09	191.80
	04/19/23	229.89	36.71	193.18
	10/17/23	229.89	38.37	191.52

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-19	01/21/03	228.81	31.41	197.40
	07/28/03	228.81	32.30	196.51
	01/28/04	228.81	32.85	195.96
	07/12/04	228.81	30.80	198.01
	01/12/05	228.81	DRY	Dry
	07/11/05	228.81	NM	NM
	01/24/06	228.81	32.70	196.11
	07/11/06	228.81	NM	NM
	01/22/07	228.81	31.90	196.91
	07/16/07	228.81	NM	NM
	01/16/08	228.81	32.72	196.09
	07/21/08	228.81	NM	NM
	01/19/09	228.81	32.60	196.21
	07/07/09	228.81	NM	NM
	01/04/10	228.81	32.56	196.25
	07/12/10	228.81	NM	NM
	01/18/11	228.81	34.11	194.70
	07/26/11	228.81	NM	NM
	01/10/12	228.81	34.99	193.82
	07/23/12	228.81	32.77	196.04
	01/14/13	228.81	NM	NM
	07/22/13	228.81	32.43	196.38
	01/13/14	228.81	NM	NM
	07/21/14	228.81	NM	NM
	01/12/15	228.81	NM	NM
	07/27/15	228.81	28.00	NM
	01/25/16	228.81	28.78	200.03
	07/18/16	228.81	NM	NM
	01/30/17	228.81	NM	NM
	07/17/17	228.81	32.14	196.67
	01/15/18	228.81	32.44	196.37
	07/23/18	228.81	31.83	196.98
	01/14/19	228.81	31.50	197.31
	06/25/19	228.81	30.74	198.07
	01/20/20	228.81	31.27	197.54
	07/27/20	228.81	31.50	197.31
	05/27/21	228.81	30.78	198.03
	10/14/21	228.81	NM	NM
	05/04/22	228.90	31.83	197.07
	10/04/22	228.90	32.84	196.06
	04/18/23	228.90	31.66	197.24
	10/17/23	228.90	33.16	195.74

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-20A	08/18/03	218.67	23.88	194.79
	01/28/04	218.67	24.95	193.72
	07/12/04	218.67	32.12	186.55
	01/12/05	218.67	23.51	195.16
	07/11/05	218.67	25.20	42.50
	01/24/06	218.67	26.05	192.62
	07/10/06	218.67	25.40	193.27
	01/22/07	218.67	24.68	193.99
	07/16/07	218.67	24.62	194.05
	01/16/08	218.67	25.73	192.94
	07/21/08	218.67	25.94	192.73
	01/19/09	218.67	25.65	193.02
	07/07/09	218.67	25.32	193.35
	01/04/10	218.67	25.08	193.59
	07/13/10	218.67	25.75	192.92
	01/17/11	218.67	26.81	191.86
	07/26/11	218.67	27.50	191.17
	01/10/12	218.67	27.70	190.97
	07/23/12	218.67	26.58	192.09
	01/14/13	218.67	26.48	192.19
	07/22/13	218.67	26.58	192.09
	01/13/14	218.67	26.63	192.04
	07/21/14	218.67	26.57	192.10
	01/12/15	218.67	26.70	191.97
	07/27/15	218.67	25.71	192.96
	01/25/16	218.67	25.58	193.09
	07/18/16	218.67	24.21	194.46
	01/30/17	218.67	25.61	193.06
	07/17/17	218.67	24.92	193.75
	01/15/18	218.67	25.28	193.39
	07/23/18	218.67	24.71	193.96
	01/14/19	218.67	24.75	193.92
	06/25/19	218.67	DRY	DRY
	01/20/20	218.67	DRY	DRY
	07/27/20	218.67	24.21	194.46
	05/27/21	218.67	22.64	196.03
	10/14/21	218.67	23.48	195.19
	05/03/22	218.73	23.87	194.86
	10/04/22	218.73	24.89	193.84
	04/18/23	218.73	23.68	195.05
	10/17/23	218.73	25.59	193.14

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-20B	09/19/03	218.71	24.16	194.55
	01/28/04	218.71	24.78	193.93
	07/12/04	218.71	22.94	195.77
	01/12/05	218.71	23.35	195.36
	07/11/05	218.71	NM	55.08
	01/24/06	218.71	NM	NM
	07/10/06	218.71	NM	NM
	01/22/07	218.71	NM	NM
	07/16/07	218.71	NM	NM
	01/16/08	218.71	NM	NM
	07/21/08	218.71	NM	NM
	01/19/09	218.71	NM	NM
	07/07/09	218.71	NM	NM
	01/04/10	218.71	NM	NM
	07/12/10	218.71	NM	NM
	01/17/11	218.71	NM	NM
	07/26/11	218.71	NM	NM
	01/10/12	218.71	NM	NM
	07/23/12	218.71	NM	NM
	01/14/13	218.71	NM	NM
	07/22/13	218.71	NM	NM
	01/13/14	218.71	NM	NM
	07/21/14	218.71	NM	NM
	01/12/15	218.71	NM	NM
	07/27/15	218.71	NM	NM
	01/25/16	218.71	NM	NM
	07/18/16	218.71	NM	NM
	01/30/17	218.71	NM	NM
	07/17/17	218.71	NM	NM
	01/15/18	218.71	NM	NM
	07/23/18	218.71	NM	NM
	01/14/19	218.71	NM	NM
	06/25/19	218.71	NM	NM
	01/20/20	218.71	NM	NM
	07/27/20	218.71	NM	NM
	05/27/21	218.71	NM	NM
	10/14/21	218.71	TOC	NM
	05/03/22	218.78	NM	NM
	10/04/22	218.78	NM	NM
	04/14/23	218.78	23.74	195.04
	10/17/23	218.78	25.65	193.13

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-20C	09/19/03	220.74	25.93	194.81
	01/28/04	220.74	26.30	194.44
	07/12/04	220.74	24.37	196.37
	01/12/05	220.74	24.65	196.09
	07/11/05	220.74	25.46	110.08
	01/25/06	220.74	26.28	194.46
	07/10/06	220.74	NM	NM
	01/22/07	220.74	25.15	195.59
	07/16/07	220.74	NM	NM
	01/16/08	220.74	26.32	194.42
	07/21/08	220.74	NM	NM
	01/19/09	220.74	26.70	194.04
	07/07/09	220.74	NM	NM
	01/04/10	220.74	26.02	194.72
	07/12/10	220.74	NM	NM
	01/17/11	220.74	27.55	193.19
	07/26/11	220.74	NM	NM
	01/10/12	220.74	28.50	192.24
	07/23/12	220.74	27.10	193.64
	01/14/13	220.74	28.02	192.72
	07/22/13	220.74	27.65	193.09
	01/13/14	220.74	27.54	193.20
	07/21/14	220.74	27.47	193.27
	01/12/15	220.74	27.70	193.04
	07/27/15	220.74	26.44	194.30
	01/25/16	220.74	26.55	194.19
	07/18/16	220.74	NM	NM
	01/30/17	220.74	26.62	194.12
	07/17/17	220.74	26.06	194.68
	01/15/18	220.74	26.37	194.37
	07/23/18	220.74	27.64	193.10
	01/14/19	220.74	28.01	192.73
	06/25/19	220.74	24.78	195.96
	01/20/20	220.74	25.20	195.54
	07/27/20	220.74	25.51	195.23
	05/27/21	220.74	23.73	197.01
	10/14/21	220.74	NM	NM
	05/03/22	220.80	25.57	195.23
	10/04/22	220.80	26.59	194.21
	04/18/23	220.80	24.52	196.28
	10/17/23	220.80	26.96	193.84

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-21	03/29/05	218.89	22.30	196.59
	07/12/05	218.89	24.02	NM
	01/26/06	218.89	24.95	193.94
	07/11/06	218.89	24.54	194.35
	01/22/07	218.89	23.79	195.10
	07/16/07	218.89	23.78	195.11
	01/16/08	218.89	24.70	194.19
	07/21/08	218.89	24.97	193.92
	01/19/09	218.89	24.70	194.19
	07/07/09	218.89	24.40	194.49
	01/04/10	218.89	24.21	194.68
	07/12/10	218.89	24.80	194.09
	01/18/11	218.89	25.99	192.90
	07/27/11	218.89	26.65	192.24
	01/11/12	218.89	26.90	191.99
	07/23/12	218.89	27.37	191.52
	01/14/13	218.89	26.40	192.49
	07/22/13	218.89	25.81	193.08
	01/13/14	218.89	25.93	192.96
	07/21/14	218.89	25.85	193.04
	01/13/15	218.89	24.00	194.89
	07/27/15	218.89	NM	NM
	01/25/16	218.89	NM	NM
	07/19/16	218.89	23.35	195.54
	01/30/17	218.89	24.88	194.01
	07/19/17	218.89	24.26	194.63
	01/15/18	218.89	24.57	194.32
	07/23/18	218.89	24.02	194.87
	01/14/19	218.89	23.50	195.39
	06/25/19	218.89	23.18	195.71
	01/20/20	218.89	23.46	195.43
	07/27/20	218.89	23.75	195.14
	05/27/21	218.89	22.13	196.76
	10/14/21	218.89	23.32	195.57
	05/05/22	218.97	23.97	195.00
	10/04/22	218.97	25.24	193.73
	04/19/23	218.97	24.08	194.89
	10/17/23	218.97	25.70	193.27

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-22	03/29/05	216.28	20.88	195.40
	07/12/05	216.28	21.99	NM
	01/25/06	216.28	25.67	190.61
	07/11/06	216.28	22.64	193.64
	01/22/07	216.28	21.38	194.90
	07/16/07	216.28	21.83	194.45
	01/16/08	216.28	22.72	193.56
	07/21/08	216.28	23.10	193.18
	01/19/09	216.28	22.80	193.48
	07/07/09	216.28	22.58	193.70
	01/04/10	216.28	22.22	194.06
	07/12/10	216.28	23.02	193.26
	01/18/11	216.28	26.10	190.18
	07/27/11	216.28	24.67	191.61
	01/11/12	216.28	24.95	191.33
	07/23/12	216.28	25.90	190.38
	01/14/13	216.28	24.54	191.74
	07/22/13	216.28	24.05	192.23
	01/13/14	216.28	24.58	191.70
	07/21/14	216.28	24.37	191.91
	01/13/15	216.28	24.29	191.99
	07/27/15	216.28	NM	NM
	01/25/16	216.28	NM	NM
	07/19/16	216.28	22.32	193.96
	01/30/17	216.28	23.21	193.07
	07/19/17	216.28	22.58	193.70
	01/15/18	216.28	22.95	193.33
	07/23/18	216.28	22.55	193.73
	01/14/19	216.28	21.65	194.63
	06/25/19	216.28	21.39	194.89
	01/20/20	216.28	21.83	194.45
	07/27/20	216.28	22.23	194.05
	05/27/21	216.28	20.98	195.30
	10/14/21	216.28	21.72	194.56
	05/05/22	216.37	22.11	194.26
	10/04/22	216.37	23.52	192.85
	04/19/23	216.37	22.09	194.28
	10/17/23	216.37	23.95	192.42

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-23	05/04/22	233.80	38.05	195.75
	10/04/22	233.80	39.06	194.74
	04/18/23	233.80	38.06	195.74
	10/17/23	233.80	39.46	194.34
MW-24	05/05/22	231.25	34.48	196.77
	10/04/22	231.25	35.50	195.75
	04/18/23	231.25	34.35	196.90
	10/17/23	231.25	35.89	195.36
MW-25	05/04/22	225.48	30.20	195.28
	10/04/22	225.48	31.10	194.38
	04/18/23	225.48	30.24	195.24
	10/17/23	225.48	31.75	193.73
TW-101	05/02/22	234.45	31.34	203.11
	10/04/22	234.45	31.56	202.89
	04/18/23	234.45	31.34	203.11
	10/17/23	234.45	31.71	202.74

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
TW-102	01/21/03	240.35	38.14	202.21
	07/28/03	240.35	38.07	202.28
	01/28/04	240.35	38.50	201.85
	07/12/04	240.35	38.15	202.20
	01/12/05	240.35	38.02	202.33
	07/11/05	240.35	37.95	NM
	01/26/06	240.35	38.01	202.34
	07/11/06	240.35	38.02	202.33
	01/22/07	240.35	38.05	202.30
	07/16/07	240.35	37.96	202.39
	01/16/08	240.35	38.00	202.35
	07/21/08	240.35	38.01	202.34
	01/19/09	240.35	37.94	202.41
	07/07/09	240.35	38.00	202.35
	01/04/10	240.35	38.00	202.35
	07/13/10	240.35	37.82	202.53
	01/19/11	240.35	38.10	202.25
	07/27/11	240.35	38.05	202.30
	01/11/12	240.35	38.80	201.55
	07/23/12	240.35	38.26	202.09
	01/14/13	240.35	38.32	202.03
	07/22/13	240.35	38.32	202.03
	01/13/14	240.35	38.40	201.95
	07/21/14	240.35	38.38	201.97
	01/13/15	240.35	38.45	201.90
	07/27/15	240.35	38.15	202.20
	01/25/16	240.35	38.28	202.07
	07/19/16	240.35	38.40	201.95
	01/30/17	240.35	38.18	202.17
	07/18/17	240.35	38.11	202.24
	01/15/18	240.35	38.27	202.08
	07/23/18	240.35	37.97	202.38
	01/14/19	240.35	38.12	202.23
	06/25/19	240.35	37.72	202.63
	01/20/20	240.35	38.00	202.35
	07/27/20	240.35	37.59	202.76
	05/27/21	240.35	41.31	199.04
	10/13/21	240.35	41.59	198.76
	05/05/22	243.87	41.50	202.37
	10/04/22	243.87	41.70	202.17
	04/18/23	243.87	41.62	202.25
	10/17/23	243.87	41.86	202.01

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
TW-103	01/21/03	228.49	18.29	210.20
	07/28/03	228.49	19.91	208.58
	01/28/04	228.49	19.41	209.08
	07/12/04	228.49	18.56	209.93
	01/12/05	228.49	18.32	210.17
	07/11/05	228.49	19.28	NM
	01/26/06	228.49	19.44	209.05
	07/11/06	228.49	19.00	209.49
	01/22/07	228.49	18.03	210.46
	07/16/07	228.49	18.50	209.99
	01/16/08	228.49	18.78	209.71
	07/21/08	228.49	19.33	209.16
	01/19/09	228.49	18.65	209.84
	07/08/09	228.49	19.00	209.49
	01/04/10	228.49	18.20	210.29
	07/13/10	228.49	18.89	209.60
	01/19/11	228.49	18.60	209.89
	07/27/11	228.49	19.85	208.64
	01/11/12	228.49	19.94	208.55
	07/23/12	228.49	19.99	208.50
	01/14/13	228.49	20.72	207.77
	07/22/13	228.49	20.21	208.28
	01/13/14	228.49	20.05	208.44
	07/21/14	228.49	19.93	208.56
	01/13/15	228.49	18.78	209.71
	07/27/15	228.49	18.97	209.52
	01/25/16	228.49	19.20	209.29
	07/19/16	228.49	19.25	209.24
	01/30/17	228.49	19.43	209.06
	07/18/17	228.49	18.15	210.34
	01/15/18	228.49	18.07	210.42
	07/23/18	228.49	19.05	209.44
	01/14/19	228.49	18.69	209.80
	06/25/19	228.49	19.46	209.03
	01/20/20	228.49	19.55	208.94
	07/27/20	228.49	19.69	208.80
	05/27/21	228.49	18.01	210.48
	10/14/21	228.49	19.41	209.08
	05/06/22	228.69	18.62	210.07
	10/04/22	228.69	21.07	207.62
	04/18/23	228.69	19.39	209.30
	10/17/23	228.69	22.23	206.46

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
TW-104	05/04/22	230.46	6.71	223.75
	10/04/22	230.46	9.00	221.46
	04/18/23	230.46	8.35	222.11
	10/17/23	230.46	NM	NM
TW-105	10/20/21	234.10	10.18	223.92
	05/06/22	234.20	10.93	223.27
	10/04/22	234.20	13.88	220.32
	04/27/23	234.20	10.45	223.75
	10/17/23	234.20	14.39	219.81
TW-106	05/04/22	232.88	8.60	224.28
	10/04/22	232.88	TOC	232.88
	04/19/23	232.88	7.23	232.88
	10/17/23	232.88	10.97	232.88
TW-107	05/04/22	236.25	9.00	227.25
	10/04/22	236.25	9.73	226.52
	04/18/23	236.25	8.37	227.88
	10/17/23	236.25	11.26	224.99

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
WMA II and III Wells				
MW-1	01/21/03	246.57	49.40	197.17
	07/28/03	246.57	49.85	196.72
	01/28/04	246.57	50.45	196.12
	07/12/04	246.57	48.87	197.70
	01/14/05	246.57	49.55	197.02
	07/11/05	246.57	49.29	109.91
	01/24/06	246.57	50.25	196.32
	07/10/06	246.57	50.28	196.29
	01/22/07	246.57	50.16	196.41
	07/16/07	246.57	49.61	196.96
	01/16/08	246.57	50.32	196.25
	07/21/08	246.57	50.70	195.87
	01/19/09	246.57	50.60	195.97
	07/06/09	246.57	50.25	196.32
	01/04/10	246.57	49.95	196.62
	07/12/10	246.57	50.70	195.87
	01/17/11	246.57	51.58	194.99
	07/26/11	246.57	52.30	194.27
	01/10/12	246.57	52.80	193.77
	07/23/12	246.57	51.50	195.07
	01/14/13	246.57	52.48	194.09
	07/22/13	246.57	51.81	194.76
	01/13/14	246.57	51.90	194.67
	07/21/14	246.57	51.82	194.75
	01/12/15	246.57	52.15	194.42
	07/27/15	246.57	50.63	195.94
	01/25/16	246.57	50.82	195.75
	07/18/16	246.57	49.80	196.77
	01/30/17	246.57	50.83	195.74
	07/17/17	246.57	50.38	196.19
	01/15/18	246.57	50.51	196.06
	07/23/18	246.57	49.75	196.82
	01/14/19	246.57	49.72	196.85
	06/25/19	246.57	49.02	197.55
	01/20/20	246.57	49.37	197.20
	07/27/20	246.57	49.40	197.17
	05/27/21	246.57	48.60	197.97
	10/13/21	246.57	NM	NM
	05/05/22	246.61	49.81	196.80
	10/04/22	246.61	50.74	195.87
	04/18/23	246.61	49.55	197.06
	10/17/23	246.61	51.89	194.72

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-2	01/21/03	246.89	49.46	197.43
	07/28/03	246.89	49.86	197.03
	01/28/04	246.89	50.52	196.37
	07/12/04	246.89	44.32	202.57
	01/14/05	246.89	49.75	197.14
	07/11/05	246.89	49.33	79.75
	01/24/06	246.89	50.35	196.54
	07/11/06	246.89	50.40	196.49
	01/22/07	246.89	49.97	196.92
	07/16/07	246.89	49.65	197.24
	01/16/08	246.89	50.35	196.54
	07/21/08	246.89	50.70	196.19
	01/19/09	246.89	50.88	196.01
	07/06/09	246.89	50.30	196.59
	01/04/10	246.89	61.08	185.81
	07/12/10	246.89	50.50	196.39
	01/17/11	246.89	51.66	195.23
	07/26/11	246.89	52.28	194.61
	01/10/12	246.89	52.90	193.99
	07/23/12	246.89	51.60	195.29
	01/14/13	246.89	52.42	194.47
	07/22/13	246.89	51.80	195.09
	01/13/14	246.89	51.94	194.95
	07/21/14	246.89	51.79	195.10
	01/12/15	246.89	52.20	194.69
	07/27/15	246.89	50.70	196.19
	01/25/16	246.89	51.00	195.89
	07/18/16	246.89	49.80	197.09
	01/30/17	246.89	50.88	196.01
	07/17/17	246.89	50.46	196.43
	01/15/18	246.89	50.57	196.32
	07/23/18	246.89	49.83	197.06
	01/14/19	246.89	50.20	196.69
	06/25/19	246.89	42.50	204.39
	01/20/20	246.89	48.33	198.56
	07/27/20	246.89	49.58	197.31
	05/27/21	246.89	48.65	198.24
	10/13/21	246.89	48.85	198.04
	05/05/22	246.93	49.88	197.05
	10/04/22	246.93	50.80	196.13
	04/18/23	246.93	49.81	197.12
	10/17/23	246.93	47.73	199.20

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-3	01/21/03	239.23	42.80	196.43
	07/28/03	239.23	43.33	195.90
	01/28/04	239.23	43.90	195.33
	07/12/04	239.23	42.22	197.01
	01/14/05	239.23	43.01	196.22
	07/11/05	239.23	42.62	196.61
	01/24/06	239.23	43.85	195.38
	07/10/06	239.23	36.80	202.43
	01/22/07	239.23	43.90	195.33
	07/16/07	239.23	30.37	208.86
	01/16/08	239.23	43.85	195.38
	07/21/08	239.23	44.15	195.08
	01/19/09	239.23	43.61	195.62
	07/06/09	239.23	43.70	195.53
	01/04/10	239.23	43.94	195.29
	07/12/10	239.23	44.02	195.21
	01/17/11	239.23	45.10	194.13
	07/26/11	239.23	45.74	193.49
	01/11/12	239.23	46.15	193.08
	07/23/12	239.23	44.92	194.31
	01/14/13	239.23	45.77	193.46
	07/22/13	239.23	45.00	194.23
	01/13/14	239.23	45.30	193.93
	07/21/14	239.23	45.22	194.01
	01/12/15	239.23	45.56	193.67
	07/27/15	239.23	44.01	195.22
	01/25/16	239.23	44.34	194.89
	07/18/16	239.23	43.10	196.13
	01/30/17	239.23	44.21	195.02
	07/17/17	239.23	43.81	195.42
	01/15/18	239.23	44.00	195.23
	07/23/18	239.23	43.25	195.98
	01/14/19	239.23	43.20	196.03
	06/25/19	239.23	42.50	196.73
	01/20/20	239.23	42.87	196.36
	07/27/20	239.23	42.98	196.25
	05/27/21	239.23	42.00	197.23
	10/13/21	239.23	43.13	196.10
	05/05/22	240.01	46.00	194.01
	10/04/22	240.01	44.99	195.02
	04/18/23	240.01	44.12	195.89
	10/17/23	240.01	45.39	194.62

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-4	01/21/03	237.40	41.52	195.88
	07/28/03	237.40	42.28	195.12
	01/28/04	237.40	42.78	194.62
	07/12/04	237.40	41.01	196.39
	01/14/05	237.40	41.78	195.62
	07/11/05	237.40	41.88	50.33
	01/24/06	237.40	42.85	194.55
	07/10/06	237.40	42.78	194.62
	01/22/07	237.40	42.37	195.03
	07/16/07	237.40	41.99	195.41
	01/16/08	237.40	42.78	194.62
	07/21/08	237.40	43.06	194.34
	01/19/09	237.40	42.52	194.88
	07/07/09	237.40	42.60	194.80
	01/04/10	237.40	42.96	194.44
	07/12/10	237.40	42.90	194.50
	01/17/11	237.40	43.90	193.50
	07/26/11	237.40	44.62	192.78
	01/10/12	237.40	45.08	192.32
	07/23/12	237.40	43.70	193.70
	01/14/13	237.40	44.59	192.81
	07/22/13	237.40	43.91	193.49
	01/13/14	237.40	44.10	193.30
	07/21/14	237.40	43.97	193.43
	01/12/15	237.40	44.31	193.09
	07/27/15	237.40	42.88	194.52
	01/25/16	237.40	43.10	194.30
	07/18/16	237.40	41.92	195.48
	01/30/17	237.40	43.13	194.27
	07/17/17	237.40	42.56	194.84
	07/23/18	237.40	42.12	195.28
	01/14/19	237.40	41.90	195.50
	06/25/19	237.40	42.29	195.11
	01/20/20	237.40	41.70	195.70
	07/27/20	237.40	41.83	195.57
	05/27/21	237.40	40.67	196.73
	10/13/21	237.40	41.37	196.03
	05/05/22	237.14	45.56	191.58
	10/04/22	237.14	43.21	193.93
	04/18/23	237.14	41.52	195.62
	10/17/23	237.14	43.20	193.94

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-8	01/21/03	245.60	48.54	197.06
	07/28/03	245.60	48.94	196.66
	01/28/04	245.60	49.57	196.03
	07/12/04	245.60	48.01	197.59
	01/14/05	245.60	48.64	196.96
	07/11/05	245.60	48.42	78.54
	01/24/06	245.60	49.40	196.20
	07/10/06	245.60	49.50	196.10
	01/22/07	245.60	49.31	196.29
	07/16/07	245.60	48.75	196.85
	01/16/08	245.60	49.44	196.16
	07/21/08	245.60	49.76	195.84
	01/19/09	245.60	49.73	195.87
	07/06/09	245.60	49.40	196.20
	01/04/10	245.60	49.77	195.83
	07/12/10	245.60	49.68	195.92
	01/17/11	245.60	50.68	194.92
	07/26/11	245.60	51.40	194.20
	01/10/12	245.60	49.94	195.66
	07/23/12	245.60	50.65	194.95
	01/14/13	245.60	51.60	194.00
	07/22/13	245.60	50.90	194.70
	01/13/14	245.60	51.00	194.60
	07/21/14	245.60	50.97	194.63
	01/12/15	245.60	51.28	194.32
	07/27/15	245.60	50.00	195.60
	01/25/16	245.60	50.10	195.50
	07/18/16	245.60	48.90	196.70
	01/30/17	245.60	49.96	195.64
	07/17/17	245.60	49.52	196.08
	01/15/18	245.60	49.64	195.96
	07/23/18	245.60	48.88	196.72
	01/14/19	245.60	48.65	196.95
	06/25/19	245.60	NM	NM
	01/20/20	245.60	48.28	197.32
	07/27/20	245.60	NM	NM
	05/27/21	245.60	48.76	196.84
	10/13/21	245.60	48.95	196.65
	05/05/22	245.03	51.93	193.10
	10/05/22	245.03	48.06	196.97
	04/19/23	245.03	48.31	196.72
	10/17/23	245.03	48.71	196.32

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-11	01/21/03	231.20	33.14	198.06
	07/28/03	231.20	33.49	197.71
	01/28/04	231.20	34.25	196.95
	07/12/04	231.20	32.56	198.64
	01/14/05	231.20	33.30	197.90
	07/11/05	231.20	32.35	39.41
	01/24/06	231.20	33.99	197.21
	07/10/06	231.20	38.72	192.48
	01/22/07	231.20	33.81	197.39
	07/16/07	231.20	33.30	197.90
	01/16/08	231.20	34.05	197.15
	07/21/08	231.20	34.38	196.82
	01/19/09	231.20	34.40	196.80
	07/06/09	231.20	34.00	197.20
	01/04/10	231.20	34.22	196.98
	07/12/10	231.20	34.20	197.00
	01/17/11	231.20	35.26	195.94
	07/26/11	231.20	36.02	195.18
	01/10/12	231.20	36.60	194.60
	07/23/12	231.20	35.28	195.92
	01/14/13	231.20	36.10	195.10
	07/22/13	231.20	35.45	195.75
	01/13/14	231.20	35.64	195.56
	07/21/14	231.20	35.66	195.54
	01/12/15	231.20	35.95	195.25
	07/27/15	231.20	34.34	196.86
	01/25/16	231.20	34.45	196.75
	07/18/16	231.20	33.48	197.72
	01/30/17	231.20	34.53	196.67
	07/17/17	231.20	34.16	197.04
	01/15/18	231.20	34.24	196.96
	07/23/18	231.20	33.46	197.74
	01/14/19	231.20	33.54	197.66
	06/25/19	231.20	32.72	198.48
	01/20/20	231.20	33.15	198.05
	07/27/20	231.20	32.91	198.29
	05/27/21	231.20	32.38	198.82
	10/13/21	231.20	32.56	198.64
	05/05/22	231.24	33.55	197.69
	10/04/22	231.24	34.51	196.73
	04/19/23	231.24	33.84	197.40
	10/17/23	231.24	34.60	196.64

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-13	01/21/03	239.31	43.20	196.11
	07/28/03	239.31	43.85	195.46
	01/28/04	239.31	43.39	195.92
	07/12/04	239.31	42.71	196.60
	01/12/05	239.31	42.96	196.35
	07/11/05	239.31	43.36	50.33
	01/24/06	239.31	44.35	194.96
	07/10/06	239.31	DRY	NM
	01/22/07	239.31	43.84	195.47
	07/16/07	239.31	43.63	195.68
	01/16/08	239.31	44.38	194.93
	07/21/08	239.31	44.68	194.63
	01/19/09	239.31	44.61	194.70
	07/06/09	239.31	NM	NM
	01/04/10	239.31	DRY	DRY
	07/12/10	239.31	DRY	DRY
	01/17/11	239.31	DRY	DRY
	07/26/11	239.31	DRY	DRY
	01/10/12	239.31	DRY	DRY
	07/23/12	239.31	DRY	DRY
	01/14/13	239.31	DRY	DRY
	07/22/13	239.31	DRY	DRY
	01/13/14	239.31	DRY	DRY
	07/21/14	239.31	DRY	DRY
	01/12/15	239.31	DRY	DRY
	07/18/16	239.31	DRY	DRY
	01/25/16	239.31	DRY	DRY
	07/18/16	239.31	NM	NM
	01/30/17	239.31	44.79	194.52
	07/17/17	239.31	44.28	195.03
	01/15/18	239.31	44.48	194.83
	07/23/18	239.31	43.77	195.54
	01/14/19	239.31	43.75	195.56
	06/25/19	239.31	42.95	196.36
	01/20/20	239.31	NM	NM
	07/27/20	239.31	43.50	195.81
	05/27/21	239.31	42.49	196.82
	10/13/21	239.31	42.88	196.43
	05/05/22	239.23	42.23	197.00
	10/04/22	239.23	44.80	194.43
	04/18/23	239.23	43.36	195.87
	10/17/23	239.23	44.90	194.33

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-15A	01/21/03	244.52	47.15	197.37
	07/28/03	244.52	47.51	197.01
	01/28/04	244.52	48.15	196.37
	07/12/04	244.52	46.65	197.87
	01/12/05	244.52	46.70	197.82
	07/11/05	244.52	46.97	65.00
	01/24/06	244.52	47.95	196.57
	07/10/06	244.52	48.02	196.50
	01/22/07	244.52	47.70	196.82
	07/16/07	244.52	47.30	197.22
	01/16/08	244.52	48.03	196.49
	07/21/08	244.52	48.33	196.19
	01/19/09	244.52	48.33	196.19
	07/06/09	244.52	47.95	196.57
	01/04/10	244.52	48.11	196.41
	07/12/10	244.52	48.18	196.34
	01/17/11	244.52	49.30	195.22
	07/26/11	244.52	49.94	194.58
	01/10/12	244.52	50.58	193.94
	07/23/12	244.52	49.32	195.20
	01/14/13	244.52	50.18	194.34
	07/22/13	244.52	49.50	195.02
	01/13/14	244.52	49.65	194.87
	07/21/14	244.52	49.69	194.83
	01/12/15	244.52	49.94	194.58
	07/27/15	244.52	48.51	196.01
	01/25/16	244.52	48.73	195.79
	07/18/16	244.52	47.54	196.98
	01/30/17	244.52	48.56	195.96
	07/17/17	244.52	48.16	196.36
	01/15/18	244.52	48.22	196.30
	07/23/18	244.52	46.93	197.59
	01/14/19	244.52	47.51	197.01
	06/25/19	244.52	46.77	197.75
	01/20/20	244.52	47.10	197.42
	07/27/20	244.52	47.10	197.42
	05/27/21	244.52	46.40	198.12
	10/13/21	244.52	41.48	203.04
	05/05/22	244.03	47.48	196.55
	10/04/22	244.03	48.40	195.63
	04/18/23	244.03	46.20	195.63
	10/17/23	244.03	48.03	195.63

TABLE 3-1
Historical Groundwater Elevations and Depth to Water Measurements
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Date of Measurement	Top of Casing Elevation (ft AMSL)[1]	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
MW-15B	01/21/03	244.00	46.63	197.37
	07/28/03	244.00	46.98	197.02
	01/28/04	244.00	46.61	197.39
	07/12/04	244.00	46.11	197.89
	01/12/05	244.00	46.19	197.81
	07/11/05	244.00	46.93	197.07
	01/24/06	244.00	47.44	196.56
	07/10/06	244.00	47.51	196.49
	01/22/07	244.00	47.18	196.82
	07/16/07	244.00	46.80	197.20
	01/16/08	244.00	47.48	196.52
	07/21/08	244.00	47.80	196.20
	01/19/09	244.00	47.80	196.20
	07/06/09	244.00	47.45	196.55
	01/04/10	244.00	47.67	196.33
	07/12/10	244.00	47.70	196.30
	01/17/11	244.00	48.80	195.20
	07/26/11	244.00	49.40	194.60
	01/10/12	244.00	50.00	194.00
	07/23/12	244.00	48.80	195.20
	01/14/13	244.00	49.65	194.35
	07/22/13	244.00	49.02	194.98
	01/13/14	244.00	49.12	194.88
	07/21/14	244.00	49.15	194.85
	01/12/15	244.00	49.42	194.58
	07/27/15	244.00	48.04	195.96
	01/25/16	244.00	48.20	195.80
	07/18/16	244.00	47.00	197.00
	01/30/17	244.00	48.02	195.98
	07/17/17	244.00	47.61	196.39
	01/15/18	244.00	47.70	196.30
	07/23/18	244.00	47.50	196.50
	01/14/19	244.00	46.98	197.02
	06/25/19	244.00	46.20	197.80
	01/20/20	244.00	45.57	198.43
	07/27/20	244.00	46.58	197.42
	05/27/21	244.00	47.87	196.13
	10/13/21	244.00	46.00	198.00
	05/05/22	244.00	46.91	197.09
	10/04/22	244.00	47.85	196.15
	04/19/23	244.00	46.11	196.15
	10/17/23	244.00	NM	NM

Notes:

[1] Wells resurveyed by LTRA in April 2022

ft BTOC – feet below top of casing

ft AMSL – feet above mean sea level

ND – not detected

* – Estimated. Probe would not fit in gauging port.

NM – not measured

WMA – Waste Management Area

TABLE 3-2
Historical Groundwater Velocity Calculations
Texas Electric Cooperatives, Inc.
Jasper, Texas

Waste Management Area	Well Pair	Date	Groundwater Elevation (ft msl)	Distance Between Wells (ft)	Gradient (ft/ft)	Groundwater Flow Velocity * (ft/day)
WMA II						
II	MW-3	January 2003	196.43	577	0.0010	0.7
	MW-5		195.83			
II	MW-3	July 2003	195.90	577	0.0016	1.1
	MW-5		194.96			
II	MW-3	January 2004	195.33	577	0.0013	0.9
	MW-5		194.56			
II	MW-3	July 2004	197.01	577	0.0010	0.7
	MW-5		196.41			
II	MW-3	January 2005	196.22	577	0.0004	0.3
	MW-5		195.99			
II	MW-3	July 2005	196.61	577	0.0035	2.4
	MW-5		194.61			
II	MW-3	January 2006	195.38	577	0.0029	2.0
	MW-5		193.70			
II	MW-3	July 2006	202.43	577	0.0144	9.9
	MW-5		194.11			
II	MW-3	January 2007	195.33	577	0.0007	0.5
	MW-5		194.91			
II	MW-3	July 2007	208.86	577	0.0240	16.5
	MW-5		195.01			
II	MW-3	January 2008	195.38	577	0.0025	1.7
	MW-5		193.94			
II	MW-3	July 2008	195.08	577	0.0024	1.6
	MW-5		193.72			
II	MW-3	January 2009	195.62	577	0.0030	2.0
	MW-5		193.91			
II	MW-3	July 2009	195.53	577	0.0032	2.2
	MW-5		193.66			
II	MW-3	January 2010	195.29	577	0.0014	0.9
	MW-5		194.51			
II	MW-3	July 2010	196.73	577	0.0016	1.1
	MW-5		195.81			
II	MW-3	January 2011	194.13	577	0.0025	1.7
	MW-5		192.71			
II	MW-3	July 2011	193.49	577	0.0023	1.6
	MW-5		192.16			
II	MW-3	January 2012	193.08	577	0.0020	1.4
	MW-5		191.91			
II	MW-3	July 2012	194.31	577	0.0017	1.2
	MW-5		193.31			

TABLE 3-2
Historical Groundwater Velocity Calculations
Texas Electric Cooperatives, Inc.
Jasper, Texas

Waste Management Area	Well Pair	Date	Groundwater Elevation (ft msl)	Distance Between Wells (ft)	Gradient (ft/ft)	Groundwater Flow Velocity * (ft/day)
II	MW-3	January 2013	193.46	577	0.0018	1.2
	MW-5		192.41			
II	MW-3	July 2013	194.23	577	0.0021	1.4
	MW-5		193.03			
II	MW-3	January 2014	193.93	577	0.0017	1.2
	MW-5		192.96			
II	MW-3	July 2014	194.01	577	0.0017	1.2
	MW-5		193.04			
II	MW-3	January 2015	193.67	577	0.0015	1.0
	MW-5		192.81			
II	MW-3	July 2015	195.22	577	0.0019	1.3
	MW-5		194.11			
II	MW-3	January 2016	194.89	577	0.0013	0.9
	MW-5		194.13			
II	MW-3	July 2016	196.13	577	0.0014	1.0
	MW-5		195.31			
II	MW-3	January 2017	195.02	577	0.0018	1.2
	MW-5		193.97			
II	MW-3	July 2017	195.42	577	0.0014	0.9
	MW-5		194.63			
II	MW-3	January 2018	195.23	577	0.0016	1.1
	MW-5		194.29			
II	MW-3	July 2018	195.98	577	0.0019	1.3
	MW-5		194.89			
II	MW-3	January 2019	196.03	577	0.0012	0.9
	MW-5		195.31			
II	MW-3	June 2019	196.73	577	0.0016	1.1
	MW-5		195.81			
II	MW-3	January 2020	196.36	577	0.0014	1.0
	MW-5		195.56			
II	MW-3	July 2020	196.25	577	0.0015	1.0
	MW-5		197.11			
II	MW-3	May 2021	197.23	187	0.0022	1.5
	MW-13		196.82			
II	MW-3	October 2021	196.10	187	0.0018	1.2
	MW-13		196.43			
II	MW-3	May 2022	194.01	295	0.0082	5.7
	MW-4		191.58			
II	MW-3	October 2022	195.02	187	0.0032	2.2
	MW-13		194.43			
II	MW-3	April 2023	195.89	187	0.0001	0.1
	MW-13		195.87			
II	MW-3	October 2023	194.62	187	0.0017	1.2
	MW-13		194.30			

TABLE 3-2
Historical Groundwater Velocity Calculations
Texas Electric Cooperatives, Inc.
Jasper, Texas

Waste Management Area	Well Pair	Date	Groundwater Elevation (ft msl)	Distance Between Wells (ft)	Gradient (ft/ft)	Groundwater Flow Velocity * (ft/day)
WMA III						
III	MW-2	January 2003	198.06	413	0.0017	1.1
	MW-15B		197.37			
III	MW-2	July 2003	197.71	413	0.0017	1.2
	MW-15B		197.01			
III	MW-2	January 2004	196.95	413	0.0014	1.0
	MW-15B		196.37			
III	MW-2	July 2004	198.64	413	0.0019	1.3
	MW-15B		197.87			
III	MW-2	January 2005	197.90	413	0.0002	0.1
	MW-15B		197.82			
III	MW-2	July 2005	198.85	413	0.0031	2.2
	MW-15B		197.55			
III	MW-2	January 2006	197.21	413	0.0015	1.1
	MW-15B		196.57			
III	MW-2	July 2006	196.49	413	0.0005	0.3
	MW-15B		196.29			
III	MW-2	January 2007	196.92	413	0.0007	0.5
	MW-15B		196.62			
III	MW-2	July 2007	197.24	413	0.0001	0.1
	MW-15B		197.20			
III	MW-2	January 2008	196.54	413	0.0000	0.0
	MW-15B		196.52			
III	MW-2	July 2008	196.19	413	0.0000	0.0
	MW-15B		196.20			
III	MW-2	January 2009	196.01	413	0.0005	0.3
	MW-15B		196.20			
III	MW-2	July 2009	196.59	413	0.0001	0.1
	MW-15B		196.55			
III	MW-2	January 2010	185.81	413	0.0254	17.4
	MW-15B		196.30			
III	MW-2	July 2010	196.39	413	0.0002	0.1
	MW-15B		196.30			
III	MW-2	January 2011	195.23	413	0.0001	0.0
	MW-15B		195.20			
III	MW-2	July 2011	194.61	413	0.0000	0.0
	MW-15B		194.60			
III	MW-2	January 2012	193.99	413	0.0000	0.0
	MW-15B		194.00			
III	MW-2	July 2012	195.29	413	0.0002	0.1
	MW-15B		195.20			

TABLE 3-2
Historical Groundwater Velocity Calculations
Texas Electric Cooperatives, Inc.
Jasper, Texas

Waste Management Area	Well Pair	Date	Groundwater Elevation (ft msl)	Distance Between Wells (ft)	Gradient (ft/ft)	Groundwater Flow Velocity * (ft/day)
III	MW-2	January 2013	194.47	413	0.0003	0.2
	MW-15B		194.35			
III	MW-2	July 2013	195.09	413	0.0003	0.2
	MW-15B		194.98			
III	MW-2	January 2014	194.47	413	0.0010	0.7
	MW-15B		194.88			
III	MW-2	July 2014	195.10	413	0.0006	0.4
	MW-15B		194.85			
III	MW-2	January 2015	194.69	413	0.0003	0.2
	MW-15B		194.58			
III	MW-2	July 2015	196.19	413	0.0006	0.4
	MW-15B		195.96			
III	MW-2	January 2016	195.89	413	0.0002	0.1
	MW-15B		195.80			
III	MW-2	July 2016	197.09	413	0.0002	0.1
	MW-15B		197.00			
III	MW-2	January 2017	196.01	413	0.0001	0.0
	MW-15B		195.98			
III	MW-2	July 2017	196.43	413	0.0001	0.1
	MW-15B		196.39			
III	MW-2	January 2018	196.32	413	0.0000484	0.0
	MW-15B		196.30			
III	MW-2	July 2018	197.06	413	0.0014	0.9
	MW-15B		196.50			
III	MW-2	January 2019	196.69	413	0.0008	0.5
	MW-15B		197.02			
III	MW-2	June 2019	204.39	413	0.0160	10.9
	MW-15B		197.80			
III	MW-2	January 2020	198.56	413	0.0003	0.2
	MW-15B		198.43			
III	MW-2	July 2020	197.31	413	0.0003	0.2
	MW-15B		197.42			
III	MW-2	May 2021	198.24	318	0.0044	3.0
	MW-8		196.84			
III	MW-2	October 2021	198.04	318	0.0044	3.0
	MW-8		196.65			
III	MW-11	May 2022	197.69	457	0.0014	1.0
	MW-2		197.05			
III	MW-11	October 2022	196.73	457	0.0013	0.9
	MW-2		196.13			
III	MW-11	April 2023	197.40	457	0.0006	0.4
	MW-2		197.12			
III	MW-11	October 2023	196.64	457	0.0020	1.4
	MW-2		195.71			

Notes:

*Velocity Calculation: Velocity(ft/day) = (1/n) x K (gpd/ft^2) x i (ft/ft) x (0.134 ft^3/gal)
n = porosity = 0.25
K = hydraulic conductivity = 1280 gpd/ft^2
i = hydraulic gradient calculated above

Hydraulic conductivity and porosity values from Semi-Annual Groundwater Report, January 1997 (Jones and Neuse, 1997).

ft - feet
ft msl - feet mean sea level
ft/ft - feet per foot
ft/day - feet per day
ft^2 - square foot
ft^3 - cubic foot
gal - gallons
gpd - gallons per day

TABLE 4-1
Groundwater Analytical Data Summary - Napthalene and Arsenic
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Waste Management Area (WMA)	Date Sampled	Sample Method	Naphthalene (mg/L)	Arsenic (mg/L)
			Permit Concentration Limit for WMAs II & III	**0.005**	**N/A**
WMA II and III Wells					
MW-1	III	01/21/03	Dedicated Pump	<0.005	NA
		07/28/03	Dedicated Pump	<0.005	NA
		01/29/04	Dedicated Pump	<0.005	NA
		07/13/04	Dedicated Pump	<0.005	NA
		01/12/05	Dedicated Pump	<0.005	NA
		07/11/05	Dedicated Pump	<0.005	<0.004
		01/24/06	Dedicated Pump	<0.005	<0.004
		07/10/06	Dedicated Pump	<0.005	NA
		01/22/07	Dedicated Pump	<0.005	NA
		07/16/07	Dedicated Pump	<0.005	NA
		01/16/08	Dedicated Pump	<0.005	NA
		07/21/08	Dedicated Pump	<0.005	<0.005
		01/19/09	Dedicated Pump	<0.0014	NA
		07/06/09	Dedicated Pump	<0.0011	<0.0020
		01/04/10	Dedicated Pump	<0.0011	NA
		07/12/10	Dedicated Pump	<0.0011	NA
		01/17/11	Dedicated Pump	<0.0011	NA
		07/26/11	Dedicated Pump	<0.0012	<0.0010
		01/10/12	Dedicated Pump	<0.0012	NA
		07/23/12	Dedicated Pump	<0.0011	NA
		01/14/13	Dedicated Pump	<0.0013	NA
		07/22/13	Dedicated Pump	<0.0013	NA
		01/13/14	Dedicated Pump	<0.0011	NA
		07/21/14	Dedicated Pump	<0.0010	<0.0047
		01/12/15	Dedicated Pump	<0.0010	NA
		07/27/15	Dedicated Pump	<0.0010	NA
		01/25/16	Dedicated Pump	<0.0017	NA
		07/18/16	Dedicated Pump	<0.0017	NA
		01/30/17	Dedicated Pump	<0.0018	NA
		07/17/17	Dedicated Pump	<0.0018	<0.0026
		01/17/18	Dedicated Pump	<0.0018	<0.0019
		07/24/18	Dedicated Pump	<0.0018	<0.0036
		01/15/19	Dedicated Pump	<0.0012	NA
		06/26/19	Dedicated Pump	<0.0012	NA
		01/24/20	Dedicated Pump	<0.0012	<0.005
		07/29/20	Dedicated Pump	<0.0011	NA
		05/27/21	Dedicated Pump	**0.000022 J**	NA
		10/14/21	Dedicated Pump Not Accessible	NS	NS
		05/05/22	Dedicated Pump	<0.0011	NA
		10/05/22	Dedicated Pump	**0.000206 J**	NA
		4/25/2023	Pump Inoperable	NS	NS
		10/19/23	Dedicated Pump	<0.000049	NA
MW-2	III	01/21/03	Dedicated Pump	<0.005	NA
		07/28/03	Dedicated Pump	<0.005	NA
		01/29/04	Dedicated Pump	<0.005	NA
		07/13/04	Dedicated Pump	<0.005	NA
		01/12/05	Dedicated Pump	<0.005	NA
		07/11/05	Dedicated Pump	<0.005	<0.004
		01/24/06	NS	NS	NS
		07/11/06	Dedicated Pump	<0.005	NA
		01/23/07	Dedicated Pump	<0.005	NA
		07/16/07	Dedicated Pump	<0.005	NA
		01/16/08	Dedicated Pump	<0.005	NA
		07/21/08	Dedicated Pump	<0.005	<0.005
		01/20/09	Dedicated Pump	<0.0013	NA
		07/06/09	Dedicated Pump	<0.0011	<0.0020
		01/04/10	Dedicated Pump	<0.0011	NA
		07/12/10	Dedicated Pump	<0.0011	NA
		01/17/11	Dedicated Pump	<0.0012	NA
		07/26/11	Dedicated Pump	<0.0012	0.0032 B
		01/10/12	Dedicated Pump	<0.0012	NA
		07/24/12	Dedicated Pump	<0.0011	NA
		01/14/13	Dedicated Pump	<0.0013	NA
		07/22/13	Dedicated Pump	<0.0013	NA
		01/13/14	Dedicated Pump	<0.0010	NA
		07/21/14	Dedicated Pump	<0.0010	<0.0047
		01/12/15	Dedicated Pump	<0.0010	NA
		07/27/15	Dedicated Pump	<0.001	NA
		01/25/16	Dedicated Pump	<0.0017	NA
		07/18/16	Dedicated Pump	<0.0017	NA
		01/30/17	Dedicated Pump	<0.0018	NA
		07/17/17	Dedicated Pump	<0.0018	<0.0026
		01/17/18	Dedicated Pump	<0.0018	<0.0019
		07/25/18	Dedicated Pump	<0.0018	<0.0036
		01/15/19	Dedicated Pump	<0.0012	<0.0036
		06/26/19	Dedicated Pump	<0.0012	NA
		01/24/20	Dedicated Pump	<0.0012	NA
		07/29/20	Dedicated Pump	<0.0012	NA
		06/02/21	Dedicated Pump	**0.000024 J**	NA
		10/18/21	Dedicated Pump	**0.0106**	NA
		11/10/21 (R)	Dedicated Pump	<0.0012	NA
		05/05/22	Dedicated Pump	<0.0011	NA
		5/5/2022 (D)	Dedicated Pump	<0.0011	NA
		10/05/22	Dedicated Pump	**0.000240**	NA
		10/5/2022 (D)	Dedicated Pump	**0.000131**	NA
		04/25/23	Dedicated Pump	<0.0000340	NA
		4/25/2023 (D)	Dedicated Pump	**0.000772**	NA
		10/19/23	Dedicated Pump	<0.000049	NA
		10/19/2023 (D)	Dedicated Pump	<0.000049	NA

TABLE 4-1
Groundwater Analytical Data Summary - Napthalene and Arsenic
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Waste Management Area (WMA)	Date Sampled	Sample Method	Naphthalene (mg/L)	Arsenic (mg/L)
Permit Concentration Limit for WMAs II & III				**0.005**	**N/A**
MW-3	II	01/21/03	Dedicated Pump	<0.005	NA
		07/29/03	Dedicated Pump	<0.005	NA
		01/29/04	Dedicated Pump	<0.005	NA
		07/13/04	Dedicated Pump	<0.005	NA
		01/12/05	Dedicated Pump	<0.005	NA
		07/11/05	Dedicated Pump	<0.005	<0.004
		01/24/06	Dedicated Pump	<0.005	<0.004
		07/10/06	Dedicated Pump	<0.005	NA
		01/22/07	Dedicated Pump	<0.005	NA
		07/16/07	Dedicated Pump	<0.005	NA
		01/17/08	Dedicated Pump	<0.005	NA
		07/21/08	Dedicated Pump	<0.005	<0.005
		01/20/09	Dedicated Pump	<0.0013	NA
		07/06/09	Dedicated Pump	<0.0012	<0.0020
		01/04/10	Dedicated Pump	<0.0011	NA
		07/12/10	Dedicated Pump	<0.0011	<0.0020
		01/17/11	Dedicated Pump	<0.0011	<0.0010
		07/26/11	Dedicated Pump	<0.0011	<0.0010
		01/11/12	Dedicated Pump	<0.0012	<0.0010
		07/23/12	Dedicated Pump	<0.0011	<0.0010
		01/14/13	Dedicated Pump	<0.0013	0.0018 J
		07/22/13	Dedicated Pump	<0.0013	<0.0010
		01/13/14	Dedicated Pump	<0.0011	<0.0010
		07/21/14	Dedicated Pump	**0.0018 J**	<0.0047
		01/12/15	Dedicated Pump	<0.0010	0.0047
		07/27/15	Dedicated Pump	<0.0010	<0.0047
		01/25/16	Dedicated Pump	<0.0017	<0.0034
		07/18/16	Dedicated Pump	<0.0017	<0.005
		01/30/17	Dedicated Pump	<0.0018	<0.0026
		07/17/17	Dedicated Pump	<0.0018	<0.0026
		01/17/18	Dedicated Pump	<0.0018	0.0021 J
		07/25/18	Dedicated Pump	<0.0018	<0.0036
		01/15/19	Dedicated Pump	<0.0012	<0.0036
		06/27/19	Dedicated Pump	<0.0012	<0.0036
		01/24/20	Dedicated Pump	<0.0012	0.0648
		07/30/20	Dedicated Pump	<0.0012	NA
		05/27/21	Dedicated Pump Inoperable	NS	NS
		10/19/21	Low Flow with QED pump	**0.0033 J**	<0.0060
		05/05/22	Low Flow with QED pump	**0.003 J**	NA
		10/05/22	Low Flow with QED pump	**0.0000766**	NA
		04/27/23	Low Flow with QED pump	<0.0000283	NA
		10/19/23	Low Flow with QED pump	<0.000049	NA
MW-4	II	01/21/03	Dedicated Pump	<0.005	NA
		07/29/03	Dedicated Pump	<0.005	NA
		01/29/04	Dedicated Pump	<0.005	NA
		07/13/04	Dedicated Pump	<0.005	NA
		01/12/05	Dedicated Pump	<0.005	NA
		07/11/05	Dedicated Pump	<0.005	<0.004
		01/24/06	Dedicated Pump	<0.005	<0.004
		07/10/06	Dedicated Pump	<0.005	NA
		01/22/07	Dedicated Pump	<0.005	NA
		07/16/07	Dedicated Pump	<0.005	NA
		01/17/08	Dedicated Pump	<0.005	NA
		07/21/08	Dedicated Pump	<0.005	<0.005
		01/20/09	Dedicated Pump	<0.0013	NA
		07/07/09	Dedicated Pump	<0.0011	<0.0020
		01/04/10	Dedicated Pump	<0.0011	NA
		07/12/10	Dedicated Pump	<0.0011	NA
		01/17/11	Dedicated Pump	<0.0011	NA
		07/26/11	Dedicated Pump	<0.0012	<0.0010
		01/10/12	Dedicated Pump	<0.0012	NA
		07/23/12	Dedicated Pump	<0.0011	NA
		01/14/13	Dedicated Pump	<0.0013	NA
		07/22/13	Dedicated Pump	<0.0013	NA
		01/13/14	Dedicated Pump	<0.0010	NA
		07/21/14	Dedicated Pump	<0.0010	<0.0047
		01/12/15	Dedicated Pump	<0.0010	NA
		07/27/15	Dedicated Pump	<0.001	NA
		01/25/16	Dedicated Pump	<0.0017	NA
		07/18/16	Dedicated Pump	<0.0017	NA
		01/30/17	Dedicated Pump	<0.0018	NA
		07/18/17	Dedicated Pump	<0.0018	<0.0026
		01/17/18	Dedicated Pump	<0.0018	<0.0019
		07/25/18	Dedicated Pump	<0.0018	<0.0036
		01/15/19	Dedicated Pump	<0.0012	NA
		06/27/19	Dedicated Pump	<0.0012	NA
		01/24/20	Dedicated Pump	<0.0012	NA
		07/30/20	Dedicated Pump	<0.0011	<0.0060
		06/02/21	Dedicated Pump	**0.0668**	NA
		7/26/21 (R)	Dedicated Pump	<0.0011	NA
		7/26/21 (D)	Dedicated Pump	<0.0011	NA
		10/18/21	Dedicated Pump	**0.0041 J**	NA
		05/05/22	Dedicated Pump	<0.0011	NA
		10/05/22	Dedicated Pump	<0.0000283	NA
		04/26/23	Dedicated Pump	<0.0000340	NA
		10/19/23	Dedicated Pump	<0.000049	NA

TABLE 4-1
Groundwater Analytical Data Summary - Napthalene and Arsenic
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Waste Management Area (WMA)	Date Sampled	Sample Method	Naphthalene (mg/L)	Arsenic (mg/L)
Permit Concentration Limit for WMAs II & III				**0.005**	**N/A**
MW-8	III	01/21/03	Dedicated Pump	<0.005	NA
		07/28/03	Dedicated Pump	<0.005	NA
		01/29/04	Dedicated Pump	<0.005	NA
		07/13/04	Dedicated Pump	<0.005	NA
		01/12/05	Dedicated Pump	<0.005	NA
		07/11/05	Dedicated Pump	<0.005	<0.004
		01/24/06	Dedicated Pump	<0.005	<0.004
		07/10/06	Dedicated Pump	<0.005	NA
		01/22/07	Dedicated Pump	<0.005	NA
		07/16/07	Dedicated Pump	<0.005	NA
		01/16/08	Dedicated Pump	<0.005	NA
		07/21/08	Dedicated Pump	<0.005	<0.005
		01/19/09	Dedicated Pump	<0.0013	NA
		07/06/09	Dedicated Pump	<0.0011	<0.0020
		01/04/10	Dedicated Pump	<0.0011	NA
		07/12/10	Dedicated Pump	<0.0011	NA
		01/17/11	Dedicated Pump	<0.0011	NA
		07/26/11	Dedicated Pump	<0.0012	<0.0010
		01/10/12	Dedicated Pump	<0.0012	NA
		07/23/12	Dedicated Pump	<0.0011	NA
		01/14/13	Dedicated Pump	<0.0013	NA
		07/22/13	Dedicated Pump	<0.0013	NA
		01/13/14	Dedicated Pump	<0.0010	NA
		07/21/14	Dedicated Pump	<0.0010	<0.0047
		01/12/15	Dedicated Pump	<0.0010	NA
		07/27/15	Dedicated Pump	<0.001	NA
		01/25/16	Dedicated Pump	<0.0017	NA
		07/18/16	Dedicated Pump	<0.0017	NA
		01/30/17	Dedicated Pump	<0.0018	NA
		07/17/17	Dedicated Pump	<0.0018	<0.0026
		01/17/18	Dedicated Pump	<0.0018	<0.0019
		07/25/18	NS	NS	NS
		01/15/19	NS	NS	NS
		06/27/19	NS	NS	NS
		01/23/20	Dedicated Pump	<0.0012	NA
		07/29/20	Dedicated Pump	<0.0011	NA
		05/27/21	Dedicated Pump	**0.000036 J**	NA
		10/14/21	Dedicated Pump	<0.0011	NA
		05/05/22	Dedicated Pump	<0.0011	NA
		10/05/22	Dedicated Pump	**0.000999**	NA
		04/25/23	Dedicated Pump	**0.0213**	NA
		10/19/23	Dedicated Pump	**0.000116**	NA
MW-11	II & III	01/21/03	Dedicated Pump	<0.0051	NA
		07/28/03	Dedicated Pump	<0.005	NA
		01/29/04	Dedicated Pump	<0.005	NA
		07/13/04	Dedicated Pump	<0.005	NA
		01/12/05	Dedicated Pump	<0.005	NA
		07/12/05	Dedicated Pump	<0.005	<0.004
		01/24/06	Dedicated Pump	<0.005	<0.004
		07/10/06	Dedicated Pump	<0.005	NA
		01/22/07	Dedicated Pump	<0.005	NA
		07/16/07	Dedicated Pump	<0.005	NA
		01/17/08	Dedicated Pump	<0.005	NA
		07/21/08	Dedicated Pump	<0.005	<0.005
		01/20/09	Dedicated Pump	<0.0013	NA
		07/06/09	Dedicated Pump	<0.0011	0.0026J
		01/04/10	Dedicated Pump	<0.0011	NA
		07/12/10	Dedicated Pump	<0.0011	NA
		01/17/11	Dedicated Pump	<0.0011	NA
		07/26/11	Dedicated Pump	<0.0011	<0.0010
		01/10/12	Dedicated Pump	<0.0012	NA
		07/23/12	Dedicated Pump	<0.0011	NA
		01/14/13	Dedicated Pump	<0.0013	NA
		07/22/13	Dedicated Pump	<0.0013	NA
		01/13/14	Dedicated Pump	<0.0010	NA
		07/21/14	Dedicated Pump	<0.0010	0.0064
		01/12/15	Dedicated Pump	<0.0010	NA
		07/27/15	Dedicated Pump	<0.001	NA
		01/25/16	Dedicated Pump	<0.0017	NA
		07/18/16	Dedicated Pump	<0.0017	NA
		01/30/17	Dedicated Pump	<0.0018	NA
		07/17/17	Dedicated Pump	<0.0018	<0.0026
		01/17/18	Dedicated Pump	<0.0018	<0.0019
		07/25/18	Dedicated Pump	<0.0018	<0.0036
		01/15/19	NS	NS	NS
		06/27/19	NS	NS	NS
		01/23/20	Dedicated Pump	<0.0012	NA
		07/29/20	Dedicated Pump	<0.0012	NA
		06/02/21	Dedicated Pump	**0.000021 J**	NA
		10/18/21	Dedicated Pump	**0.0034 J**	NA
		05/05/22	Dedicated Pump	<0.0011	NA
		10/05/22	Dedicated Pump	<0.0000283	NA
		04/25/23	Dedicated Pump	<0.0000340	NA
		10/19/23	Dedicated Pump	<0.000049	NA

TABLE 4-1
Groundwater Analytical Data Summary - Napthalene and Arsenic
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Waste Management Area (WMA)	Date Sampled	Sample Method	Naphthalene (mg/L)	Arsenic (mg/L)
Permit Concentration Limit for WMAs II & III				**0.005**	**N/A**
MW-13	II	01/21/03	Dedicated Pump	<0.005	NA
		07/29/03	Dedicated Pump	<0.005	NA
		01/29/04	Dedicated Pump	<0.005	NA
		07/13/04	Dedicated Pump	<0.005	NA
		01/12/05	Dedicated Pump	<0.005	NA
		07/11/05	Dedicated Pump	<0.005	<0.004
		01/24/06	NS	NS	NS
		07/10/06	NS	NS	NS
		01/23/07	Dedicated Pump	<0.005	NA
		07/17/07	Dedicated Pump	<0.005	NA
		01/17/08	Dedicated Pump	<0.005	NA
		07/21/08	NS	NS	NS
		01/20/09	NS	NS	NS
		07/06/09	NS	NS	NS
		01/04/10	NS	NS	NS
		07/12/10	NS	NS	NS
		01/17/11	NS	NS	NS
		07/26/11	NS	NS	NS
		01/10/12	NS	NS	NS
		07/23/12	NS	NS	NS
		01/14/13	NS	NS	NS
		07/23/13	NS	NS	NS
		01/13/14	NS	NS	NS
		07/21/14	NS	NS	NS
		01/12/15	NS	NS	NS
		07/27/15	NS	NS	NS
		01/26/16	NS	NS	NS
		07/19/16	NS	NS	NS
		01/30/17	NS	NS	NS
		07/17/17	NS	NS	NS
		01/17/18	NS	NS	NS
		07/25/18	Dedicated Pump	<0.0018	<0.0036
		01/17/18	Dedicated Pump	<0.0012	NA
		07/25/18	Dedicated Pump	<0.0018	<0.0036
		01/15/19	Dedicated Pump	<0.0012	NA
		06/27/19	NS	NS	NS
		01/23/20	Dedicated Pump	<0.0012	NA
		07/28/20	NS	NS	NS
		06/02/21	Dedicated Pump	**0.000053 J**	NA
		10/18/21	Dedicated Pump	**0.0043 J**	NA
		05/05/22	Dedicated Pump	<0.0011	NA
		10/05/22	NS	NS	NS
		04/26/23	Insufficient Water Column	NS	NS
		10/19/23	Insufficient Water Column	NS	NA
MW-15A	III	01/21/03	Dedicated Pump	<0.005	NA
		07/28/03	Dedicated Pump	<0.005	NA
		01/29/04	Dedicated Pump	<0.005	NA
		07/13/04	Dedicated Pump	<0.005	NA
		01/12/05	Dedicated Pump	<0.005	NA
		07/11/05	Dedicated Pump	<0.005	<0.004
		01/24/06	Dedicated Pump	<0.005	<0.004
		07/10/06	Dedicated Pump	<0.005	NA
		01/22/07	Dedicated Pump	<0.005	NA
		07/16/07	Dedicated Pump	<0.005	NA
		01/16/08	Dedicated Pump	<0.005	NA
		07/21/08	Dedicated Pump	<0.005	<0.005
		01/19/09	Dedicated Pump	<0.0014	NA
		07/06/09	Dedicated Pump	<0.0011	<0.0020
		01/04/10	Dedicated Pump	<0.0011	NA
		07/12/10	Dedicated Pump	<0.0011	NA
		01/17/11	Dedicated Pump	<0.0012	NA
		07/26/11	Dedicated Pump	<0.0012	<0.0010
		01/10/12	Dedicated Pump	<0.0012	NA
		07/23/12	Dedicated Pump	<0.0011	NA
		01/14/13	Dedicated Pump	<0.0013	NA
		07/22/13	Dedicated Pump	<0.0013	NA
		01/13/14	Dedicated Pump	<0.0010	NA
		07/21/14	Dedicated Pump	<0.0010	<0.0047
		01/12/15	Dedicated Pump	<0.0010	NA
		07/27/15	Dedicated Pump	<0.0010	NA
		01/25/16	Dedicated Pump	<0.0017	NA
		07/18/16	Dedicated Pump	<0.0017	NA
		01/30/17	Dedicated Pump	<0.0018	NA
		07/17/17	Dedicated Pump	<0.0018	<0.0026
		01/17/18	Dedicated Pump	<0.0018	<0.0019
		07/23/18	Dedicated Pump	<0.0018	<0.0036
		01/15/19	Dedicated Pump	<0.0012	NA
		06/26/19	Dedicated Pump	<0.0012	NA
		01/21/20	Dedicated Pump	<0.0012	NA
		07/29/20	Dedicated Pump	<0.0012	NA
		05/27/21	Dedicated Pump	**0.000024 J**	NA
		10/14/21	Dedicated Pump	<0.0011	NA
		05/05/22	Dedicated Pump	<0.0011	NA
		10/05/22	Dedicated Pump	<0.0000283	NA
		04/25/23	Dedicated Pump	<0.0000340	NA
		10/19/23	Dedicated Pump	**0.00218**	NA

TABLE 4-1
Groundwater Analytical Data Summary - Napthalene and Arsenic
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Waste Management Area (WMA)	Date Sampled	Sample Method	Naphthalene (mg/L)	Arsenic (mg/L)
Permit Concentration Limit for WMAs II & III				**0.005**	**N/A**
MW-15B	III	01/21/03	Dedicated Pump	<0.005	NA
		07/28/03	Dedicated Pump	<0.005	NA
		01/29/04	Dedicated Pump	<0.005	NA
		07/13/04	Dedicated Pump	<0.005	NA
		01/12/05	Dedicated Pump	<0.005	NA
		07/11/05	Dedicated Pump	<0.005	<0.004
		01/24/06	Dedicated Pump	<0.005	<0.004
		07/10/06	Dedicated Pump	<0.005	NA
		01/22/07	Dedicated Pump	<0.005	NA
		07/16/07	Dedicated Pump	<0.005	NA
		01/16/08	Dedicated Pump	<0.005	NA
		07/21/08	Dedicated Pump	<0.005	<0.005
		01/19/09	Dedicated Pump	<0.0014	NA
		07/06/09	Dedicated Pump	<0.0011	<0.0020
		01/04/10	Dedicated Pump	<0.0011	NA
		07/12/10	Dedicated Pump	<0.0011	NA
		01/17/11	Dedicated Pump	<0.0011	NA
		07/26/11	Dedicated Pump	<0.0012	<0.0010
		01/10/12	Dedicated Pump	<0.0012	NA
		07/23/12	Dedicated Pump	<0.0011	NA
		01/14/13	Dedicated Pump	<0.0013	NA
		07/22/13	Dedicated Pump	<0.0013	NA
		01/13/14	Dedicated Pump	<0.0010	NA
		07/21/14	Dedicated Pump	<0.0010	<0.0047
		01/12/15	Dedicated Pump	<0.0010	NA
		07/27/15	Dedicated Pump	<0.0010	NA
		01/25/16	Dedicated Pump	<0.0017	NA
		07/18/16	Dedicated Pump	<0.0017	NA
		01/30/17	Dedicated Pump	<0.0018	NA
		07/17/17	Dedicated Pump	<0.0018	<0.0026
		01/17/18	Dedicated Pump	<0.0018	<0.0019
		07/23/18	Dedicated Pump	<0.0018	<0.0036
		01/15/19	Dedicated Pump	<0.0012	NA
		06/26/19	Dedicated Pump	<0.0012	NA
		01/21/20	Dedicated Pump	<0.0012	NA
		07/29/20	Dedicated Pump	<0.0012	NA
		05/27/21	Dedicated Pump	**0.000013 J**	NA
		10/14/21	Dedicated Pump	<0.0011	NA
		05/05/22	Dedicated Pump	<0.0011	NA
		10/05/22	Dedicated Pump	**0.000175**	NA
		04/25/23	Dedicated Pump	<0.0000340	NA
		10/19/23	Dedicated Pump	<0.000049	NA

Notes:

WMA = Waste Management Area

mg/L = milligrams per liter

Arsenic is monitored for the purpose of assessing naturally occurring concentrations in geologic formation only. There is no Permit Concentration Limit for arsenic.

Reported concentrations greater than the method detection limit (MDL) are i**bold** print.

Exceedances of the Permit Concentration Limit are i**bold** print and highlighted yellow.

D - Duplicate Sample

R - Resample

J - estimated concentration that is greater than the sample detection limit (SDL) but less than the method quantitation limit (MQL).

NS - Not Sampled

NA - Not Availbile

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TABLE 4-2
Groundwater Analytical Data Summary - Creosote Constituents
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Waste Management Area (WMA)	Date Sampled	Naphthalene (mg/L)	Acenaphthylene (mg/L)	Anthracene (mg/L)	Benzo(a) anthracene (mg/L)	Chrysene (mg/L)	2,4-Dinitrophenol (mg/L)	4,6-Dinitro-o-cresol (mg/L)	Fluoranthene (mg/L)	Phenanthrene (mg/L)
Permit Concentration Limit for WMAs II & III			**0.005**	**0.01**	**0.01**	**0.00051**	**0.01**	**0.05**	**0.05**	**0.01**	**0.01**
MW-1	III	7/11/2005	0.005 U	0.005 U	N/A	0.005 U	0.005 U	0.025 U	N/A	0.005 U	0.005 U
		7/21/2008	0.005 U	0.005 U	N/A	0.005 U	0.005 U	0.025 U	N/A	0.005 U	0.005 U
		7/26/2011	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0010 U	0.015 U	0.0014 U	0.00099 U	0.00099 U
		7/21/2014	0.0010 U	0.0012 U	0.0014 U	0.0015 U	0.0016 U	0.010 U	0.0056 U	0.0014 U	0.0015 U
		7/17/2017	0.0018 U	0.0017 U	0.0019 U	0.0018 U	0.0017 U	0.0012 U	0.0038 U	0.0021 U	0.0019 U
		7/29/2020	0.0011 U	0.0011 U	0.0014 U	0.00091 U	0.0010 U	0.0021 U	0.00097 U	0.0013 U	0.0013 U
		10/19/2023	0.000049 U	0.000024 U	0.000045 U	0.000042 U	0.000038 U	0.000465 U	0.000059 U	0.000039 U	0.000026 U
MW-2	III	7/11/2005	0.005 U	0.005 U	N/A	0.005 U	0.005 U	0.025 U	N/A	0.005 U	0.005 U
		7/21/2008	0.005 U	0.005 U	N/A	0.005 U	0.005 U	0.025 U	N/A	0.005 U	0.005 U
		7/26/2011	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0010 U	0.016 U	0.0014 U	0.001 U	0.001 U
		7/21/2014	0.0010 U	0.0012 U	0.0014 U	0.0015 U	0.0016 U	0.010 U	0.0056 U	0.0014 U	0.0015 U
		7/17/2017	0.0018 U	0.0017 U	0.0019 U	0.0018 U	0.0017 U	0.0012 U	0.0038 U	0.0021 U	0.0019 U
		7/29/2020	0.0012 U	0.0011 U	0.0014 U	0.00091 U	0.0010 U	0.0021 U	0.00097 U	0.0013 U	0.0013 U
		4/25/2023	0.000049 U	0.000024 U	0.000045 U	0.000042 U	0.000038 U	0.000465 U	0.000059 U	**0.00139**	**0.00485**
MW-3	III	7/11/2005	0.005 U	0.005 U	N/A	0.005 U	0.005 U	0.025 U	N/A	0.005 U	0.005 U
		7/21/2008	0.005 U	0.005 U	N/A	0.005 U	0.005 U	0.025 U	N/A	0.005 U	0.005 U
		7/26/2011	1.1 U	0.0012 U	0.0011 U	0.0011 U	0.00099 U	0.015 U	0.0014 U	0.00098 U	0.00098 U
		7/21/2014	**0.0018 J**	0.0012 U	0.0014 U	0.0015 U	0.0016 U	0.010 U	0.0056 U	0.0014 U	0.0015 U
		7/17/2017	0.0018 U	0.0017 U	0.0019 U	0.0018 U	0.0018 U	0.0012 U	0.0038 U	0.0022 U	0.0019 U
		7/30/2020	0.0012 U	0.0011 U	0.0014 U	0.00092 U	0.0011 U	0.0021 U	0.00098 U	0.0013 U	0.0013 U
		4/27/2023	0.000049 U	0.000024 U	0.000045 U	0.000042 U	0.000038 U	0.000465 U	0.000059 U	**0.000187**	**0.000375**
MW-4	II	7/11/2005	0.005 U	0.005 U	N/A	0.005 U	0.005 U	0.025 U	N/A	0.005 U	0.005 U
		7/21/2008	0.005 U	0.005 U	N/A	0.005 U	0.005 U	0.025 U	N/A	0.005 U	0.005 U
		7/26/2011	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0010 U	0.015 U	0.0014 U	0.00099 U	0.00099 U
		7/21/2014	0.0010 U	0.0012 U	0.0014 U	0.0015 U	0.0016 U	0.010 U	0.0056 U	0.0014 U	0.0015 U
		7/18/2017	0.0018 U	0.0017 U	0.0019 U	0.0018 U	0.0017 U	0.0012 U	0.0038 U	0.0021 U	0.0019 U
		7/30/2020	0.0012 U	0.0011 U	0.0014 U	0.00091 U	0.0010 U	0.0021 U	0.00097 U	0.0013 U	0.0013 U
		4/26/203	0.000049 U	0.000024 U	0.000045 U	0.000042 U	0.000038 U	0.000465 U	0.000059 U	0.000039 U	**0.000279**
MW-8	III	7/11/2005	0.005 U	0.005 U	N/A	0.005 U	0.005 U	0.025 U	N/A	0.005 U	0.005 U
		7/21/2008	0.005 U	0.005 U	N/A	0.005 U	0.005 U	0.025 U	N/A	0.005 U	0.005 U
		7/26/2011	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0010 U	0.015 U	0.0014 U	0.00099 U	0.00099 U
		7/21/2014	0.0010 U	0.0012 U	0.0014 U	0.0015 U	0.0016 U	0.010 U	0.0056 U	0.0014 U	0.0015 U
		7/17/2017	0.0018 U	0.0017 U	0.0019 U	0.0018 U	0.0017 U	0.0012 U	0.0038 U	0.0021 U	0.0019 U
		7/29/2020	0.0012 U	0.0011 U	0.0014 U	0.00091 U	0.0010 U	0.0021 U	0.00097 U	0.0013 U	0.0013 U
		4/25/2023	**0.0213**	0.000024 U	0.000045 U	0.000042 U	0.000038 U	0.000465 U	0.000059 U	0.000039 U	0.000026 U

TABLE 4-2
Groundwater Analytical Data Summary - Creosote Constituents
Texas Electric Cooperatives, Inc.

MW-11	II & III	7/11/2005	0.005 U	0.005 U	N/A	0.005 U	0.005 U	0.025 U	N/A	0.005 U	0.005 U
		7/21/2008	0.005 U	0.005 U	N/A	0.005 U	0.005 U	0.025 U	N/A	0.005 U	0.005 U
		7/26/2011	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.00099 U	0.015 U	0.0014 U	0.00098 U	0.00098 U
		7/21/2014	0.0010 U	0.0012 U	0.0014 U	0.0015 U	0.0016 U	0.010 U	0.0056 U	0.0014 U	0.0015 U
		7/17/2017	0.0018 U	0.0017 U	0.0019 U	0.0018 U	0.0017 U	0.0012 U	0.0038 U	0.0021 U	0.0019 U
		7/29/2020	0.0012 U	0.0011 U	0.0014 U	0.00091 U	0.0011 U	0.0021 U	0.00098 U	0.0013 U	0.0013 U
		4/25/2-23	0.000049 U	0.000024 U	0.000045 U	0.000042 U	0.000038 U	0.000465 U	0.000059 U	0.000039 U	0.000026 U
MW-13	II	7/11/2005	0.005 U	0.005 U	N/A	0.005 U	0.005 U	0.025 U	N/A	0.005 U	0.005 U
MW-15A	III	7/11/2005	0.005 U	0.005 U	N/A	0.005 U	0.005 U	0.025 U	N/A	0.005 U	0.005 U
		7/21/2008	0.005 U	0.005 U	N/A	0.005 U	0.005 U	0.025 U	N/A	0.005 U	0.005 U
		7/26/2011	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0010 U	0.016 U	0.0014 U	0.001 U	0.001 U
		7/21/2014	0.0010 U	0.0012 U	0.0014 U	0.0015 U	0.0016 U	0.010 U	0.0056 U	0.0014 U	0.0015 U
		7/17/2017	0.0018 U	0.0017 U	0.0019 U	0.0018 U	0.0017 U	0.0012 U	0.0038 U	0.0021 U	0.0019 U
		7/29/2020	0.0012 U	0.0011 U	0.0014 U	0.00092 U	0.0010 U	0.0021 U	0.00099 U	0.0013 U	0.0014 U
		4/25/2023	0.000049 U	0.000024 U	0.000045 U	0.000042 U	0.000038 U	0.000465 U	0.000059 U	0.000039 U	0.000026 U
MW-15B	III	7/11/2005	0.005 U	0.005 U	N/A	0.005 U	0.005 U	0.025 U	N/A	0.005 U	0.005 U
		7/21/2008	0.005 U	0.005 U	N/A	0.005 U	0.005 U	0.025 U	N/A	0.005 U	0.005 U
		7/26/2011	0.0012 U	0.0012 U	0.0011 U	0.0011 U	0.0010 U	0.016 U	0.0014 U	0.001 U	0.001 U
		7/21/2014	0.0010 U	0.0012 U	0.0014 U	0.0015 U	0.0016 U	0.010 U	0.0056 U	0.0014 U	0.0015 U
		7/17/2017	0.0018 U	0.0017 U	0.0019 U	0.0018 U	0.0017 U	0.0012 U	0.0038 U	0.0021 U	0.0019 U
		7/29/2020	0.0012 U	0.0011 U	0.0014 U	0.00092 U	0.0011 U	0.0021 U	0.00098 U	0.0013 U	0.0014 U
		4/25/2023	0.000049 U	0.000024 U	0.000045 U	0.000042 U	0.000038 U	0.000465 U	0.000059 U	0.000039 U	0.000026 U

Notes:

WMA = Waste Management Area

ug/L = micrograms per kilogram

Exceedances of the Permit Concentration Limits are shaded yellow.

Laboratory detection limits exceeding the Permit Concentration Limits are shaded in gray

The dedicated pump in well MW-1 failed in April 2023 and was repaired and sampled in October 2023.

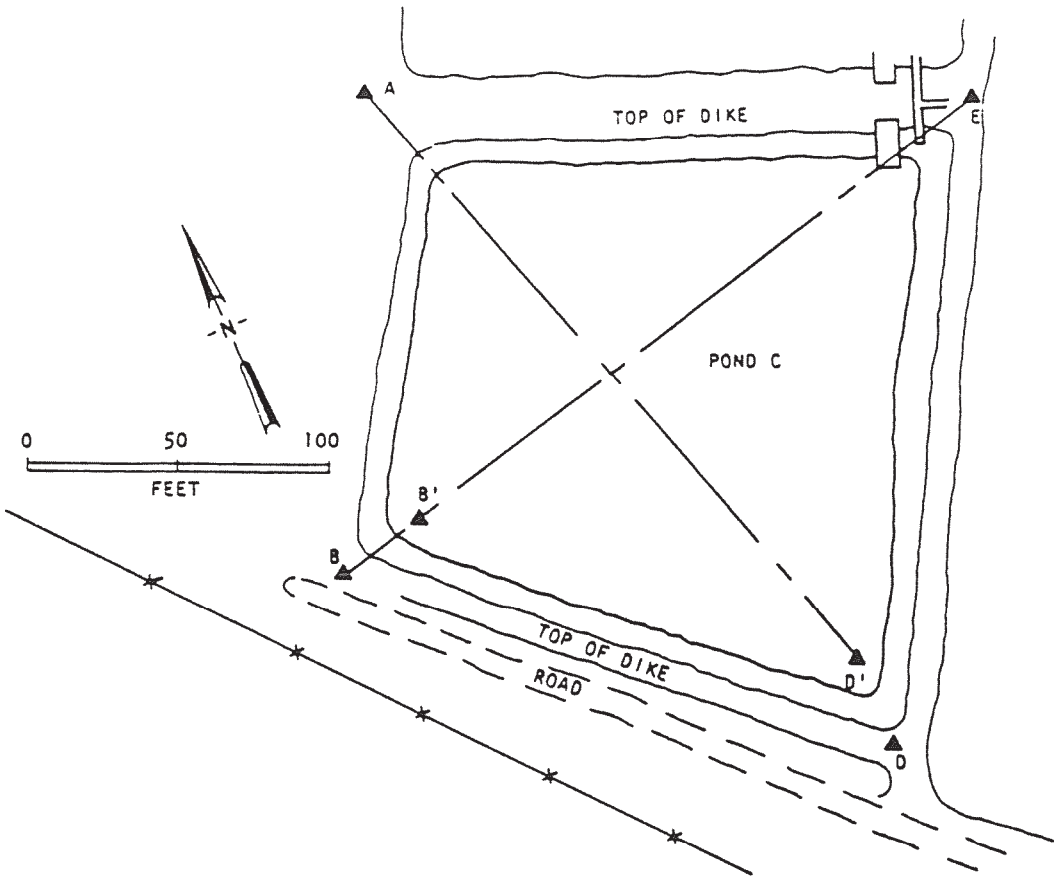
ATTACHMENT 1

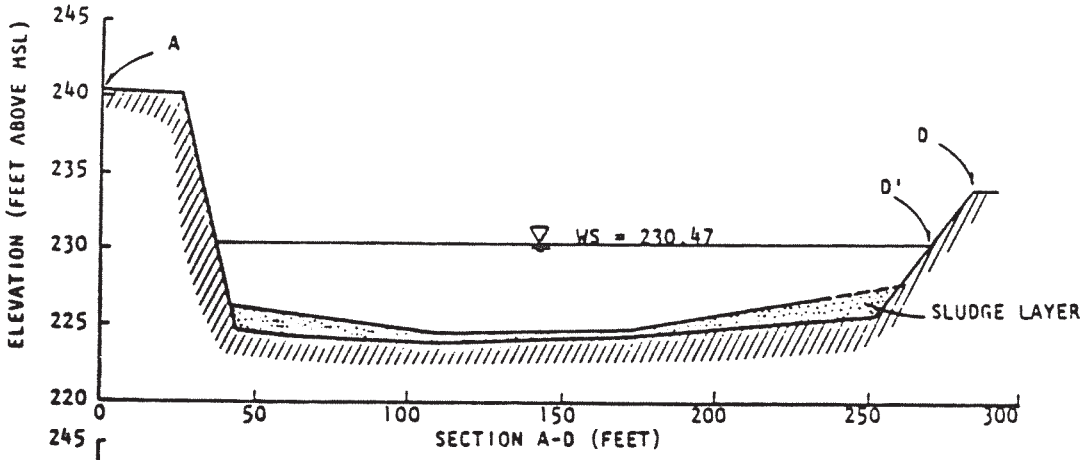
PONDS C THROUGH F CROSS SECTIONS

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FIGURE 4

POND C





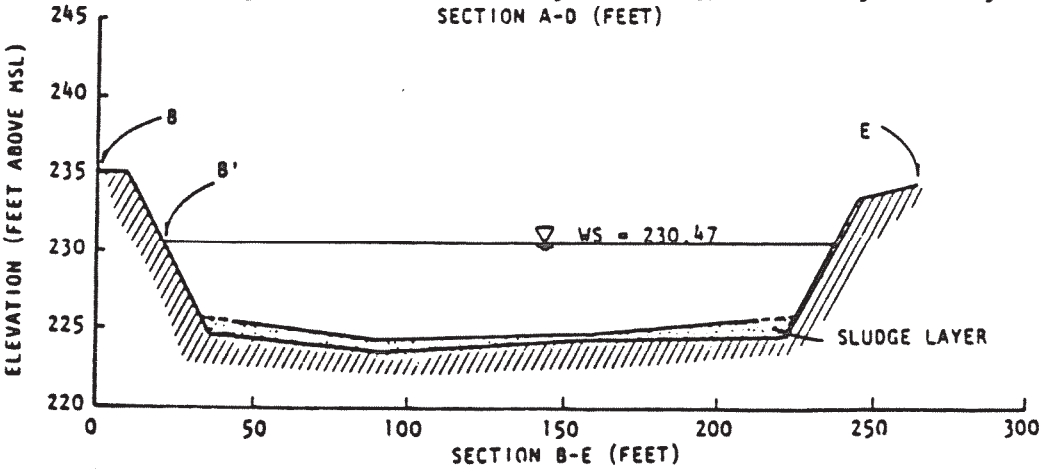
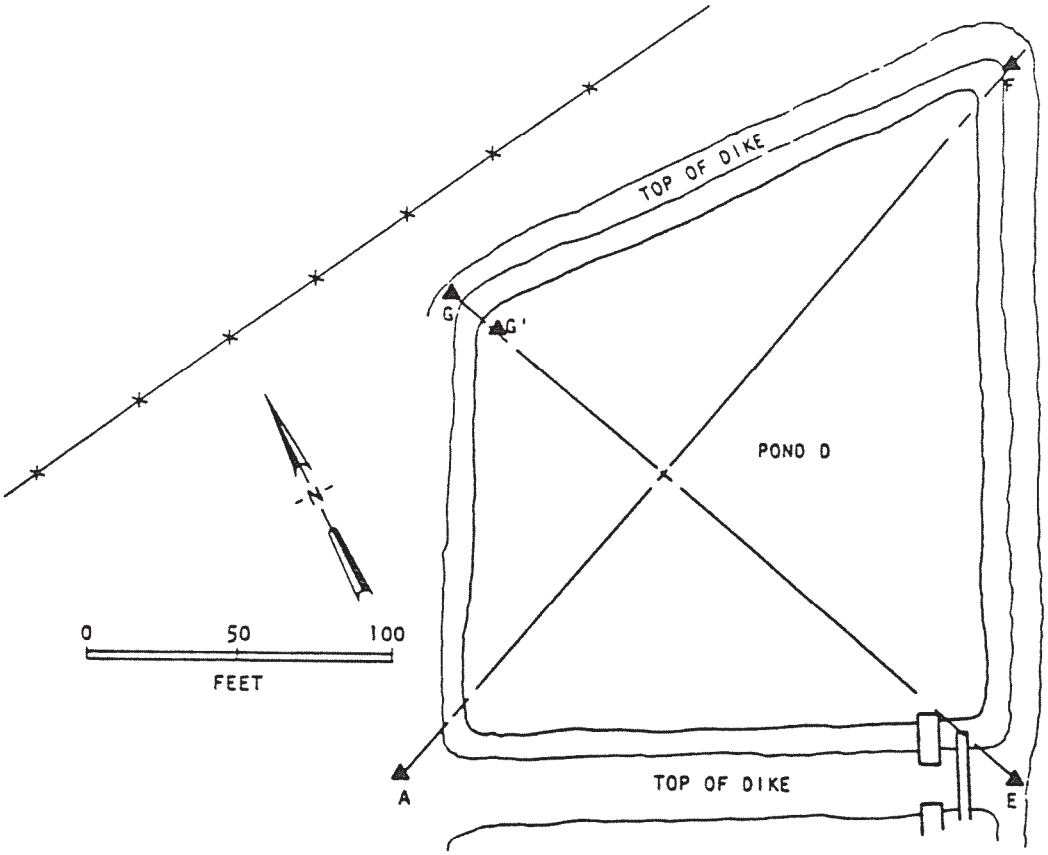
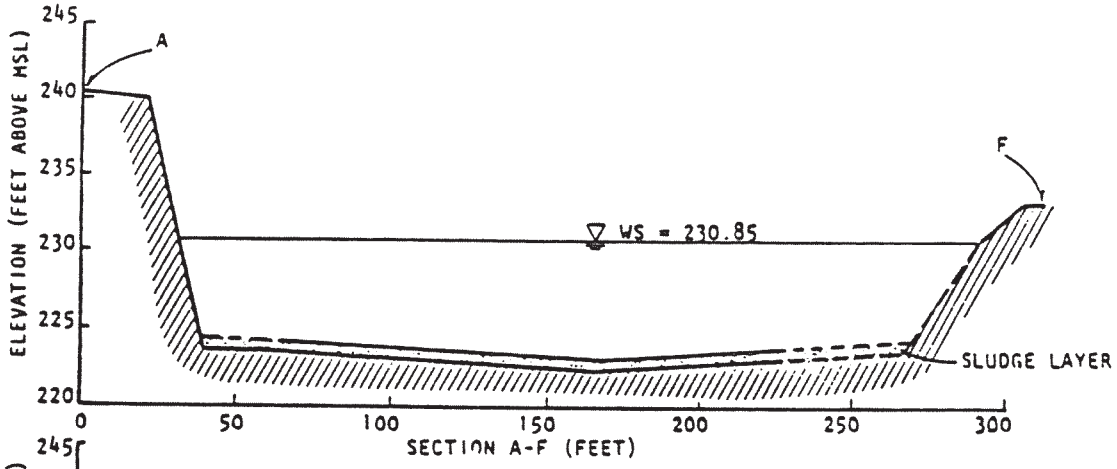


FIGURE 5

POND D





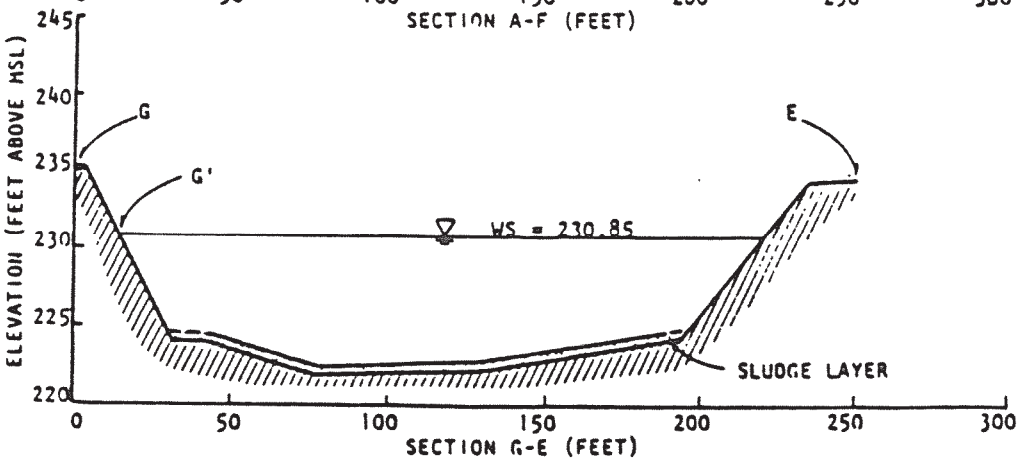
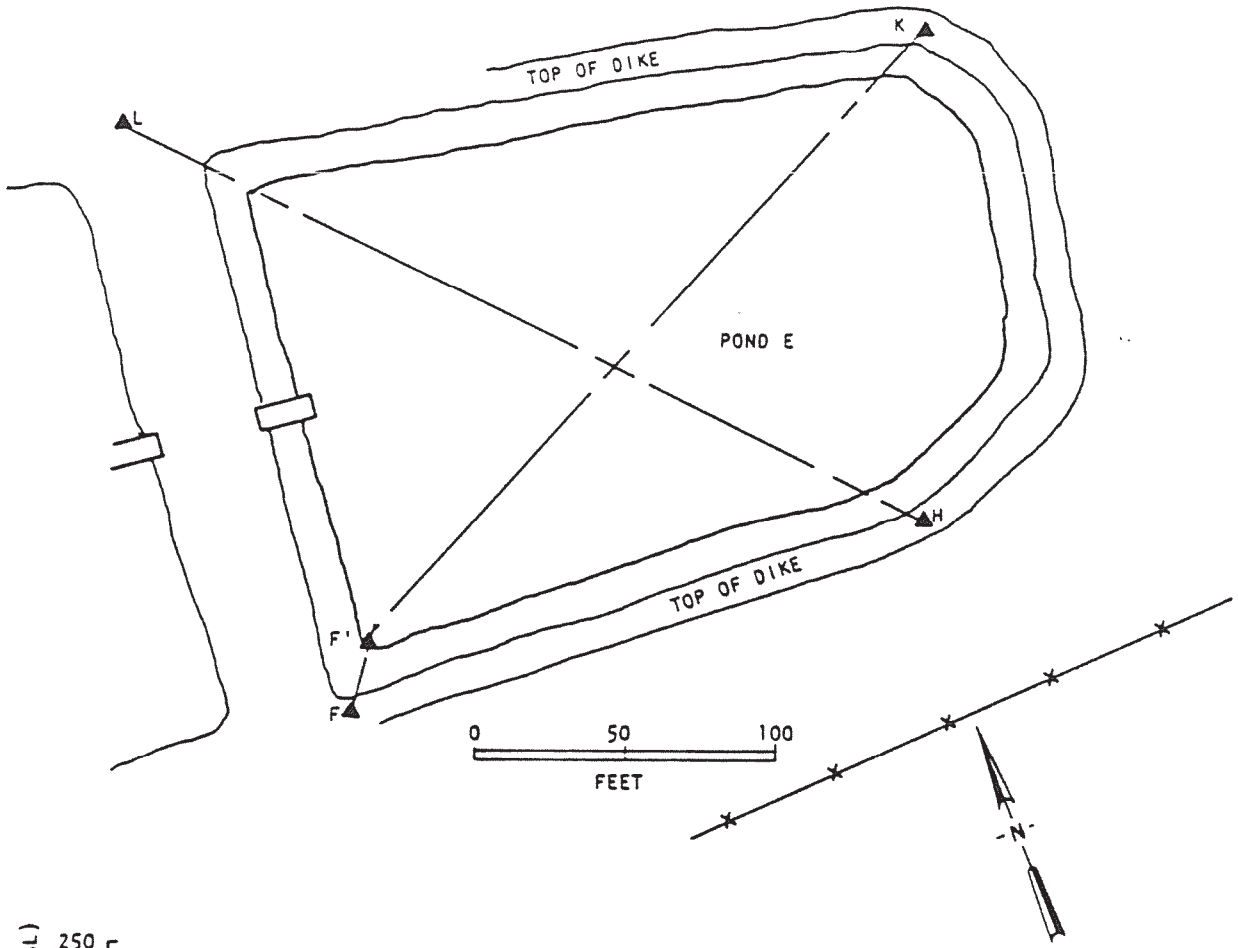
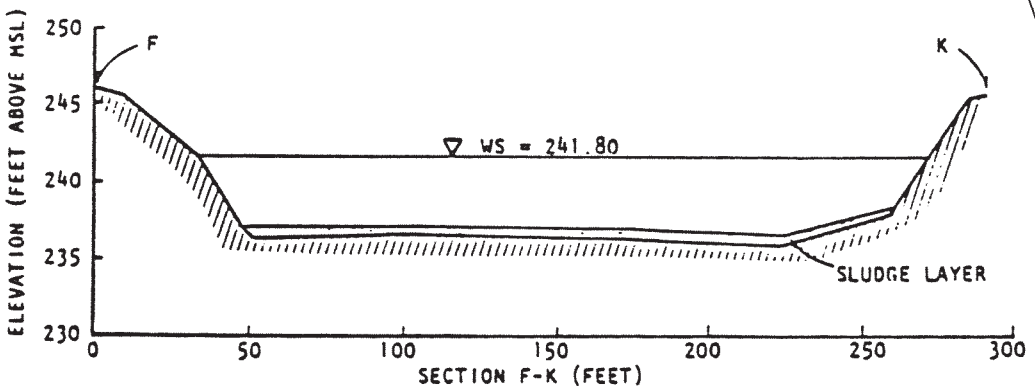
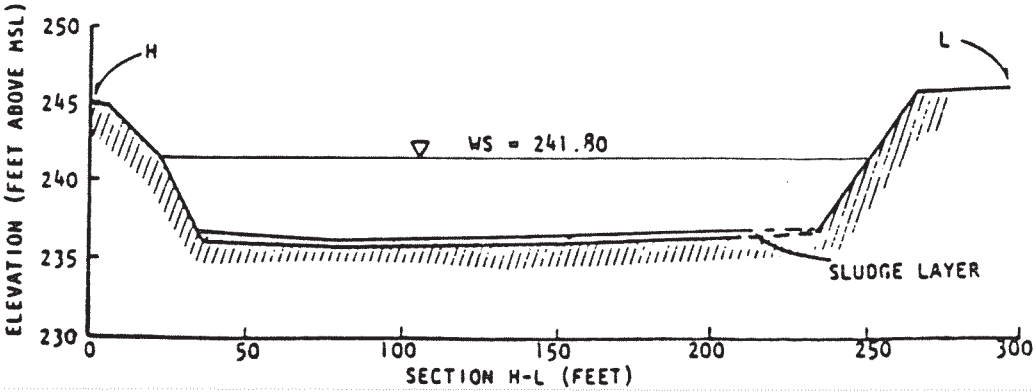


FIGURE 6

POND E



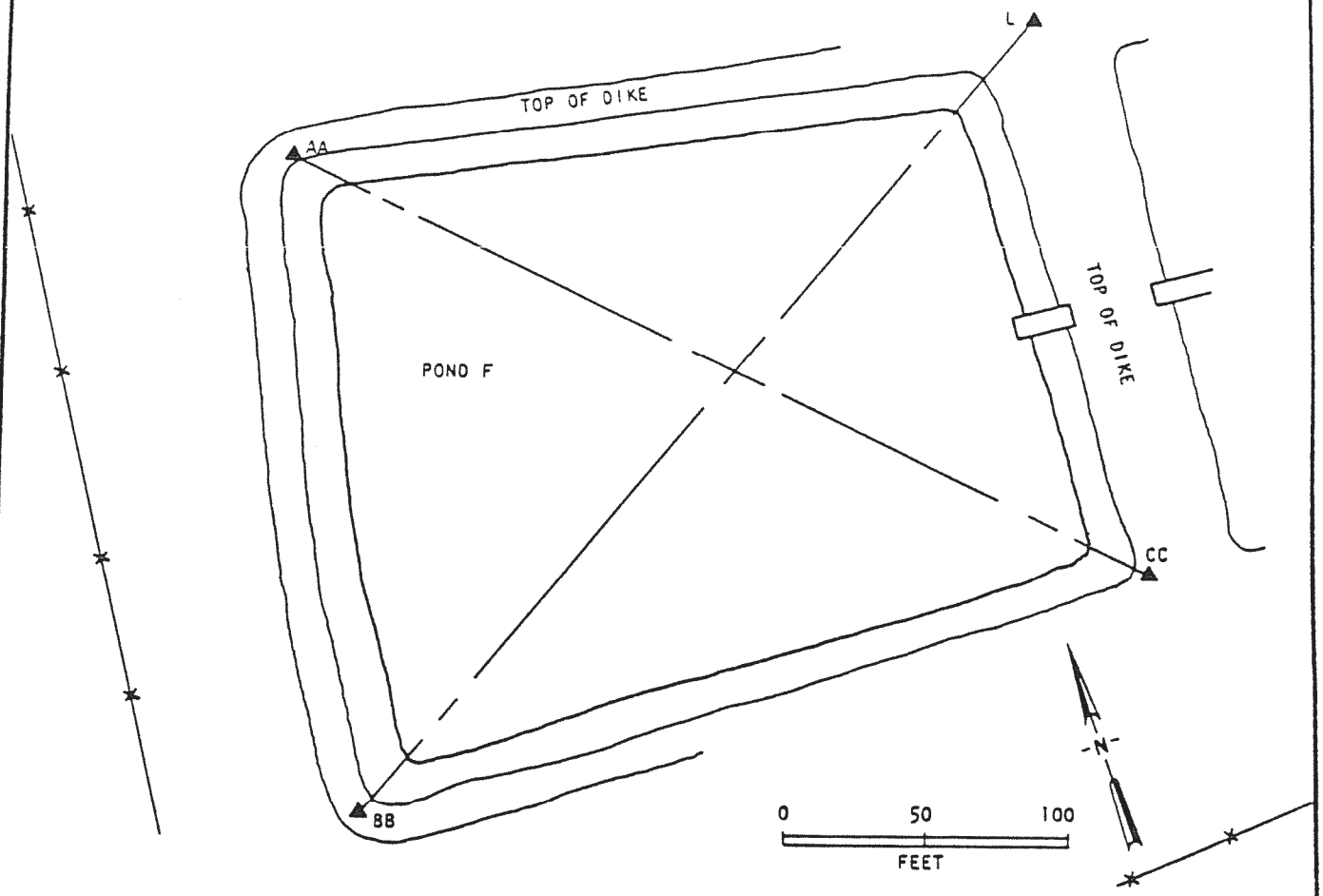


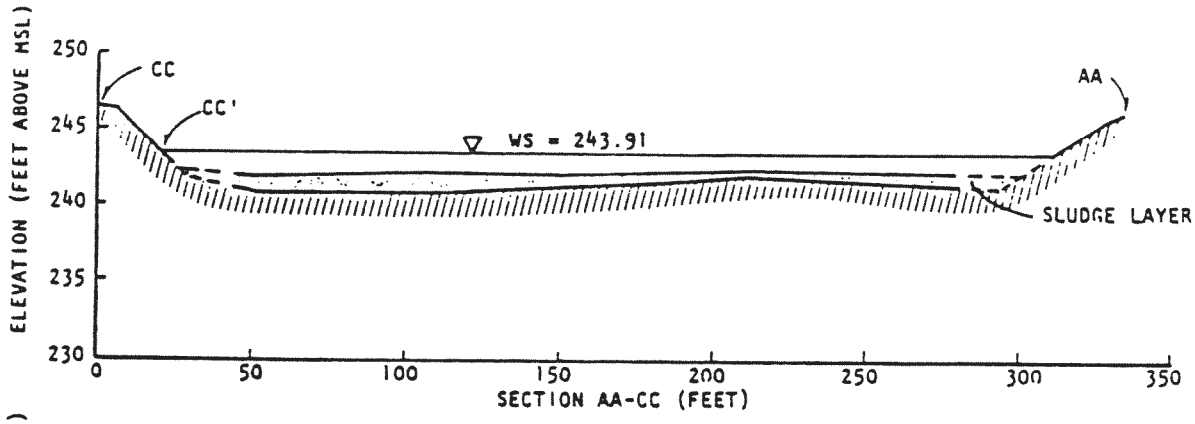


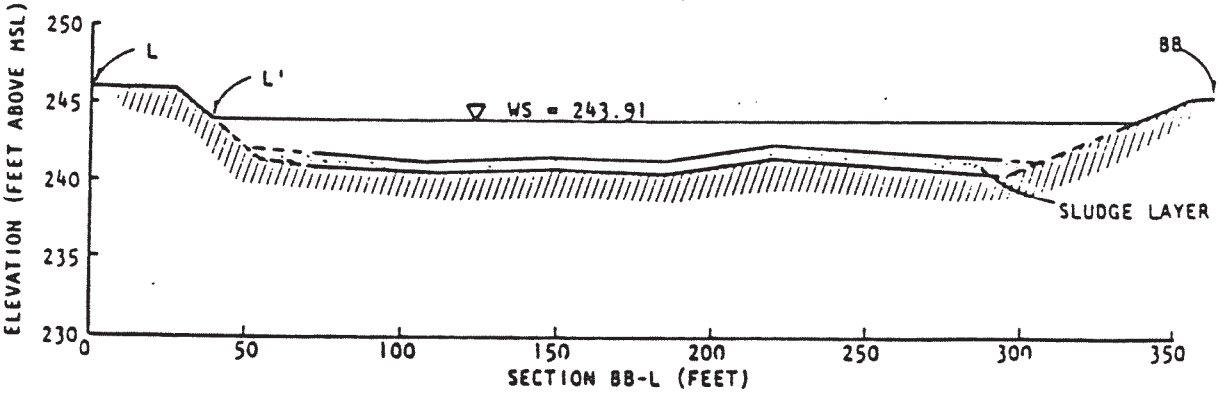
ES ENGINEERING - SCIENCE

FIGURE 7

POND F





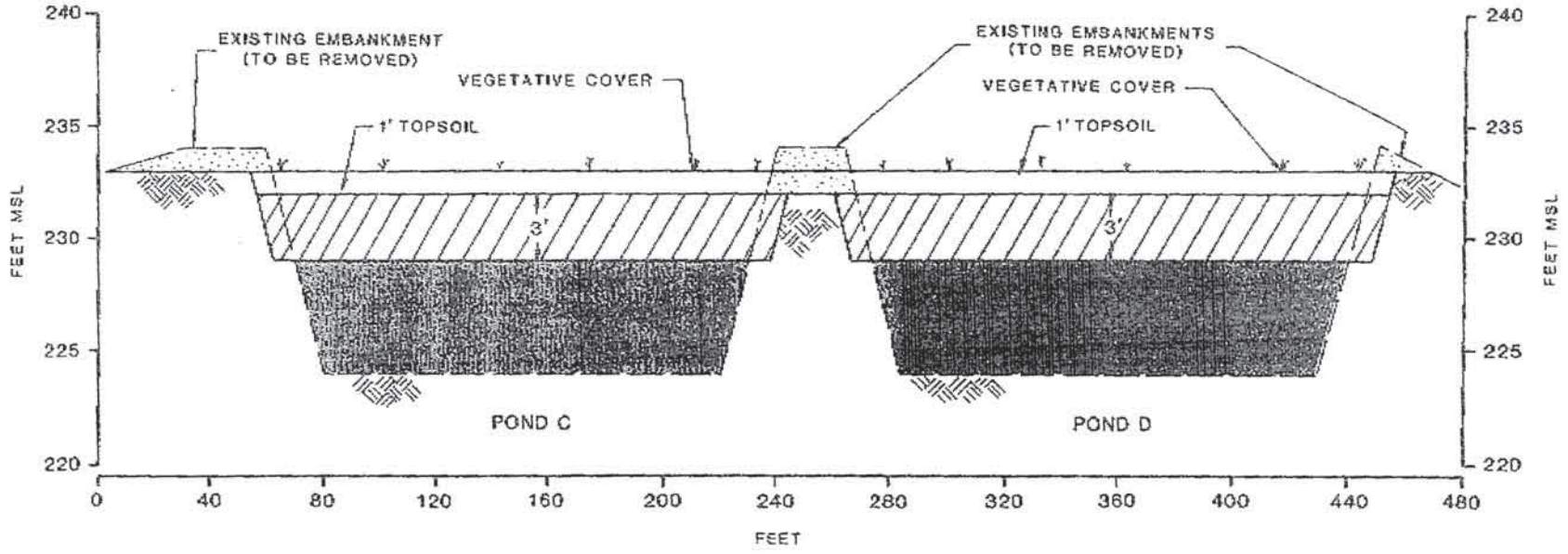


ATTACHMENT 2

PROPOSED CLOSURE DESIGN CROSS-SECTIONS OF WMAS II AND III

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SECTION F-F' - POND C & POND D

LEGEND

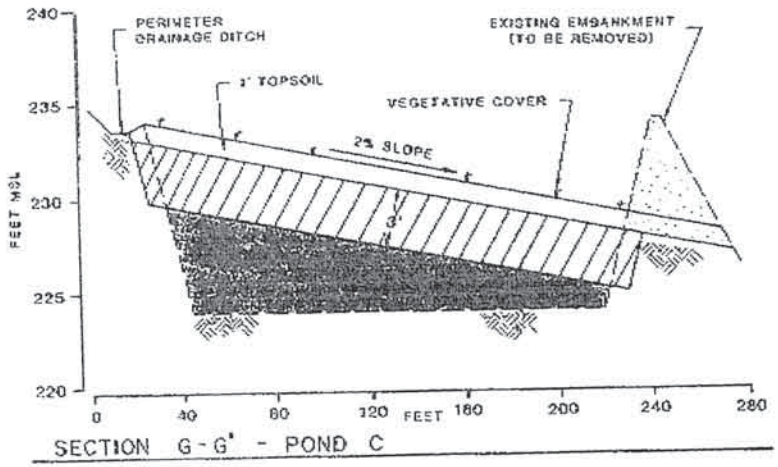
COMPACTED CLAY CAP

SELECT FILL

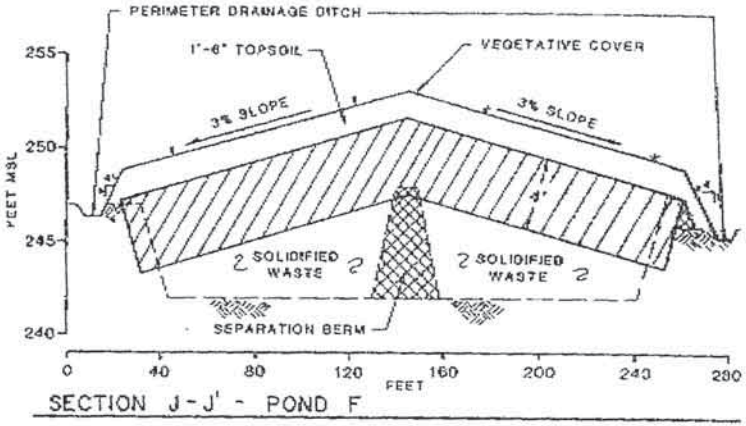
FIGURE 5
SECTION F-F'
SURFACE IMPOUNDMENT CLOSURE PLAN
TEXAS ELECTRIC COOPERATIVES, INC.

JONES AND NEUSE, INC.
Engineering and Environmental Consultants

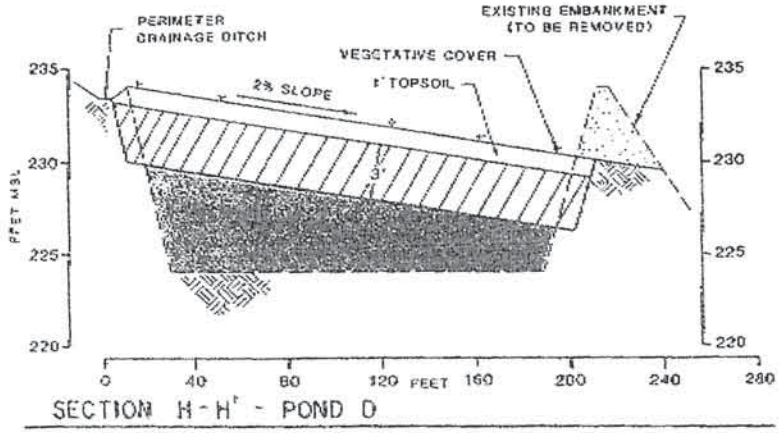
014



SECTION G-G' - POND C



SECTION J-J' - POND F



SECTION H-H' - POND D

LEGEND

- COMPACTED CLAY CAP
- SELECT FILL
- NEW CONSTRUCTION

FIGURE 6

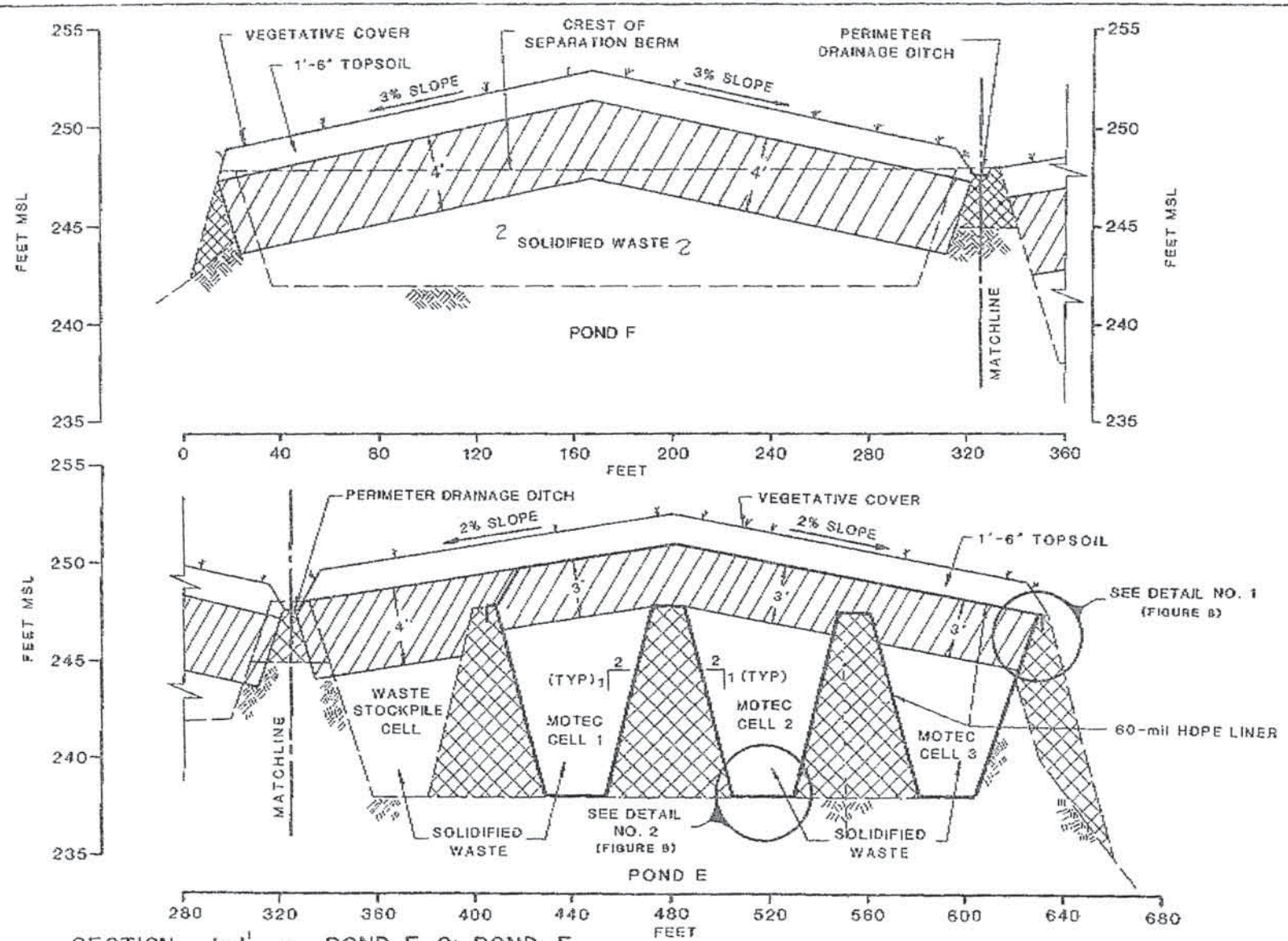
SECTIONS G-G', H-H' & J-J'

SURFACE IMPOUNDMENT CLOSURE PLAN

TEXAS ELECTRIC COOPERATIVES, INC.

JONES AND NEUSE, INC.
Engineering and Environmental Consultants

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SECTION 1-1' - POND E & POND F

LEGEND

COMPACTED CLAY CAP

NEW CONSTRUCTION

FIGURE 7

SECTION 1-1'

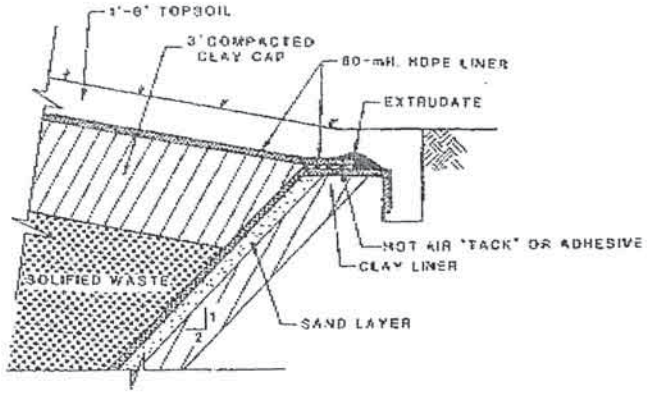
SURFACE IMPOUNDMENT CLOSURE PLAN

TEXAS ELECTRIC COOPERATIVES, INC.

JONES AND NEUSE, INC.
Engineering and Environmental Consultants

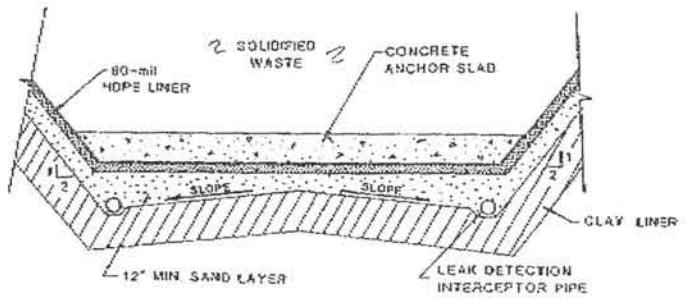
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016



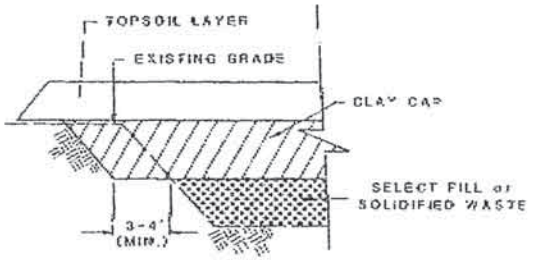
DETAIL NO. 1 - HDPE COVER & SIDEWALL CONNECTION

NOT TO SCALE



DETAIL NO. 2 - IN-PLACE LEAK DETECTION SYSTEM

NOT TO SCALE



DETAIL NO. 3 - CLAY CAP & EXISTING GROUND KEY - IN DETAIL (TYP)

NOTES:

1. TOPSOIL SHALL BE SANDY LOAM SOIL WITH A MINIMUM OF 2% ORGANIC MATTER.

2. COMPACTED CLAY CAP SHALL BE CLAY RICH SOIL WITH A PERCENT PASSING NO. 200 SIEVE GREATER THAN 30, A LIQUID LIMIT GREATER THAN 30%, AND A PLASTICITY INDEX GREATER THAN 15%. CLAY CAP SHALL BE PLACED IN LIFTS NOT LESS THAN SIX INCHES NOR GREATER THAN NINE INCHES IN THICKNESS. THE SOIL SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY AT OR SLIGHTLY ABOVE OPTIMUM WATER CONTENT, AS DETERMINED BY ASTM STANDARD METHOD D-698, AND THEN SCARIFIED TO A MINIMUM DEPTH OF TWO TO THREE INCHES PRIOR TO PLACEMENT OF THE FOLLOWING LIFT. THE PERMEABILITY OF COMPACTED CLAY CAP SHALL BE EQUAL TO OR LESS THAN 1×10^{-7} CM/SEC.

3. SELECT FILL SHALL BE CLEAN SOIL OR CLASS III WASTE COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY.

4. SOLIDIFIED WASTE SHALL CONTAIN NO FREE LIQUIDS AS DETERMINED BY PAINT FILTER LIQUID TEST, METHOD 9095, EPA, SW-846.

FIGURE 8

DETAILS & NOTES

SURFACE IMPOUNDMENT CLOSURE PLAN

TEXAS ELECTRIC COOPERATIVES, INC.

JONES AND NEUSE, INC.
Engineering and Environmental Consultants

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017

ATTACHMENT 3

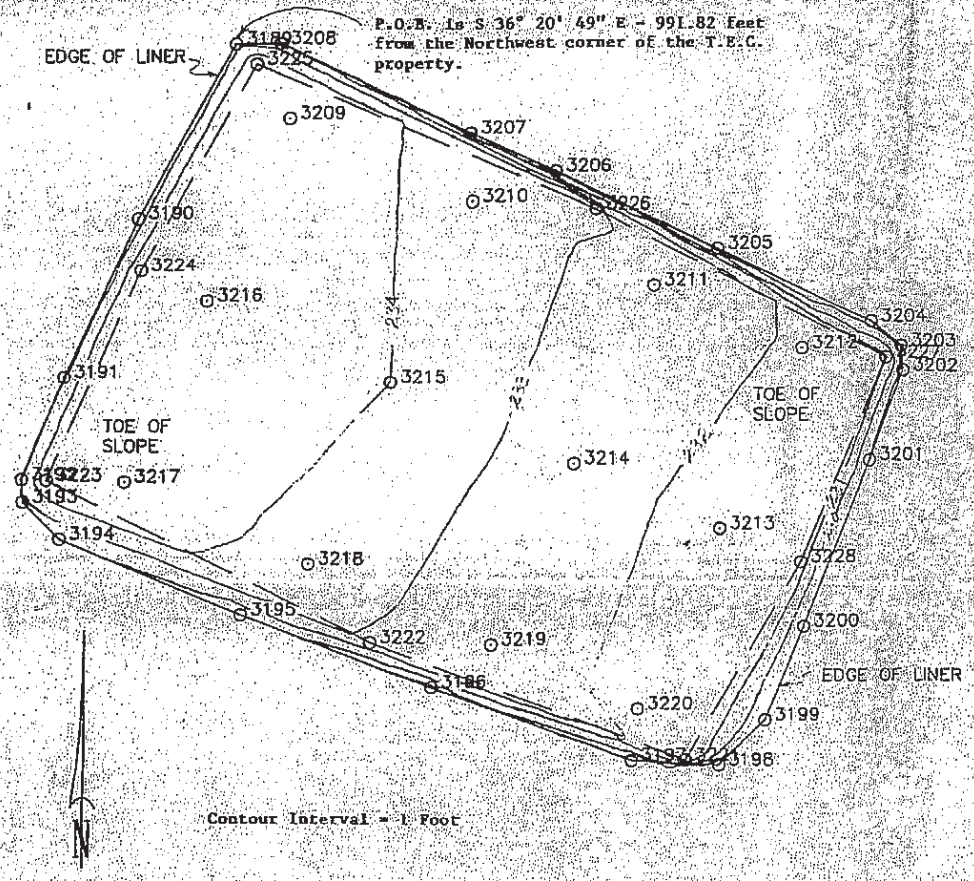
AS-BUILT DRAWINGS OF WMAs II AND III

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APPENDIX I

FINAL "AS-BUILT" PLAN VIEWS OF PONDS

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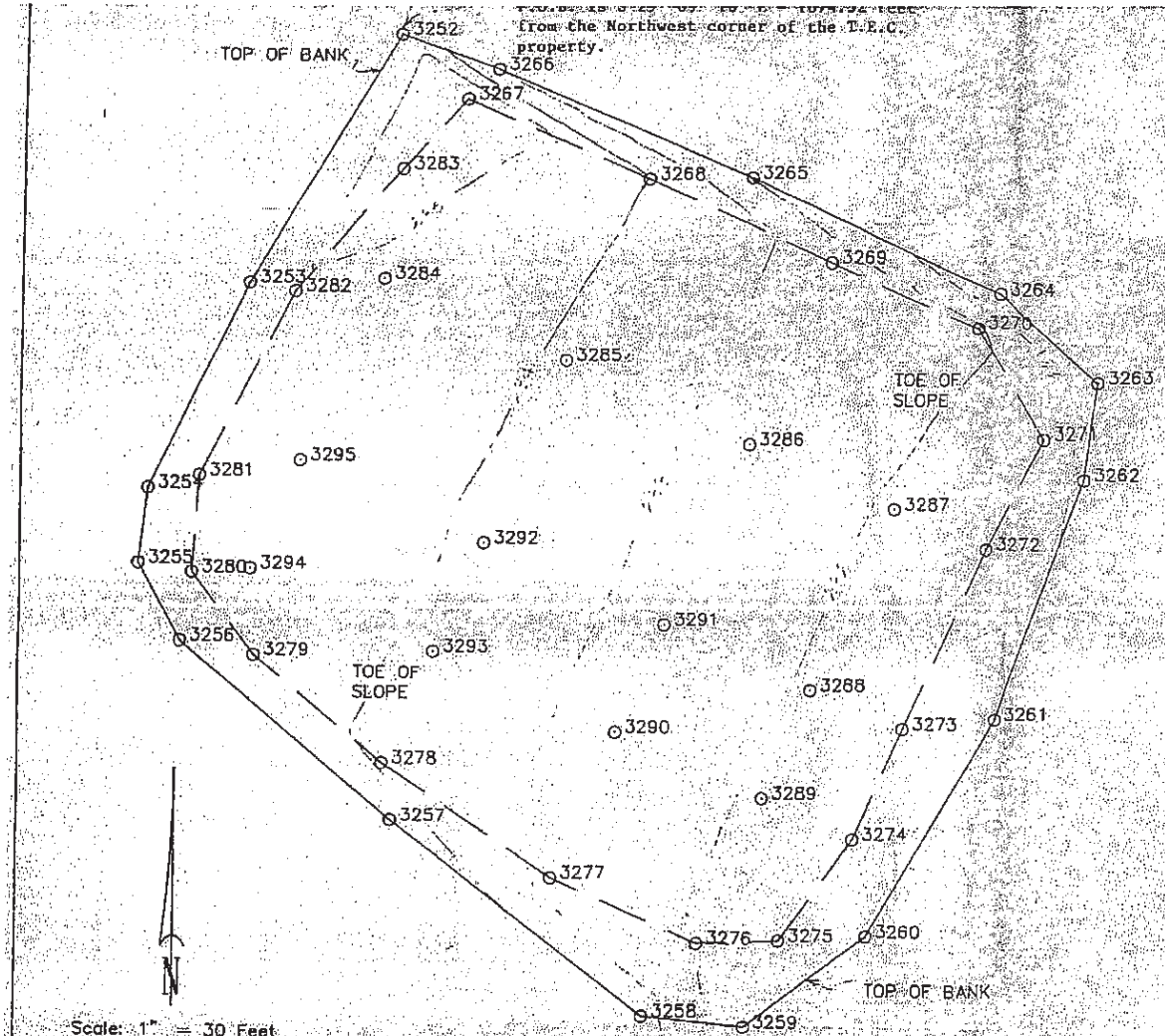
Scale: 1" = 30 Feet

POINT	ORIGINAL BOTTOM	TOP OF CLAY	TOP OF TOPSOIL	EDGE OF LINER
3189	–	–	232.3	232.3
3190	–	–	232.4	232.4
3191	–	–	232.7	232.7
3192	–	–	233.0	233.0
3193	–	–	232.9	232.9
3194	–	–	232.2	232.2
3195	–	–	231.1	231.1
3196	–	–	229.7	229.7
3197	–	–	228.7	228.7
3198	–	–	228.8	228.8
3199	–	–	229.3	229.3
3200	–	–	229.1	229.1
3201	–	–	229.0	229.0
3202	–	–	228.5	228.5
3203	–	–	228.7	228.7
3204	–	–	228.4	228.4
3205	–	–	228.3	228.3
3206	–	–	229.6	229.6
3207	–	–	230.7	230.7
3208	–	–	231.9	231.9
3209	230.4	233.6	234.6	–
3210	229.7	232.6	233.6	–
3211	228.5	231.5	232.5	–
3212	227.8	230.9	231.9	–
3213	227.7	230.7	231.7	–
3214	228.1	231.4	232.4	–
3215	229.7	233.0	234.0	–
3216	230.5	233.8	234.8	–
3217	230.5	233.8	234.8	–
3218	229.7	232.6	233.6	–
3219	228.3	231.4	232.4	–
3220	227.6	230.8	231.8	–
3221	228.0	230.8	231.8	–
3222	228.7	231.9	232.9	–
3223	231.4	233.9	234.9	–
3224	230.9	234.0	235.0	–
3225	230.5	234.0	235.0	–
3226	228.4	232.2	233.2	–
3227	227.9	230.4	231.4	–
3228	227.5	230.5	231.5	–

CLOSURE ELEVATIONS
TEXAS ELECTRIC COOP., INC.
POND D
AERATION BASIN
(F – 8)

M. C. Strother, Registered Professional Land Surveyor No. 2047

STATE OF TEXAS
REGISTERED
M.C. STROTHER
2047
PROFESSIONAL
LAND SURVEYOR



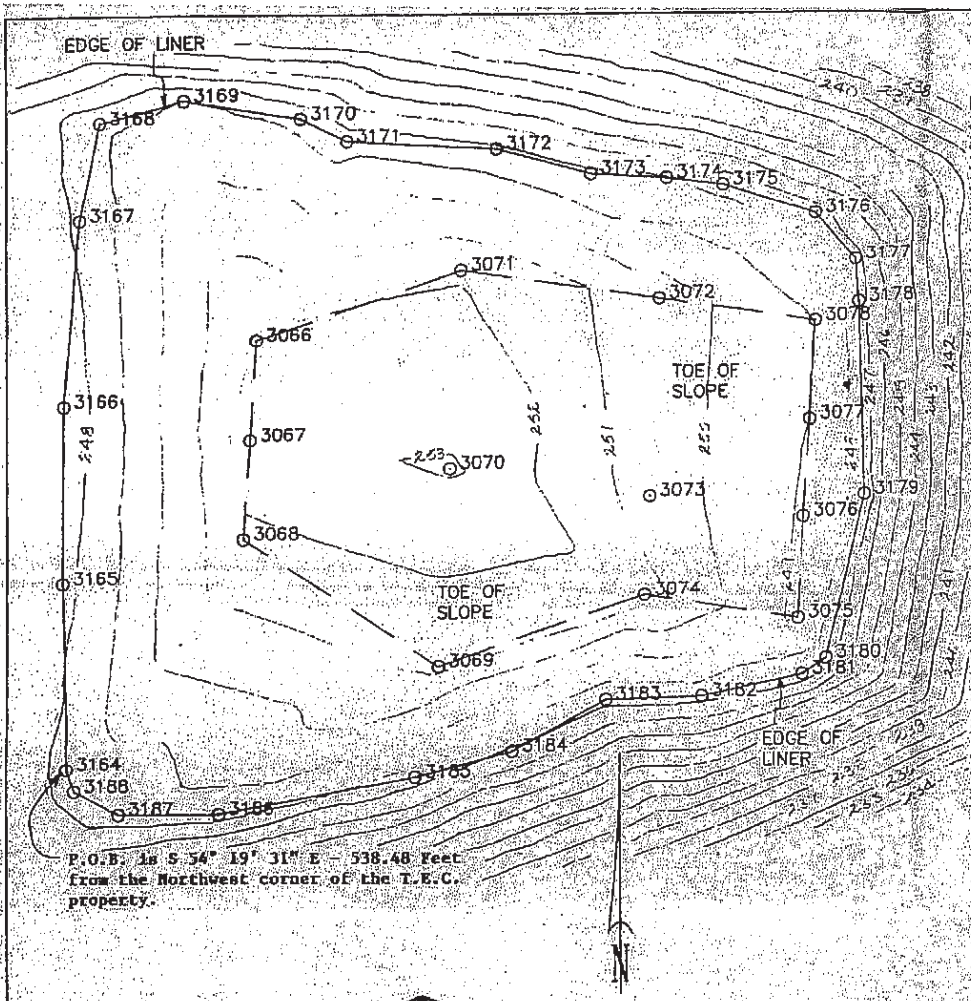
Scale: 1" = 30 Feet
Contour Interval = 1 Foot

POINT	ORIGINAL BOTTOM	TOP OF CLAY	TOP OF TOPSOIL	TOP BANK
3252	–	–	234.5	234.5
3253	–	–	234.4	234.4
3254	–	–	234.3	234.3
3255	–	–	234.7	234.7
3256	–	–	235.2	235.2
3257	–	–	234.6	234.6
3258	–	–	233.5	233.5
3259	–	–	231.2	231.2
3260	–	–	231.2	231.2
3261	–	–	231.3	231.3
3262	–	–	230.9	230.9
3263	–	–	230.2	230.2
3264	–	–	230.4	230.4
3265	–	–	231.9	231.9
3266	–	–	233.0	233.0
3267	231.6	234.9	235.9	–
3268	229.8	233.0	234.0	–
3269	228.5	231.6	232.6	–
3270	228.1	231.1	232.1	–
3271	227.7	230.7	231.7	–
3272	227.7	230.7	231.7	–
3273	227.7	230.7	231.7	–
3274	227.6	230.6	231.6	–
3275	227.7	230.7	231.7	–
3276	227.9	230.9	231.9	–
3277	228.5	231.6	232.6	–
3278	229.7	232.9	233.9	–
3279	230.0	233.3	234.3	–
3280	230.6	233.9	234.9	–
3281	230.8	234.1	235.1	–
3282	230.6	233.9	234.9	–
3283	231.2	234.5	235.5	–
3284	230.5	233.8	234.8	–
3285	229.7	232.9	233.9	–
3286	228.5	231.6	232.6	–
3287	227.9	230.9	231.9	–
3288	227.9	230.9	231.9	–
3289	227.9	230.9	231.9	–
3290	228.5	231.6	232.6	–
3291	228.5	231.6	232.6	–
3292	228.8	232.0	233.0	–
3293	229.7	232.9	233.9	–
3294	230.2	233.5	234.5	–
3295	230.1	233.4	234.4	–

STATE OF TEXAS REGISTERED M.C. STROTHER 2047 LAND SURVEYOR

H. C. Strother, Registered Professional Land Surveyor No. 2047

CLOSURE ELEVATIONS
TEXAS ELECTRIC COOP., INC.
POND C
AERATION BASIN



P.O.B. is S 54° 19' 31" E - 538.48 feet from the Northwest corner of the T.E.C. property.

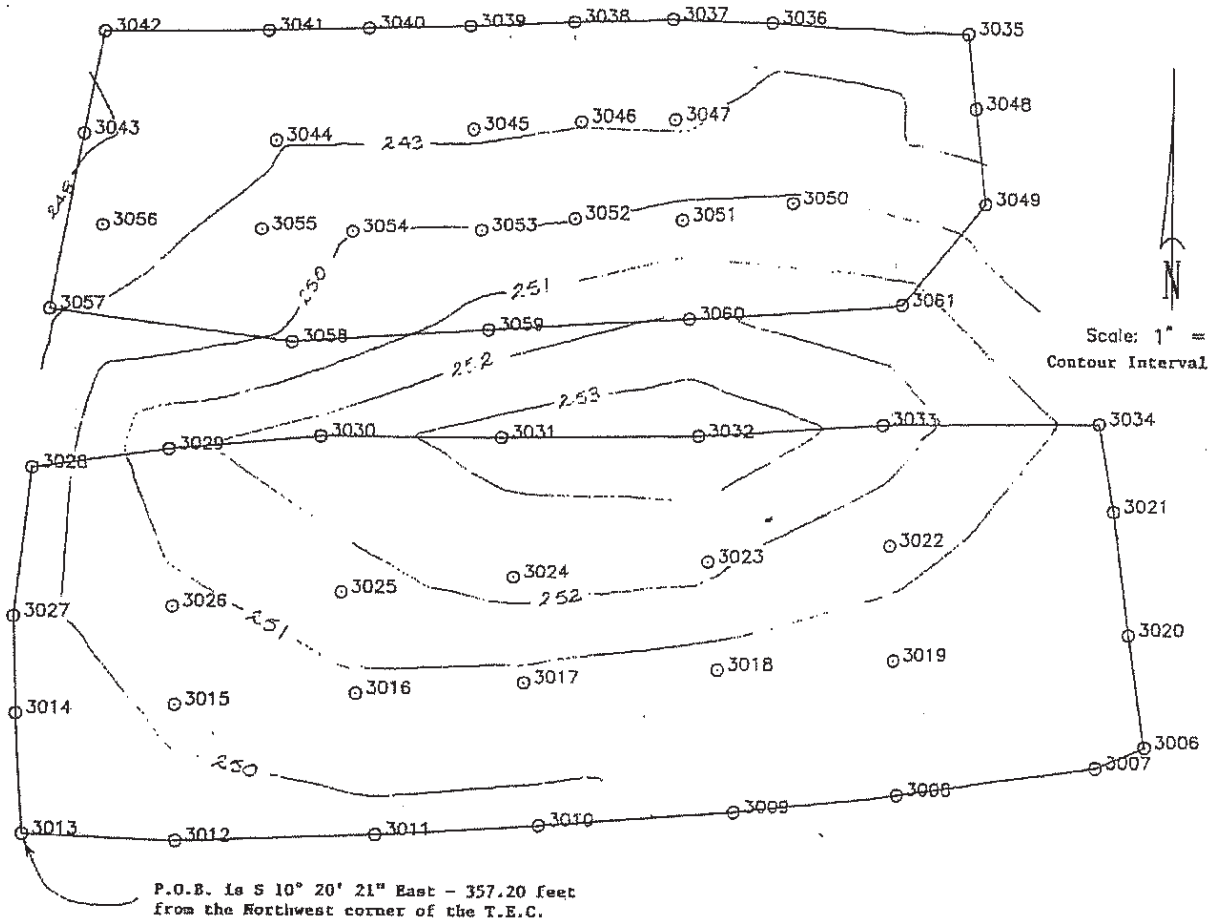
Scale: 1" = 30 Feet
Contour Interval = 1 Foot

H. C. Strother, Registered Professional
Land Surveyor No. 2047

STATE OF TEXAS
H. C. STROTHER
2047
REGISTERED
PROFESSIONAL
LAND SURVEYOR

POINT	ORIGINAL BOTTOM	TOP OF CLAY	TOP OF TOPSOIL	EDGE OF LINER
3066	247.6	250.6	252.1	–
3067	248.2	251.2	252.7	–
3068	247.3	250.3	251.8	–
3069	246.6	249.6	251.1	–
3070	248.6	251.6	253.1	–
3071	247.4	250.4	251.9	–
3072	246.0	249.0	250.5	–
3073	246.1	249.1	250.6	–
3074	246.9	249.9	251.4	–
3075	244.3	247.3	248.8	–
3076	244.4	247.4	248.9	–
3077	244.5	247.5	249.0	–
3078	244.5	247.5	249.0	–
3164	–	–	248.2	248.2
3165	–	–	247.8	247.8
3166	–	–	247.2	247.2
3167	–	–	248.2	248.2
3168	–	–	248.8	248.8
3169	–	–	249.0	249.0
3170	–	–	248.8	248.8
3171	–	–	248.6	248.6
3172	–	–	248.2	248.2
3173	–	–	248.1	248.1
3174	–	–	248.0	248.0
3175	–	–	247.7	247.7
3176	–	–	247.6	247.6
3177	–	–	247.4	247.4
3178	–	–	247.5	247.5
3179	–	–	247.6	247.6
3180	–	–	247.6	247.6
3181	–	–	247.5	247.5
3182	–	–	247.5	247.5
3183	–	–	247.2	247.2
3184	–	–	246.9	246.9
3185	–	–	247.7	247.7
3186	–	–	248.4	248.4
3187	–	–	248.5	248.5
3188	–	–	248.2	248.2

CLOSURE ELEVATIONS
TEXAS ELECTRIC COOP., INC.
POND E
AERATION BASIN
(F – 9)



P.O.B. is S 10° 20' 21" East - 357.20 feet from the Northwest corner of the T.E.C. property.

CLOSURE ELEVATIONS
TEXAS ELECTRIC COOP., INC.
POND F
AERATION BASIN
(F - 10)

POINT	ORIGINAL BOTTOM	TOP OF CLAY	TOP OF TOPSOIL
3006	244.6	248.7	250.2
3007	243.9	248.0	249.5
3008	244.6	248.7	250.2
3009	244.7	248.7	250.2
3010	244.2	248.2	249.7
3011	244.3	248.2	249.7
3012	244.1	248.1	249.6
3013	243.7	247.8	249.3
3014	243.7	247.7	249.2
3015	244.7	248.7	250.2
3016	245.3	249.3	250.8
3017	–	–	–
3018	245.1	249.1	250.6
3019	245.0	249.0	250.5
3020	244.7	248.7	250.2
3021	244.9	248.8	250.3
3022	245.9	249.9	251.4
3023	246.6	250.6	252.1
3024	246.9	250.9	252.4
3025	246.1	250.1	251.6
3026	245.2	249.2	250.7
3027	244.3	248.2	249.7
3028	243.8	247.8	249.3
3029	246.3	250.3	251.8
3030	247.1	251.1	252.6
3031	247.8	251.9	253.4
3032	248.5	252.4	253.9
3033	247.1	251.1	252.6
3034	245.0	249.0	250.5
3035	242.9	246.9	248.4
3036	243.1	247.1	248.6
3037	243.1	247.1	248.6
3038	242.9	246.8	248.3
3039	242.6	246.6	248.1
3040	242.7	246.8	248.3
3041	242.5	246.5	248.0
3042	242.7	246.7	248.2
3043	242.2	246.3	247.8
3044	243.4	247.4	248.9
3045	243.3	247.3	248.8
3046	243.4	247.4	248.9
3047	243.3	247.3	248.8
3048	242.8	246.8	248.3
3049	244.0	248.0	249.5
3050	244.6	248.6	250.1
3051	244.8	248.8	250.3
3052	244.4	248.4	249.9
3053	244.6	248.5	250.0
3054	244.5	248.5	250.0
3055	243.8	247.7	249.2
3056	243.2	247.2	248.7
3057	243.3	247.3	248.8
3058	244.6	248.6	250.1
3059	245.9	250.0	251.5
3060	246.6	250.6	252.1
3061	245.9	249.9	251.4

M. C. Strother

STATE OF TEXAS REGISTERED M.C. STROTHER 2047 PROFESSIONAL LAND SURVEYOR

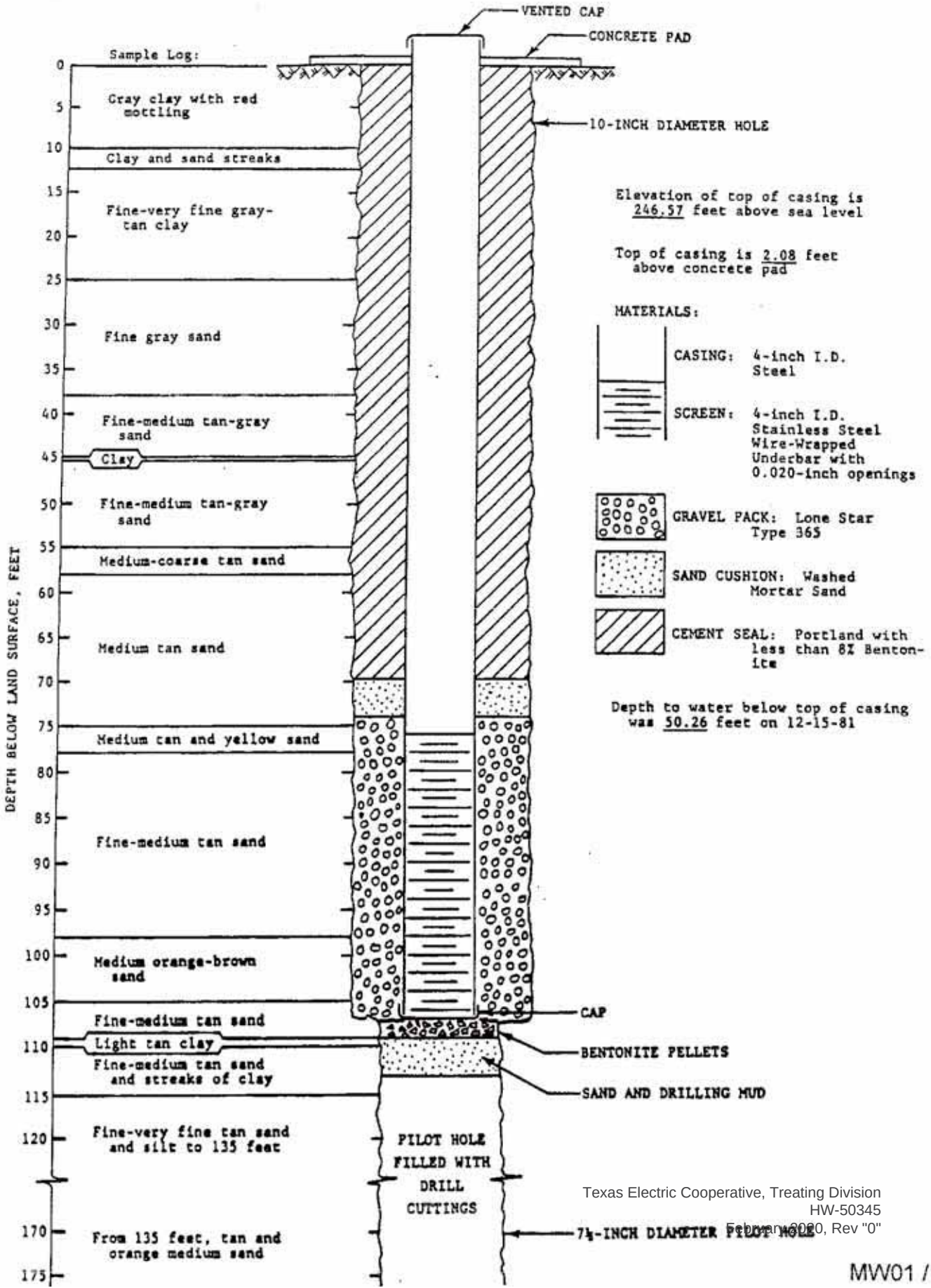
N. C. Strother, Registered Professional Land Surveyor No. 2047

ATTACHMENT 4

BORING LOGS

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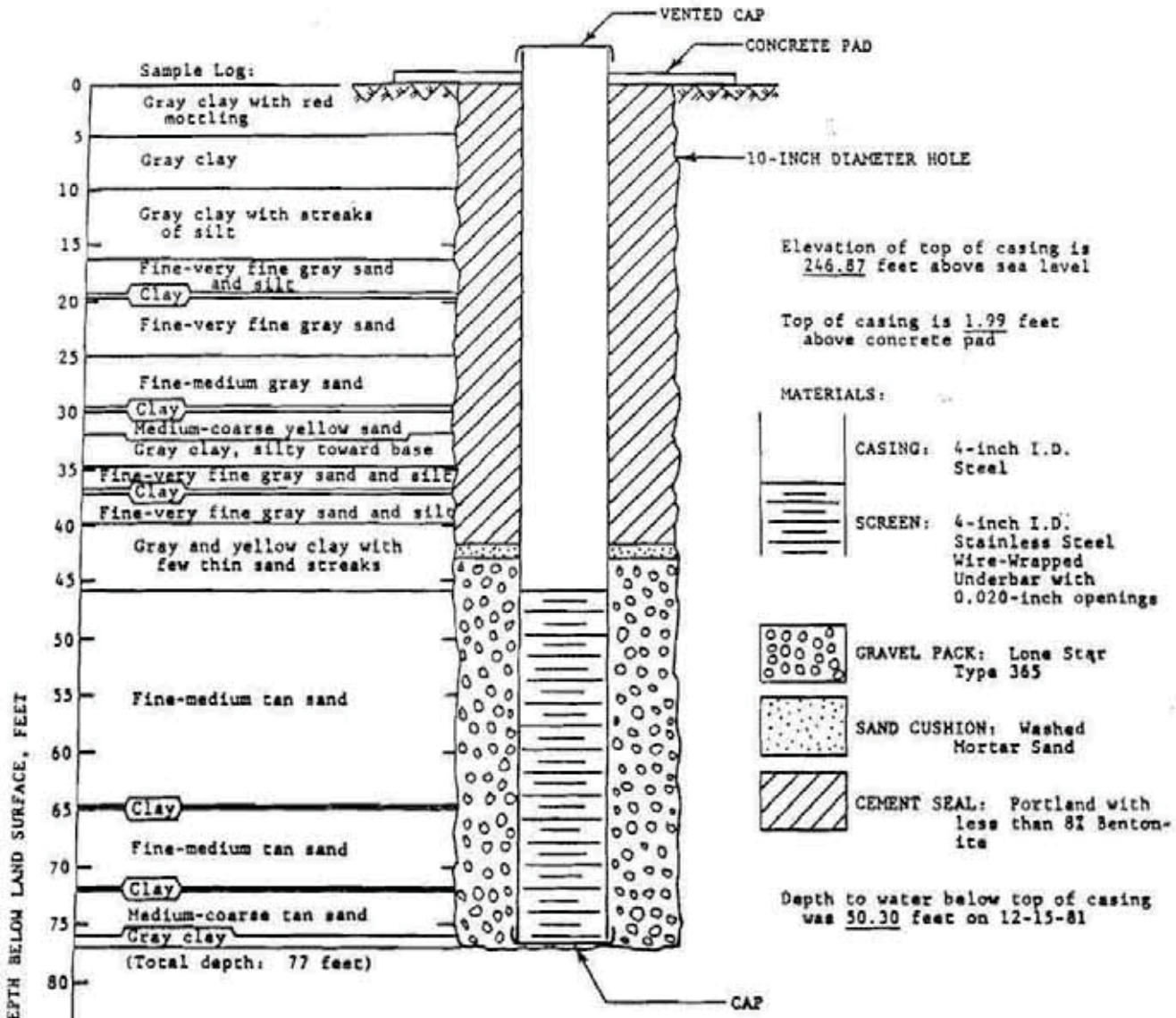
MONITOR WELL W-1



Texas Electric Cooperative, Treating Division
HW-50345
February 2020, Rev "0"

MW01 / 8112

MONITOR WELL W-2



Elevation of top of casing is 246.87 feet above sea level

Top of casing is 1.99 feet above concrete pad

MATERIALS:

CASING: 4-inch I.D. Steel

SCREEN: 4-inch I.D. Stainless Steel Wire-Wrapped Underbar with 0.020-inch openings

GRAVEL PACK: Lone Star Type 365

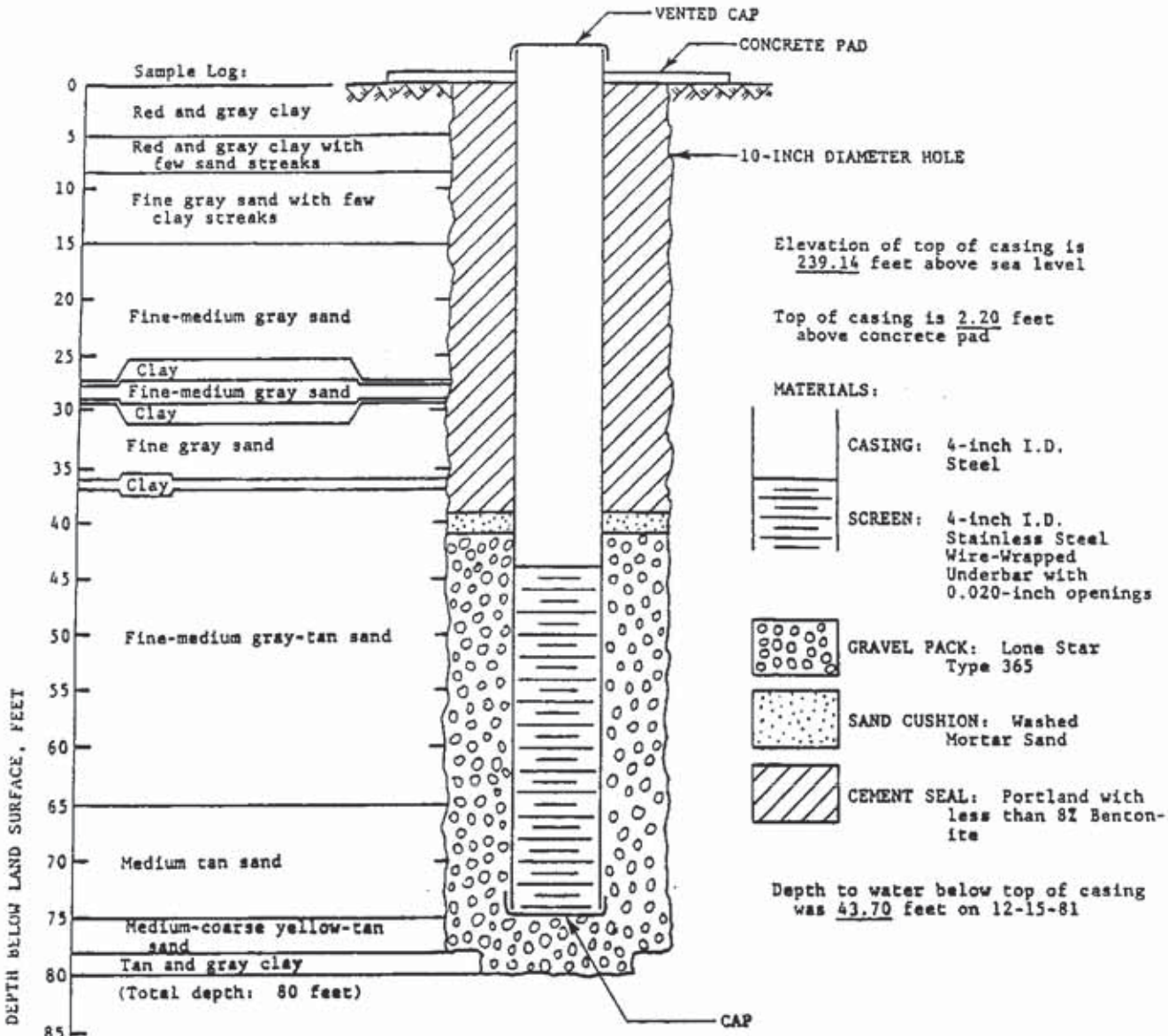
SAND CUSHION: Washed Mortar Sand

CEMENT SEAL: Portland with less than 8% Bentonite

Depth to water below top of casing was 50.30 feet on 12-15-81

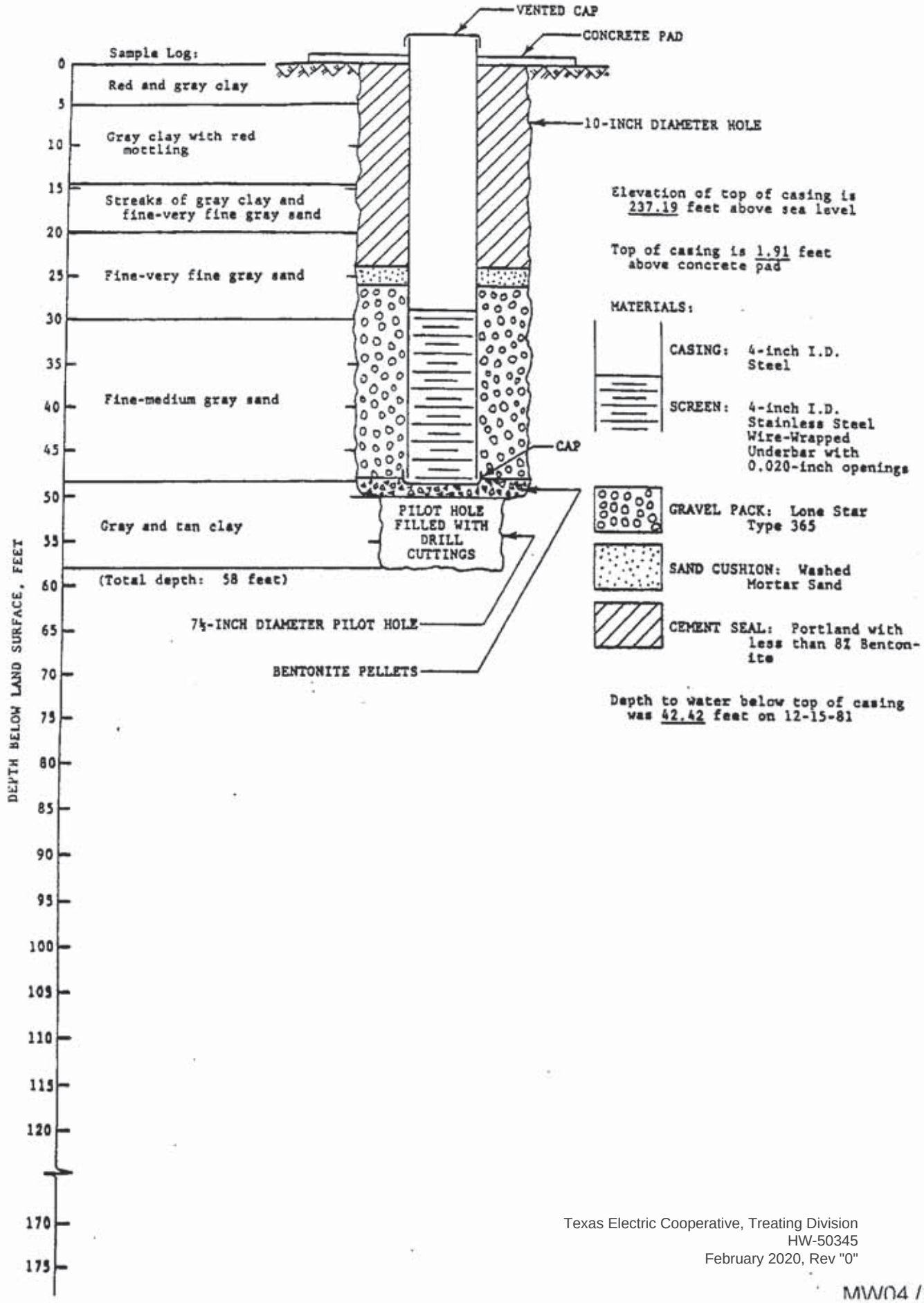
MW02/8112

MONITOR WELL W-3



Texas Electric Cooperative, Treating Division
HW-50345
February 2020, Rev "0"

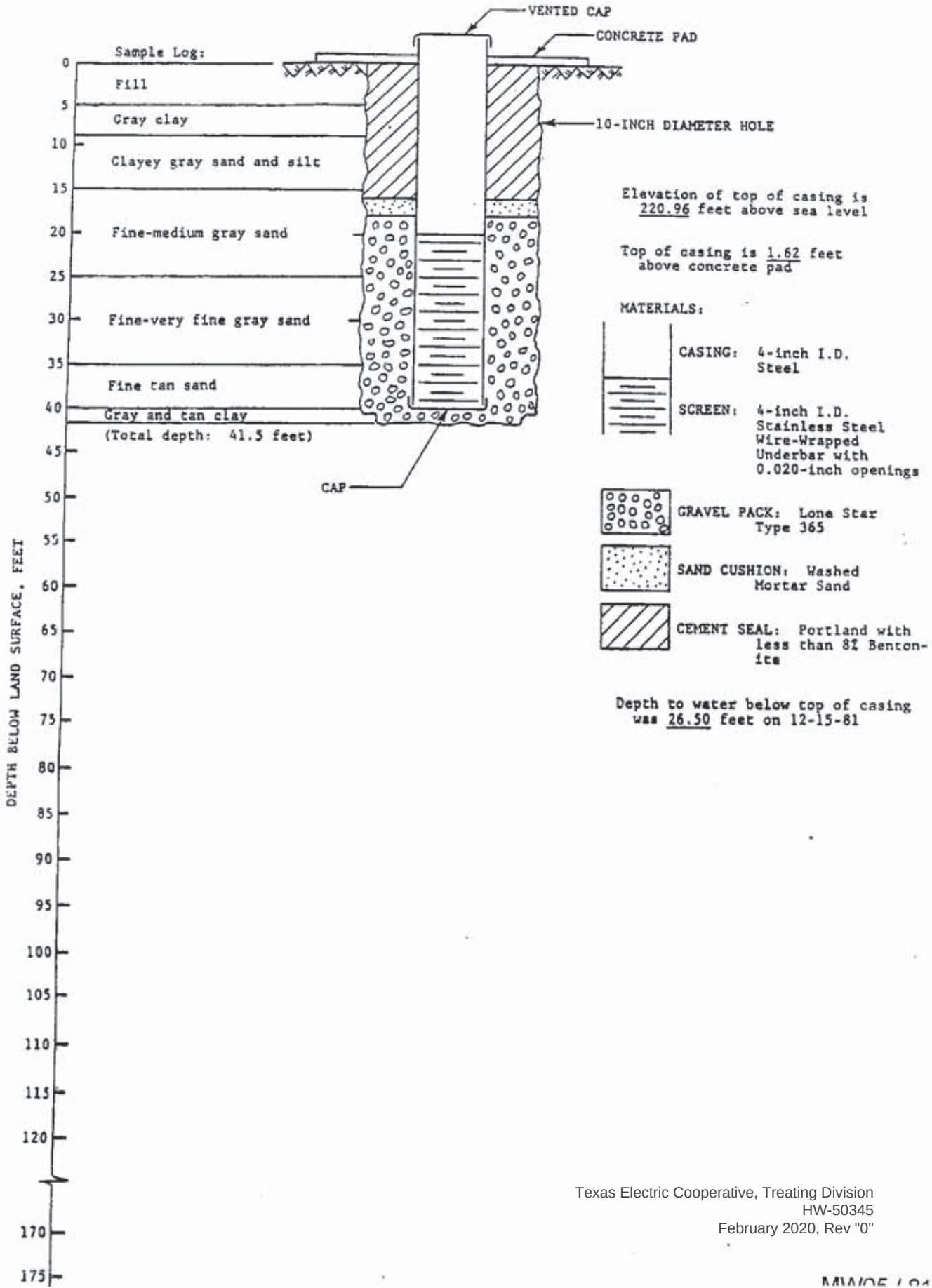
MONITOR WELL W-4



Texas Electric Cooperative, Treating Division
HW-50345
February 2020, Rev "0"

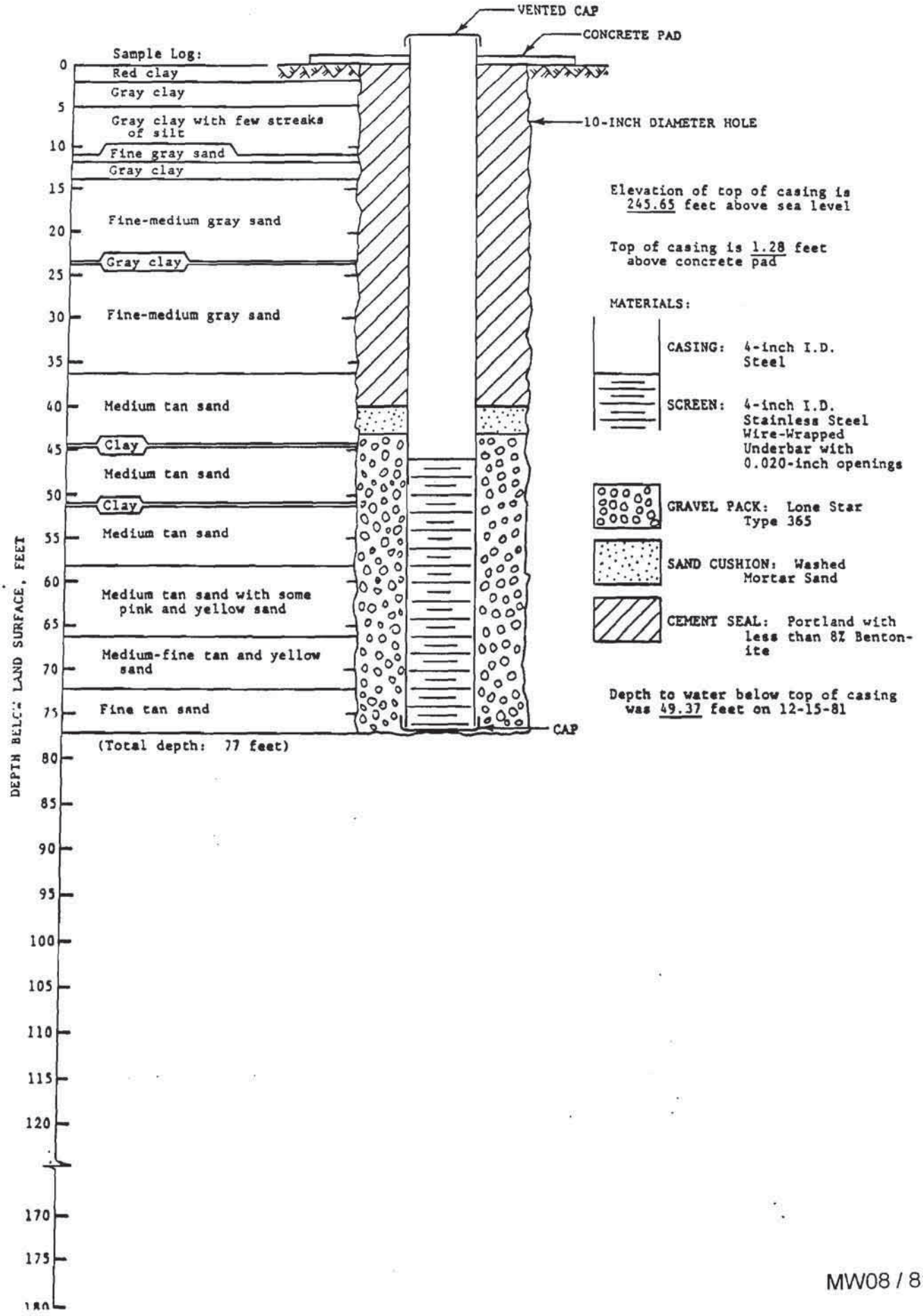
MW04 / 8112

MONITOR WELL W-5



Texas Electric Cooperative, Treating Division
HW-50345
February 2020, Rev "0"

MONITOR WELL W-8



Elevation of top of casing is 245.65 feet above sea level

Top of casing is 1.28 feet above concrete pad

MATERIALS:

CASING: 4-inch I.D. Steel

SCREEN: 4-inch I.D. Stainless Steel Wire-Wrapped Underbar with 0.020-inch openings

GRAVEL PACK: Lone Star Type 365

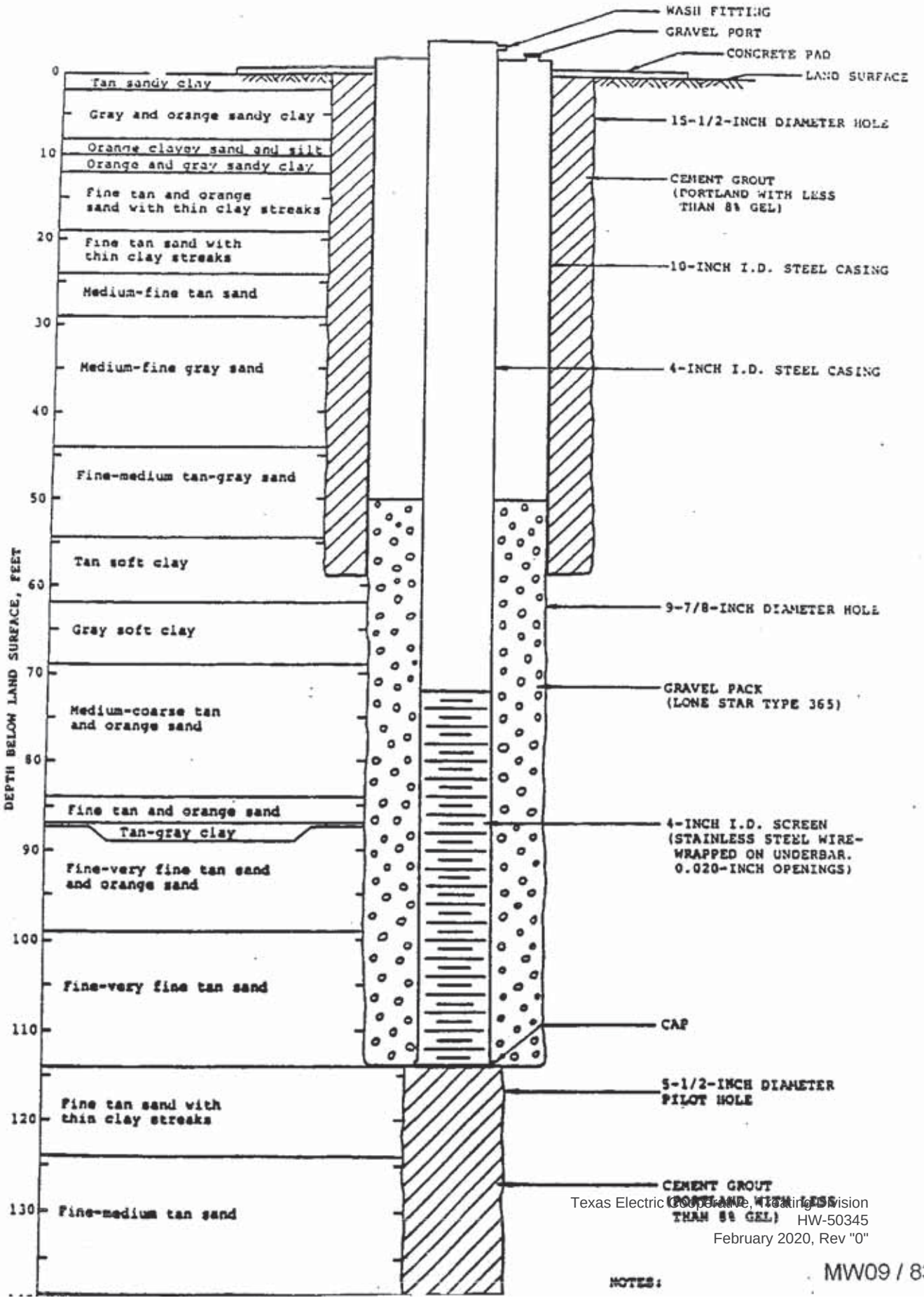
SAND CUSHION: Washed Mortar Sand

CEMENT SEAL: Portland with less than 8% Bentonite

Depth to water below top of casing was 49.37 feet on 12-15-81

MW08 / 8112

MONITOR WELL W-9



NOTES:

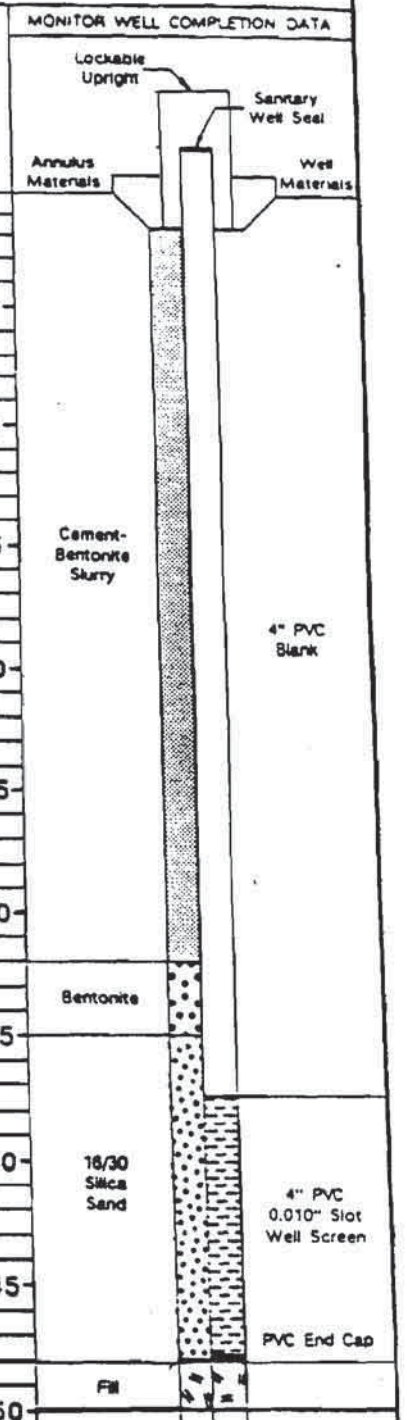
Texas Electric Cooperative, Watkins Division
HW-50345
February 2020, Rev "0"

MW09 / 8302

LOG OF BORING / MONITOR WELL NO. MW-13

DEPTH (FT.)	STRATIGRAPHY	SAMPLES	DESCRIPTION OF STRATUM	DIRECT READING INSTRUMENT	SUBMITTED FOR ANALYSIS
0			CLAY, gray, highly plastic, firm; 30% iron-oxide mottled		
10			Silty sandy CLAY, gray, slightly plastic, firm; 60% iron-oxide mottled		
15			SAND, light pinkish gray, medium grained, well sorted, compact, sparse iron oxide staining		
20			- becomes light gray, sparse iron oxide staining		
25			- sparse clay		
30					
35			- becomes medium to coarse grained		
40			- becomes coarse grained, well sorted		
45					
50			CLAY, gray, highly plastic, stiff, slickensided; tan coloration from 48.0 to 48.2' BGL		
55					

Note: Fill in annulus materials column consists of drill cuttings.



Client: T.E.C. Project No.: 50-1078-91 Date Drilled: 11/21/91 Driller: James Couch

Groundwater Elevation: Date: 12/4/91 Time: _____ Elevation: 196.01' MSL Date: _____ Time: _____ Elevation: _____

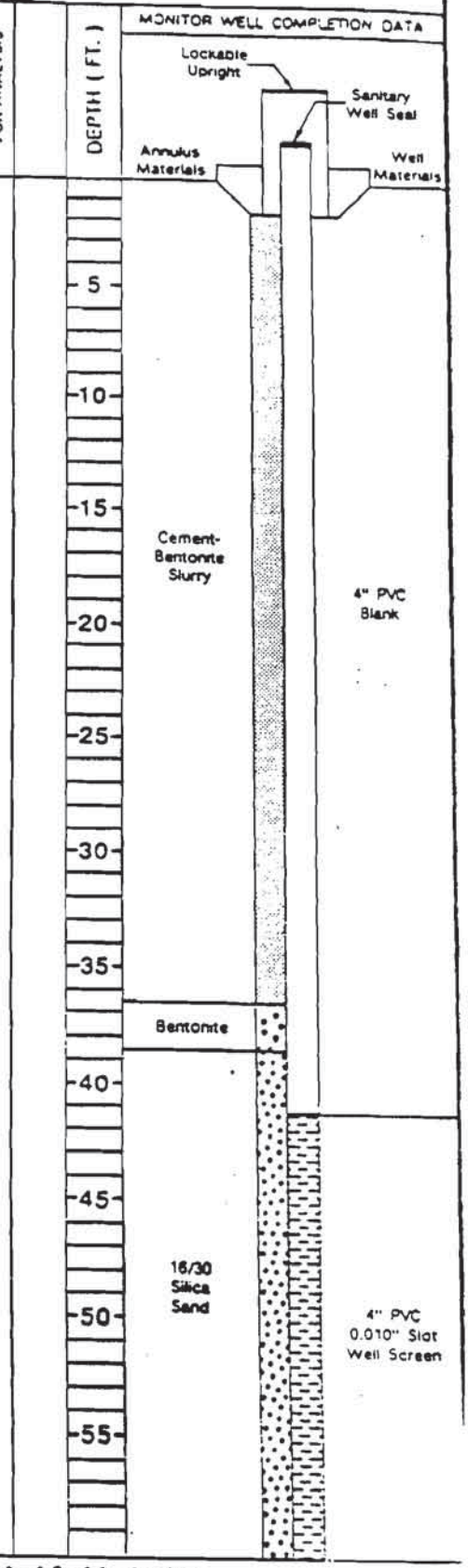
Ground Elevation: 236.72' MSL Top of Casing Elevation: 238.91' MSL Drilling Method: Mud Rotary

Total Depth: 50' BGL Comments: _____

MW13 / 9111

LOG OF BORING / MONITOR WELL NO. MW-15A

DEPTH (FT.)	STRATIGRAPHY	SAMPLES	DESCRIPTION OF STRATUM	DIRECT READING INSTRUMENT	SUBMITTED FOR ANALYSIS
0			Clay, gray, highly plastic, firm, sparse iron oxide staining		
10			- sandy CLAY and SAND seams, gray, sparse iron oxide staining		
15			SAND, gray, fine-grained, well sorted, compact, sparse iron oxide staining; minor clay content		
20			- clay seam		
30			- clay seam 0.2' thick		
35			- grain size gradationally increases to medium sand		
40			- becomes medium to coarse-grained sand		
45			- yellowish iron oxide staining from 44.6 to 45.0' BGL		
50			- becomes coarse grained, yellowish orange iron oxide staining. Clay seams up to 0.1' thick.		
55					



Client: T.E.C. Project No.: 50-1078-91 Date Drilled: 11-13;11-14/91 Driller: James Couch

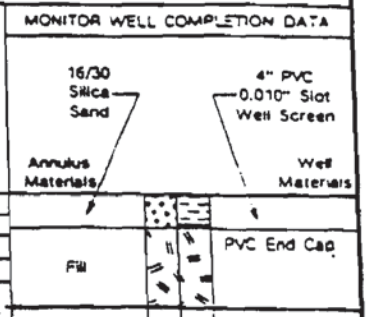
Groundwater Elevation: Date: 12/5/91 Time: _____ Elevation: 197.67'MSL Date: _____ Time: _____ Elevation: _____

Ground Elevation: 241.88'MSL Top of Casing Elevation: 243.59'MSL Drilling Method: Mud Rotary

LOG OF BORING / MONITOR WELL NO. MW-15A

DEPTH (FT.)	STRATIGRAPHY	SAMPLES	DESCRIPTION OF STRATUM	DIRECT READING INSTRUMENT	SUBMITTED FOR ANALYSIS
65			SAND, gray with yellowish orange iron oxide staining, coarse grained, well sorted, compact, (continued)		

MONITOR WELL COMPLETION DATA



Note: Fill in annulus materials column consists of drill cuttings.

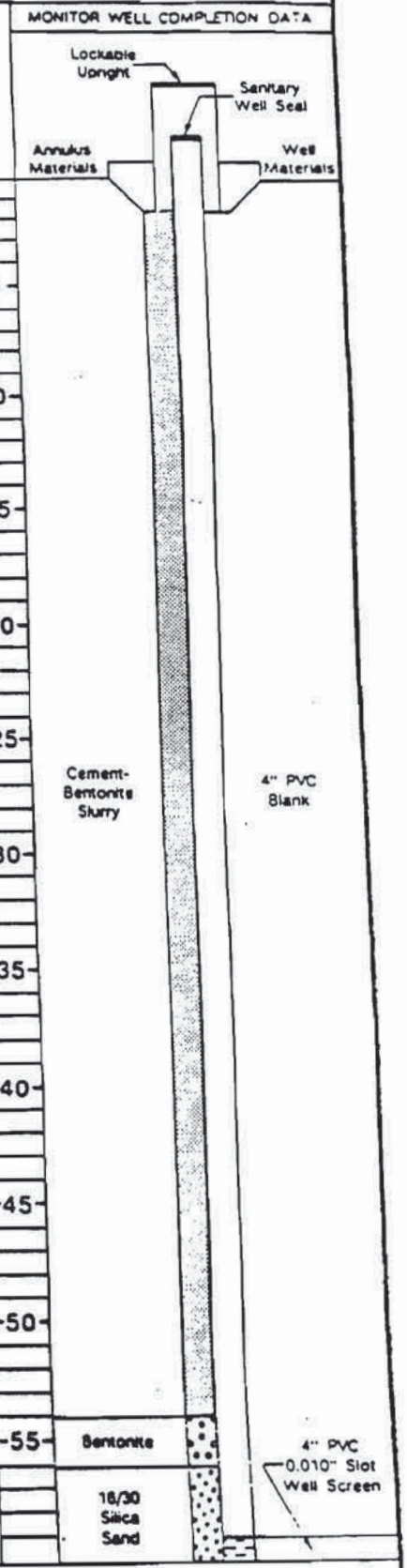
Client: T.E.C. Project No.: 50-1078-91 Date Drilled: 11-13;11-14/91 Driller: James Couch

Groundwater Elevation: Date: 12/5/91 Time: _____ Elevation: 197.67'MSL Date: _____ Time: _____ Elevation: _____

Ground Elevation: 241.88' MSL Top of Casing Elevation: 243.59' MSL Drilling Method: Mud Rotary

LOG OF BORING / MONITOR WELL NO. MW-15B

DEPTH (FT.)	STRATIGRAPHY	SAMPLES	DESCRIPTION OF STRATUM	DIRECT READING INSTRUMENT	SUBMITTED FOR ANALYSIS
0			CLAY, gray, highly plastic, firm (additional description provided in log MW-15A)		
15			SAND, gray, fine-grained, well sorted, compact; coarsening downwards (additional description provided in log MW-15A)		
45			SAND, gray coarse grained, well sorted, compact, sparse iron oxide staining		



Client: T.E.C. Project No.: 50-1078-91 Date Drilled: 11-14:11-15/91 Driller: James Couch

Groundwater Elevation: Date: 12/5/91 Time: _____ Elevation: 197.67'MSL Date: _____ Time: _____ Elevation: _____

Ground Elevation: 241.80'MSL Top of Casing Elevation: 243.61' MSL Drilling Method: Mud Rotary

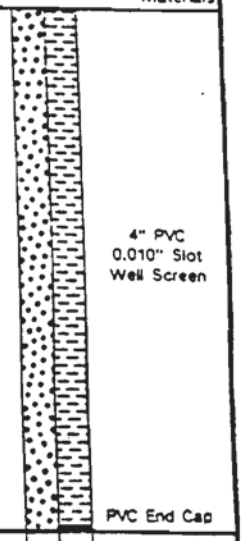
Total Depth: 82' BGL Comments: _____

MW15B / 9111

LOG OF BORING / MONITOR WELL NO. MW-15B

DEPTH (FT.)	STRATIGRAPHY	SAMPLES	DESCRIPTION OF STRATUM	DIRECT READING INSTRUMENT	SUBMITTED FOR ANALYSIS
65			SAND, gray coarse grained, well sorted, compact, sparse iron oxide staining		
70					
75			- becomes interlaminated gravelly clayey SAND and gravelly sandy CLAY		
80			Gravelly, sandy CLAY, tan, highly plastic, stiff, sparse iron oxide staining CLAY, gray and moderate red, highly plastic, stiff		
85					
90					
95					
100					
105					
110					
115					

MONITOR WELL COMPLETION DATA



Client: T.E.C. Project No.: 50-1078-91 Date Drilled: 11-14;11-15/91 Driller: James Couch

Groundwater Elevation: Date: 12/5/91 Time: _____ Elevation: 197.67'MSL Date: _____ Time: _____ Elevation: _____

Ground Elevation: 241.80'MSL Top of Casing Elevation: 243.61'MSL Drilling Method: Mud Rotary

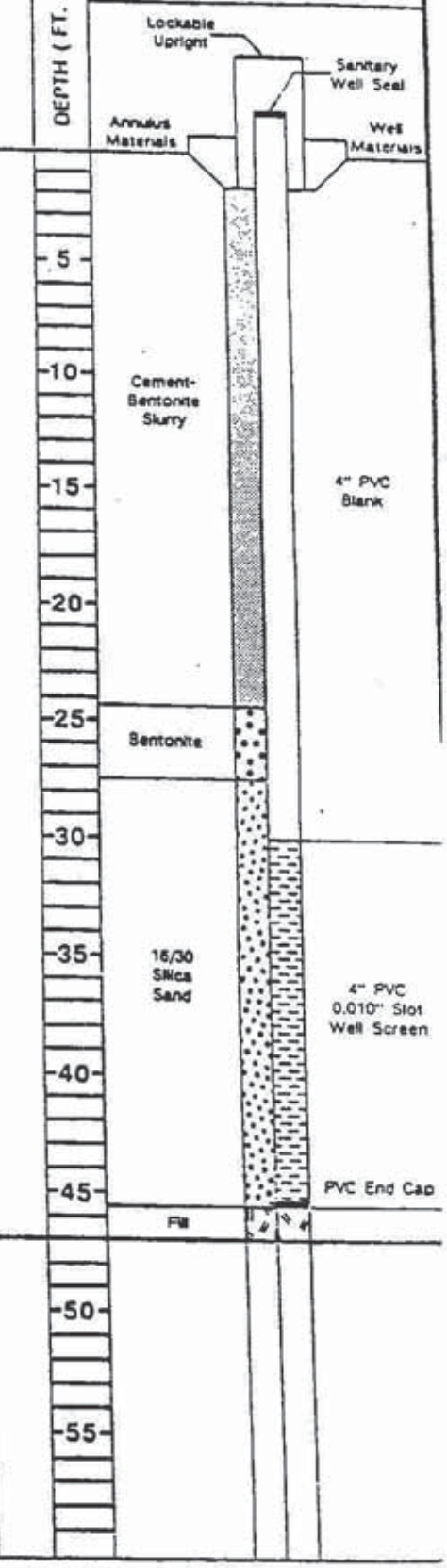
Total Depth: 82' BGL Comments: _____

MW15B/9111

LOG OF BORING / MONITOR WELL NO. MW-18A

DEPTH (FT.)	STRATIGRAPHY	SAMPLES	DESCRIPTION OF STRATUM	DIRECT READING INSTRUMENT	SUBMITTED FOR ANALYSIS
0			Clay, gray, highly plastic, firm, 30%-60% iron oxide stained; sandy CLAY and silty CLAY seams (additional description provided in log MW-18B)		
15			Clayey SAND gray, fine to medium grained, well sorted, compact, iron oxide staining (additional description provided in log MW-18B)		
25			· becomes SAND, tan, medium grained, well sorted		
30			· laminae of clayey sand and silty clay to 36' BGL		
45			· becomes medium to coarse grained SAND		
55			Note: Fill in annulus materials column consists of drill cuttings.		

MONITOR WELL COMPLETION DATA



Client: T.E.C. Project No.: 50-1078-91 Date Drilled: 11/23/91 Driller: Jones Couch

Groundwater Elevation: Date: 12/4/91 Time: _____ Elevation: 194.07'MSL Date: _____ Time: _____ Elevation: _____

Ground Elevation: 228.40'MSL Top of Casing Elevation: 230.47'MSL Drilling Method: Mud Rotary

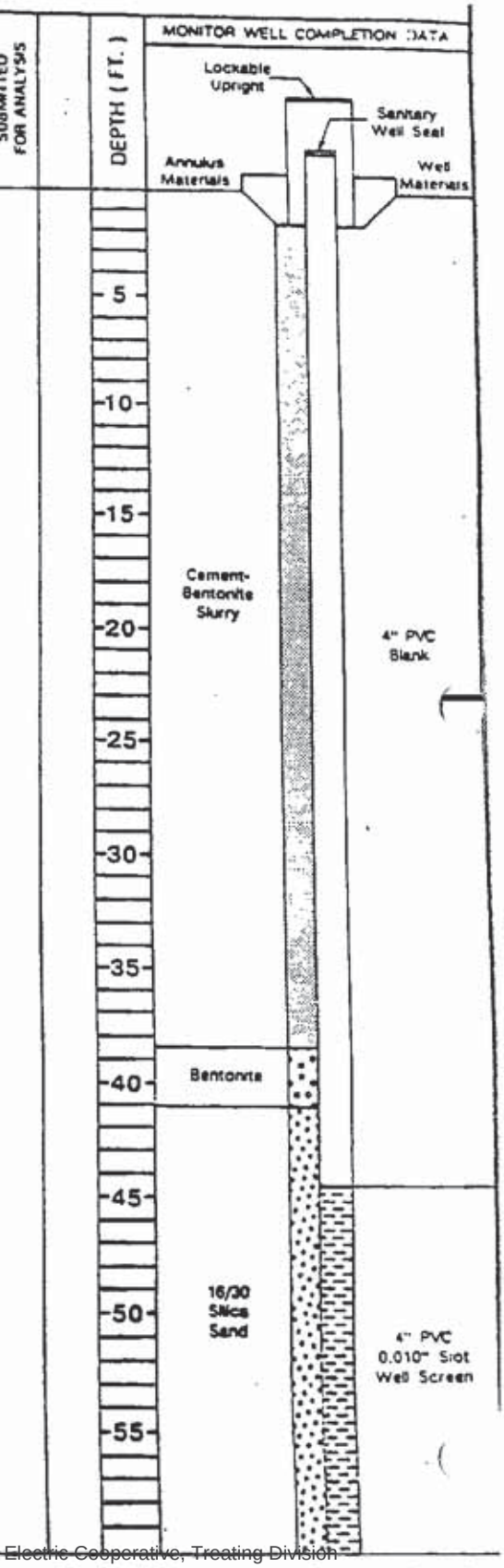
Total Depth: 47' BGL

Texas Electric Cooperative, Treating Division
HW-50345
February 2020, Rev 0

LOG OF BORING / MONITOR WELL NO. MW-18B

DEPTH (FT.)	STRATIGRAPHY	SAMPLES	DESCRIPTION OF STRATUM	DIRECT READING INSTRUMENT	SUBMITTED FOR ANALYSIS
0			CLAY, gray, highly plastic, firm, 30%-60% iron oxide stained, sandy CLAY and silty CLAY seams		
15			Clayey SAND, gray, fine to medium grained, compact, 20% to 30% iron oxide stained		
25			- becomes SAND, tan-orange, medium grained, compact		
30			- interlaminated clayey SAND and silty CLAY		
			- interlaminated coarse SAND and sandy CLAY		
35			- clayey SAND, pinkish gray, medium grained, compact		
40			- SAND, gray, medium to coarse grained, compact		
50			- becomes coarse grained		

MONITOR WELL COMPLETION DATA



Client: T.E.C. Project No.: 50-1078-91 Date Drilled: 11/22/91 Driller: James Couch

Groundwater Elevation: Date: 12/4/91 Time: Elevation: 194.15'MSL Date: Time: Elevation:

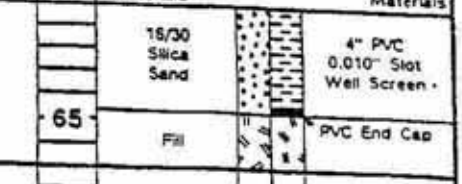
Ground Elevation: 228.21' MSL Top of Casing Elevation: 230.28' MSL Drilling Method: Mud Rotary

Texas Electric Cooperative, Treating Division
HW-50345
February 2020, Rev "0"

LOG OF BORING / MONITOR WELL NO. MW-18B

DEPTH (FT.)	STRATIGRAPHY	SAMPLES	DESCRIPTION OF STRATUM	DIRECT READING INSTRUMENT	SUBMITTED FOR ANALYSIS
65			SAND, gray, very coarse, compact (continued)		
			Sandy CLAY, yellowish tan, highly plastic, firm; very coarse sand grains		

MONITOR WELL COMPLETION DATA



Note: Fill in annulus materials column consists of drill cuttings.

Client: T.E.C.

Project No.: 50-1078-91

Date Drilled: 11/22/91

Driller: James Couch

Groundwater Elevation: Date: 12/4/91 Time: Elevation: 194.15'MSL Date: Time: Elevation:

Ground Elevation: 228.21' MSL

Top of Casing Elevation: 230.28' MSL

Drilling Method: Mud Rotary

Total Depth: 67' BGL

Comments:

Texas Electric Cooperative, Treating Division
HW-50345
February 2020, Rev "0"

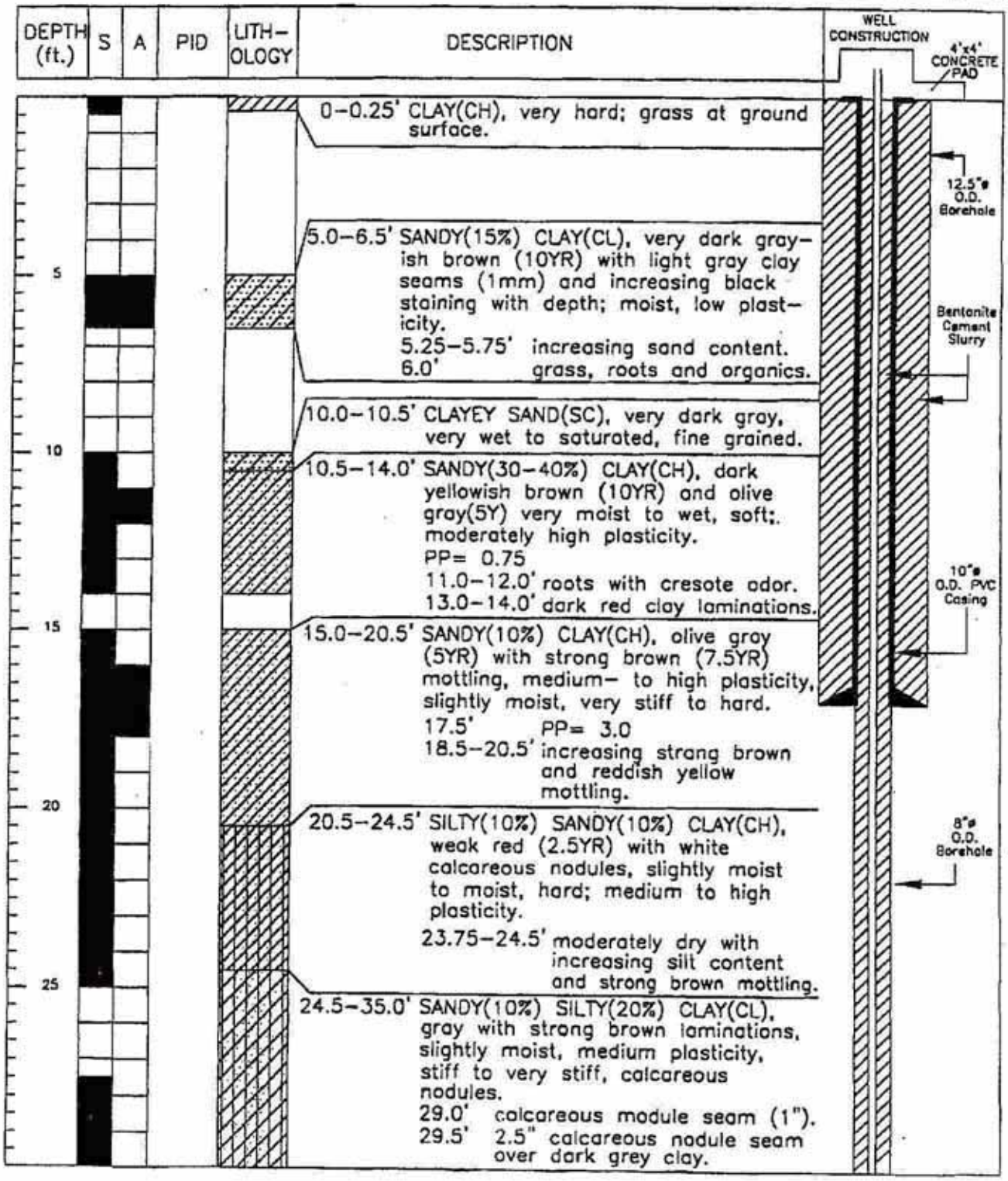
GERAGHTY & MILLER, INC.
Environment & Infrastructure

TEXAS ELECTRIC COOPERATIVE — MW-19

JASPER, TEXAS (8-9)

Project No.:	HT0272.001	Completion:	Double Cased Stick-up
Date Drilled:	May 13 & 15, 1997	Screen Length:	20 Feet
Geologist:	Jurgen Koch	Slot Size:	0.010 Inches
Driller:	Best Environmental	Casing:	2"ø Sch. 40 PVC
Method:	Hollow Stem Auger	Top of Casing Elevation:	228.86

DEPTH (ft.)	S	A	PID	LITH-OLOGY	DESCRIPTION
					0-0.25' CLAY(CH), very hard; grass at ground surface.
					5.0-6.5' SANDY(15%) CLAY(CL), very dark grayish brown (10YR) with light gray clay seams (1mm) and increasing black staining with depth; moist, low plasticity.
					5.25-5.75' increasing sand content.
					6.0' grass, roots and organics.
					10.0-10.5' CLAYEY SAND(SC), very dark gray, very wet to saturated, fine grained.
					10.5-14.0' SANDY(30-40%) CLAY(CH), dark yellowish brown (10YR) and olive gray(5Y) very moist to wet, soft; moderately high plasticity.
					PP= 0.75
					11.0-12.0' roots with cresote odor.
					13.0-14.0' dark red clay laminations.
					15.0-20.5' SANDY(10%) CLAY(CH), olive gray (5YR) with strong brown (7.5YR) mottling, medium- to high plasticity, slightly moist, very stiff to hard.
					17.5' PP= 3.0
					18.5-20.5' increasing strong brown and reddish yellow mottling.
					20.5-24.5' SILTY(10%) SANDY(10%) CLAY(CH), weak red (2.5YR) with white calcareous nodules, slightly moist to moist, hard; medium to high plasticity.
					23.75-24.5' moderately dry with increasing silt content and strong brown mottling.
					24.5-35.0' SANDY(10%) SILTY(20%) CLAY(CL), gray with strong brown laminations, slightly moist, medium plasticity, stiff to very stiff, calcareous nodules.
					29.0' calcareous module seam (1").
					29.5' 2.5" calcareous nodule seam over dark grey clay.



GERAGHTY & MILLER, INC.
Environment & Infrastructure

TEXAS ELECTRIC COOPERATIVE MW-19

JASPER, TEXAS (B-9)

Project No.:	HT0272.001	Completion:	Double Cased Stick-up
Date Drilled:	May 13 & 15, 1997	Screen Length:	20 Feet
Geologist:	Jurgen Koch	Slot Size:	0.010 Inches
Driller:	Best Environmental	Casing:	2"ø Sch. 40 PVC
Method:	Hollow Stem Auger	Top of Casing Elevation:	228.86

DEPTH (ft.)	S	A	PID	LITH-OLOGY	DESCRIPTION	WELL CONSTRUCTION
					30.0–35.0' increased sand, silt & moisture content with depth, nonplastic, sand seams throughout.	2"ø Sch. 40 PVC Casing
35						
					36.5–37.75' SAND(SW), clean, tan, fine grained, wet to saturated.	
					37.75–40.25' CLAYEY(5%) SILTY(15%) SAND(SM), light yellowish brown(2.5Y), fine grained, very moist to wet. 38.0' moderately dry 2" fractured clay seam, hard.	
40					40.25–41.0' SANDY(10%) CLAY(CL), light olive brown (2.5Y), slightly moist, low plasticity, very stiff. 40.75' very coarse grained calcareous and quartz grains within olive gray (5Y) clay seam, small amounts of soft black coal.	8"ø O.D. Borehole
45					41.0–61.0' SANDY(5%) SILTY(10%) CLAY(CH), slightly moist to moist, medium- to high plasticity, very stiff to hard.	
50					41.0–42.5' blue gray. 42.5–55.0' weak red with gray and tan laminations/mottling.	Bentonite Cement Slurry
55					55.0–61.0' light yellowish brown with weak red and tan mottling/laminotions.	

GERAGHTY & MILLER, INC.
Environment & Infrastructure

TEXAS ELECTRIC COOPERATIVE MW-19

JASPER, TEXAS (B-9)

Project No.:	HTO272.001	Completion:	Double Cased Stick-up
Date Drilled:	May 13 & 15, 1997	Screen Length:	20 Feet
Geologist:	Jurgen Koch	Slot Size:	0.010 Inches
Driller:	Best Environmental	Casing:	2"ø Sch. 40 PVC
Method:	Hollow Stem Auger	Top of Casing Elevation:	228.86

DEPTH (ft.)	S	A	PID	LITH-OLOGY	DESCRIPTION	WELL CONSTRUCTION
					61.0-64.5' SANDY(5%) SILTY(10%) CLAY (CL), slightly moist to moist with depth, low plasticity, moderately stiff; dark gray.	Bentonite Cement Slurry; Bentonite
65					64.5-83.0' SAND(SW), dark yellowish brown (10YR) medium- to coarse-grained, saturated, flowing.	8"ø OD Borehole
70						
75						Screen (0.010 Slot); 2"ø Sch. 40 PVC Casing
80					83.0-85.0' soft clay.	Gravel Pack (20/40 Sand)
85					Total Depth = 85.0 Feet BGS	

WESTON SOLUTIONS
2705 Bee Cave Road
Suite 100
Austin, Texas 78746
512-651-7100 / Fax: 512-651-7101

Boring/Well Log

BORING ID:
WELL ID: **MW-20A**

PROJECT INFORMATION

PROJECT:	**Texas Electric Cooperation**
SITE LOCATION:	**Jasper, TX**
JOB NUMBER:	**10472.003.002**
PROJECT MANAGER:	**Anne Turner**
LOGGED BY:	**James Comin**
DATE(S) DRILLED:	**7/28/2003 to 7/31/2003**

DRILLING INFORMATION

DRILLING COMPANY:	**PSG**
DRILLING METHOD:	**Hollow Stem Auger**
BORING DIAMETER:	**10 in**
TOTAL DEPTH:	**67 ft**
WELL DIAMETER:	**4 in**
TOP OF CASING ELEV:	**218.67**
GROUND ELEVATION:	**216.25**

Northing	Easting
9341.83	8383.03

REMARKS: Center pipe stuck, rig damaged, stopped drilling. Clay in lead auger and on tip of auger, possible clay at TD 67'

WATER LEVEL IN WELL: **23.88 ft.**
PRODUCT LEVEL IN WELL:

DEPTH	LITHOLOGY	USCS	DESCRIPTION	SAMPLE ID	REC. %	OVM	WELL COMPLETION	INSTALLATION NOTES
0		CL	Grey sandy CLAY, moist to wet, soft, red/brown mottle, organic material present. Four inch seam of increased organic material (wood mulch) at 3 ft bgs.		90	9.7		4" carbon steel riser 0-20 ft bgs and 2.5' stick up
5			Light brown sandy SILT, fine grained, dense, dry. Increasing sand content with depth		50	0		Portland Cement (0-10')
10		CL	Light grey silty sandy CLAY, moist, soft, red brown mottle.		50	0		
15		SC	Tan SAND, medium grained, soft, moist, red brown mottle, slight silt content.		50	0		Bentonite plug (10-16')
20			... decrease in red brown mottle.		40	0		
			... increase in moisture: damp to wet		50	0		4 inch stainless steel screen (20-40')
			... saturated at 22'					

WESTON SOLUTIONS	PROJECT: Texas Electric Cooperation SITE LOCATION: Jasper, TX PROJECT MANAGER: Anne Turner DATE(S) DRILLED: 7/28/2003 to 7/31/2003	Boring/Well Log	Page 2 of 3
		BORING ID: WELL ID: MW-20A	

DEPTH	LITHOLOGY	USCS	DESCRIPTION	SAMPLE ID	REC. %	OVM	WELL COMPLETION	INSTALLATION NOTES
25					50	0		
						0		20/40 silica sand filter pack (18-40')
30					60	0		
						0		
35					60	0		
						0		
40					40	0		
					0	0		Flowing saturated sand (40-64')
			... slight to moderate odor		0	0		
45					10	0		
					20	0		7/28 stop drilling. 7/29 resume drilling
50					40	0		
			... moderate odor		40	0		
			... some red brown clay content at 53'		60	0		
55					10	0		

WESTON SOLUTIONS

PROJECT: **Texas Electric Cooperation**
SITE LOCATION: **Jasper, TX**
PROJECT MANAGER: **Anne Turner**
DATE(S) DRILLED: **7/28/2003 to 7/31/2003**

Boring/Well Log | Page 3 of 3

BORING ID:
WELL ID: **MW-20A**

DEPTH	LITHOLOGY	USCS	DESCRIPTION	SAMPLE ID	REC. %	OVM	WELL COMPLETION	INSTALLATION NOTES
60					10	0		
			Grey sandy CLAY, moist, with red brown mottle, med stiff, high plasticity.					
			SAND, medium grained, saturated, with red brown mottle.					
			Grey sandy CLAY, moist, with red brown mottle, med stiff, high plasticity.			0		
65								Bentonite plug (64-67')
			SAND, medium grained, saturated, with red brown mottle. Decrease in odor.			0		

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Austin, Texas 78746
512-651-7100 / Fax: 512-651-7101

Boring/Well Log

BORING ID:
WELL ID: **MW-20B**

PROJECT INFORMATION

PROJECT:	**Texas Electric Cooperation**
SITE LOCATION:	**Jasper, TX**
JOB NUMBER:	**10472.003.002**
PROJECT MANAGER:	**Anne Turner**
LOGGED BY:	**James Comin**
DATE(S) DRILLED:	**9/15/03 - 9/16/03**

DRILLING INFORMATION

DRILLING COMPANY:	**Best Drilling**
DRILLING METHOD:	**Mud Rotary**
BORING DIAMETER:	**8 in**
TOTAL DEPTH:	**57 ft**
WELL DIAMETER:	**4 in**
TOP OF CASING ELEV:	**218.71**
GROUND ELEVATION:	**216.22**

Northing	Easting
9355.76	8385.11

REMARKS: Logged well from cuttings

WATER LEVEL IN WELL: **24.16 btoc**
PRODUCT LEVEL IN WELL:

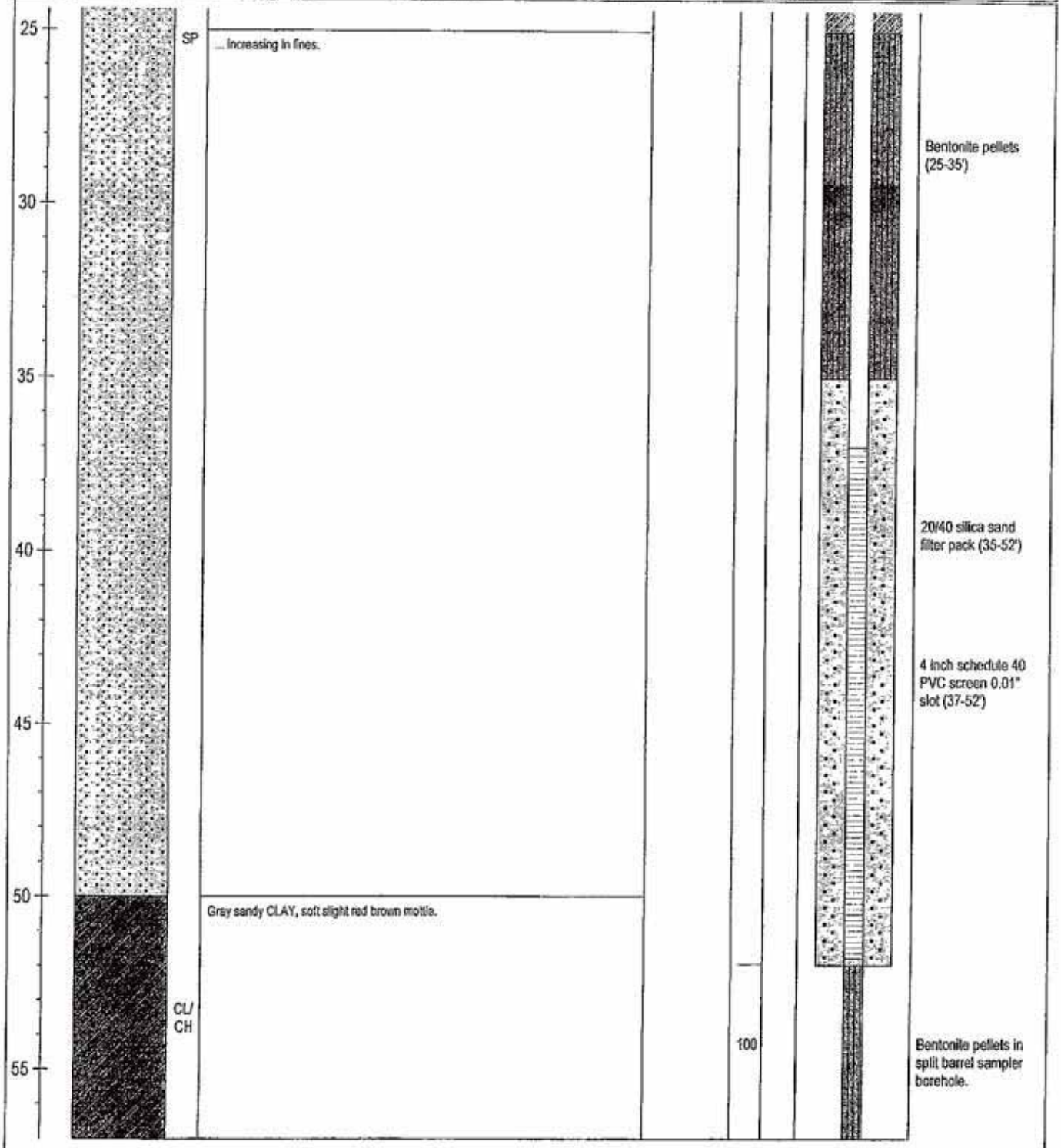
DEPTH	LITHOLOGY	USCS	DESCRIPTION	SAMPLE ID	REC. %	OVM	WELL COMPLETION	INSTALLATION NOTES
0		CL	Gray sandy CLAY, soft, with some silt content.					
5								4" schedule 40 PVC riser.
10			Tan SAND, with some orange sand, medium to fine grained.					Grout/Bentonite slury (0-25)
15								
20								

WESTON SOLUTIONS

PROJECT: **Texas Electric Cooperation**
SITE LOCATION: **Jasper, TX**
PROJECT MANAGER: **Anne Turner**
DATE(S) DRILLED: **9/15/03 - 9/16/03**

Boring/Well Log | Page 2 of 2

BORING ID:
WELL ID: **MW-20B**



WESTON SOLUTIONS
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Suite 100
Austin, Texas 78746
512-651-7100 / Fax: 512-651-7101

Boring/Well Log

BORING ID:
WELL ID: **MW-20C**

PROJECT INFORMATION

PROJECT:	**Texas Electric Cooperation**
SITE LOCATION:	**Jasper, TX**
JOB NUMBER:	**10472.003.002**
PROJECT MANAGER:	**Anne Turner**
LOGGED BY:	**James Comin**
DATE(S) DRILLED:	**9/15/03 - 9/16/03**

DRILLING INFORMATION

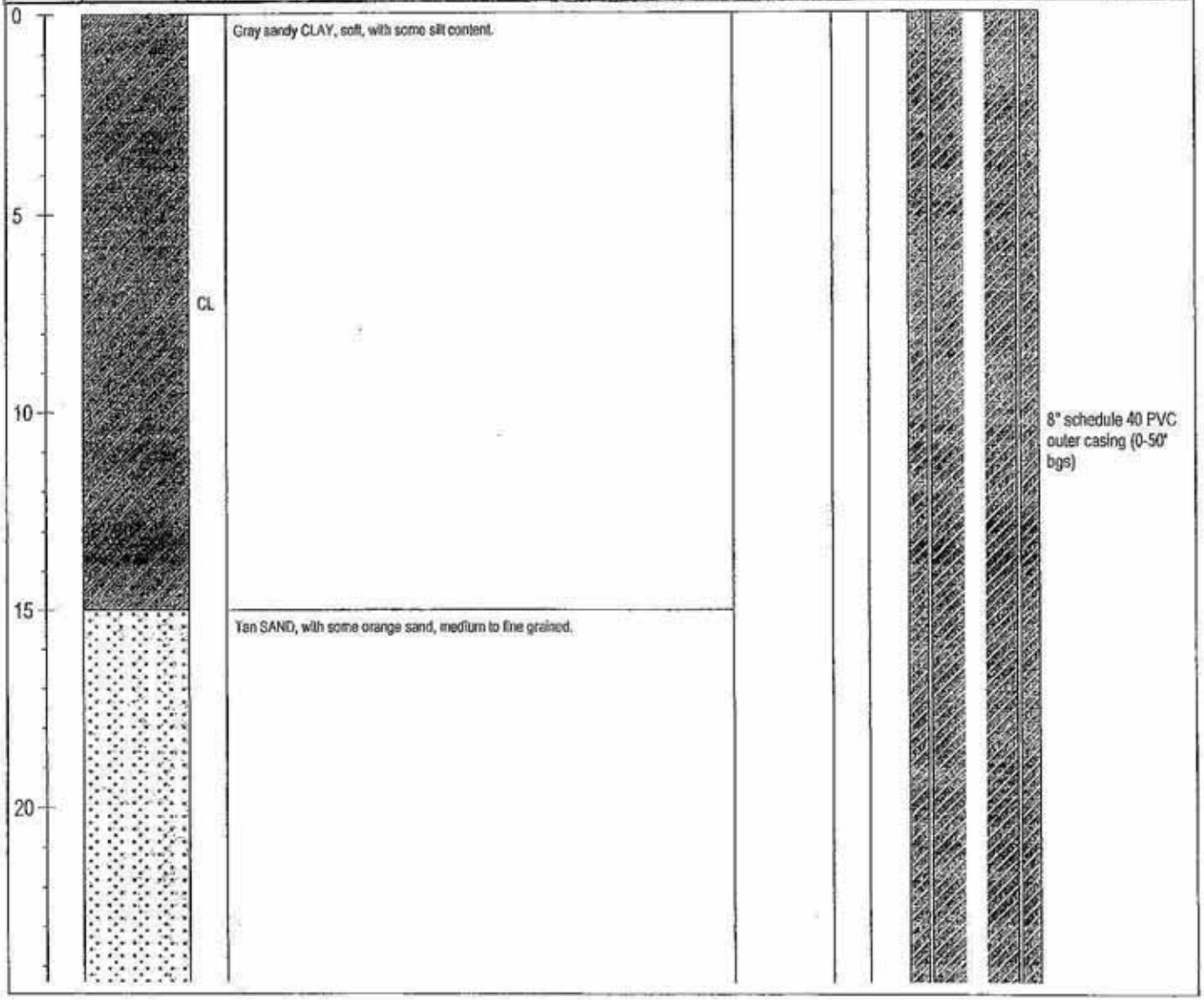
DRILLING COMPANY:	**Best Drilling**
DRILLING METHOD:	**Mud Rotary**
BORING DIAMETER:	**12 in**
TOTAL DEPTH:	**115 ft**
WELL DIAMETER:	**4 in**
TOP OF CASING ELEV:	**220.72**
GROUND ELEVATION:	**217.76**

Northing	Easting
9337.60	8433.59

REMARKS: Logged well from cuttings

WATER LEVEL IN WELL: **25.93 btoc**
PRODUCT LEVEL IN WELL:

DEPTH	LITHOLOGY	USCS	DESCRIPTION	SAMPLE ID	REC. %	OVM	WELL COMPLETION	INSTALLATION NOTES
0		CL	Gray sandy CLAY, soft, with some silt content.					
15			Tan SAND, with some orange sand, medium to fine grained.					



PROJECT: **Texas Electric Cooperation**
SITE LOCATION: **Jasper, TX**
PROJECT MANAGER: **Anne Turner**
DATE(S) DRILLED: **9/15/03 - 9/16/03**

Boring/Well Log

BORING ID:
WELL ID: **MW-20C**

DEPTH	LITHOLOGY	USCS	DESCRIPTION	SAMPLE ID	REC. %	OVM	WELL COMPLETION	INSTALLATION NOTES
25		SP						
30								
35								
40								
45			Tan gray sandy CLAY, with red brown mottles.					
50		CL/ CH			100			
55								

PROJECT: **Texas Electric Cooperation**
SITE LOCATION: **Jasper, TX**
PROJECT MANAGER: **Anne Turner**
DATE(S) DRILLED: **9/15/03 - 9/16/03**

Boring/Well Log

BORING ID:
WELL ID: **MW-20C**

DEPTH	LITHOLOGY	USCS	DESCRIPTION	SAMPLE ID	REC. %	OVM	WELL COMPLETION	INSTALLATION NOTES
60								
65								
		SW	Tan and orange SAND, medium to coarse grained, some gravel.					Bentonite pellets (64-87')
70		CL	Gray sandy CLAY, soft, some gravel.					
			Tan SAND, medium to coarse grained, some gravel present.					
75								
		SW						
80								
85								
		CL	Gray sandy CLAY, soft, some gravel present.					
			Tan and orange SAND, very fine grained.					
90								20/40 silica sand

WESTON SOLUTIONS

PROJECT: **Texas Electric Cooperation**
SITE LOCATION: **Jasper, TX**
PROJECT MANAGER: **Anne Turner**
DATE(S) DRILLED: **9/15/03 - 9/16/03**

Boring/Well Log | Page 4 of 4

BORING ID:
WELL ID: **MW-20C**

DEPTH	LITHOLOGY	USCS	DESCRIPTION	SAMPLE ID	REC. %	OVM	WELL COMPLETION	INSTALLATION NOTES
95		SP						filter pack (35-52')
100			... fine to medium grained with some gravel.					4" schedule 40 PVC screen 0.01" slot (90-110')
105								
110		CL/ SC	Gray sandy CLAY, found in lenses at 109 and 112 ft.					Push sample from 110-115 (50% recovery)
115			Set well at 110 ft since MW-9 correlates to same lithology.					

BORING LOG

Project Name: TEC Jasper Texas — Project Number: 10472.003.003.0220

Soil Boring ○ Monitoring Well ● — Boring /Well Number MW-21 — Sheet 1 of 2

Boring Location: Jasper, Texas

Drilling Contractor: Best — Driller: Sonny

Drilling Equipment: Mobile Drill Rig — Borehole Diameter: 10.25"

Sampling Method: Grab

Drilling Method: HSA — Drilling Fluid: N/A

Backfill Material: Monitoring Well Construction

Logged By: S. Finn — Checked By: D. Dippel

Elevation and Datum:

Date Started: 3-28-05 — Date Finished: 3-28-05

Completed Depth: 47ft — Water Depth:

Well Construction

Type and Diameter of Well Casing: 4" PVC with 20 foot Stainless Steel Screen

Slot Size: .010 — Filter Material: Silica Sand

Development Method: Whale Pump

Depth (ft.)	USC Soil Type	Description	Recovery %	Blow Counts	Sample Number	Lithology	OVA Readings (ppm)	Remarks	Elevation (ft)
2		Sandy Clay, red to light gray, laminated, moist to dry, medium to low plasticity, medium stiff	100%				0.0		
4							0.0		
6		Same as above	90%						
8							0.0		
10		Silty Sand, light gray, loose, moist Clay, light gray, medium to high plasticity, minor tan brown sand seams, moist to dry							
12		Silty Clay, moist light gray, blocky/ Sandy Clay, moist, laminated gray to red brown	50				0.0		
14		Sand, light gray, loose, dry, coarse							
16							0.0		
18			30%						
20							0.0		
22		Sand, Same as above, finer grain Flowing Sand, fine, tan to light gray, wet	40%						
24							0.0		
26									
28			40%				0.0		
30		Same as above,						Driller will use plug to advance to clay due to flowing sand, switch from 8.25 inch auger to 10.25 inch auger	
32							0.0		
34							0.0		

BORING LOG

Project Name: TEC Jasper Texas — Project Number: 10472.003.003.0220

Soil Boring ○ Monitoring Well ● — Boring /Well Number MW-21 — Sheet 2 of 2

Boring Location: Jasper Texas

Drilling Contractor: Best — Driller: Sonny

Drilling Equipment: Mobile Drill Rig — Borehole Diameter: 10.25"

Sampling Method: Grab

Drilling Method: HSA — Drilling Fluid: N/A

Elevation and Datum:

Date Started: 3-28-05 — Date Finished: 3-28-05

Completed Depth: 47ft — Water Depth:

Well Construction

Type and Diameter of Well Casing: 4" PVC with 20 foot Stailess Steel Screen

Depth (ft.)	USC Soil Type	Description	Recovery %	Blow Counts	Sample Number	Lithology	OVM Readings (ppm)	Remarks	Elevation (ft)
36							0.0		
38							0.0		
40							0.0		
42							0.0		
44		Clay, light gray to tan,					0.0	Logged by Cuttings	
46		Sand, loose, wet					0.0		
48		Same as above							
50		Clay, same as above						T.D. 50 Feet BGS	

BORING LOG

Project Name: TEC Jasper Texas — Project Number: 10472.003.003.0220

Soil Boring ○ Monitoring Well ● — Boring /Well Number MW-22 — Sheet 1 of 2

Boring Location: Jasper, Texas

Drilling Contractor: Best — Driller: Sonny

Drilling Equipment: Mobile Drill Rig — Borehole Diameter: 10.25"

Sampling Method: Grab

Drilling Method: HSA — Drilling Fluid: N/A

Backfill Material: Monitoring Well Construction

Logged By: S. Finn — Checked By: D. Dippel

Elevation and Datum:

Date Started: 3-29-05 — Date Finished: 3-29-05

Completed Depth: 47ft — Water Depth:

Well Construction:

Type and Diameter of Well Casing: 4" PVC with 20 foot Stainless Steel Screen

Slot Size: .010 — Filter Material: Silica Sand

Development Method: Whale Pump

Depth (ft.)	USC Soil Type	Description	Recovery %	Blow Counts	Sample Number	Lithology	OVA Readings (ppm)	Remarks	Elevation (ft)
2		Clay/Sandy Clay, moist to dry, red brown to tan					0.0	Soil Logged from Cuttings	
4									
6		Increased Clay, grades to light gray, moist to dry					0.0		
8							0.0		
10									
12		Clay, reddish tint Sand, fine grained, dry, light gray to tan					0.0		
14									
16							0.0		
18		Sand, moist, increased sand with depth, tan to reddish tan							
20		Same as above, moist to wet					0.0		
22		Flowing Sand, saturated, light gray to tan							
24							0.0		
26									
28							0.0		
30									
32							0.0		
34		Clay, lens					0.0	Driller reports clay	

Project Name: TEC Jasper Texas Project Number: 10472.003.003.0220

Soil Boring ○ Monitoring Well ● Boring /Well Number MW-22 Sheet 2 of 2

Boring Location: Jasper, Texas Elevation and Datum:

Drilling Contractor: Best Driller: Sonny Date Started: 3-29-05 Date Finished: 3-29-05

Drilling Equipment: Mobile Drill Rig Borehole Diameter: 10.25" Completed Depth: 47ft Water Depth:

Sampling Method: Grab Well Construction

Drilling Method: HSA Drilling Fluid: N/A Type and Diameter of Well Casing: 4" PVC with 20 foot Stainless Steel Screen

Depth (ft.)	USC Soil Type	Description	Recovery %	Blow Counts	Sample Number	Lithology	OVM Readings (ppm)	Remarks	Elevation (ft)
36		Flowing Sand, saturated, light gray to tan					0.0		
38							0.0		
40							0.0		
42							0.0		
44		Clay, ~ 1 foot lens					0.0		
46		Sand, sand, flowing sand, same as above					0.0		
48		Sandy Clay, tan, medium plasticity, stiff							
50									
52									
55		Same as above						T.D. 55 feet BGS	

5301 Southwest Parkway, Suite 450
Austin, TX 78735
Phone:512-651-7100

WELL NUMBER MW-23
SOIL BORING SWMU5-SB-02A

CLIENT Texas Electric Cooperatives
PROJECT NAME RFI Investigation
PROJECT NUMBER 10472.003.022
PROJECT LOCATION Jasper, Texas
DATE STARTED 12/15/21 **COMPLETED** 12/16/21
GROUND ELEVATION 231.07 ft NAVD 88 **HOLE SIZE** 2/8.25 inch
DRILLING CONTRACTOR Cascade
GROUND WATER LEVELS:
DRILLING METHOD DPT/HSA
▽ **AT TIME OF DRILLING** 20.5 Ft. BGS
DRILLER Cascade **LOGGED BY** L. Wills
AT END OF DRILLING N/A
NOTES HSA: Hollow stem auger DPT: Direct push technology
AFTER DRILLING N/A

DEPTH (ft)	U.S.C.S.	DEPTH	MATERIAL DESCRIPTION	ELEVATION	PID (ppm)	SAMPLE ID'S AND COMMENTS	WELL DIAGRAM
0							Casing Top Elev: 233.8 (ft)
	CH		(0'-5') Gray with red mottling, CLAY, plastic, very stiff, moist				Concrete Seal, Above ground with bumper post
5		5.0		226.1			
	CH		(5'-10') Gray with red mottling, CLAY, plastic, very stiff, moist		1		Bentonite Seal, 11 bags used, 3/8" chips
10		10.0		221.1			
	CH	11.0	(10'-11') Gray with red mottling, CLAY, plastic, very stiff, moist	220.1	1.3		Sch. 40 PVC, 2" OD, 32ft long
	CH		(11'-16') Red grading to gray, CLAY, with SAND, medium grained, low plasticity, moist		1.3		
15		16.0		215.1	1.1		
	SC		(16'-18.5') Gray, SAND, with CLAY, medium grained, moist		1.3		
		18.5		212.6			
	CH	19.0	(18.5'-19') Gray, CLAY, with SAND, low plasticity, moist	212.1			
20	SP		(19'-20.5') Gray, SAND, poorly graded, medium grained, dry to moist				
		20.5 ▽		210.6			
	CH		(20.5'-22') Gray, CLAY, with SAND, medium grained, plastic, wet				
		22.0		209.1			
	SP		(22'-25') Gray, SAND, poorly graded, medium grained, dry to moist		0.1		
25		25.0		206.1			

2A - GENERAL ENVIRONMENTAL BH/TP W/WELL - GINT STD US.GDT - 6/15/22 11:16 - C:\USERS\ZIBINSKM\DESKTOP\RFI INVESTAGATION\RFI_GINT\RFI_INVESTAGATION.GPJ

This log should not be used separately from the orginial report.

(Continued Next Page)

5301 Southwest Parkway, Suite 450
Austin, TX 78735
Phone:512-651-7100

WELL NUMBER MW-23
SOIL BORING SWMU5-SB-02A

CLIENT Texas Electric Cooperatives **PROJECT NAME** RFI Investigation

PROJECT NUMBER 10472.003.022 **PROJECT LOCATION** Jasper, Texas

DEPTH (ft)	U.S.C.S.	DEPTH	MATERIAL DESCRIPTION	ELEVATION	PID (ppm)	SAMPLE ID'S AND COMMENTS	WELL DIAGRAM
25	SP		(25'-27') Gray, SAND, poorly graded, medium grained, dry to moist		0		
		27.0		204.1			
	CH	27.5	(27'-27.5') Gray, CLAY, with SAND, medium grained, plastic, moist	203.6			
	SP		(27.5'-28.5') Gray, SAND, poorly graded, medium grained, moist				
		28.5		202.6			
	CH	29.0	(28.5'-29') Gray, CLAY, with SAND, medium grained, plastic, moist to wet	202.1			
30	SP	30.0	(29'-30') Gray, SAND, poorly graded, medium grained, dry to moist,	201.1			
	SP		(30'-35') Gray, SAND, poorly graded, medium grained, dry to moist, 1" sandy clay lens at 32',			Shifts to moist	Filter pack, 4x50lb bags, Sand, Gillibrand Industrial Sand (Whole Grain)
35		35.0		196.1			
	SP		(35'-40') Gray, SAND, poorly graded, medium grained, dry to moist			Saturated at 37', in flowing sands	Sch. 40 PVC, 2" OD, .010 slot, 10ft long
40		40.0		191.1		color shift to brown	
	CH		(40'-42.5') Gray, CLAY, very stiff, plastic, wet, expanding clay				
		42.5		188.6			

Bottom of borehole at 42.5 feet.

2A - GENERAL ENVIRONMENTAL BH/TP W/WELL - GINT STD US.GDT - 6/15/22 11:16 - C:\USERS\ZIBINSKM\DESKTOP\RFI INVESTAGATION\RFI_GINT\RFI_INVESTAGATION.GPJ

This log should not be used separately from the orginial report.

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Austin, TX 78735
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WELL NUMBER MW-25

CLIENT Texas Electric Cooperatives
PROJECT NAME RFI Investigation
PROJECT NUMBER 10472.003.022
PROJECT LOCATION Jasper, Texas
DATE STARTED 2/14/22 **COMPLETED** 2/15/22
GROUND ELEVATION 226.11 ft NAVD 88 **HOLE SIZE** 2/8.25 inch
DRILLING CONTRACTOR Cascade
GROUND WATER LEVELS:
DRILLING METHOD HSA
▽ **AT TIME OF DRILLING** 15.0 Ft. BGS
DRILLER Dusty **LOGGED BY** M. Patrolia
AT END OF DRILLING N/A
NOTES HSA: Hollow stem auger DPT: Direct push technology
AFTER DRILLING N/A

DEPTH (ft)	U.S.C.S.	DEPTH	MATERIAL DESCRIPTION	ELEVATION	PID (ppm)	SAMPLE ID'S AND COMMENTS	WELL DIAGRAM
0							Casing Top Elev: 225.48 (ft)
	CH		(0'-4') Red with gray mottles, CLAY, medium plastic, stiff, dry to slightly moist		1.3		Concrete Seal, Above ground with bumper post
		4.0		222.1			
5	CH		(4'-6') Dark Brown, CLAY, medium plastic, medium stiff, slightly moist				Bentonite Seal, 3/8" chips
		6.0		220.1			
	CH		(6'-8') Red / Orange, CLAY, medium plastic, medium stiff, slightly moist, trace sand		2.2		
		8.0		218.1			
	SP		(8'-9') Dark brown, SAND, fine grain, moist			Hydrocarbon / Creosote odor	
		9.0		217.1			
10	SP		(9'-10') Light brown, SAND, fine grain, saturated				Sch. 40 PVC, 2" OD, 32ft long
		10.0		216.1			
	CH		(10'-15') Red with gray mottles, CLAY, medium plastic, stiff, dry to slightly moist		0.9		
15		15.0 ▽		211.1			
	SP		(15'-18') Gray and red, SAND, fine to medium, trace clay, saturated		1		
		18.0		208.1			
	SP		(18'-20') Gray and red, clayey SAND, fine to medium, saturated				
20		20.0		206.1			
	SP		(20'-33') White / light gray, SAND, coarse, saturated, hydrocarbon odor		1.9		
25							

2A - GENERAL ENVIRONMENTAL BH/TP W/WELL - GINT STD US.GDT - 6/15/22 11:16 - C:\USERS\ZIBINSKM\DESKTOP\RFI INVESTAGATION\RFI_GINT\RFI_INVESTAGATION.GPJ

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WELL NUMBER MW-25

CLIENT Texas Electric Cooperatives **PROJECT NAME** RFI Investigation

PROJECT NUMBER 10472.003.022 **PROJECT LOCATION** Jasper, Texas

DEPTH (ft)	U.S.C.S.	DEPTH	MATERIAL DESCRIPTION	ELEVATION	PID (ppm)	SAMPLE ID'S AND COMMENTS	WELL DIAGRAM
25			(20'-33') White / light gray, SAND, coarse, saturated, hydrocarbon odor *(continued)*		2.3		
30	SP						Filter pack, 3x50lb bags, Sand, Gillibrand Industrial Sand (Whole Grain)
		33.0		193.1	3.6		
35			(33'-45') White / light gray, SAND, coarse, saturated, hydrocarbon odor, flowing sands				Sch. 40 PVC, 2" OD, .010 slot, 10ft long
					2.7		
40	SP						
					1.8		
45		45.0		181.1			

Bottom of borehole at 45.0 feet.

2A - GENERAL ENVIRONMENTAL BH/TP W/WELL - GINT STD US.GDT - 6/15/22 11:16 - C:\USERS\ZIBINSKM\DESKTOP\RFI INVESTAGATION\RFI_GINT\RFI_INVESTAGATION.GPJ

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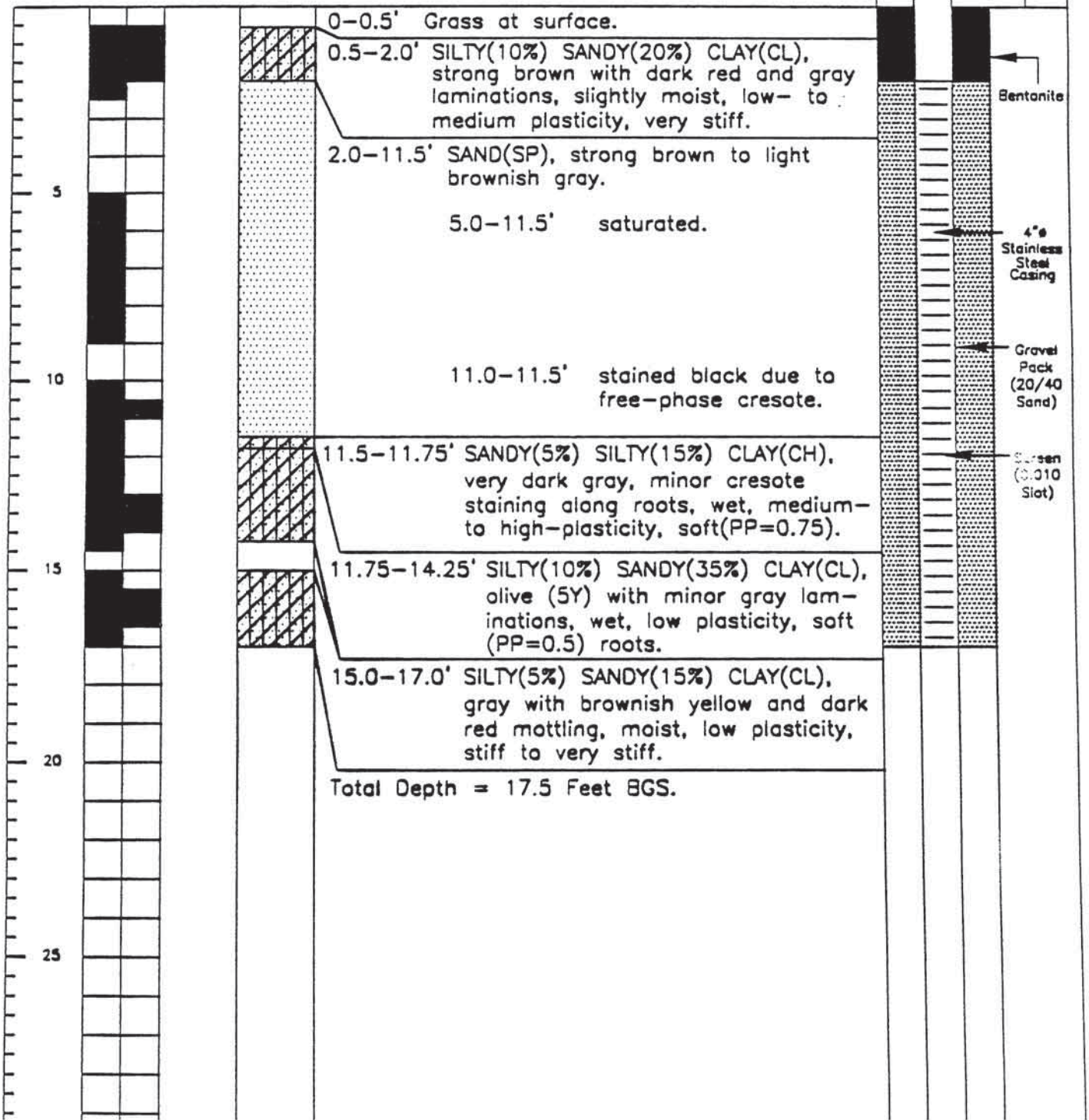
GERAGHTY & MILLER, INC.
Environment & Infrastructure

TEXAS ELECTRIC COOPERATIVE MW-104

JASPER, TEXAS (B-12)

Project No.:	HT0272.001	Completion:	Stick-up
Date Drilled:	May 14, 1997		
Geologist:	Jurgen Koch	Screen Length:	15 Feet
Driller:	Best Environmental	Slot Size:	0.010 Inches
Method:	Hollow Stem Auger 2-Foot Shelby Tube	Casing:	4"ø Stainless Steel
		Top of Casing Elevation:	230.36

DEPTH (ft.)	S	A	PID	LITH-OLOGY	DESCRIPTION
					0-0.5' Grass at surface.
					0.5-2.0' SILTY(10%) SANDY(20%) CLAY(CL), strong brown with dark red and gray laminations, slightly moist, low- to medium plasticity, very stiff.
					2.0-11.5' SAND(SP), strong brown to light brownish gray.
					5.0-11.5' saturated.
					11.0-11.5' stained black due to free-phase cresote.
					11.5-11.75' SANDY(5%) SILTY(15%) CLAY(CH), very dark gray, minor cresote staining along roots, wet, medium- to high-plasticity, soft(PP=0.75).
					11.75-14.25' SILTY(10%) SANDY(35%) CLAY(CL), olive (5Y) with minor gray laminations, wet, low plasticity, soft (PP=0.5) roots.
					15.0-17.0' SILTY(5%) SANDY(15%) CLAY(CL), gray with brownish yellow and dark red mottling, moist, low plasticity, stiff to very stiff.
					Total Depth = 17.5 Feet BGS.



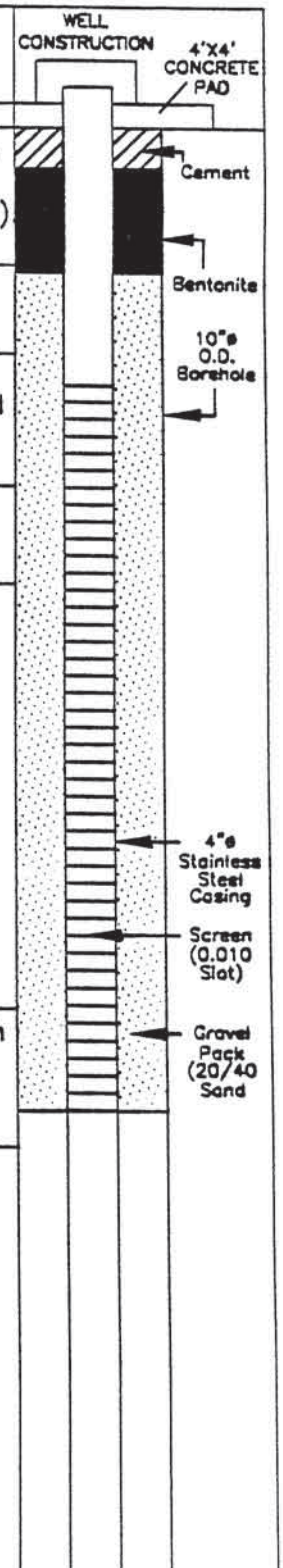
GERAGHTY & MILLER, INC.
Environment & Infrastructure

TEXAS ELECTRIC COOPERATIVE MW-106

JASPER, TEXAS (B-16)

Project No.:	HT0272.001	Completion:	Stick-up
Date Drilled:	May 16, 1997		
Geologist:	Jurgen Koch	Screen Length:	15 Feet
Driller:	Best Environmental	Slot Size:	0.010 Inches
Method:	Hollow Stem Auger	Casing:	4"ø Stainless Steel
		Top of Casing Elevation:	232.69

DEPTH (ft.)	S	A	PID	LITH-OLOGY	DESCRIPTION
					0-3.25' SANDY(20%) CLAY(CH), gray with dark red (2.5YR) mottling medium- to high-plasticity, moist, stiff(PP = 2.75) 1.75-2.0' increased sand content.
					3.25-3.75' SAND(SW), brown, clean, fill material cohesive, medium to fine grained, slightly moist.
5					3.75-4.25' SANDY(5%) CLAY(CL), black staining and cresote odor, strong brown and gray laminations, moist to slightly moist, low plasticity, stiff.
					4.25-4.5' CLAYEY(10%) SAND(SC), strong brown(7.5YR), moist, fine- to medium- grained.
10					5.0-18.0' SAND(SW) brown(7.5YR), clean fill material, saturated; fine- to medium- grained.
					14.5' black cresote staining.
15					15.0-18.0' gray coloration.
					16.5' black cresote staining.
20					18.0-20.0' SANDY(20-25%) CLAY(CL), gray with strong brown and brown (7.5YR 4/2) laminations, minor black staining along root canals.
					Total Depth = 20.0 Feet BGS
25					



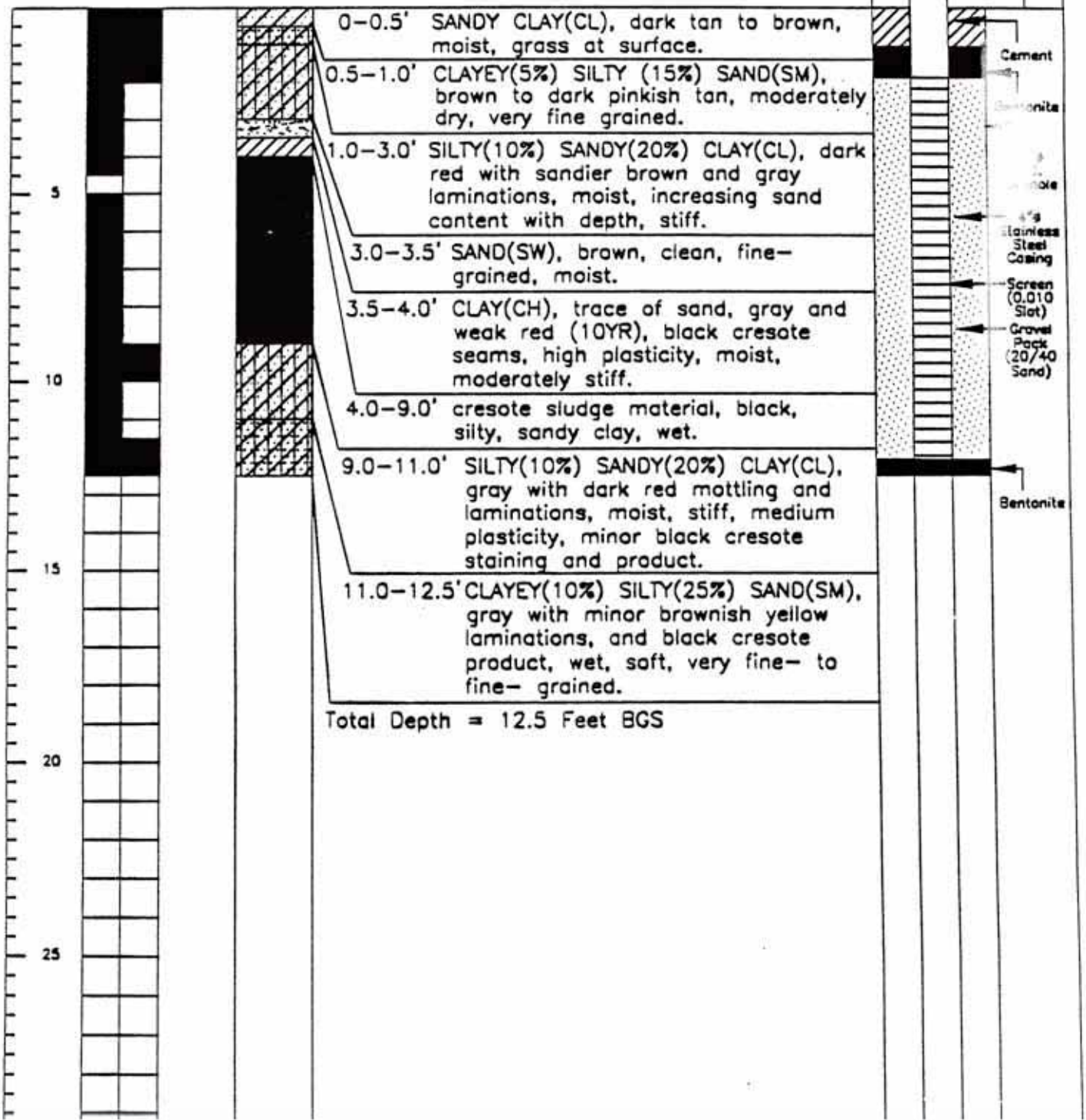
GERAGHTY & MILLER, INC.
Environment & Infrastructure

TEXAS ELECTRIC COOPERATIVE MW-107

JASPER, TEXAS (B-19)

Project No.:	HT0272.001	Completion:	Stick-up
Date Drilled:	May 16, 1997		
Geologist:	Jurgen Koch	Screen Length:	10 Feet
Driller:	Best Environmental	Slot Size:	0.010 Inches
Method:	Hollow Stem Auger	Casing:	4"ø Stainless Steel
		Top of Casing Elevation:	236.14

DEPTH (ft.)	S	A	PID	LITH-OLOGY	DESCRIPTION
					0-0.5' SANDY CLAY(CL), dark tan to brown, moist, grass at surface.
					0.5-1.0' CLAYEY(5%) SILTY (15%) SAND(SM), brown to dark pinkish tan, moderately dry, very fine grained.
					1.0-3.0' SILTY(10%) SANDY(20%) CLAY(CL), dark red with sandier brown and gray laminations, moist, increasing sand content with depth, stiff.
					3.0-3.5' SAND(SW), brown, clean, fine-grained, moist.
					3.5-4.0' CLAY(CH), trace of sand, gray and weak red (10YR), black cresote seams, high plasticity, moist, moderately stiff.
					4.0-9.0' cresote sludge material, black, silty, sandy clay, wet.
					9.0-11.0' SILTY(10%) SANDY(20%) CLAY(CL), gray with dark red mottling and laminations, moist, stiff, medium plasticity, minor black cresote staining and product.
					11.0-12.5' CLAYEY(10%) SILTY(25%) SAND(SM), gray with minor brownish yellow laminations, and black cresote product, wet, soft, very fine- to fine- grained.
					Total Depth = 12.5 Feet BGS



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BORING NUMBER SWMU5-SB-01

CLIENT Texas Electric Cooperatives
PROJECT NAME RFI Investigation
PROJECT NUMBER 10472.003.022
PROJECT LOCATION Jasper, Texas
DATE STARTED 12/17/21 **COMPLETED** 12/17/21
GROUND ELEVATION N/A **HOLE SIZE** 2 inch
DRILLING CONTRACTOR Cascade
GROUND WATER LEVELS:
DRILLING METHOD DPT
AT TIME OF DRILLING N/A
DRILLER Cascade **LOGGED BY** L. Wills
AT END OF DRILLING N/A
NOTES GP: Geoprobe DPT: Direct push technology
AFTER DRILLING N/A

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	DEPTH	MATERIAL DESCRIPTION	PID (ppm)	SAMPLE ID'S
0						
	GP 1	CH		(0'-4') Brown with red, sandy CLAY, fine to medium grained, stiff, plastic, moist, black staining 2-3.5'.	0.5	SWMU5-SB-01-03
			4.0			
5				(4'-16') Grayish tan with red mottling, CLAY, fine to medium grained, stiff, plastic, slightly moist, sand content increasing to 10', swelling clay starting at 10'.		
	GP 2				1.3	
10					1.3	
	GP 3	CH			0	
15					1.2	SWMU5-SB-01-14
			16.0			
	GP 4	CH		(16'-18') Gray, CLAY, fine to medium grained, moderate stiff, plastic, slightly moist.	1.4	
			18.0			
		CH		(18'-50') Gray with light brown mottling, CLAY, high plasticity 18-20', some black staining at 21', color grades to tan/light brown.	1.6	
20						

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5301 Southwest Parkway, Suite 450
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Phone:512-651-7100

BORING NUMBER SWMU5-SB-01

CLIENT Texas Electric Cooperatives **PROJECT NAME** RFI Investigation

PROJECT NUMBER 10472.003.022 **PROJECT LOCATION** Jasper, Texas

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	DEPTH	MATERIAL DESCRIPTION	PID (ppm)	SAMPLE ID'S
20				(18'-50') Gray with light brown mottling, CLAY, high plasticity 18-20', some black staining at 21', color grades to tan/light brown. *(continued)*		
	GP 5	CH			1.4 1.4 0.4	
25	GP 6				0.7	
30	GP 7				0.6 0.1	Still in swelling clay, drill 2' and most of 5' sleeve is filled
35	GP 8				0.6	
40	GP 9				0.2	

2 - GENERAL ENVIRONMENTAL BH/TP - GINT STD US.GDT - 6/17/22 10:29 - C:\USERS\ZIBINSKM\DESKTOP\RFI INVESTAGATION\RFI_GINT\RFI_INVESTAGATION.GPJ

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BORING NUMBER SWMU5-SB-01

CLIENT Texas Electric Cooperatives **PROJECT NAME** RFI Investigation

PROJECT NUMBER 10472.003.022 **PROJECT LOCATION** Jasper, Texas

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	DEPTH	MATERIAL DESCRIPTION	PID (ppm)	SAMPLE ID'S
45				(18'-50') Gray with light brown mottling, CLAY, high plasticity 18-20', some black staining at 21', color grades to tan/light brown. *(continued)*	0	
50	GP 10	CH	50.0		1.1	
	GP 11	CH	53.0	(50'-53') Gray with light brown mottling, CLAY, high plasticity 18-20', some black staining at 21', color grades to tan/light brown.	0.3	

Bottom of borehole at 53.0 feet.

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5301 Southwest Parkway, Suite 450
Austin, TX 78735
Phone:512-651-7100

BORING NUMBER SWMU5-SB-04A

CLIENT Texas Electric Cooperatives
PROJECT NAME RFI Investigation
PROJECT NUMBER 10472.003.022
PROJECT LOCATION Jasper, Texas
DATE STARTED 12/14/21 **COMPLETED** 12/15/21
GROUND ELEVATION N/A **HOLE SIZE** 2 inch
DRILLING CONTRACTOR Cascade
GROUND WATER LEVELS:
DRILLING METHOD DPT
AT TIME OF DRILLING N/A
DRILLER Cascade **LOGGED BY** L. Wills
AT END OF DRILLING N/A
NOTES GP: Geoprobe DPT: Direct push technology
AFTER DRILLING N/A

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	DEPTH	MATERIAL DESCRIPTION	PID (ppm)	SAMPLE ID'S
0				(0'-11') Gray with red mottling grading to reddish brown, CLAY, very stiff, plastic, moist.		
5	GP 1	CH				
10	GP 2				2.1	
15	GP 3		11.0	(11'-16') Gray with mottling grading to reddish brown, CLAY, with SAND, slightly moist.	1.8	
20	GP 4	CH	16.0		2	
		SP	17.5	(16'-17.5') Gray, SAND, poorly graded, medium grained, saturated.		
		CH	18.0	(17.5'-18') Gray, CLAY, very stiff, plastic, moist.		
		SP	19.0	(18'-19') Gray, SAND, poorly graded, medium grained, dry.	0.6	SWMU5-SB-4A-19
		SP	20.0	(19'-20') Gray, SAND, poorly graded, medium grained, moist.		

2 - GENERAL ENVIRONMENTAL BH/TP - GINT STD US.GDT - 6/17/22 17:24 - C:\USERS\ZIBINSK\DESKTOP\RFI INVESTAGATION\RFI_GINT\RFI_INVESTAGATION.GPJ

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Phone:512-651-7100

BORING NUMBER SWMU5-SB-04A

CLIENT Texas Electric Cooperatives **PROJECT NAME** RFI Investigation

PROJECT NUMBER 10472.003.022 **PROJECT LOCATION** Jasper, Texas

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	DEPTH	MATERIAL DESCRIPTION	PID (ppm)	SAMPLE ID'S
20	GP 5	SP		(20'-24.5') Gray, SAND, poorly graded, medium grained, moist, wet zone 20.5-21'.	1.7	
			24.5			
25		CH	25.0	(24.5'-25') Gray, CLAY, with SAND, fine grained, moist.		
	GP 6	SP		(25'-30') Gray, SAND, poorly graded, medium grained, dry to moist, 3" of sand clay at 26'.	2	SWMU5-SB-4A-29
30			30.0			
	GP 7	SP		(30'-35') Gray, SAND, poorly graded, medium grained, dry to moist.	1.9	moist at 34', getting saturated toward 35'
35			35.0			
	GP 8	SP		(35'-40') Gray, SAND, medium grained, saturated, flowing sands.		
40			40.0			
	GP 9	SP		(40'-45') Gray, SAND, medium grained, saturated, flowing sands, few ~1cm thick clay lenses from 40-45'.		

2 - GENERAL ENVIRONMENTAL BH/TP - GINT STD US.GDT - 6/17/22 17:24 - C:\USERS\ZIBINSK\DESKTOP\RFI INVESTAGATION\RFI_GINT\RFI_INVESTAGATION.GPJ

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BORING NUMBER SWMU5-SB-04A

CLIENT Texas Electric Cooperatives **PROJECT NAME** RFI Investigation

PROJECT NUMBER 10472.003.022 **PROJECT LOCATION** Jasper, Texas

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	DEPTH	MATERIAL DESCRIPTION	PID (ppm)	SAMPLE ID'S
45		SP	45.0	(40'-45') Gray, SAND, medium grained, saturated, flowing sands, few ~1cm thick clay lenses from 40-45'. *(continued)*		
50	GP 10	SP		(45'-55') Gray, SAND, medium grained, saturated, flowing sands.		
55	GP 11		55.0			
60	GP 12	SP	60.0	(55'-60') Gray, SAND, medium grained, saturated, flowing sands, some yellowish brown staining 55-60', some clayey sand at 59.5'.		
65	GP 13	SP	65.0	(60'-65') Gray, SAND, medium grained, saturated, flowing sands.		

Bottom of borehole at 65.0 feet.

2 - GENERAL ENVIRONMENTAL BH/TP - GINT STD US.GDT - 6/17/22 17:24 - C:\USERS\ZIBINSKM\DESKTOP\RFI INVESTAGATION\RFI_GINT\RFI_INVESTAGATION.GPJ

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ATTACHMENT 5

3D GEOLOGIC MODEL (DIGITAL MEDIA)

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Digital Three-Dimensional (3D) Modeling

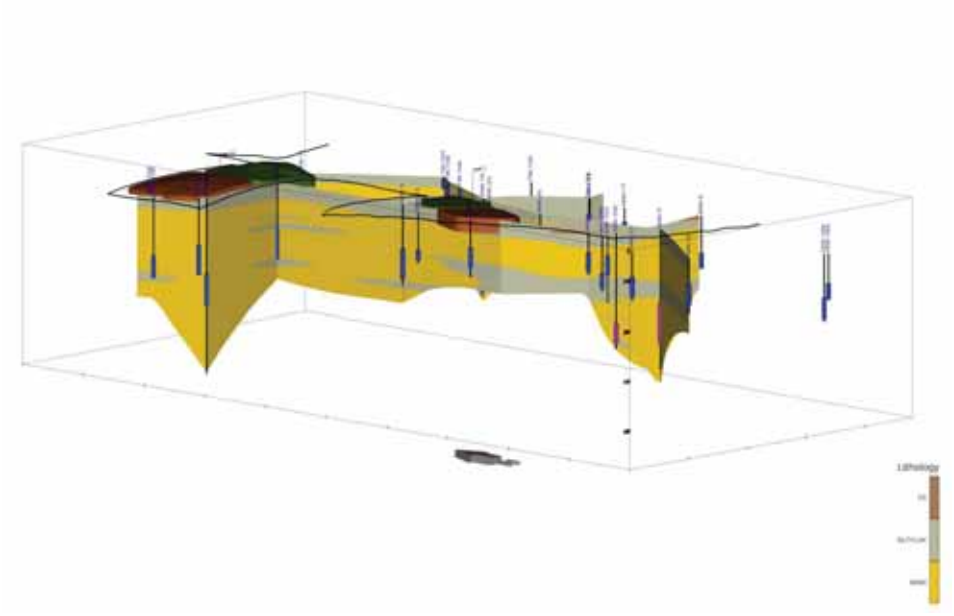
A three-dimensional (3D) subsurface model was constructed using C Tech's Earth Volumetric Studio (EVS) platform. EVS is used by government agencies, private sector entities, and universities around the world due to its EPA-accepted proprietary kriging algorithms. Models often include, but are not limited to, visualization of the following: monitoring network, sample points/intervals, 3D groundwater and soil contaminant plumes, geologic block diagrams, cross-sections, or fence diagrams, above and below ground infrastructure, and aerial imagery or other GIS basemaps for spatial reference.

The TEC Jasper geologic model was generated by way of adaptive indicator kriging using site-specific lithologic data. Table 1 provides the model settings that yielded the best interpolated results based on professional judgement. The model is provided in a 3D interactive file (*.ctws).

Table 1
Model Parameters for Soil Matrix Interpolations

Grid Type	**Rectilinear Grid**
Interpolation Method	**Adaptive Indicator Kriging**
Variogram Model Type	**Spherical**
Horizontal to Vertical Anisotropy	**50**
Number of input data points	**294**
Horizontal / Vertical Resolution	**121/100**

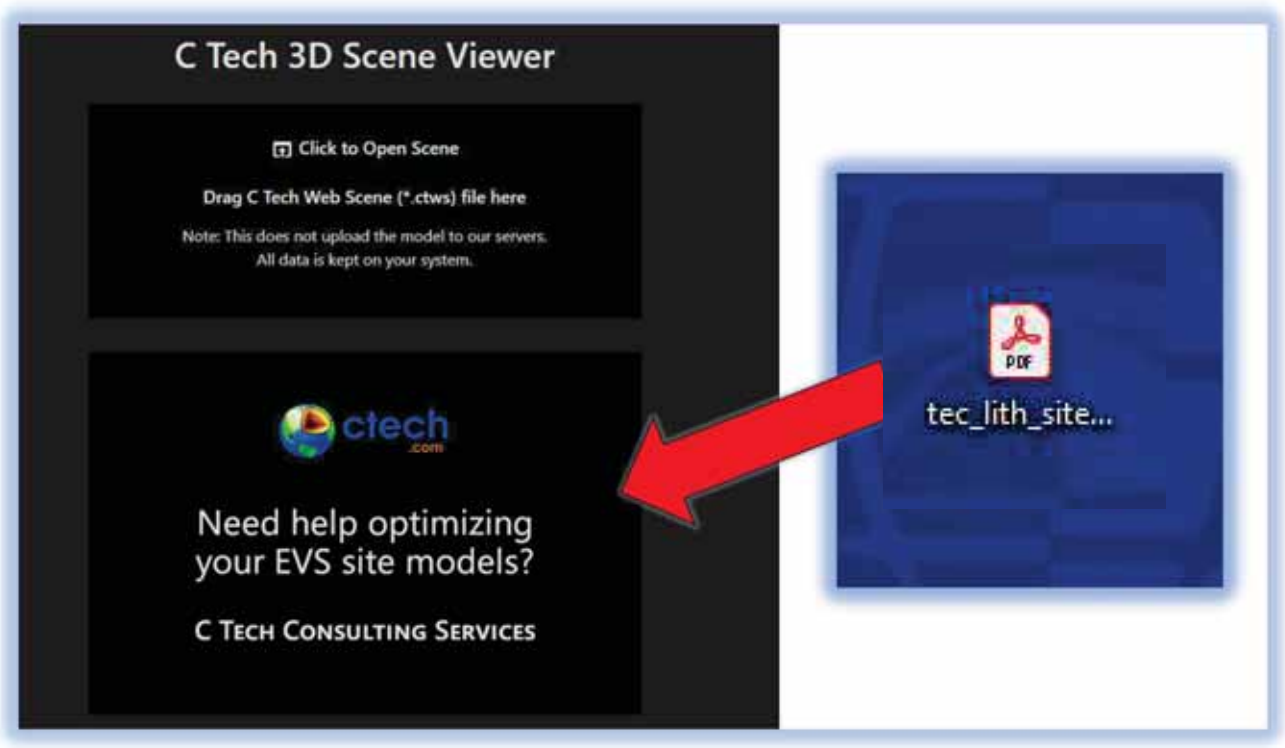
Figure 1 – Static image of the 3D Ctech Web Scene Model that can be loaded using instructions on page 2.



Web Scene Model Viewer Instructions:

A *.ctws file has been made available for download from the same location as the report, and as a hard copy on a zip drive. Once downloaded, the *.ctws model file can be dragged onto Ctech's online viewer by selecting the file, holding the left mouse button while dragging the file icon onto the viewer web page and then releasing the mouse button. Model features can be accessed by clicking the ☰ icon located in the top left corner. This expands a list of model features can be toggled on/off by clicking the 👁 symbol to the left of the item name. Use the mouse wheel to zoom in/out, hold the left mouse button and move the mouse to rotate, and hold the right mouse button to move the model up/down or left/right. The How to use the 3D Scene Viewer webpage describes how to adjust layer transparencies, interrogate features, change the vertical exaggeration, and more.

Figure 2 – Illustration of dragging/dropping the ctws file onto Ctech's scene viewer webpage.

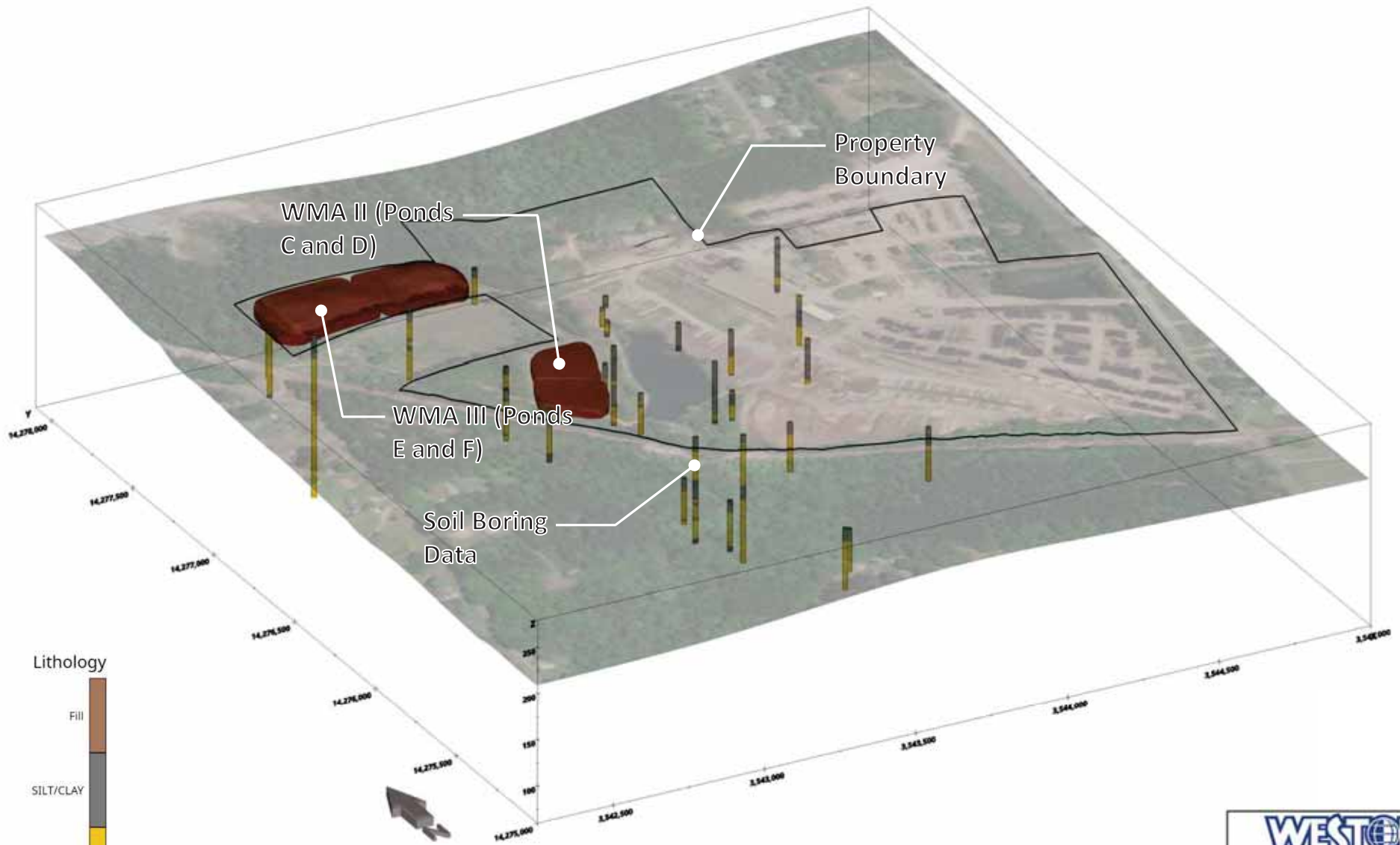


(https://viewer.ctech.com/)

ATTACHMENT 6

STILL IMAGES FROM 3D GEOLOGIC MODEL

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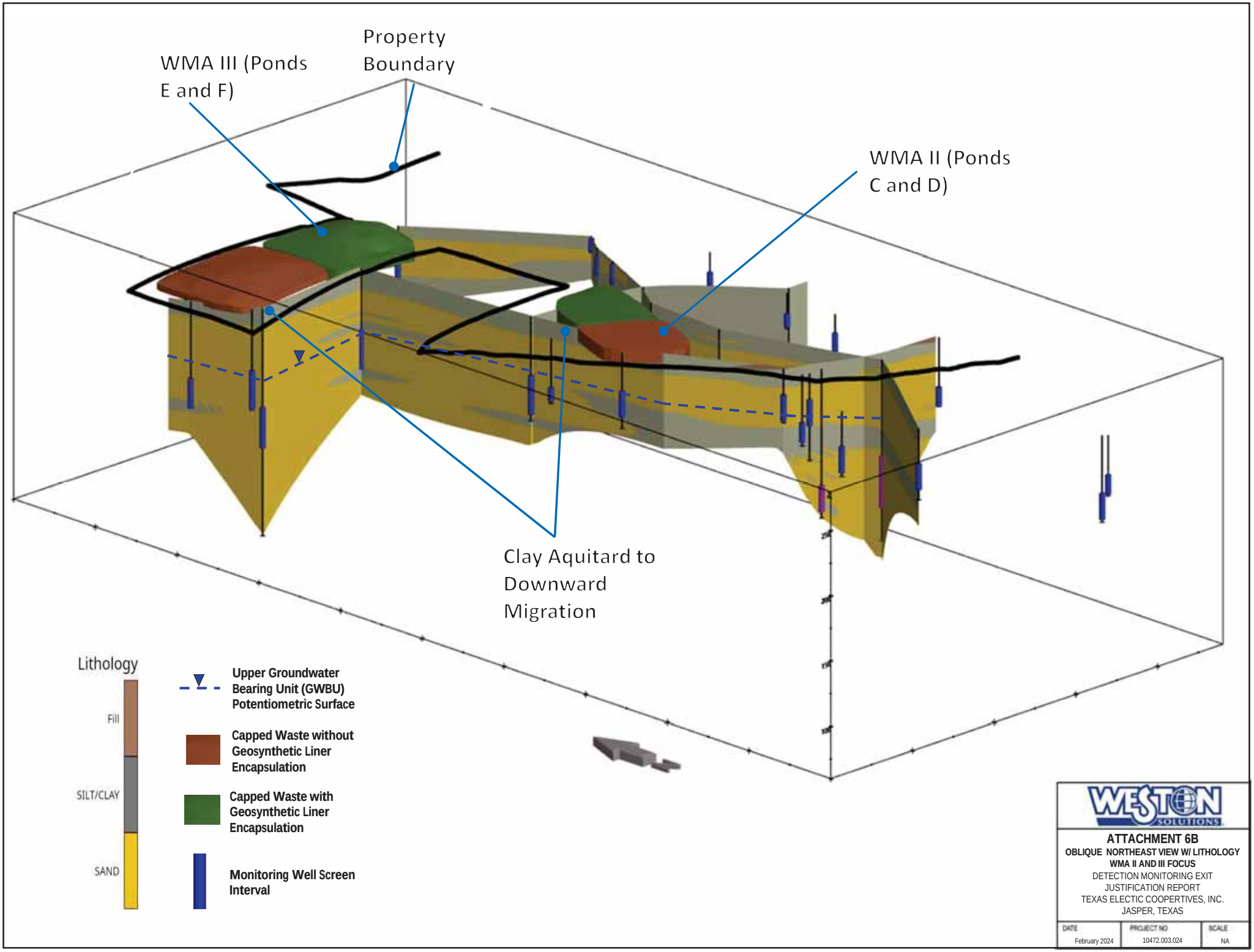
WESTON SOLUTIONS

ATTACHMENT 6A

OBLIQUE NORTHEAST VIEW WITH BOREHOLES

DETECTION MONITORING EXIT
JUSTIFICATION REPORT
TEXAS ELECTIC COOPERTIVES, INC.
JASPER, TEXAS

DATE	PROJECT NO	SCALE
February 2024	10472.003.024	NA



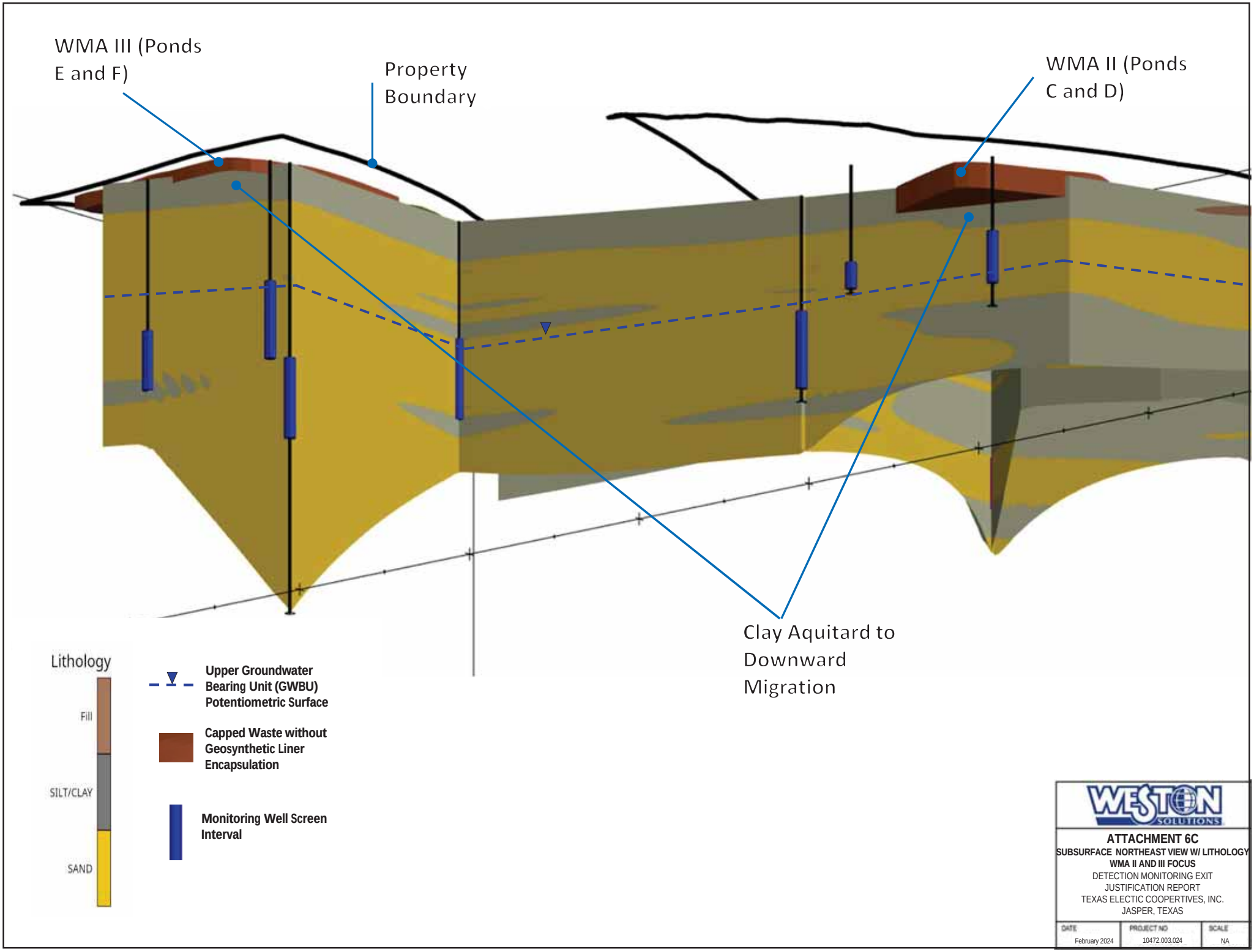
WESTON SOLUTIONS

ATTACHMENT 6B

OBLIQUE NORTHEAST VIEW W/ LITHOLOGY
WMA II AND III FOCUS

DETECTION MONITORING EXIT
JUSTIFICATION REPORT
TEXAS ELECTIC COOPERTIVES, INC.
JASPER, TEXAS

DATE	PROJECT NO	SCALE
February 2024	10472.003.024	NA



WESTON SOLUTIONS

ATTACHMENT 6C

SUBSURFACE NORTHEAST VIEW W/ LITHOLOGY
WMA II AND III FOCUS
DETECTION MONITORING EXIT
JUSTIFICATION REPORT
TEXAS ELECTIC COOPERTIVES, INC.
JASPER, TEXAS

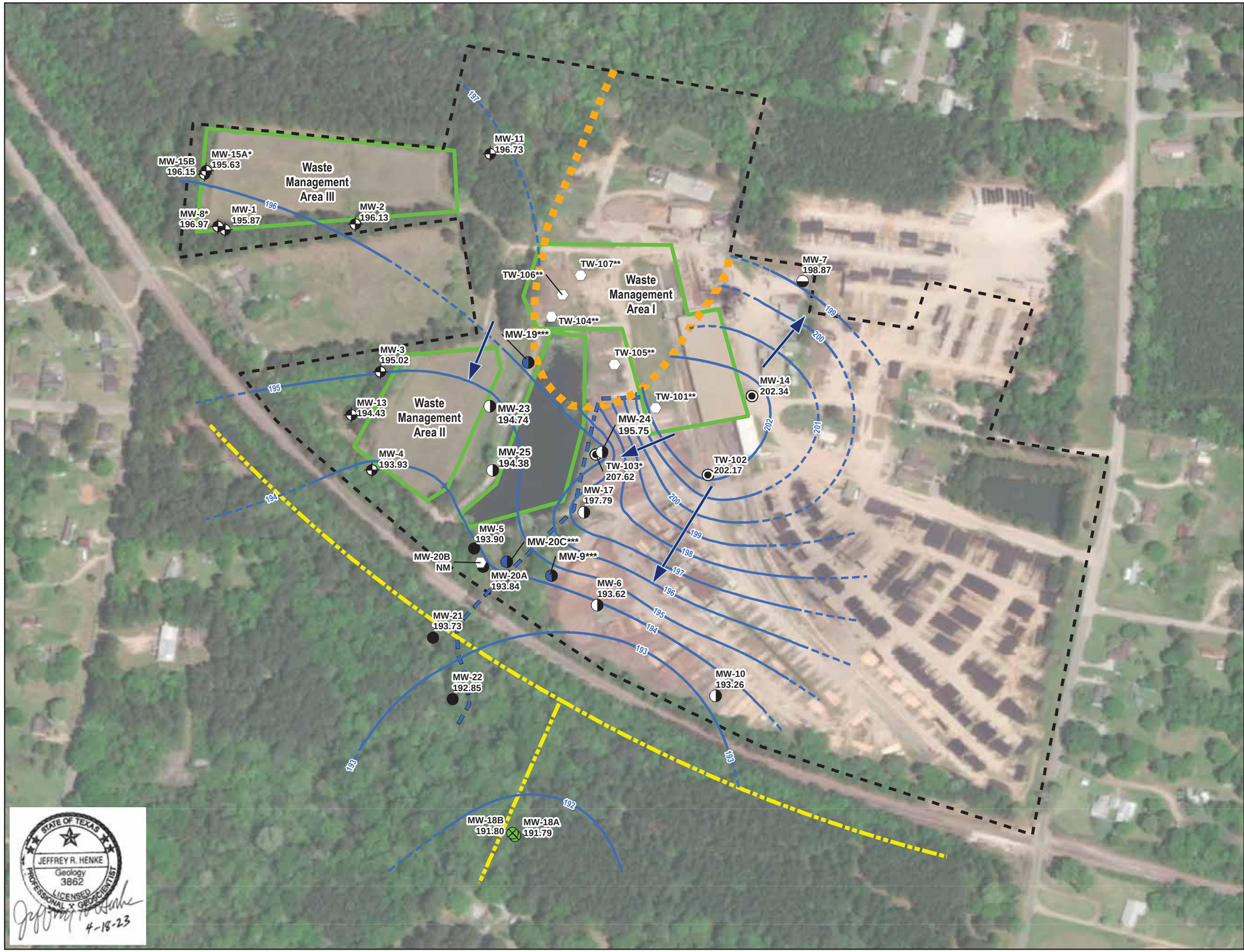
DATE	PROJECT NO	SCALE
February 2024	10472.003.024	NA

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ATTACHMENT 7

HISTORICAL POTENTIOMETRIC SURFACE MAPS

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LEGEND

- Deep Monitoring Wells
- Detection Monitoring Wells
- Background Well
- Point of Compliance Well
- Corrective Action System Well
- Corrective Action Observation Well
- Supplemental Well
- Point of Exposure Well

195.87 Groundwater elevation (ft msl)
Estimated Potentiometric Surface feet above mean sea level (ft msl)

- Interpolated
- Inferred
- Groundwater Flow Direction
- Branch Channel
- Parcel Boundary
- Property Boundary
- Waste Managment Areas
- Shallow Sand Unit Boundary

Notes:
NM = Not Measured

* TW-103, MW-15A, and MW-8 data from groundwater monitoring event was anomalous and was not used to generate potentiometric surface lines

** Wells within the Shallow Sand Unit Boundary were not used to generate potentiometric surface lines

*** Deep Wells were not used to generate potentiometric surface lines.

N

0 250 500
Feet

SOURCE: Imagery (c) 2010 Microsoft Corporation and its data suppliers

STATE OF TEXAS
JEFFREY R. HENKE
Geology
3862
LICENSED
PROFESSIONAL GEOSCIENTIST
4-18-23

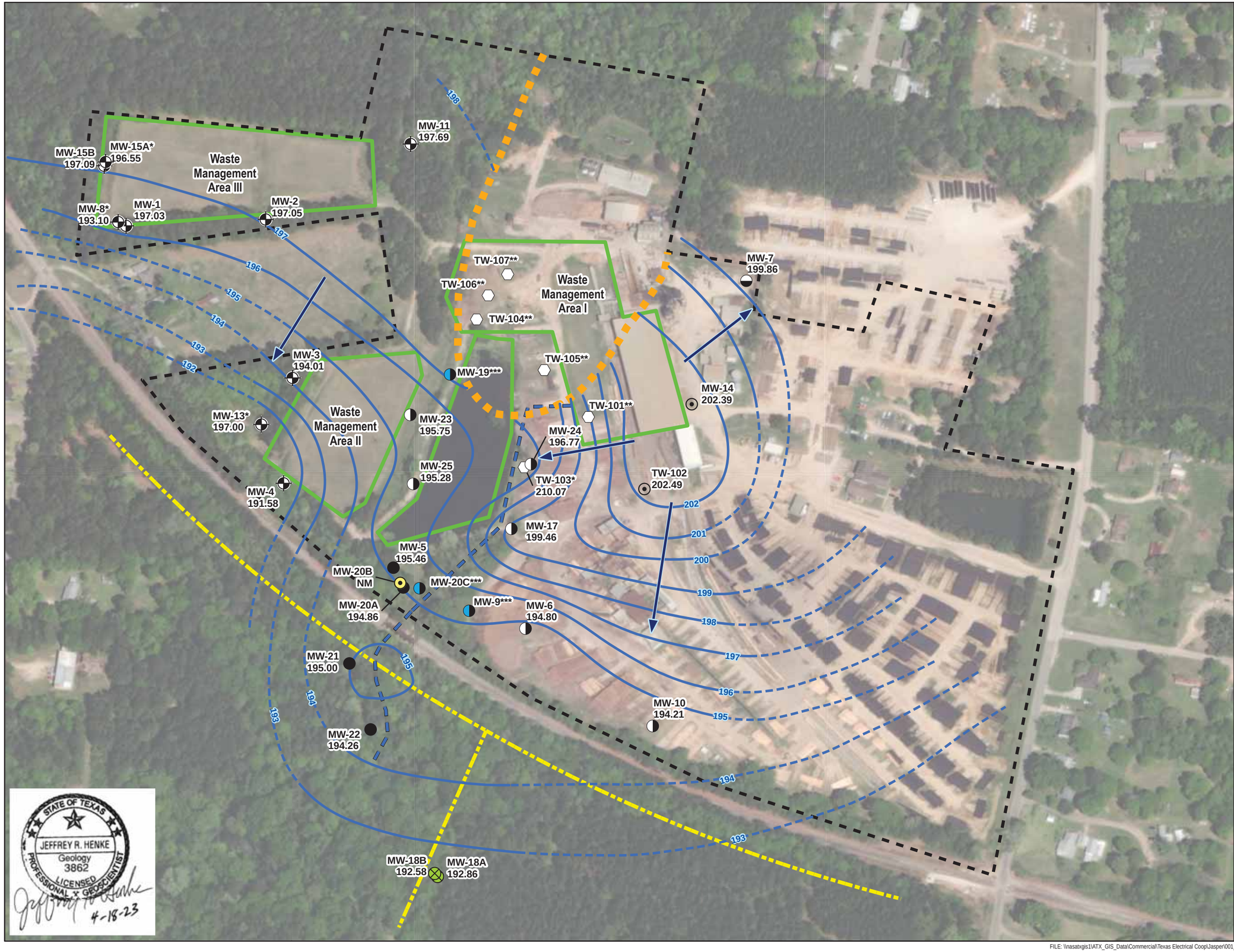
WESTON SOLUTIONS

FIGURE 3
POTENTIOMETRIC SURFACE MAP - OCT 2022
2022 ANNUAL DETECTION MONITORING REPORT
WMA II AND WMA III
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS

DATE	PROJECT NO	SCALE
MAR 2023	10472.003.023.0005	AS SHOWN

FILE: \\nasatxgis1\ATX_GIS_Data\Commercial\Texas Electrical Coop\Jasper\001_GW Quarterly Report\mxd\2022\Annual DMR\Figure 3 GW Gradient Map - Oct 2022.mxd 2:02:15 PM 3/17/2023 mageec

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LEGEND

- Deep Monitoring Well
- Detection Monitoring Well
- Background Well
- Point of Compliance Well
- Corrective Action System Well
- Corrective Action Observation Well
- Recovery Well
- Supplemental Well
- Point of Exposure Well
- Groundwater Flow Direction

Estimated Potentiometric Surface
feet mean sea level (ft msl)

- Inferred
- Interpolated
- Branch Channel
- Parcel Boundary
- Property Boundary
- Waste Managment Areas
- Shallow Sand Unit Boundary

Notes:
NM = Not Measured

196.80 Groundwater elevation (ft msl)

* TW-103, MW-15A, MW-13, and MW-8 data from groundwater monitoring event was anomalous and was not used to generate potentiometric surface lines

** Wells within the Shallow Sand Unit Boundary were not used to generate potentiometric surface lines

*** Deep Wells were not used to generate potentiometric surface lines.

N

0 250 500

Feet

SOURCE: Imagery (c) 2010 Microsoft Corporation and its data suppliers

WESTON SOLUTIONS

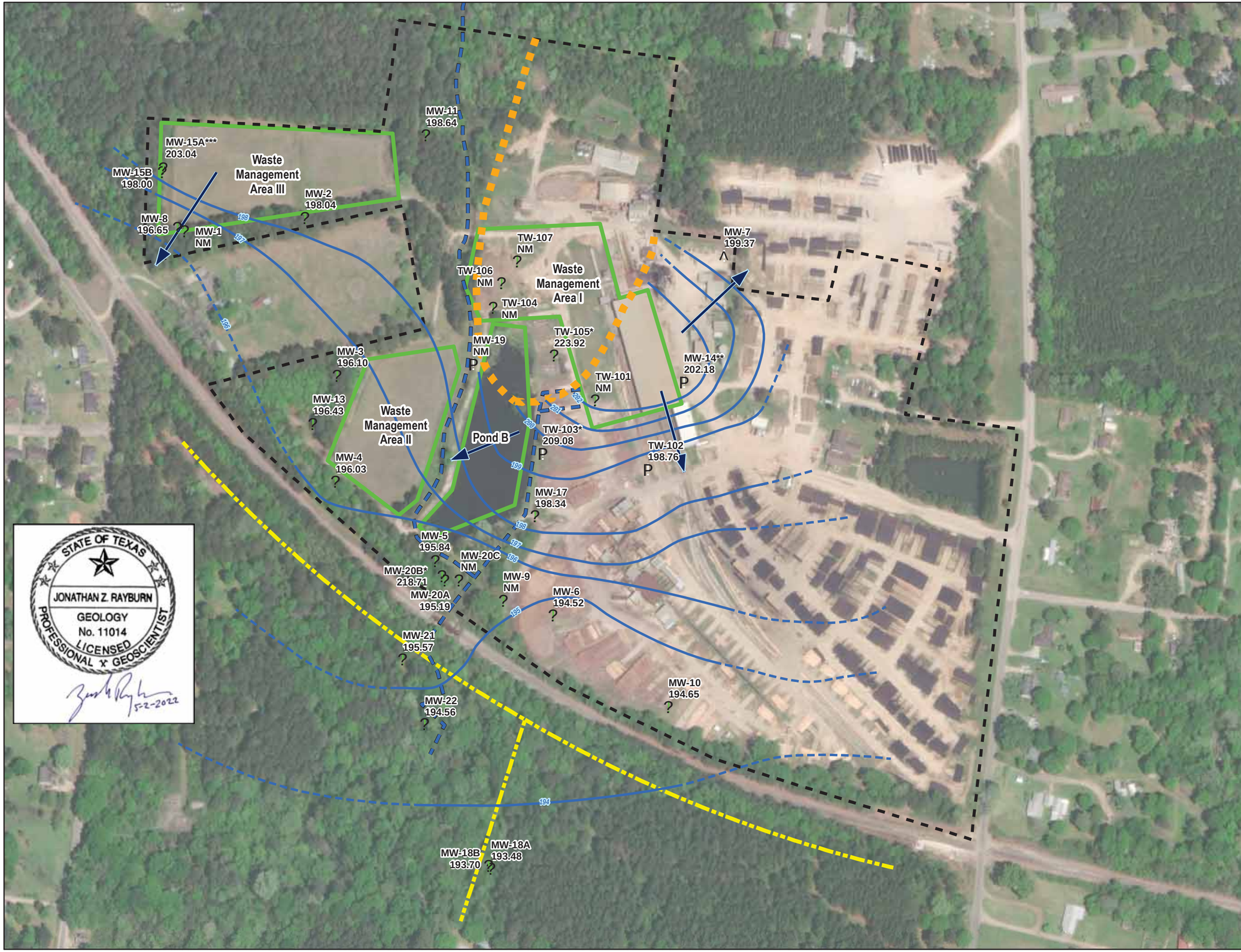
FIGURE 2

POTENTIOMETRIC SURFACE MAP - MAY 2022
2022 ANNUAL DETECTION
MONITORING REPORT
WMA II AND WMA III
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS

DATE	PROJECT NO	SCALE
MAR 2023	10472.003.023.0005	AS SHOWN

FILE: \\nasatxgis1\ATX_GIS_Data\Commercial\Texas Electrical Coop\Jasper\001_GW Quarterly Report\mxd\2022\Annual DMR\Pro\TEC.aprx 2:03 PM 3/17/2023 mageec

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STATE OF TEXAS
JONATHAN Z. RAYBURN
GEOLOGY
No. 11014
LICENSED
PROFESSIONAL x GEOSCIENTIST
5-2-2022

LEGEND

- ? Corrective Action Program Well
- Λ Background Well
- P Point of Compliance Well
- Groundwater Flow Direction
- 203.04 Groundwater elevation (ft msl)
- Estimated Potentiometric Surface feet mean sea level (ft msl)
- Inferred
- Interpolated
- Branch Channel
- Parcel Boundary
- Property Boundary
- Waste Managment Areas
- Shallow Sand Unit Boundary

NOTES:

NM Not Measured
NAPL Non-Aqueous Phase Liquid
* TW-103, MW-20B, TW-105 data from groundwater monitoring event was determined anomalous due to higher elevations and not used to generate potentiometric surface lines
** MW-14 elevation not measured on 10/18 therefore the elevation is derived from the average of previous 4 events
*** MW-15A data from groundwater monitoring event was determined anomalous due to data collection error and not used to generate potentiometric surface lines

Groundwater elevations collected 13-14 October 2021, except for TW-105, which was collected on 20 October 2021.

0 250 500
Feet

SOURCE: ESRI World Imagery 2022 (date 3/26/2020)

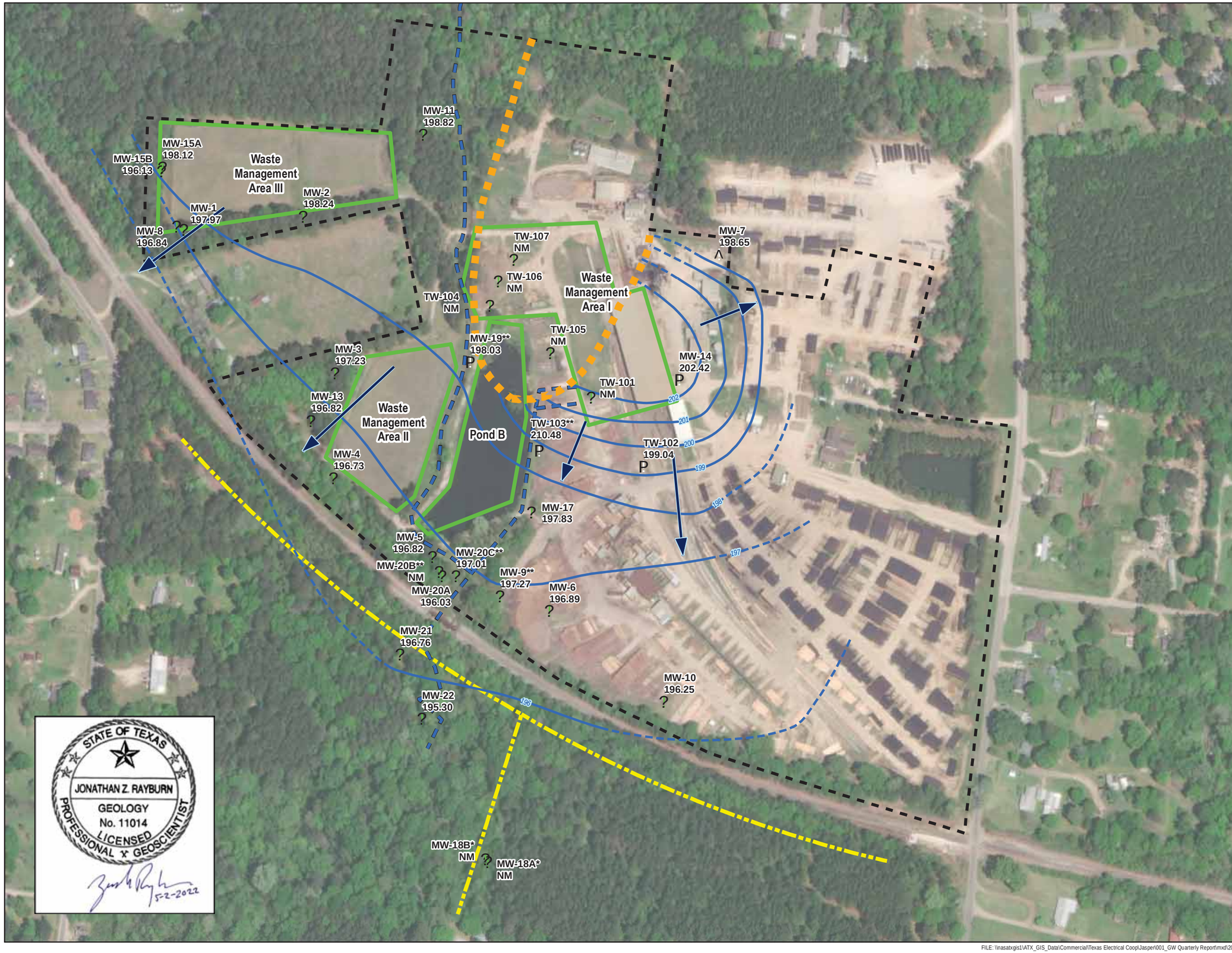
WESTON SOLUTIONS

FIGURE 3
POTENTIOMETRIC SURFACE MAP
OCTOBER 2021
2021 ANNUAL DETECTION
MONITORING REPORT
WMA II AND WMA III
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS

DATE	PROJECT NO	SCALE
APR 2022	10472.003.019.1004	AS SHOWN

FILE: \\nasatxgis1\ATX_GIS_Data\Commercial\Texas Electrical Coop\Jasper\001_GW Quarterly Report\mxd\2021\Figure 3 Potentiometric Surface Map_Oct2021_r2.mxd 3:50:24 PM 4/26/2022 beckleyp

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LEGEND

- ? Corrective Action Program Well
- ^ Background Well
- P Point of Compliance Well
- Groundwater Flow Direction
- 203.04 Groundwater elevation (ft msl)

Estimated Potentiometric Surface feet mean sea level (ft msl)

- Inferred
- Interpolated
- Branch Channel
- Parcel Boundary
- Property Boundary
- Waste Managment Areas
- Shallow Sand Unit Boundary

NOTES:

NM	Not Measured
NAPL	Non-Aqueous Phase Liquid
*	MW18A and MW18B were not gauged due to mud blockage and insect infestation
**	TW-103, MW-20B not used in contouring due to higher elevations. MW-19, MW-20C, MW-9 not used due to being in a lower zone.

0 250 500

Feet

SOURCE: Imagery (c) 2010 Microsoft Corporation and its data suppliers

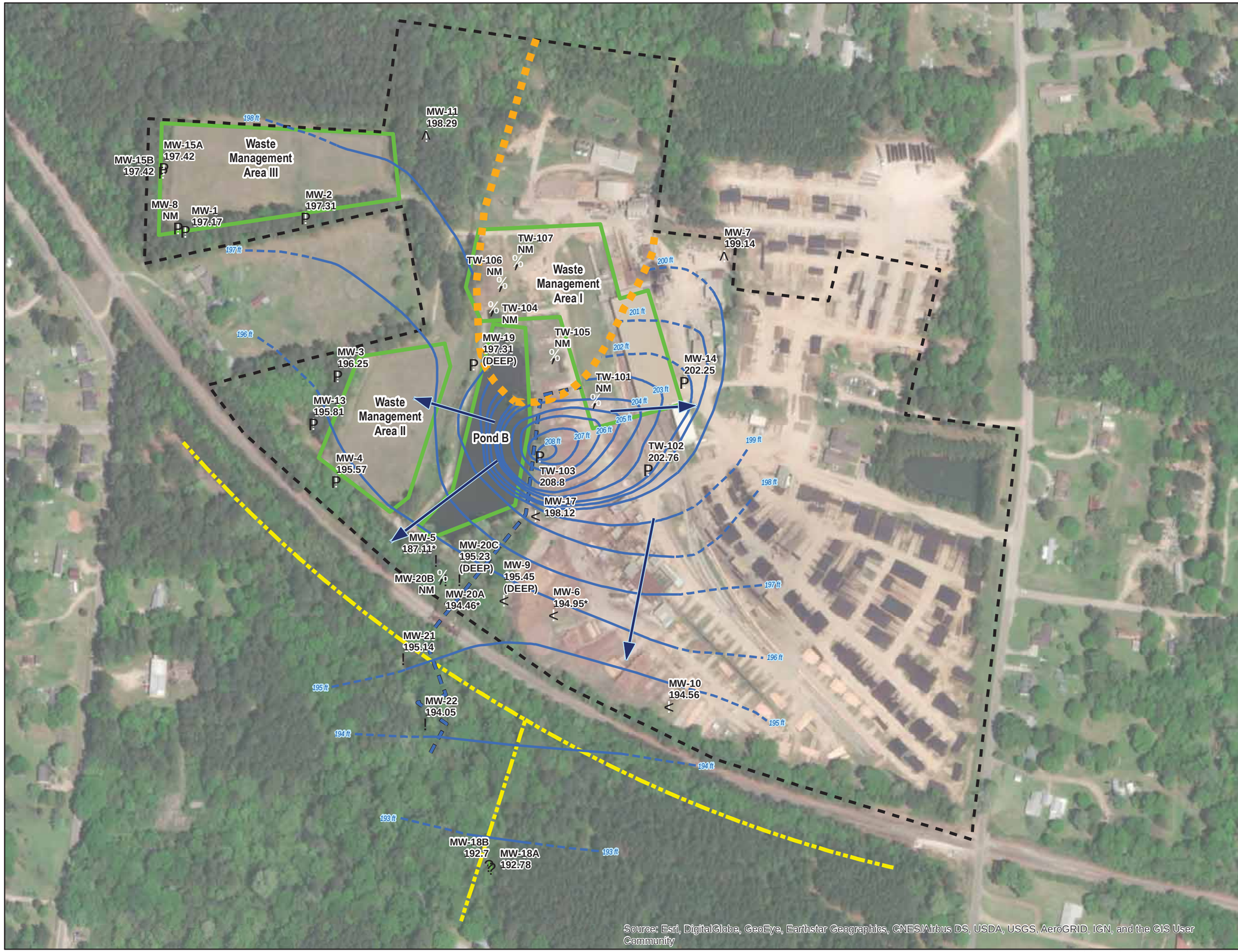
WESTON SOLUTIONS

FIGURE 2
POTENTIOMETRIC SURFACE
MAP - MAY 2021
2021 ANNUAL DETECTION
MONITORING REPORT
WMA II AND WMA III
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS

DATE	PROJECT NO	SCALE
APR 2022	10472.003.019.1004	AS SHOWN

FILE: \\nasatxgis1\ATX_GIS_Data\Commercial\Texas Electrical Coop\Jasper\001_GW Quarterly Report\mxd\2021\Figure 2 Potentiometric Surface Map_May2021_r.mxd 3:50:00 PM 4/26/2022 beckleyp

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LEGEND

- Background Well
- Point of Compliance Well
- Corrective Action System
- Corrective Action Observation Well
- Supplemental Well
- Point of Exposure Well
- Branch Channel
- Parcel Boundary
- Property Boundary
- Waste Managment Areas
- Shallow Sand Unit Boundary

Estimated Potentiometric Surface feet mean sea level (ft msl)

- Inferred
- Interpolated
- Groundwater Flow Direction

NM Not Measured

198.95 Groundwater elevation (ft msl)

Groundwater elevations collected 27 July 2020

*Groundwater Elevation not used in gradient due to anomalous reading.

ROBERT M. ARNOLT GEOLOGY 2153 LICENSED PROFESSIONAL GEOSCIENTIST STATE OF TEXAS 3-31-2021

0 250 500

Feet

SOURCE: Imagery (c) 2010 Microsoft Corporation and its data suppliers

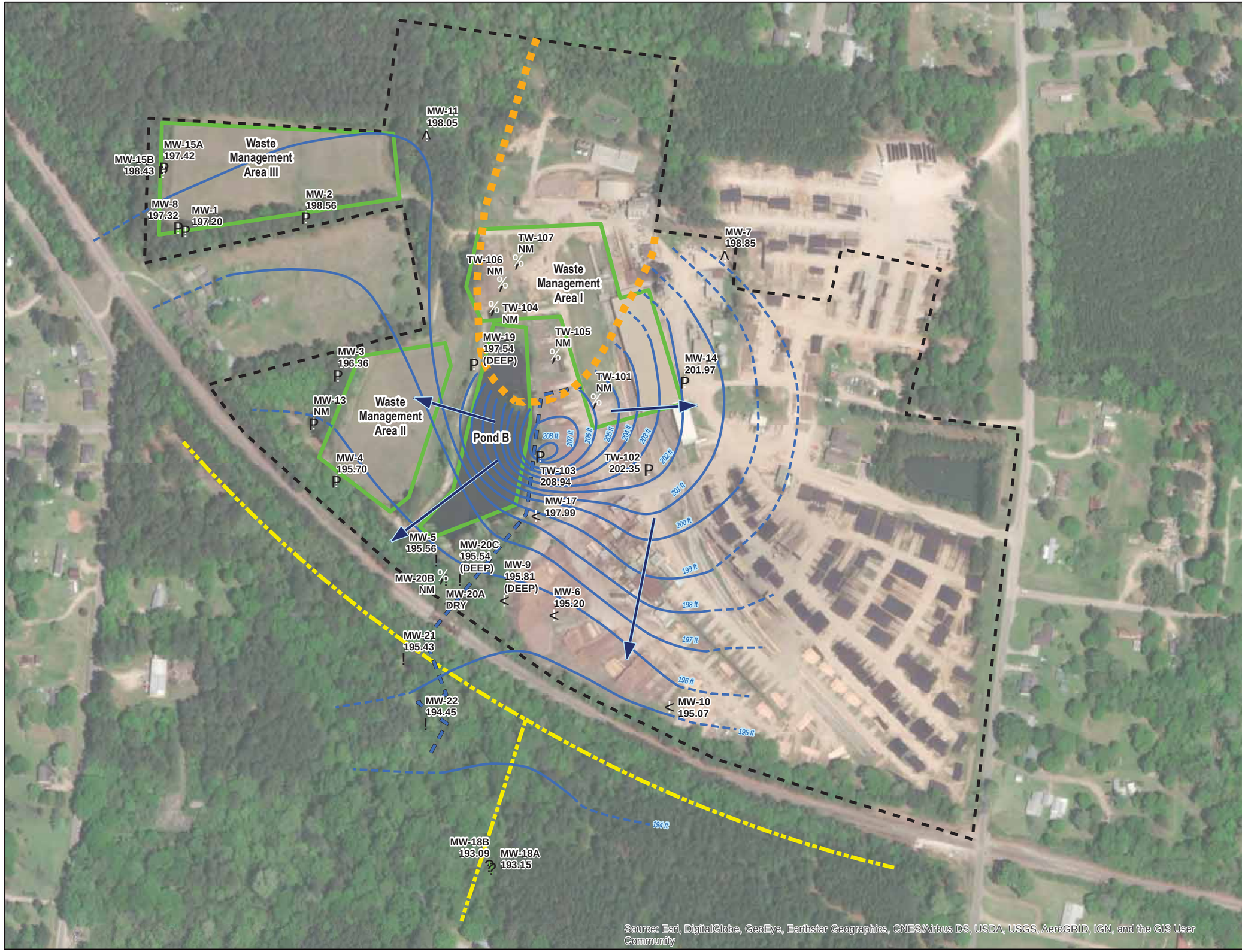
WESTON SOLUTIONS

FIGURE 3
POTENTIOMETRIC SURFACE MAP
SEMI ANNUAL GROUNDWATER MONITORING REPORT
JULY 2020
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS

DATE	PROJECT NO	SCALE
MAR 2021	10472.003.019.1004	AS SHOWN

FILE: G:\Commercial\Texas Electrical Coop\Jasper\001_GW Quarterly Report\mxd\2021\Figure 3 Potentiometric Map July 2020.mxd 10:41:47 AM 3/9/2021 deguentm

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LEGEND

- ^ Background Well
- P Point of Compliance Well
- , Corrective Action System
- ? Corrective Action Observation Well
- < Supplemental Well
- ! Point of Exposure Well
- Branch Channel
- Parcel Boundary
- Property Boundary
- Waste Managment Areas
- Shallow Sand Unit Boundary

Estimated Potentiometric Surface feet mean sea level (ft msl)

- Inferred
- Interpolated
- Groundwater Flow Direction

NM Not Measured

198.95 Groundwater elevation (ft msl)

Groundwater elevations collected 27 January 2020

*Groundwater Elevation not used in gradient due to anomalous reading.

STATE OF TEXAS ROBERT M. ARNOLT GEOLOGY 2153 LICENSED PROFESSIONAL GEOSCIENTIST 3-31-2021

0 250 500

Feet

SOURCE: Imagery (c) 2010 Microsoft Corporation and its data suppliers

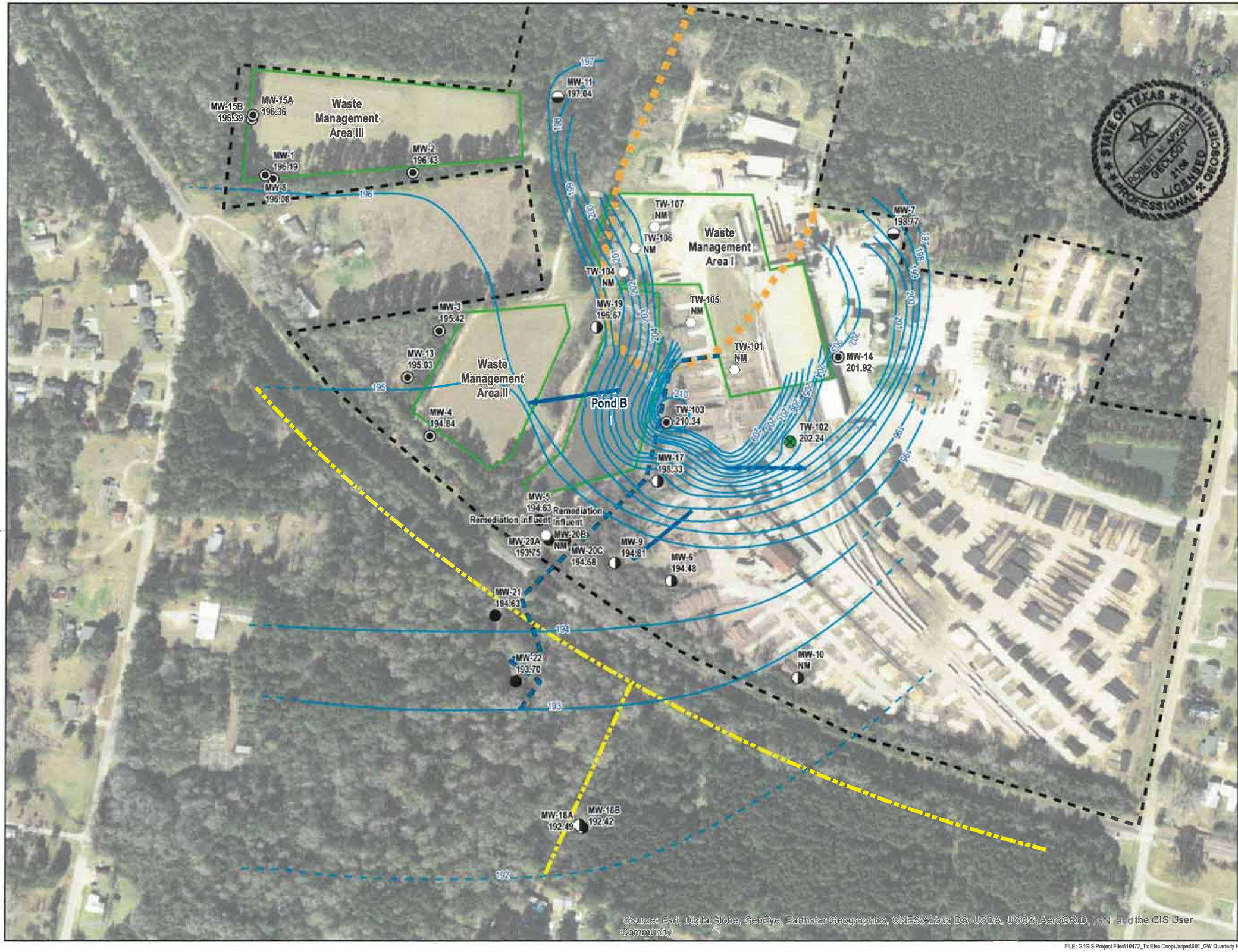
WESTON SOLUTIONS

FIGURE 3
POTENTIOMETRIC SURFACE MAP
SEMI ANNUAL GROUNDWATER MONITORING REPORT
JANUARY 2020
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS

DATE	PROJECT NO	SCALE
DEC 2020	10472.003.019.1003	AS SHOWN

FILE: G:\Commercial\Texas Electrical Coop\Jasper\001_GW Quarterly Report\mxd\2020\Figure 3 Potentiometric Map Jan 2020.mxd 11:32:06 AM 3/5/2021 deguentm

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LEGEND

- Background Well
- Point of Compliance Well
- Corrective Action System
- Corrective Action Observation Well
- Supplemental Well
- Point of Exposure Well
- Estimated Potentiometric Surface (feet mean sea level (ft msl))
- Estimated Direction of Groundwater Flow
- Branch Channel
- Shallow Sand Unit Boundary
- Parcel Boundary
- Property Boundary
- Waste Managment Areas

NM Not Measured

195.03 Groundwater elevation (ft msl)

Groundwater elevations collected 17-19 July 2017

*Groundwater Elevation not used in gradient due to anomalous reading.

N

0 250 500

Feet

SOURCE: Imagery (c) 2010 Microsoft Corporation and its data suppliers

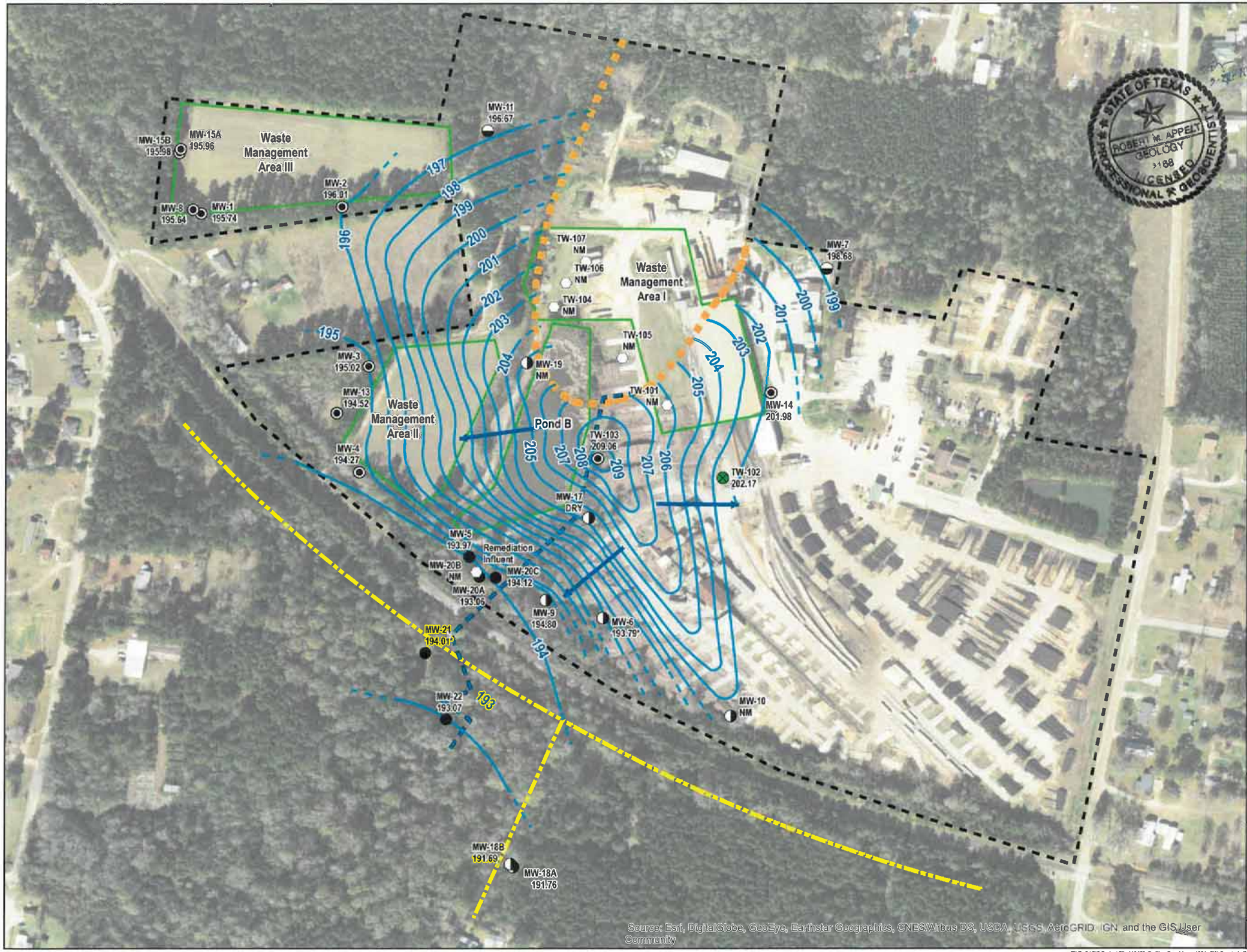
WESTON SOLUTIONS

FIGURE 3
POTENTIOMETRIC SURFACE MAP
SEMI ANNUAL GROUNDWATER MONITORING REPORT
JULY THROUGH DECEMBER 2017
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS

DATE	PROJECT NO	SCALE
JAN 2018	10472.003.016.0003	AS SHOWN

FILE: G:\GIS Project Files\10472_Tx Elec Coop\Jasper\001_GW Quarterly Report\mxd\2017\Figure 3 Pot Map July-Dec 2017.mxd 8:12:05 AM 1/30/2018 BROWNM

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LEGEND

- Background Well
- Point of Compliance Well
- Corrective Action System
- Corrective Action Observation Well
- Supplemental Well
- Point of Exposure Well
- Estimated Direction of Groundwater Flow
- Estimated Potentiometric Surface (feet mean sea level (ft msl))
- Branch Channel
- Shallow Sand Unit Boundary
- Parcel Boundary
- Property Boundary
- Waste Managment Areas

NM Not Measured

195.02 Groundwater elevation (ft msl)

Groundwater elevations collected 30 January 2017

*Groundwater Elevation not used in gradient due to anomalous reading.

N

0 250 500

Feet

SOURCE: Imagery (c) 2010 Microsoft Corporation and its data suppliers

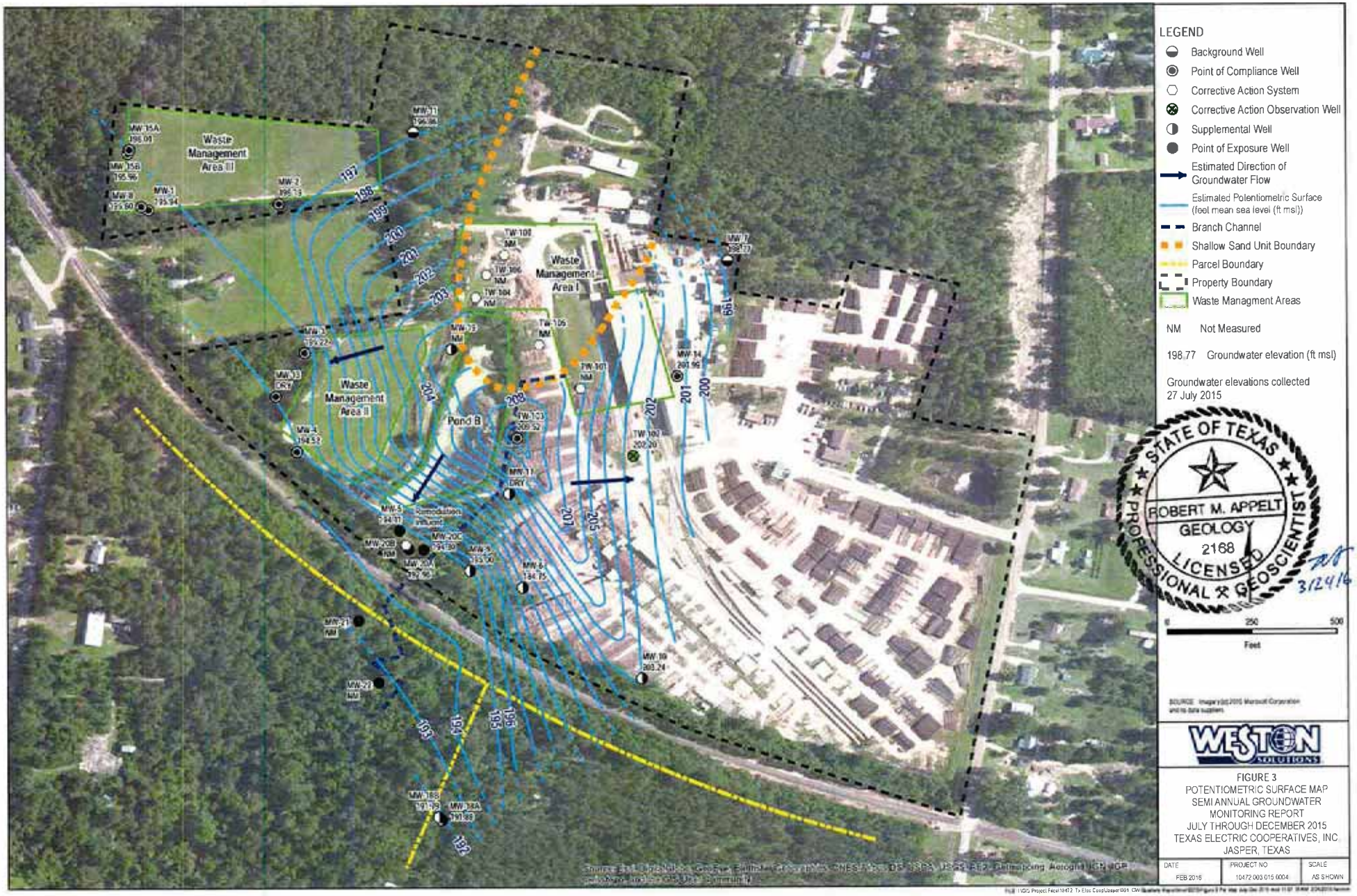
WESTON SOLUTIONS

FIGURE 3
POTENTIOMETRIC SURFACE MAP
SEMI ANNUAL GROUNDWATER MONITORING REPORT
JANUARY THROUGH JUNE 2017
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS

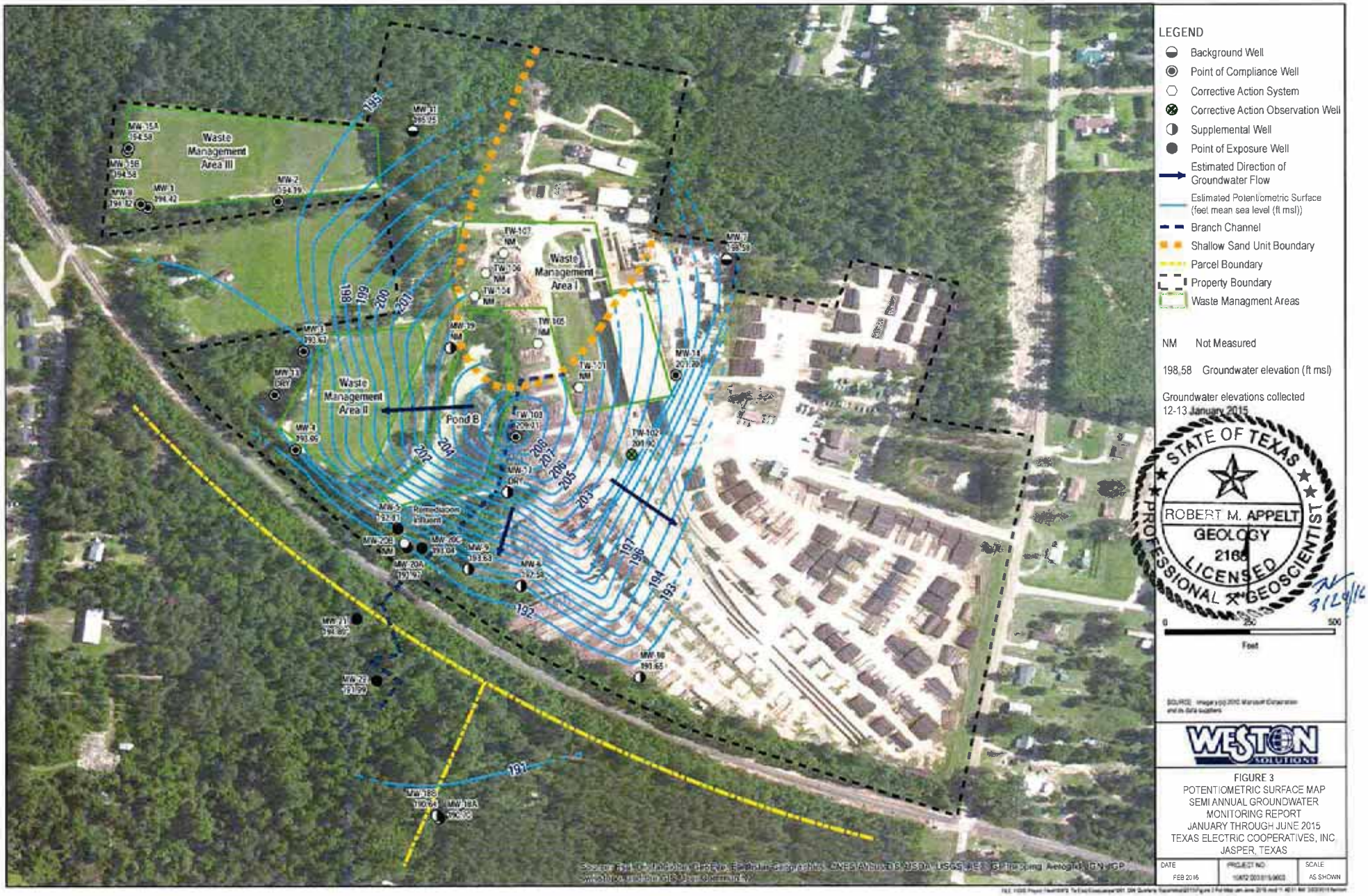
DATE	PROJECT NO	SCALE
JAN 2018	10472.003.016.0003	AS SHOWN

FILE: G:\GIS Project Files\10472_Tx Elec Coop\Jasper\001_GW Quarterly Report\mxd\2017\Figure 3 Pot Map Jan-June 2017.mxd 3:42:46 PM 1/29/2018 BROWNM

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Waste Management Area III
Waste Management Area I
Waste Management Area II
Pond B
MW-15A 196.04
MW-15B 195.96
MW-8 195.80
MW-1 195.94
MW-2 196.13
MW-11 196.86
MW-7 198.27
MW-14 201.96
MW-12 199.22
MW-13 DRY
MW-4 194.52
MW-5 194.11
MW-20B NM
MW-20C 194.89
MW-20A 197.96
MW-3 193.00
MW-6 194.75
MW-21 NM
MW-22 NM
MW-18B 191.79
MW-18A 191.89
MW-19 203.24
TW-108 NM
TW-106 NM
TW-104 NM
TW-105 NM
TW-101 NM
TW-103 209.52
TW-107 202.20
MW-11 DRY
MW-23 NM
Remediation Influent
197
198
199
200
201
202
203
204
208
202
201
200
198
207
205
193
194
195
196
192
LEGEND
Background Well
Point of Compliance Well
Corrective Action System
Corrective Action Observation Well
Supplemental Well
Point of Exposure Well
Estimated Direction of Groundwater Flow
Estimated Potentiometric Surface (feet mean sea level (ft msl))
Branch Channel
Shallow Sand Unit Boundary
Parcel Boundary
Property Boundary
Waste Managment Areas
NM Not Measured
198.77 Groundwater elevation (ft msl)
Groundwater elevations collected 27 July 2015
STATE OF TEXAS
ROBERT M. APPELT
GEOLOGY
2168
LICENSED
PROFESSIONAL GEOSCIENTIST
3/24/16
0 250 500
Feet
SOURCE: Imagery (c) 2015 Microsoft Corporation and its data suppliers
WESTON SOLUTIONS
FIGURE 3
POTENTIOMETRIC SURFACE MAP
SEMI ANNUAL GROUNDWATER MONITORING REPORT
JULY THROUGH DECEMBER 2015
TEXAS ELECTRIC COOPERATIVES, INC
JASPER, TEXAS
DATE FEB 2016
PROJECT NO 10472.003.015.0004
SCALE AS SHOWN

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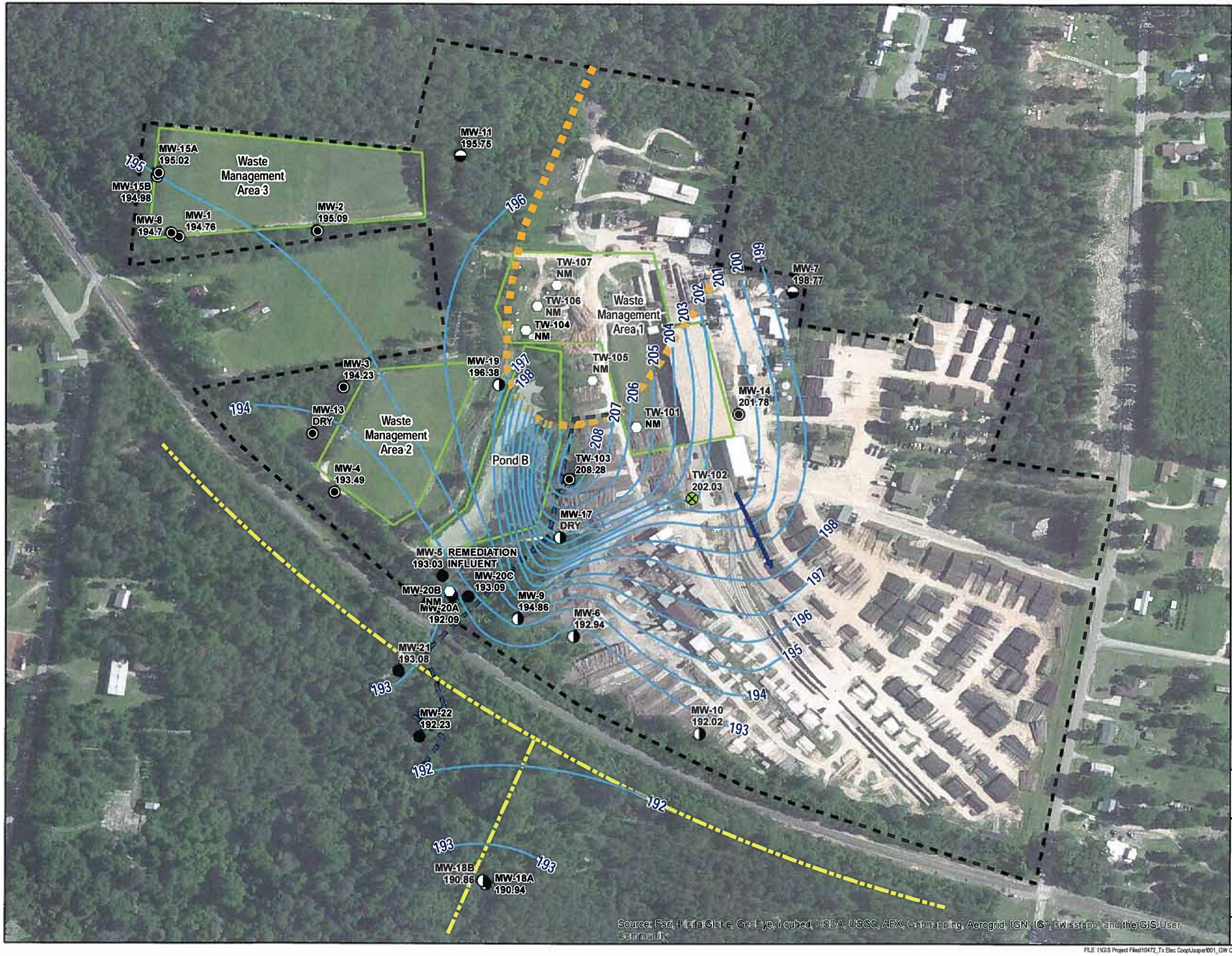


WESTON SOLUTIONS

FIGURE 3
POTENTIOMETRIC SURFACE MAP
SEMI ANNUAL GROUNDWATER MONITORING REPORT
JANUARY THROUGH JUNE 2015
TEXAS ELECTRIC COOPERATIVES, INC
JASPER, TEXAS

DATE	PROJECT NO.	SCALE
FEB 2016	10672.003.015.0003	AS SHOWN

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LEGEND

- Background Well
- Point of Compliance Well
- Corrective Action System
- Corrective Action Observation Well
- Supplemental Well
- Point of Exposure Well
- Estimated Direction of Groundwater Flow
- Estimated Potentiometric Surface (feet mean sea level (ft msl))
- Branch Channel
- Shallow Sand Unit
- Parcel Boundary
- Property Boundary
- Waste Managment Areas

NM Not Measured

192.3 Groundwater elevation (ft msl)

Groundwater elevations collected 22 July 2013

STATE OF TEXAS
ROBERT I. CHAPIN
GEOLOGY
451
LICENSED
PROFESSIONAL GEOSCIENTIST
02-26-14

N

0 250 500

Feet

SOURCE: Imagery (c) 2010 Microsoft Corporation and its data suppliers

WESTON SOLUTIONS

FIGURE 3
POTENTIOMETRIC SURFACE MAP
SEMI ANNUAL GROUNDWATER MONITORING REPORT
JULY THROUGH DECEMBER 2013
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS

DATE	PROJECT NO	SCALE
FEB 2014	10472.003.013.0003	AS SHOWN

FILE I:\GIS Project Files\10472_Tx Elec Coop\Jasper\001_GW Quarterly Report\mxd\Figure 3 Pot Map July-Dec 2013.mxd 1:32:47 PM 2/24/2014 pernit

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LEGEND

- Background Well
- Point of Compliance Well
- Corrective Action System
- Corrective Action Observation Well
- Supplemental Well
- Point of Exposure Well
- Estimated Naphthalene Isoconcentration (mg/L)
- Branch Channel
- Property Boundary
- Waste Managment Areas
- Shallow Sand Unit
- 0.025 Naphthalene Concentration (mg/L)
- NS Not Sampled

Groundwater samples collected
14 and 15 January 2013

STATE OF TEXAS
ROBERT T. CHAPIN
GEOLOGY
451
12/2/13
LICENSED
PROFESSIONAL GEOSCIENTIST

N

0 250 500
Feet

SOURCE Imagery (c) 2010 Microsoft Corporation and its data suppliers

WESTON SOLUTIONS

FIGURE 4
NAPHTHALENE CONCENTRATIONS MAP
SEMI ANNUAL GROUNDWATER MONITORING REPORT
JANUARY THROUGH JUNE 2013
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS

DATE	PROJECT NO	SCALE
SEP 2013	10472.003.013.0003	AS SHOWN

FILE: I:\GIS Project Files\10472_Tx Elec Coop\Jasper\001_GW Quarterly Report\mxd\Figure 4 Nap Map Jan-June 2013.mxd 11:43:24 AM 9/13/2013 perrint

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ATTACHMENT 8

HISTORIAL GROUNDWATER SAMPLING REPORTS

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August 1988 Quarterly Sampling Report

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31340

JONES AND NEUSE, INC.
Engineering and Environmental Consultants

September 26, 1988

Mr. Mike Moore
Solid and Hazardous Waste Division
Texas Water Commission
P.O. Box 13087
Austin, Texas 78711

Re: August 1988 Quarterly Sampling Results
Texas Electric Cooperatives
SWR No. 31340
JN107110

Dear Mr. Moore:

This correspondence is to report the ground water sampling results for the third quarter of 1988 at the above referenced facility. Included in this submittal are:

- Potentiometric Map of Static Water Levels for August 3, 1988
- Results of Historical Ground Water Sampling
- Laboratory Report Sheet for August 3, 1988 sampling

Should you have any questions, please contact either Charles Faulds, or me at 512/327-9840.

Sincerely,

JONES AND NEUSE, INC.

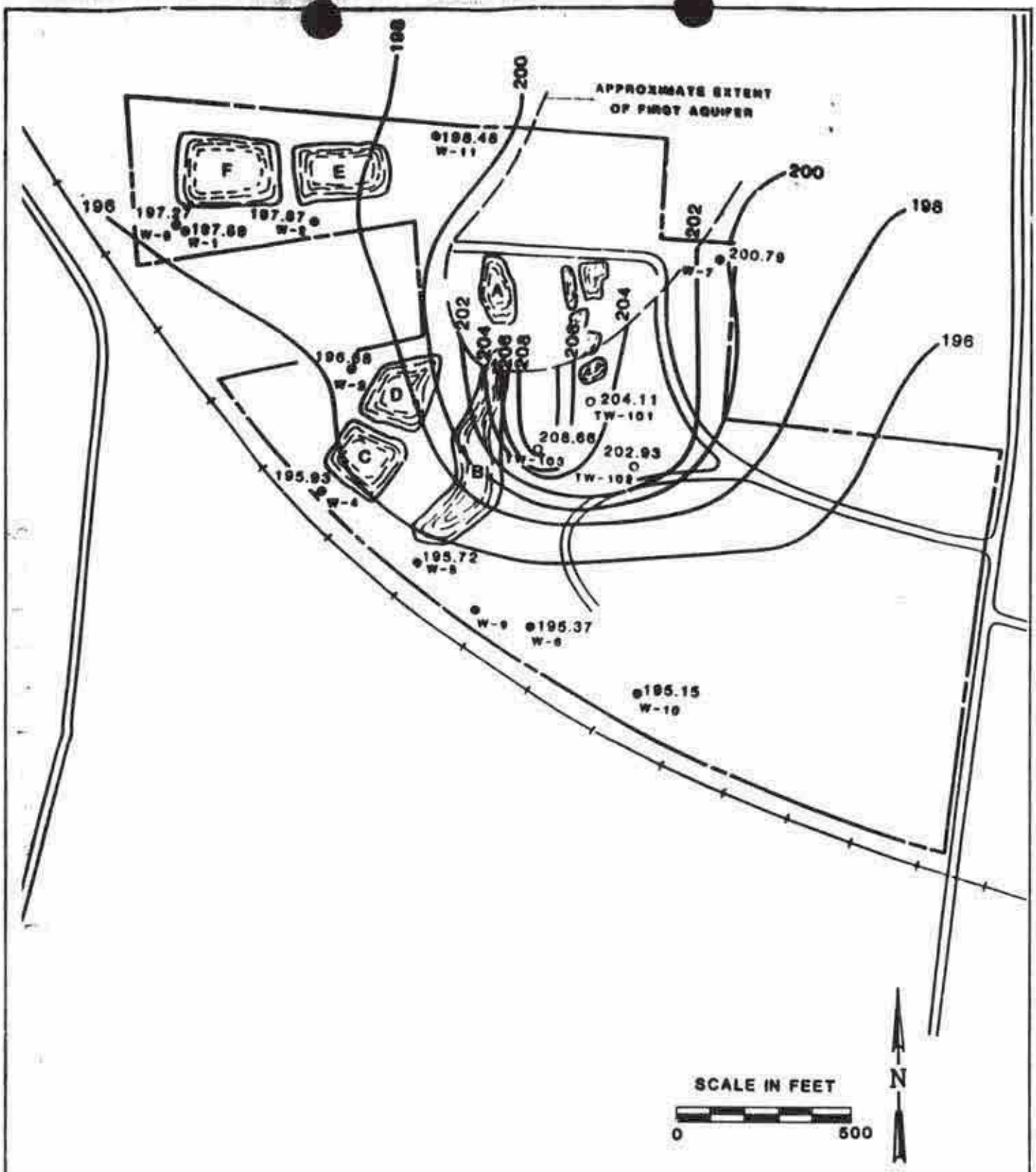
Robert L. Sherrill
Project Geologist

RLS/jls

cc: Randy Dorman - Texas Electric Cooperatives
Texas Water Commission - District 6 Office

DEC 27 88
TWC
CENTRAL RECORDS

2720 Bee Cave Road Austin, Texas 78746 512-327-9840



POTENTIOMETRIC MAP OF
STATIC WATER LEVELS FROM 8-3-88
TEXAS ELECTRIC CO-OP

JONES AND NEUSE, INC.
Engineering and Environmental
Consultants

DETECTION MONITORING WELLS
(all values in mg/L unless noted)

Parameter	Date	W-1	W-2	W-3	W-4	W-8	W-11
Total Organic Halogen	09-82	0.014	<0.01	0.013	0.011	<0.01	--
	05-03-83	<0.010	<0.01	<0.01	<0.01	<0.01	<0.01
	11-10-83	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	04-05-84	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	10-18-84	<0.01	<0.01	<0.01	--	<0.01	<0.01
	11-09-84	--	--	--	<0.01	--	--
	01-13-88	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	05-19-88	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	08-03-88	0.01	<0.01	<0.01	<0.01	0.01	0.01
Total Organic Carbon	09-82	<1	<1	1	<3	1	--
	05-03-83	<2	<2	<2	<2	<2	<2
	11-10-83	5	6	7	5	5	6
	04-05-84	5	5	5	4	5	6
	07-13-84	--	--	--	--	--	2
	10-18-84	<2	<2	<2	--	<2	<2
	11-09-84	--	--	--	5	--	--
	01-13-88	2	3	3	4	3	3
	05-19-88	1	1	1	1	1	1
	08-03-88	1	<1	<1	<1	<1	<1
pH (Standard Units)	09-82	5.6	5.6	5.7	5.9	5.7	--
	05-03-83	4.7	4.55	4.65	4.6	4.8	5.5
	11-10-83	5.6	5.2	5.3	5.2	5.6	5.6
	04-05-84	5.0	4.9	5.2	4.8	5.2	5.7
	07-13-84	--	--	--	--	--	6.5
	10-18-84	5.6	5.7	5.75	--	6.0	6.2
	11-09-84	--	--	--	6.1	--	--
	01-13-88	6.5	6.4	6.2	6.1	6.5	6.7
	05-19-88	5.7	7.0	5.7	5.47	5.77	6.1
	08-03-88	7.28	6.08	6.89	7.28	7.09	7.15
Specific Conductance	09-82	47	82	74	88	110	--
	05-03-83	43	43	75	97	110	91
	11-10-83	61	79	79	96	120	102
	04-05-84	88	87	99	--	108	108
	10-18-84	100	110	115	--	153	121
	11-09-84	--	--	--	146	--	--

DETECTION MONITORING WELLS
(all values in mg/L unless noted)
(continued)

Parameter	Date	W-1	W-2	W-3	W-4	W-8	W-11
	01-13-88	80	100	90	100	100	120
	05-19-88	58	120	110	110	130	130
	08-03-88	70	105	110	140	110	115

COMPLIANCE MONITORING WELLS
(all values in mg/L unless noted)

Parameter	Date	W-5	W-6	W-7	W-9	W-10
Arsenic	09-82	0.10	0.05	<0.02	--	--
	05-03-83	0.10	0.06	--	--	<0.01
	11-10-83	0.10	0.07	--	--	<0.01
	04-05-84	0.08	0.07	--	--	<0.01
	10-18-84	0.08	--	--	--	<0.01
	11-09-84	--	0.09	--	--	--
	03-24-87	0.063	0.066	0.004	<0.004	<0.004
	01-13-88	0.135	0.138	<0.01	<0.01	<0.01
	05-19-88	0.103	0.108	<0.01	<0.01	<0.01
	08-03-88	0.063	0.060	<0.01	<0.01	<0.01
Naphthalene	12-19-85	0.19	0.81	0.01	--	0.01
	03-23-87	0.246	0.544	<0.015	<0.015	<0.015
	01-13-88	0.1743	2.1347	<0.01	<0.01	<0.01
	05-19-88	0.2743	1.4536	<0.01	<0.01	<0.01
	08-03-88	0.294	1.147	<0.01	<0.015	<0.01
Acenaphthylene	03-23-87	<0.015	<0.015	<0.015	<0.015	<0.015
	01-13-88	<0.01	0.0102	<0.01	<0.01	<0.01
	05-19-88	<0.01	<0.01	<0.01	<0.01	<0.01
	08-03-88	<0.015	<0.01	<0.01	<0.015	<0.01
Fluorene	03-23-87	0.052	0.031	<0.015	<0.015	<0.015
	01-13-88	0.0302	0.0301	<0.01	<0.01	<0.01
	05-19-88	0.0524	0.0312	<0.01	<0.01	<0.01
	08-03-88	0.035	0.032	<0.01	<0.015	<0.01
Benzo(a)pyrene	12-19-88	0.020	0.050	0.010	--	0.010
	03-23-87	<0.015	<0.015	<0.015	<0.015	<0.015
	01-13-88	<0.010	<0.010	<0.010	<0.010	<0.010
	05-19-88	<0.010	<0.010	<0.010	<0.010	<0.010
	08-03-88	<0.015	<0.010	<0.010	<0.015	<0.010
Phenol	12-19-85	0.020	0.050	0.010	--	0.010
	03-23-87	<0.025	<0.025	<0.025	<0.025	<0.025
	01-13-88	<0.010	<0.010	<0.010	<0.010	<0.010
	05-19-88	<0.010	<0.010	<0.010	<0.010	<0.010
	08-03-88	<0.015	<0.010	<0.010	<0.015	<0.010

COMPLIANCE MONITORING WELLS
(all values in mg/L unless noted)
(continued)

Parameter	Date	W-5	W-6	W-7	W-9	W-10
2,4-Dimethyl Phenol	12-19-85	0.023	0.140	0.010	--	0.010
	03-23-87	<0.025	0.165	<0.025	<0.025	<0.025
	01-13-88	<0.010	0.4556	<0.010	<0.010	<0.010
	05-19-88	<0.010	<0.010	<0.010	<0.010	<0.010
	08-03-88	<0.015	0.030	<0.010	<0.015	<0.010
pH (standard units)	09-82	6.3	6.5	6.9	--	--
	05-03-83	5.4	5.7	--	5.0	5.9
	11-10-83	5.3	5.4	--	5.4	5.8
	04-05-84	5.7	5.9	6.3	5.1	6.2
	07-13-84	6.1	6.3	6.5	--	6.4
	11-09-84	6.0	--	6.5	5.55	6.2
	05-19-88	6.09	6.16	6.31	5.73	6.10
	08-03-88	6.69	6.63	6.76	6.98	6.88
Specific Conductance (m mhos/cm)	09-82	190	44	1500	--	--
	05-03-83	195	487	--	89	504
	11-10-83	196	200	--	88	524
	04-05-84	318	568	1380	107	540
	07-13-84	248	495	1440	--	452
	10-18-84	301	--	1571	110	524
	11-09-84	--	1473	--	--	--
	01-13-88	540	670	1000	98	950
	05-19-88	789	520	1200	74	580
	08-03-88	500	440	1100	120	410

Texas Electric Cooperatives
Mr. Randy V. Dorman
P. O. Box 510
Jasper, Texas 75951

SOUTHWESTERN LABORATORIES

File No. 2-8424-00
Report No. 88-1789
Report Date: 9/19/88

Project: Chemical analysis of water samples taken on 8/3/88 by Jones & Neuse, Inc. and transported to our lab on 8/4/88.

Parameters	W-1	W-2	W-3	W-4	W-5	W-6	W-7	W-8	W-9	W-10	W-11
Chemical Analysis											
Total Organic Halogen, mg/l	0.01	<0.01	<0.01	<0.01				0.01			0.01
Total Organic Carbon, mg/l	1	<1	<1	<1				<1			<1
Arsenic, mg/l					0.063	0.060	<0.010		<0.010	<0.010	
8001 Constituents											
Naphthalene, ug/l					294	1167	<10		<15	<10	
Acenaphthylene, ug/l					<15	<10	<10		<15	<10	
Fluorene, ug/l					35	52	<10		<15	<10	
Benzo(e)pyrene, ug/l					<15	<10	<10		<15	<10	
Phenol, ug/l					<15	<10	<10		<15	<10	
2,4-Dimethyl Phenol, ug/l					<15	30	<10		<15	<10	
Field Determination											
pH	7.28	6.08	6.89	7.28	6.69	6.63	6.79	7.09	6.98	6.88	7.15
Specific Conductance, umhos/cm	70	185	110	140	500	440	1100	110	120	410	115

jlh Reviewed By

SOUTHWESTERN LABORATORIES, INC.

Mark Tipton,
Analytical Lab Supervisor

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Draft July 1996 Semiannual Groundwater Sampling Report

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June 17, 1996

Mr. Charlie Faulds
Director of Environmental Services
The Association of Texas Electric Cooperatives
P.O. Box 9589
Austin, Texas 78766

Re: Texas Electric Cooperatives, Inc.
Draft July 1996 Semiannual Ground-Water Sampling Report
Solid Waste Registration No. 31340

Dear Charlie:

Enclosed please find one draft copy of the July 1996 Semiannual Ground-Water Sampling Report summarizing the ground-water compliance monitoring conducted at the Texas Electric Cooperatives, Inc. facility in Jasper during the January 1996 and April 1996 quarterly sampling events. Upon your review and comments, the report will be finalized and submitted with the attached correspondence to the Texas Natural Resource Conservation Commission.

Should you have any questions, please do not hesitate to contact Tracy Payne at 512-327-9840.

Sincerely,

RMT/JONES AND NEUSE, INC.

Robert L. Sherrill
Senior Project Manager

RLS/TP

Enclosure

RMT/JONES & NEUSE, INC.

RMT/JONES & NEUSE, INC. — AUSTIN, TX
912 CAPITAL OF TEXAS HIGHWAY SOUTH - SUITE 200 - 78746-5210
512/327-9840 - 512/327-6163 FAX

TEXAS ELECTRIC COOPERATIVES, INC.
JULY 1996 SEMIANNUAL
GROUND-WATER SAMPLING REPORT
SOLID WASTE REGISTRATION NO. 31340

© 1996 RMT/Jones and Neuse, Inc.

DRAFT LETTER

Ms. Wendy Rozacky, Manager
Enforcement Section
Hazardous and Solid Waste Division
Texas Natural Resource Conservation Commission
P.O. Box 13087, Capital Station
Austin, Texas 78711-3087

Re: Texas Electric Cooperatives, Inc.
July 1996 Semiannual Ground-Water Sampling Report
Solid Waste Registration No. 31340

Dear Ms. Rozacky:

Contained herein is the semiannual report for both the Compliance and Detection ground-water monitoring activities conducted at Texas Electric Cooperatives, Inc. (TEC) in Jasper, Texas. Included in this semiannual submittal for the January and April, 1996 quarterly sampling events are the following:

Attachment I - Narrative discussion of the quarterly sampling events;

Attachment II - Potentiometric maps generated from data collected during the first two quarterly sampling events in 1996;

Attachment III - Summary of the ground-water characteristics;

Attachment IV - Summary of the historical fluid levels;

Attachment V - Summary of analytical data by well (includes historical analytical data and graphs of analytical data for selected wells); and

Attachment VI - Field data sheets, laboratory reports sheets, and chain-of-custody sheets for the January and April, 1996 sampling events.

Should you have any questions, please do not hesitate to contact me at (512) 327-9840.

Sincerely,

RMT/JONES AND NEUSE, INC.

Robert L. Sherrill
Project Manager

RLS/TP/bn

Attachments

cc: Mr. Charles Faulds, Texas Electric Cooperatives, Inc., Austin
Mr. Randy Dorman, Texas Electric Cooperatives, Inc., Jasper
Texas Natural Resource Conservation Commission, Region 10 Office, Beaumont
Mr. Chip Volz, RMT/Jones and Neuse, Inc., Nederland

ATTACHMENT I

NARRATIVE DISCUSSION OF THE QUARTERLY GROUND-WATER SAMPLING EVENTS

NARRATIVE DISCUSSION OF THE QUARTERLY GROUND-WATER SAMPLING EVENTS

Sampling Frequency

The quarterly sampling events addressed by this report are as follows:

- January, 1996 - First Quarter 1996 Sampling Event, and
- April, 1996 - Second Quarter 1996 Sampling Event.

Analytical and Field Parameters

The analytical results for samples obtained from four of the monitor wells (TW-101, TW-102, TW-103, and W-5) during the quarterly sampling events in 1994 and the beginning of 1995 showed deviations from historical quarterly ground-water sampling events. As stated in the January, 1996 Semiannual report, the constituents appeared to be decreasing in each well. The analytical data reported for the first and second sampling events of 1995 also indicate further decrease in the concentrations of the constituents in these wells. The constituents detected in the ground-water samples from TW-101, TW-102, TW-103, and W-5 are typically found in product creosote. Therefore, it would not be unusual to periodically detect these constituents (in addition to the primary indicator constituent naphthalene) in the ground-water samples from the monitor wells. A summary of the deviations by well is presented as follows:

TW-101 As previously reported in the January 1996 semiannual report, the analytical data obtained during 1995 indicated a decrease in the concentration of naphthalene from the first sampling event (February, 1995) with a reported analytical value of 17.6 mg/L to the fourth sampling event (October, 1995) with a reported concentration of 5.4 mg/L. The analytical results from the first quarter in 1996 reflected the decreasing trend with a value of 4.24 mg/L being reported. The results from the second quarter sampling event were reported to be slightly higher (4.56 mg/L) than the first quarter's results.

The reported concentrations for the constituent phenanthrene indicate a decrease from the third sampling event in 1995 (1.34 mg/L) to the most recent event in 1996 (0.892 mg/L).

As stated in the January, 1996 report, the concentrations in TW-101 for the constituent fluoranthene indicated a gradual increase from the third sampling event (0.398 mg/L) to the fourth sampling event (0.508 mg/L) of 1995. However, the first and second quarter sampling events indicate a decrease in the concentration with the values being reported as 0.36 mg/l for January, 1996 and 0.292 mg/L for April, 1996.

The constituent carbazole was detected during the second sampling event at a concentration of 0.285 mg/L. This constituent was not detected during the first quarterly sampling event in January, 1996. A review of the analytical data indicates that in 1994 and 1995 the constituent carbazole was not detected during the first quarterly sampling events. However, during 1994 and 1995 carbazole was detected during the second and third sampling events. The analytical data for the fourth quarters in 1994 and 1995 did not have reportable quantities of carbazole.

TW-103 The constituent naphthalene was detected during the second sampling event in April,1996 at a concentration of 0.0248 mg/L. No other constituents were detected during the first two sampling events.

W-5 The analytical data for arsenic from the first sampling event (0.036 mg/L) and the second sampling event (0.037 mg/L) indicate a slight increase in the concentration from the fourth sampling event in 1995 (0.030 mg/L). Carbazole and phenol were detected in concentrations above the reportable quantity during the January 1996 sampling event. However, these constituents were not detected during the April, 1996 sampling event. The constituent 2,4-dimethylphenol was detected in January, 1996 (0.45 mg/L) and April, 1996 (0.143 mg/L). 2,4-dimethylphenol was not detected during the October, 1995 sampling event, however, it has been detected in W-5 for the last three years.

check histor. As.

W-6 The analytical data obtained during the first quarterly sampling event indicated a decrease in the concentration of arsenic. The reported concentration for the October event was 0.077 mg/L and decreased to 0.07 mg/L for the January, 1996 sampling event. However, an increase in the concentration occurred during the April, 1996 sampling event with a value of 0.082 mg/L being reported. At this time the elevated

arsenic concentration in the ground water from W-6 cannot be readily explained. Since the Jasper facility did not use arsenic as a wood preservative, the source of the arsenic constituent is unknown.

These recently reported values will be compared to the concentrations obtained in the future from the third and fourth quarterly sampling events in 1996. The results of the comparison will be reported in the next semiannual report.

In addition, the analytical data for the October sampling event reported concentrations of total organic carbon above the detection limit for five of the six monitor wells located in the Closed Area III Detection System. None of the five wells (W-2, W-8, W-11, W-15A, and W-15B) have ever had TOC concentrations reported above the detection limit of 1.0 mg/L. These reported values are considered to be an anomaly since the analytical data from the first and second quarterly sampling events in 1996 did not report concentrations above the detectable limit.

During both quarterly sampling events, monitor wells W-12, W-16, and W-17 were bailed dry and did not recover sufficiently to allow a sample to be collected. Each of these wells bail dry and are extremely slow to recover due to their positioning within the clay levee deposits portion of the aquifer. The aquifer material matrix in this area is not considered as "transmissive" because of its low permeability. Ground-water movement from the matrix material to the well is primarily the result of pore-space water drainage due to the pressure gradient from the aquifer material to the well annulus.

Measurement of Phase-Separated Liquid

During the first two quarterly sampling events dense, non-aqueous phase liquid (DNAPL) was not detected in any of the monitor wells.

see 101 field log

Recovery of Product

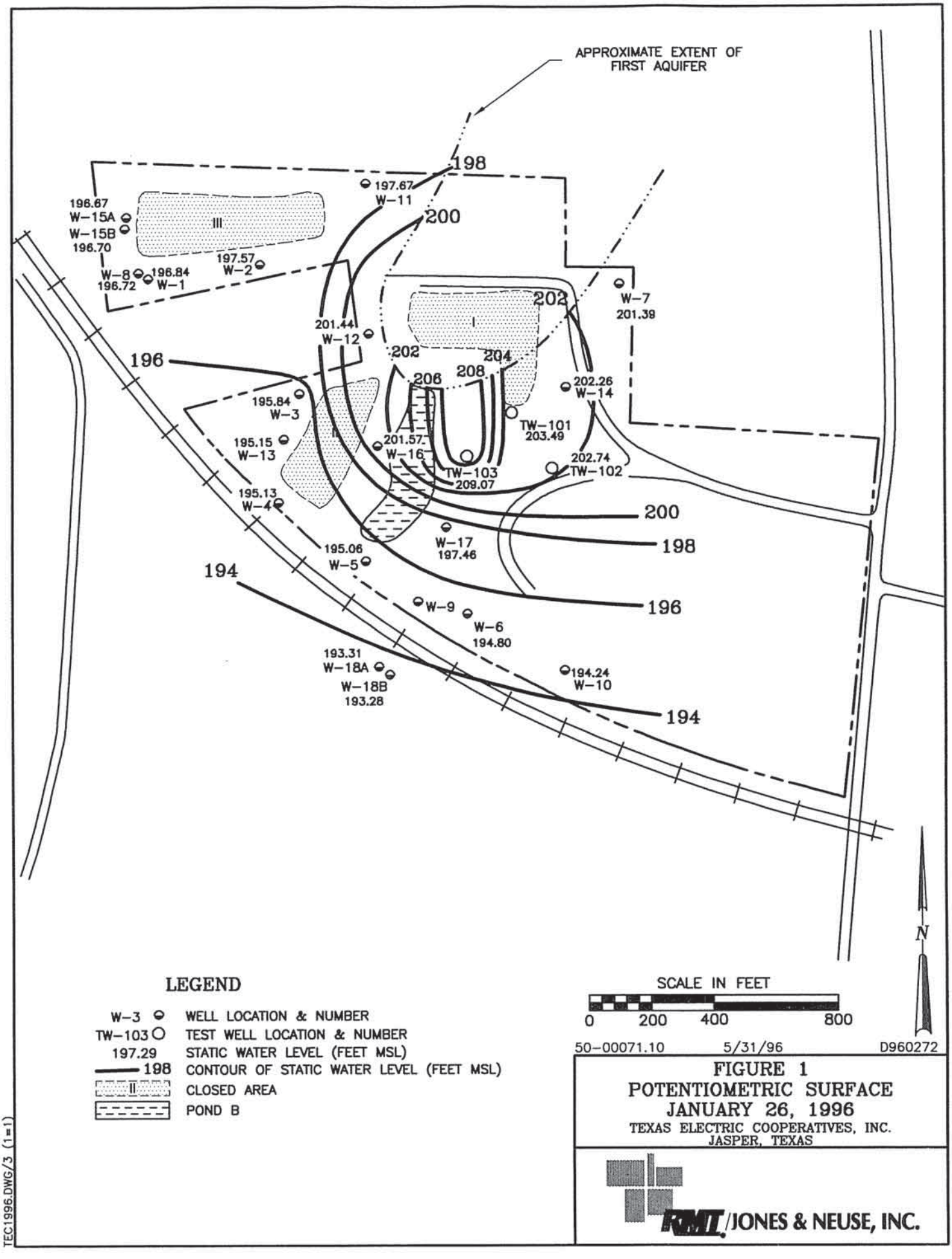
TEC is completing a biological treatment system for process wastewater. It is anticipated that by the end of the third quarter in 1996 this system will be completed and monitor well TW-101 will be converted to a recovery well. Upon completion of the system, TEC will begin to recover ground water from TW-101.

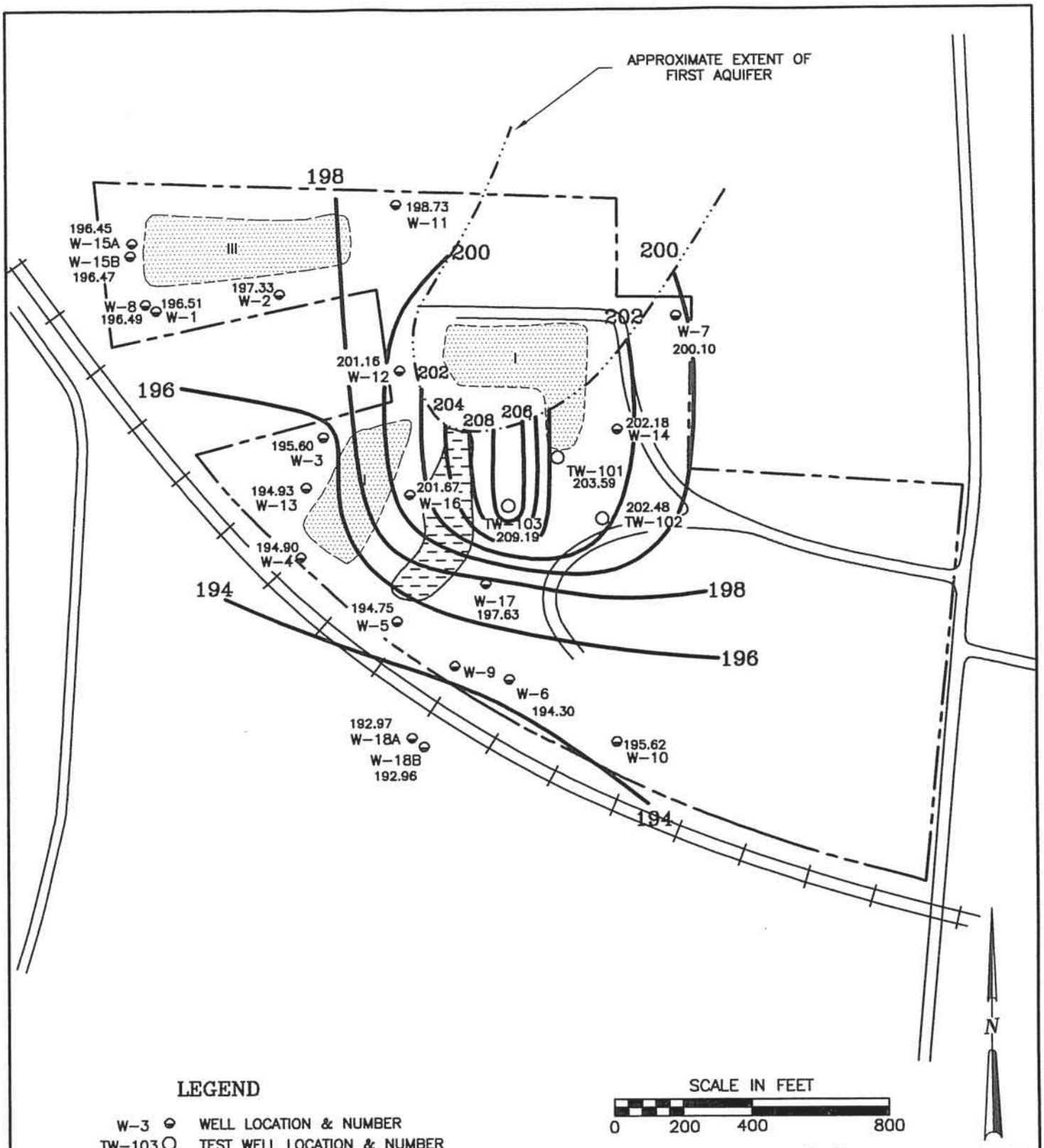
Leachate Detection System

An inspection of the leachate detection system in the Area III system was conducted during the January and April, 1996 quarterly sampling events. Liquids were detected in each system during both sampling events. Since the clays were constructed at or near optimum moisture content, it is believed that the water was present due to the saturated clay adjacent to the system.

ATTACHMENT II

POTENTIOMETRIC SURFACE MAPS


APPROXIMATE EXTENT OF FIRST AQUIFER
198
197.67
W-11
200
196.67
W-15A
W-15B
196.70
III
197.57
W-2
W-8
196.72
196.84
W-1
202
W-7
201.39
201.44
W-12
I
196
202
204
206
208
202.26
W-14
195.84
W-3
TW-101
203.49
195.15
W-13
201.57
W-16
TW-103
209.07
202.74
TW-102
195.13
W-4
200
198
W-17
197.46
195.06
W-5
194
196
W-9
W-6
194.80
193.31
W-18A
W-18B
193.28
194.24
W-10
194
N
LEGEND
W-3 WELL LOCATION & NUMBER
TW-103 TEST WELL LOCATION & NUMBER
197.29 STATIC WATER LEVEL (FEET MSL)
198 CONTOUR OF STATIC WATER LEVEL (FEET MSL)
II CLOSED AREA
POND B
SCALE IN FEET
0 200 400 800
50-00071.10 5/31/96 D960272
FIGURE 1
POTENTIOMETRIC SURFACE
JANUARY 26, 1996
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS
RMT/JONES & NEUSE, INC.
TEC1996.DWG/3 (1=1)



50-00071.10 1/10/96 D960272

FIGURE 2
POTENTIOMETRIC SURFACE
APRIL 30, 1996
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS

RMT/JONES & NEUSE, INC.

TECP196.DWG/3 (1=1)

ATTACHMENT III

SUMMARY OF THE GROUND-WATER CHARACTERISTICS

SUMMARY OF GROUND-WATER CHARACTERISTICS
Texas Electric Cooperatives, Inc. - Jasper Facility

AREA	MEASUREMENT	UNIT	WELL NUMBER	QUARTERLY SAMPLING EVENT				AVERAGES
				JANUARY	APRIL	JULY	OCTOBER	
1	Water Level	ft-MSL	TW-103	209.07	209.19			209.13
	Water Level	ft-MSL	W-14	202.26	202.18			202.22
	Gradient	ft/ft	---	0.0175	0.0180			0.0177
	Velocity	ft/day	---	11.92	12.27			12.10
2	Water Level	ft-MSL	TW-103	209.07	209.19			209.13
	Water Level	ft-MSL	W-4	195.13	194.90			195.02
	Gradient	ft/ft	---	0.0225	0.0230			0.0228
	Velocity	ft/day	---	15.35	15.73			15.54
3	Water Level	ft-MSL	W-11	197.67	198.73			198.20
	Water Level	ft-MSL	W-15A	196.67	196.45			196.56
	Gradient	ft/ft	---	0.0013	0.0029			0.0021
	Velocity	ft/day	---	0.88	2.00			1.44

Distance: TW-103 TO W-14 = 390'
TW-103 TO W-4 = 620'
W-11 TO W-15A = 780'

$K = 1280\ GPD/FT^2$
$n = 25\%$

ATTACHMENT IV

SUMMARY OF THE HISTORICAL FLUID LEVELS

SUMMARY OF HISTORICAL FLUID LEVELS
Texas Electric Cooperatives, Inc. - Jasper Facility

WELL NO.	TOP OF CASING (msl)	JAN-1988 FIRST QUARTER		MAY-1988 SECOND QUARTER		AUG-1988 THIRD QUARTER		NOV-1988 FOURTH QUARTER	
		(bTOC)	(msl)	(bTOC)	(msl)	(bTOC)	(msl)	(bTOC)	(msl)
W-1	246.84	49.42	197.42	48.83	198.01	49.25	197.59	49.91	196.93
W-2	247.69	50.03	197.66	49.38	198.31	49.82	197.87	50.50	197.19
W-3	239.41	42.85	196.56	42.56	196.85	42.73	196.68	43.45	195.96
W-4	237.58	41.65	195.93	41.17	196.41	41.65	195.93	42.37	195.21
W-5	221.51	25.69	195.82	25.19	196.32	25.79	195.72	26.55	194.96
W-6	230.00	34.53	195.47	34.06	195.94	34.63	195.37	35.49	194.51
W-7	250.89	50.53	200.36	50.38	200.51	50.10	200.79	50.28	200.61
W-8	245.92	48.59	197.33	48.14	197.78	48.65	197.27	49.06	196.86
W-9	221.75	25.25	196.50	24.96	196.79	25.59	196.16	26.34	195.41
W-10	239.24	44.11	195.13	43.75	195.49	44.09	195.15	46.08	193.16
W-11	231.44	33.11	198.33	32.46	198.98	32.96	198.48	33.55	197.89

(msl) = Elevation In Mean Sea Level Feet (bTOC) = Measurement In Feet Below Top Of Well Casing

SUMMARY OF HISTORICAL FLUID LEVELS

Texas Electric Cooperatives, Inc. - Jasper Facility

WELL NO.	TOP OF CASING (msl)	FEB-1989 FIRST QUARTER		APR-1989 SECOND QUARTER		SEP-1989 THIRD QUARTER		DEC-1989 FOURTH QUARTER	
		(bTOC)	(msl)	(bTOC)	(msl)	(bTOC)	(msl)	(bTOC)	(msl)
W-1	246.84	50.41	196.43	49.89	196.95	49.37	197.47	49.83	197.01
W-2	247.69	50.93	196.76	50.44	197.25	49.72	197.97	50.31	197.38
W-3	239.41	43.88	195.53	43.36	196.05	42.64	196.77	43.34	196.07
W-4	237.58	47.70	189.88	42.22	195.36	41.55	196.03	42.24	195.34
W-5	221.51	26.82	194.69	26.09	195.42	25.52	195.99	26.36	195.15
W-6	230.00	35.74	194.26	35.84	194.16	34.48	195.52	36.11	193.89
W-7	250.89	50.56	200.33	49.40	201.49	50.37	200.52	50.69	200.20
W-8	245.92	48.56	197.36	49.05	196.87	48.40	197.52	49.03	196.89
W-9	221.75	26.00	195.75	35.00	186.75	25.62	196.13	35.29	186.46
W-10	239.24	45.86	193.38	44.54	194.70	43.90	195.34	44.84	194.40
W-11	231.44	34.00	197.44	33.64	197.80	32.95	198.49	33.57	197.87

(msl) = Elevation In Mean Sea Level Feet (bTOC) = Measurement In Feet Below Top Of Well Casing

SUMMARY OF HISTORICAL FLUID LEVELS

Texas Electric Cooperatives, Inc. - Jasper Facility

WELL NO.	TOP OF CASING (msl)	MAR-1990 FIRST QUARTER		APR-1990 SECOND QUARTER		SEP-1990 THIRD QUARTER		OCT-1990 FOURTH QUARTER	
		(bTOC)	(msl)	(bTOC)	(msl)	(bTOC)	(msl)	(bTOC)	(msl)
W-1	246.84	49.83	197.01	49.26	197.58	49.42	197.42	49.86	196.98
W-2	247.69	49.82	197.87	49.47	198.22	49.28	198.41	49.90	197.79
W-3	239.41	42.86	196.55	42.47	196.94	42.97	196.44	43.48	195.93
W-4	237.58	41.65	195.93	41.37	196.21	42.10	195.48	42.31	195.27
W-5	221.51	25.90	195.61	25.53	195.98	25.63	195.88	26.58	194.93
W-6	230.00	34.46	195.54	35.25	194.75	34.70	195.30	35.10	194.90
W-7	250.89	50.22	200.67	50.46	200.43	50.83	200.06	50.55	200.34
W-8	245.92	48.58	197.34	48.36	197.56	48.68	197.24	48.98	196.94
W-9	221.75	25.21	196.54	25.00	196.75	25.75	196.00	26.57	195.18
W-10	239.24	43.61	195.63	43.13	196.11	44.40	194.84	44.88	194.36
W-11	231.44	33.13	198.31	32.93	198.51	33.16	198.28	33.56	197.88

(msl) = Elevation In Mean Sea Level Feet (bTOC) = Measurement In Feet Below Top Of Well Casing

SUMMARY OF HISTORICAL FLUID LEVELS
Texas Electric Cooperatives, Inc. - Jasper Facility

WELL NO.	TOP OF CASING (msl)	MAR-1991 FIRST QUARTER		MAY-1991 SECOND QUARTER		SEP-1991 THIRD QUARTER		DEC-1991 FOURTH QUARTER	
		(bTOC)	(msl)	(bTOC)	(msl)	(bTOC)	(msl)	(bTOC)	(msl)
W-1	246.84	49.47	197.37	49.05	197.79	48.74	198.10	49.00	197.84
W-2	247.69	49.48	198.21	49.07	198.62	48.72	198.97	49.00	198.69
W-3	239.41	43.00	196.41	42.32	197.09	42.05	197.36	42.50	196.91
W-4	237.58	41.73	195.85	41.12	196.46	41.74	195.84	41.30	196.28
W-5	221.51	24.56	196.95	25.06	196.45	25.35	196.16	25.50	196.01
W-6	230.00	33.55	196.45	33.87	196.13	34.17	195.83	34.30	195.70
W-7	250.89	50.32	200.57	50.23	200.66	49.93	200.96	50.00	200.89
W-8	245.92	48.53	197.39	48.19	197.73	47.86	198.06	48.20	197.72
W-9	221.75	26.17	195.58	25.76	195.99	25.00	196.75	25.00	196.75
W-10	239.24	43.95	195.29	43.44	195.80	43.73	195.51	43.70	195.54
W-11	231.44	33.09	198.35	32.73	198.71	32.31	199.13	32.55	198.89
W-12	227.86	Not Installed		Not Installed		Not Installed		27.10	200.76
W-13	238.91	Not Installed		Not Installed		Not Installed		42.70	196.21
W-14	245.76	Not Installed		Not Installed		Not Installed		42.90	202.86
W-15A	243.59	Not Installed		Not Installed		Not Installed		46.20	197.39
W-15B	243.61	Not Installed		Not Installed		Not Installed		46.90	196.71
W-16	232.42	Not Installed		Not Installed		Not Installed		31.20	201.22
W-17	227.66	Not Installed		Not Installed		Not Installed		29.15	198.51
W-18A	230.47	Not Installed		Not Installed		Not Installed		36.20	194.27
W-18B	230.28	Not Installed		Not Installed		Not Installed		36.00	194.28
TW-101	234.49	30.42	204.07	30.56	203.93	30.47	204.02	30.30	204.19
TW-102	240.26	37.21	203.05	37.20	203.06	37.48	202.78	37.00	203.26
TW-103	228.72	24.65	204.07	16.85	211.87	17.91	210.81	18.25	210.47

(msl) = Elevation In Mean Sea Level Feet (bTOC) = Measurement In Feet Below Top Of Well Casing

SUMMARY OF HISTORICAL FLUID LEVELS
Texas Electric Cooperatives, Inc. - Jasper Facility

WELL NO.	TOP OF CASING (msl)	MAR-1992 FIRST QUARTER		JUN-1992 SECOND QUARTER		SEP-1992 THIRD QUARTER		DEC-1992 FOURTH QUARTER	
		(bTOC)	(msl)	(bTOC)	(msl)	(bTOC)	(msl)	(bTOC)	(msl)
W-1	246.84	48.32	198.52	48.27	198.57	49.95	196.89		
W-2	247.69	48.47	199.22	48.22	199.47	49.00	198.69		
W-3	239.41	41.65	197.76	41.56	197.85	42.51	196.90		
W-4	237.58	40.15	197.43	40.42	197.16	41.45	196.13		
W-5	221.51	24.10	197.41	24.41	197.10	25.61	195.90		
W-6	230.00	32.16	197.84	33.22	196.78	34.50	195.50		
W-7	250.89	50.23	200.66	50.00	200.89	50.21	200.68		
W-8	245.92	47.30	198.62	47.30	198.62	49.70	196.22		
W-9	221.75	23.91	197.84	24.15	197.60	25.40	196.35		
W-10	239.24	42.39	196.85	42.91	196.33	44.12	195.12		
W-11	231.44	32.22	199.22	31.85	199.59	33.00	198.44		
W-12	227.86	25.45	202.41	24.59	203.27	26.95	200.91		
W-13	238.91	41.84	197.07	41.76	197.15	42.86	196.05		
W-14	245.76	43.15	202.61	43.18	202.58	43.92	201.84		
W-15A	243.59	45.11	198.48	44.95	198.64	46.31	197.28		
W-15B	243.61	45.38	198.23	44.95	198.66	45.80	197.81		
W-16	232.42	30.90	201.52	30.90	201.52	31.90	200.52		
W-17	227.66	28.60	199.06	28.89	198.77	29.96	197.70		
W-18A	230.47	34.44	196.03	35.22	195.25	36.53	193.94		
W-18B	230.28	34.24	196.04	35.22	195.06	36.31	193.97		
TW-101	234.49	30.58	203.91	30.42	203.97	30.61	203.78		
TW-102	240.26	37.35	202.91	37.29	202.97	37.41	202.85		
TW-103	228.72	16.59	212.13	16.90	211.82	18.50	210.22		

(msl) = Elevation In Mean Sea Level Feet (bTOC) = Measurement In Feet Below Top Of Well Casing

* Water level indicator malfunctioned during sampling event resulting in erroneous water level measurements.

SUMMARY OF HISTORICAL FLUID LEVELS
Texas Electric Cooperatives, Inc. - Jasper Facility

WELL NO.	TOP OF CASING (msl)	MAR-1993 FIRST QUARTER		JUN-1993 SECOND QUARTER		SEP-1993 THIRD QUARTER		DEC-1993 FOURTH QUARTER	
		(bTOC)	(msl)	(bTOC)	(msl)	(bTOC)	(msl)	(bTOC)	(msl)
W-1	246.84	48.90	197.94	48.70	198.14	49.18	197.66	49.41	197.43
W-2	247.69	48.90	198.79	48.73	198.96	49.20	198.49	49.45	198.24
W-3	239.41	42.10	197.31	42.14	197.27	42.68	196.73	42.95	196.46
W-4	237.58	41.00	196.58	41.00	196.58	41.55	196.03	41.84	195.74
W-5	221.51	24.90	196.61	25.08	196.43	25.70	195.81	25.90	195.61
W-6	230.00	33.80	196.20	33.85	196.15	34.30	195.70	34.75	195.25
W-7	250.89	49.70	201.19	50.50	200.39	50.25	200.64	49.50	201.39
W-8	245.92	48.00	197.92	47.83	198.09	48.25	197.67	48.54	197.38
W-9	221.75	24.80	196.95	24.90	196.85	25.60	196.15	25.61	196.14
W-10	239.24	43.40	195.84	43.41	195.83	44.60	194.64	44.43	194.81
W-11	231.44	32.50	198.94	32.37	199.07	32.80	198.64	33.12	198.32
W-12	227.86	23.25	204.61	26.67	201.19	26.70	201.16	25.22	202.64
W-13	238.91	42.60	196.31	42.35	196.56	42.90	196.01	43.15	195.76
W-14	245.76	43.10	202.66	43.13	202.63	43.30	202.46	42.80	202.96
W-15A	243.59	45.70	197.89	45.55	198.04	46.02	197.57	46.25	197.34
W-15B	243.61	45.70	197.91	45.56	198.05	46.00	197.61	46.25	197.36
W-16	232.42	DRY		30.60	201.82	DRY		30.80	201.62
W-17	227.66	29.20	198.46	29.15	198.51	29.95	197.71	29.49	198.17
W-18A	230.47	35.80	194.67	35.87	194.60	36.90	193.57	36.75	193.72
W-18B	230.28	35.80	194.48	35.66	194.62	36.40	193.88	36.57	193.71
TW-101	234.49	30.30	204.19	30.40	204.09	30.60	203.89	30.28	204.21
TW-102	240.26	37.10	203.16	37.20	203.06	37.50	202.76	37.30	202.96
TW-103	228.72	16.70	212.02	17.13	211.59	18.75	209.97	18.25	210.47

(msl) = Elevation In Mean Sea Level Feet (bTOC) = Measurement In Feet Below Top Of Well Casing

SUMMARY OF HISTORICAL FLUID LEVELS

Texas Electric Cooperatives, Inc. - Jasper Facility

WELL NO.	TOP OF CASING (msl)	MAR-1994 FIRST QUARTER		MAY-1994 SECOND QUARTER		JULY-1994 THIRD QUARTER		OCTOBER-1994 FOURTH QUARTER	
		(bTOC)	(msl)	(bTOC)	(msl)	(bTOC)	(msl)	(bTOC)	(msl)
W-1	246.84	49.25	197.59	48.92	197.92	49.17	197.67	49.68	197.16
W-2	247.69	49.26	198.43	48.99	198.70	49.19	198.50	49.72	197.97
W-3	239.41	42.67	196.74	42.35	197.06	42.65	196.76	43.16	196.25
W-4	237.58	41.45	196.13	41.17	196.41	41.52	196.06	42.02	195.56
W-5	221.51	25.35	196.16	25.05	196.46	25.64	195.87	26.00	195.51
W-6	230.00	34.31	195.69	33.93	196.07	34.37	195.63	34.83	195.17
W-7	250.89	50.20	200.69	50.10	200.79	50.23	200.66	50.56	200.33
W-8	245.92	48.35	197.57	48.03	197.89	48.28	197.64	48.80	197.12
W-9	221.75	25.23	196.52	24.93	196.82	25.60	196.15	25.82	195.93
W-10	239.24	43.92	195.32	43.00	196.24	44.10	195.14	44.55	194.69
W-11	231.44	32.93	198.51	32.63	198.81	32.84	198.60	33.37	198.07
W-12	227.86	26.68	201.18	25.50	202.36	26.70	201.16	26.71	201.15
W-13	238.91	42.80	196.11	42.52	196.39	42.82	196.09	43.34	195.57
W-14	245.76	43.19	202.57	43.15	202.61	43.17	202.59	43.45	202.31
W-15A	243.59	46.90	196.69	45.80	197.79	45.98	197.61	46.52	197.07
W-15B	243.61	46.50	197.11	45.80	197.81	45.98	197.63	46.52	197.09
W-16	232.42	30.60	201.82	30.62	201.80	DRY		DRY	
W-17	227.66	29.40	198.26	29.30	198.36	29.40	198.26	29.93	197.73
W-18A	230.47	36.00	194.47	35.77	194.70	36.40	194.07	36.76	193.71
W-18B	230.28	35.85	194.43	35.57	194.71	36.20	194.08	36.55	193.73
TW-101	234.49	30.50	203.99	30.50	203.99	30.35	204.14	30.92	203.57
TW-102	240.26	37.28	202.98	37.35	202.91	37.31	202.95	37.60	202.66
TW-103	228.72	17.50	211.22	17.49	211.23	18.00	210.72	19.10	209.62

(msl) = Elevation In Mean Sea Level Feet (bTOC) = Measurement In Feet Below Top Of Well Casing

SUMMARY OF HISTORICAL FLUID LEVELS
Texas Electric Cooperatives, Inc. - Jasper Facility

WELL NO.	TOP OF CASING (msl)	FEB-1995 FIRST QUARTER		APRIL-1995 SECOND QUARTER		JULY-1995 THIRD QUARTER		OCTOBER-1995 FOURTH QUARTER	
		(bTOC)	(msl)	(bTOC)	(msl)	(bTOC)	(msl)	(bTOC)	(msl)
W-1	246.84	49.43	197.41	48.99	197.85	48.95	197.89	49.57	197.27
W-2	247.69	49.46	198.23	49.05	198.64	49.02	198.67	49.61	198.08
W-3	239.41	42.89	196.52	42.45	196.96	42.48	196.93	43.12	196.29
W-4	237.58	41.70	195.88	41.21	196.37	41.33	196.25	42.03	195.55
W-5	221.51	25.60	195.91	25.20	196.31	25.47	196.04	26.02	195.49
W-6	230.00	34.45	195.55	34.00	196.00	34.15	195.85	35.00	195.00
W-7	250.89	50.17	200.72	50.09	200.80	50.15	200.74	50.30	200.59
W-8	245.92	48.56	197.36	48.14	197.78	48.11	197.81	48.67	197.25
W-9	221.75	25.35	196.40	24.98	196.77	25.30	196.45	26.05	195.70
W-10	239.24	44.02	195.22	43.62	195.62	43.75	195.49	44.75	194.49
W-11	231.44	33.14	198.30	32.71	198.73	32.67	198.77	33.27	198.17
W-12	227.86	26.70	201.16	26.70	201.16	26.70	201.16	26.68	201.18
W-13	238.91	43.07	195.84	42.60	196.31	42.67	196.24	43.30	195.61
W-14	245.76	43.10	202.66	43.09	202.67	43.27	202.49	43.24	202.52
W-15A	243.59	46.30	197.29	45.87	197.72	45.82	197.77	46.38	197.21
W-15B	243.61	46.30	197.31	45.87	197.74	45.82	197.79	46.37	197.24
W-16	232.42	DRY		DRY		DRY		DRY	
W-17	227.66	29.67	197.99	29.27	198.39	29.47	198.19	29.87	197.79
W-18A	230.47	36.35	194.12	35.82	194.65	36.25	194.22	37.00	193.47
W-18B	230.28	36.14	194.14	35.63	194.65	36.00	194.28	36.82	193.46
TW-101	234.49	30.63	203.86	30.28	204.21	30.30	204.19	30.37	204.12
TW-102	240.26	37.32	202.94	37.06	203.20	37.38	202.88	37.44	202.82
TW-103	228.72	17.95	210.77	16.72	212.00	18.17	210.55	19.11	209.61

(msl) = Elevation In Mean Sea Level Feet (bTOC) = Measurement In Feet Below Top Of Well Casing

SUMMARY OF HISTORICAL FLUID LEVELS
Texas Electric Cooperatives, Inc. - Jasper Facility

WELL NO.	TOP OF CASING (msl)	JANUARY-1996 FIRST QUARTER		APRIL-1996 SECOND QUARTER		JULY-1996 THIRD QUARTER		OCTOBER-1996 FOURTH QUARTER	
		(bTOC)	(msl)	(bTOC)	(msl)	(bTOC)	(msl)	(bTOC)	(msl)
W-1	246.84	50.00	196.84	50.33	196.51				
W-2	247.69	50.12	197.57	50.36	197.33				
W-3	239.41	43.57	195.84	43.81	195.60				
W-4	237.58	42.45	195.13	42.68	194.90				
W-5	221.51	26.45	195.06	26.76	194.75				
W-6	230.00	35.20	194.80	35.70	194.30				
W-7	250.89	49.50	201.39	50.79	200.10				
W-8	245.92	49.20	196.72	49.43	196.49				
W-9	221.75	26.25	195.50	24.98	196.77				
W-10	239.24	45.00	194.24	43.62	195.62				
W-11	231.44	33.77	197.67	32.71	198.73				
W-12	227.86	26.42	201.44	26.70	201.16				
W-13	238.91	43.76	195.15	43.98	194.93				
W-14	245.76	43.50	202.26	43.58	202.18				
W-15A	243.59	46.92	196.67	47.14	196.45				
W-15B	243.61	46.91	196.70	47.14	196.47				
W-16	232.42	30.85	201.57	30.75	201.67				
W-17	227.66	30.20	197.46	30.03	197.63				
W-18A	230.47	37.16	193.31	37.50	192.97				
W-18B	230.28	37.00	193.28	37.32	192.96				
TW-101	234.49	31.00	203.49	30.90	203.59				
TW-102	240.26	37.52	202.74	37.78	202.48				
TW-103	228.72	19.65	209.07	19.53	209.19				

(msl) = Elevation In Mean Sea Level Feet (bTOC) = Measurement In Feet Below Top Of Well Casing

ATTACHMENT V

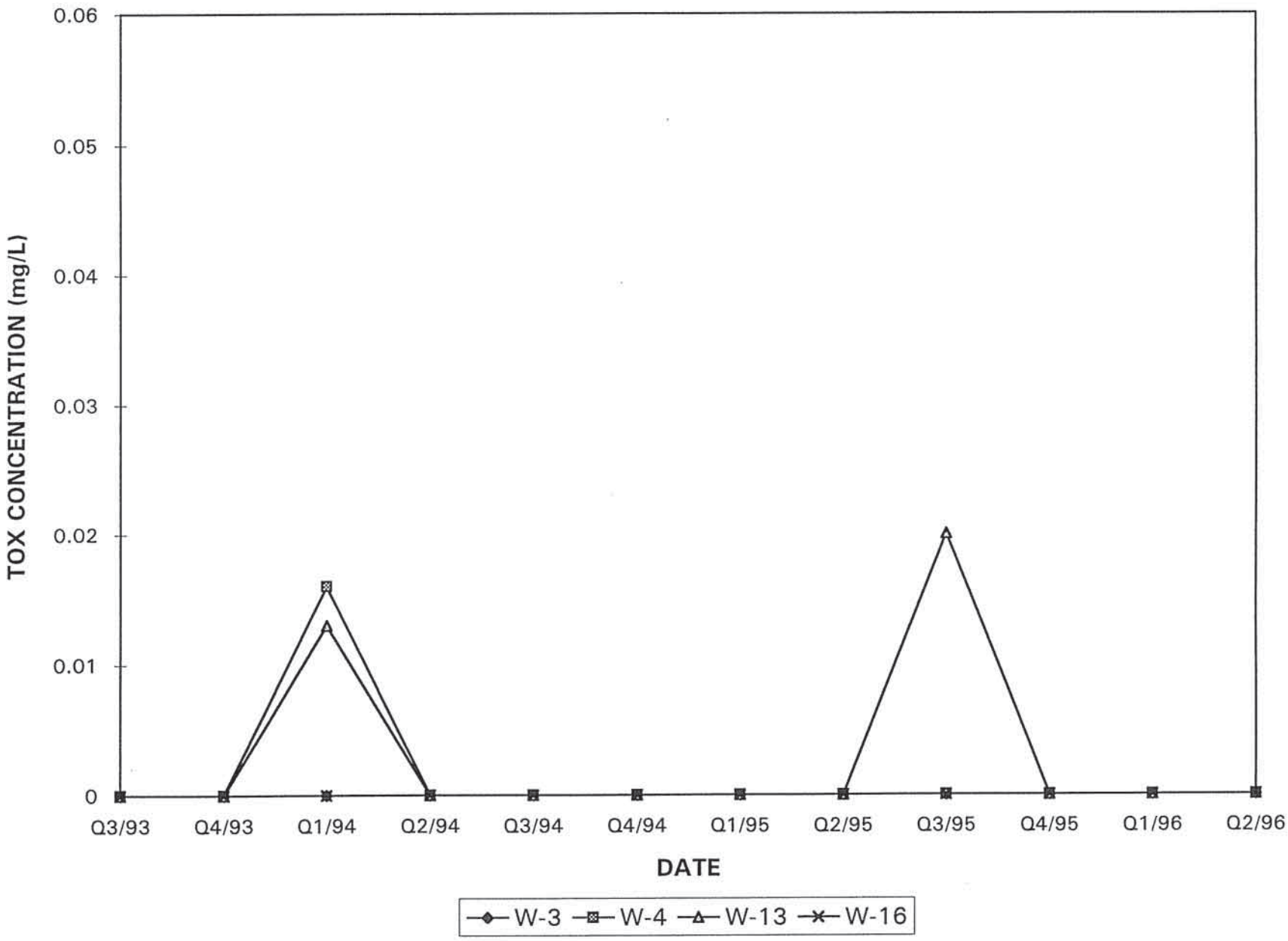
SUMMARY OF ANALYTICAL DATA

GROUND-WATER DATA SUMMARY
CLOSED AREA II DETECTION WELLS
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS FACILITY

WELL NO.	PARAMETER	UNITS	Q3/93	Q4/93	Q1/94	Q2/94	Q3/94	Q4/94	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96
W-3	Spec. Conduct.	umhos/cm	130	102	103	100	154	78	85	85	141	157	148	139
	pH	stnd units	7.43	6.15	6.20	6.15	5.76	5.59	5.77	5.86	6.07	5.81	5.54	5.79
	TOC	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1
	TOX	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
W-4	Spec. Conduct.	umhos/cm	90	85	290	120	171	93	98	86	159	93	163	165
	pH	stnd units	6.75	5.52	6.69	5.89	5.8	5.17	5.33	5.34	5.82	5.13	5.34	5.60
	TOC	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1
	TOX	mg/L	<0.01	<0.01	0.016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
W-13	Spec. Conduct.	umhos/cm	100	95	169	90	84	73	82	95	83	80	81	74
	pH	stnd units	7.15	5.39	3.75	5.63	5.01	4.77	4.94	5.44	5.16	5.03	4.50	4.60
	TOC	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1
	TOX	mg/L	<0.01	<0.01	0.013	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
W-16	Spec. Conduct.	umhos/cm	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	pH	stnd units	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	TOC	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	TOX	mg/L	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

NS = WELL NOT SAMPLED DUE TO INSUFFICIENT RECOVERY

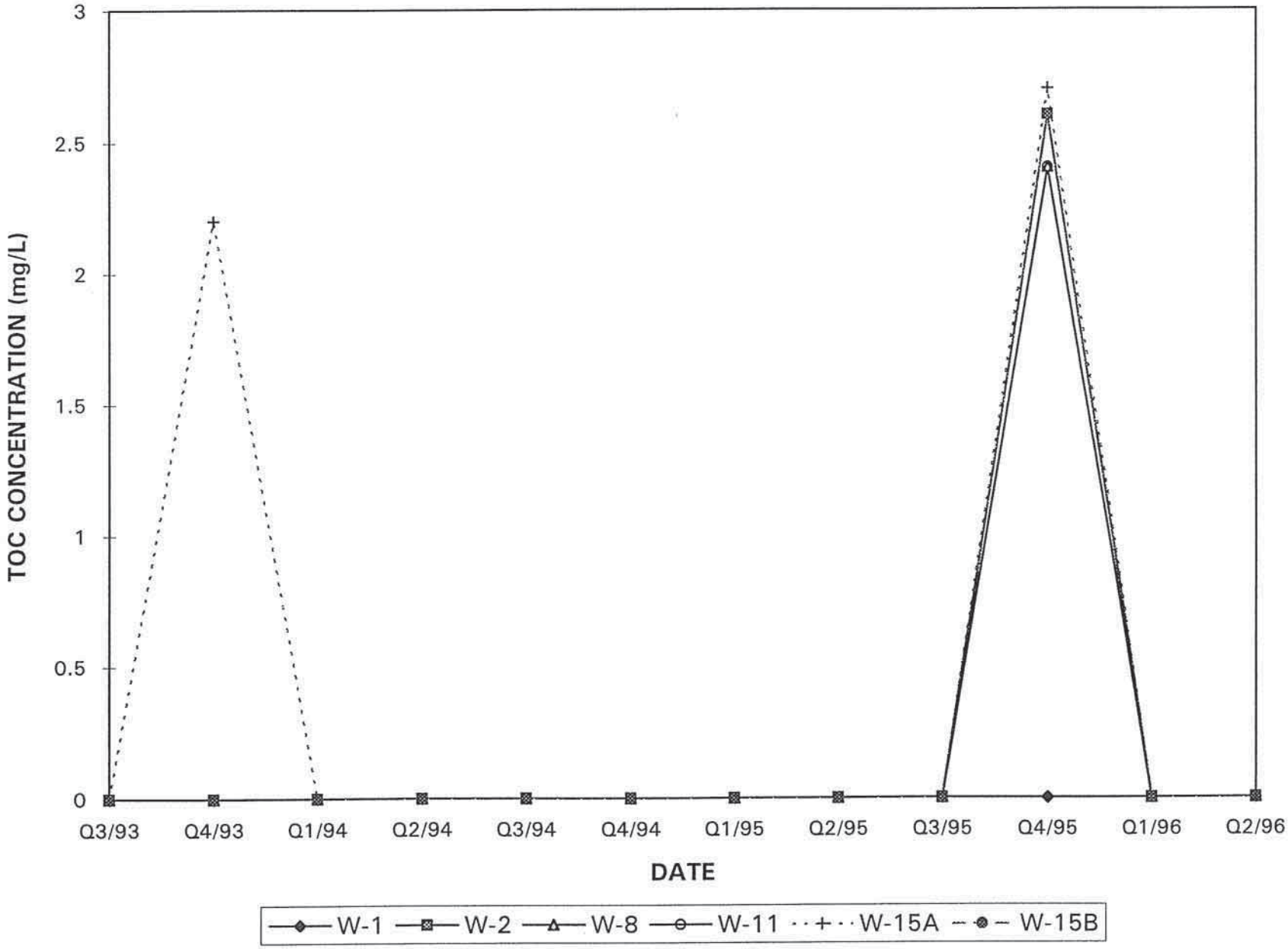
CLOSED AREA II DETECTION WELLS
TOTAL ORGANIC HALOGENS



GROUND-WATER DATA SUMMARY
CLOSED AREA III DETECTION WELLS
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS FACILITY

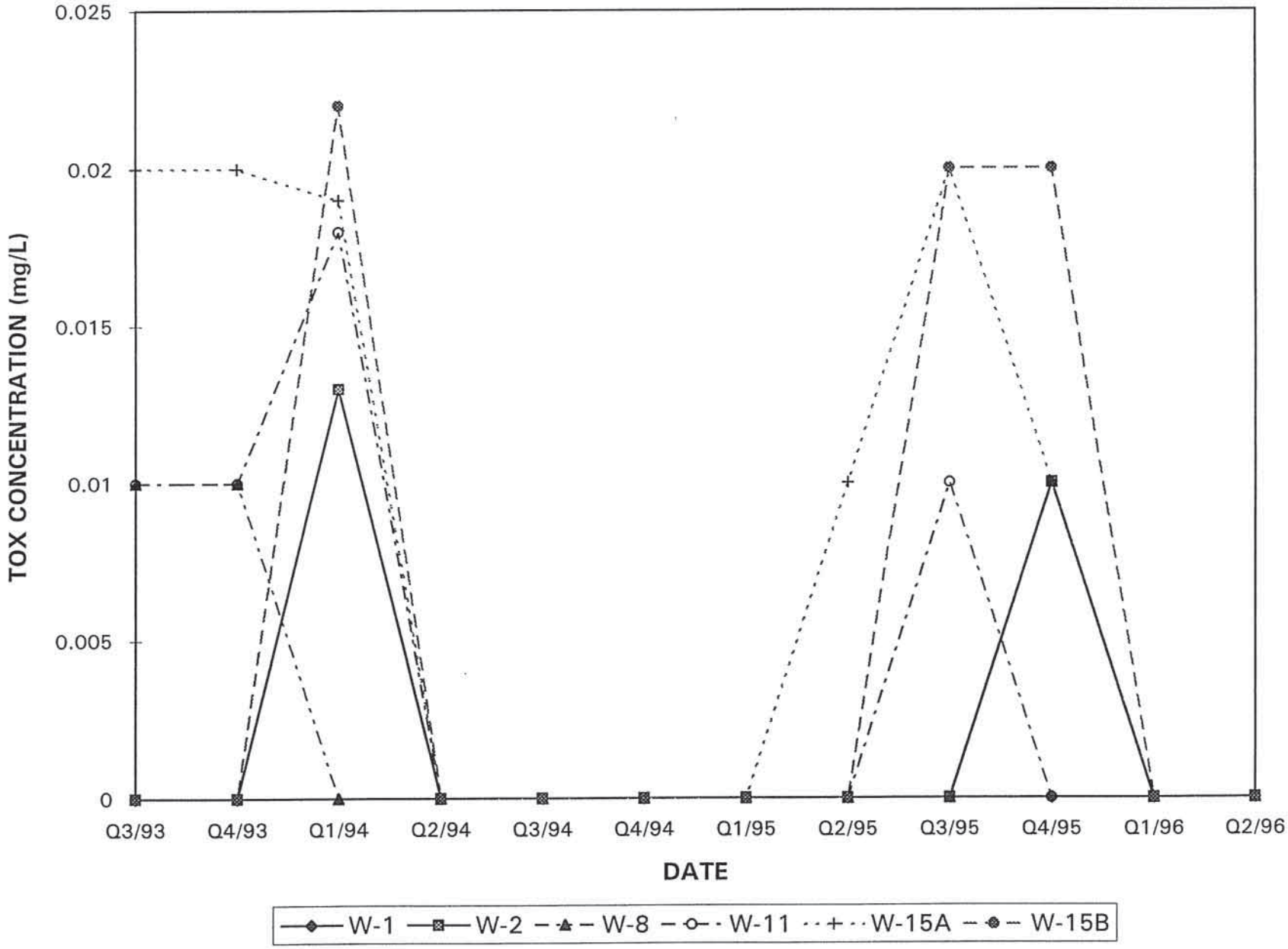
WELL NO.	PARAMETER	UNITS	Q3/93	Q4/93	Q1/94	Q2/94	Q3/94	Q4/94	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96
W-1	Spec. Conduct.	umhos/cm	175	175	58	60	57	94	69	64	58	63	211	92
	pH	stnd units	7.71	7.71	6.01	6.22	5.57	4.84	5.71	5.90	5.60	5.87	4.99	5.36
	TOC	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1
	TOX	mg/L	<0.01	<0.01	0.013	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
W-2	Spec. Conduct.	umhos/cm	220	220	111	80	102	91	93	92	158	96	102	75
	pH	stnd units	7.74	7.74	6.15	6.14	5.67	5.51	5.59	5.77	5.95	5.59	5.21	5.05
	TOC	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	2.6	<1	<1
	TOX	mg/L	<0.01	<0.01	0.013	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01
W-8	Spec. Conduct.	umhos/cm	310	310	156	180	286	96	130	155	206	224	77	126
	pH	stnd units	7.27	7.27	6.02	6.09	5.85	5.02	5.43	5.88	5.65	5.78	5.39	5.07
	TOC	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	2.4	<1	<1
	TOX	mg/L	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01
W-11	Spec. Conduct.	umhos/cm	190	190	116	140	135	90	107	154	135	82	144	140
	pH	stnd units	6.38	6.38	6.24	6.33	5.97	5.51	5.83	6.24	6.12	5.65	5.47	5.76
	TOC	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	2.4	<1	<1
	TOX	mg/L	0.01	0.01	0.018	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01
W-15A	Spec. Conduct.	umhos/cm	200	200	344	100	107	88	172	157	154	155	132	154
	pH	stnd units	6.60	6.60	6.15	5.14	4.82	4.64	4.68	4.72	4.51	4.63	4.04	4.21
	TOC	mg/L	<1.0	2.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	2.7	<1	<1
	TOX	mg/L	0.02	0.02	0.019	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.01	<0.01	<0.01
W-15B	Spec. Conduct.	umhos/cm	110	110	143	110	141	90	222	224	119	107	111	111
	pH	stnd units	7.00	7.00	5.28	5.19	5.15	4.57	5.43	5.50	4.75	4.88	4.32	4.44
	TOC	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	2.6	<1	<1
	TOX	mg/L	<0.01	<0.01	0.022	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.02	<0.01	<0.01

CLOSED AREA III DETECTION WELLS
TOTAL ORGANIC CARBON



CLOSED AREA III DETECTION WELLS

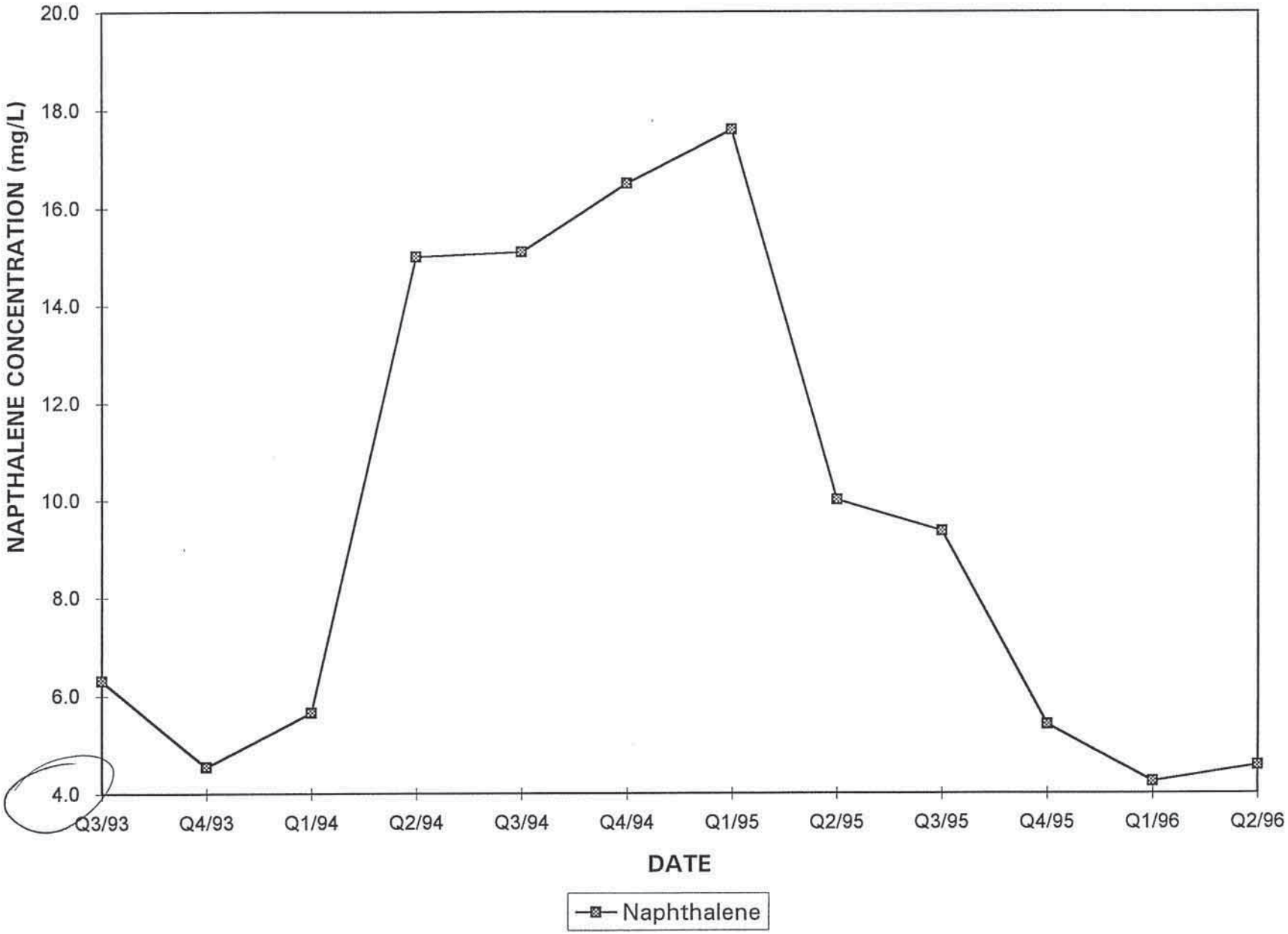
TOTAL ORGANIC HALOGENS



MONITOR WELL TW-101
SUMMARY OF ANALYTICAL DATA
CLOSED AREA I COMPLIANCE WELLS
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS FACILITY

PARAMETER	UNITS	Q3/93	Q4/93	Q1/94	Q2/94	Q3/94	Q4/94	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96
Specific Conductance	umhos/cm	730	1080	1070	934	1000	733	980	1000	980	960	910	702
pH	stnd units	6.33	6.28	6.23	6.31	6.07	5.81	5.96	6.05	6.04	5.62	5.55	5.83
Arsenic	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	0.006
Naphthalene	mg/L	6.3	4.540	5.650	15.000	15.100	16.500	17.600	10.000	9.36	5.400	4.240	4.560
Acenaphthylene	mg/L	<0.100	<0.250	<0.250	<0.050	<0.200	<1.000	<1.000	<0.200	<0.200	<0.200	<0.200	<0.200
Benzo(a)pyrene	mg/L	<0.100	<0.250	<0.250	<0.050	<0.200	<1.000	<1.000	<0.200	<0.200	<0.200	<0.200	<0.200
Phenol	mg/L	<0.100	<0.250	<0.250	<0.050	<0.200	<1.000	<1.000	<0.200	<0.200	<0.200	<0.200	<0.200
2-Chlorophenol	mg/L	<0.100	<0.250	<0.250	<0.050	<0.200	<1.000	<1.000	<0.200	<0.200	<0.200	<0.200	<0.200
2,4-Dimethylphenol	mg/L	<0.100	<0.250	<0.250	<0.050	<0.200	<1.000	<1.000	<0.200	<0.200	<0.200	<0.200	<0.200
2,4-Dichlorophenol	mg/L	<0.100	<0.250	<0.250	<0.050	<0.200	<1.000	<1.000	<0.200	<0.200	<0.200	<0.200	<0.200
4-Chloro-2 methylphenol	mg/L	<0.100	<0.250	<0.250	<0.050	<0.200	<1.000	<1.000	<0.200	<0.200	<0.200	<0.200	<0.200
Trichlorophenols	mg/L	<0.100	<0.250	<0.250	<0.050	<0.200	<1.000	<1.000	<0.200	<0.200	<0.200	<0.200	<0.200
2,4-Dinitrophenol	mg/L	<0.500	<1.250	<1.250	<0.250	<1.000	<5.000	<5.000	<1.000	<1.000	<1.000	<1.000	<1.000
Tetrachlorophenols	mg/L	<0.100	<0.250	<0.250	<0.050	<0.200	<1.000	<1.000	<0.200	<0.200	<0.200	<0.200	<0.200
Pentachlorophenol	mg/L	<0.250	<0.625	<0.625	<0.125	<0.500	<2.500	<2.500	<0.500	<0.500	<0.400	<0.400	<0.400
Carbazole	mg/L	0.382	<0.250	<0.250	0.567	0.816	<1.000	<1.000	0.424	0.516	<0.200	<0.200	0.285
Chrysene	mg/L	<0.100	<0.250	<0.250	0.095	<0.200	<1.000	<1.000	<0.200	<0.200	<0.200	<0.200	<0.200
Phenanthrene	mg/L	0.388	0.388	1.340	1.530	3.100	5.020	3.900	0.936	1.340	1.260	1.150	0.892
Fluoranthene	mg/L	<0.100	<0.250	0.530	0.858	1.200	2.260	1.620	0.288	0.398	0.508	0.360	0.292
Benzo(b)fluoranthene	mg/L	<0.100	<0.250	<0.250	<0.050	<0.200	<1.000	<1.000	<0.200	<0.200	<0.200	<0.200	<0.200
Indeno(1,2,3-cd)pyrene	mg/L	<0.100	<0.250	<0.250	<0.050	<0.200	<1.000	<1.000	<0.200	<0.200	<0.200	<0.200	<0.200
Benz(a)anthracene	mg/L	<0.100	<0.250	<0.250	0.104	<0.200	<1.000	<1.000	<0.200	<0.200	<0.200	<0.200	<0.200
Dibenz(a,h)anthracene	mg/L	<0.100	<0.250	<0.250	<0.050	<0.200	<1.000	<1.000	<0.200	<0.200	<0.200	<0.200	<0.200

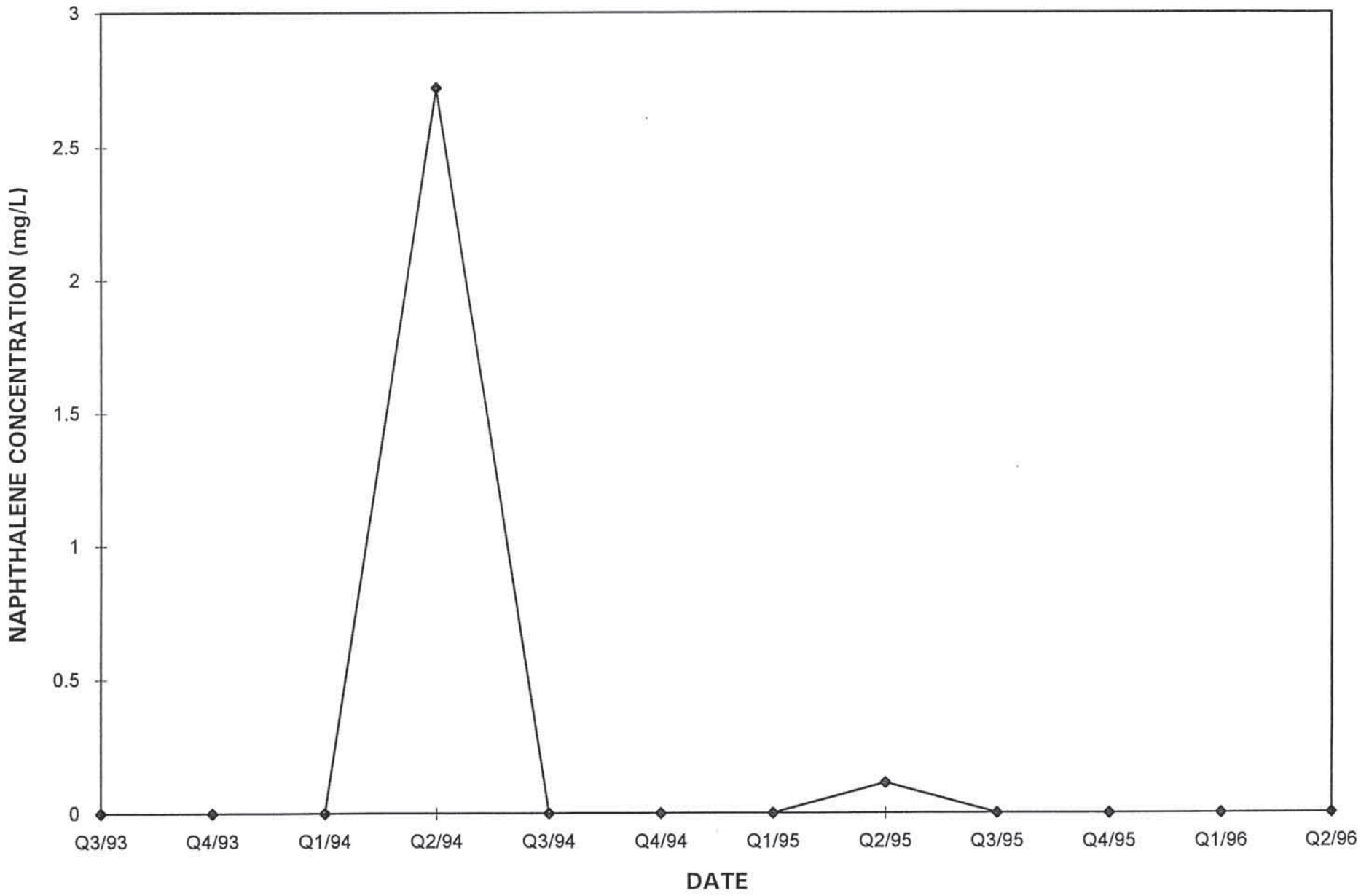
MONITOR WELL TW-101 ANALYTICAL DATA



MONITOR WELL TW-102
SUMMARY OF ANALYTICAL DATA
CLOSED AREA I COMPLIANCE WELLS
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS FACILITY

PARAMETER	UNITS	Q3/93	Q4/93	Q1/94	Q2/94	Q3/94	Q4/94	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96
Specific Conductance	umhos/cm	1710	2740	2820	2000	2570	2260	2580	2580	2540	2600	2500	2460
pH	stnd units	6.65	6.75	6.65	6.64	6.58	6.25	6.36	6.25	6.20	6.24	5.53	6.38
Arsenic	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	mg/L	<0.010	<0.010	<0.010	2.720	<0.010	<0.010	<0.010	0.112	<0.010	<0.005	<0.005	<0.005
Acenaphthylene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Benzo(a)pyrene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Phenol	mg/L	<0.010	<0.010	<0.010	0.039	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2-Chlorophenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dimethylphenol	mg/L	<0.010	<0.010	<0.010	0.446	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dichlorophenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
4-Chloro-2 methylphenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Trichlorophenols	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dinitrophenol	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.025	<0.025	<0.025
Tetrachlorophenols	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Pentachlorophenol	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.010	<0.010	<0.010
Carbazole	mg/L	<0.010	<0.010	<0.010	0.072	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Chrysene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Phenanthrene	mg/L	<0.010	<0.010	<0.010	0.012	<0.010	<0.010	<0.010	0.019	<0.010	<0.005	<0.005	<0.005
Fluoranthene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Benzo(b)fluoranthene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Indeno(1,2,3-cd)pyrene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Benz(a)anthracene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Dibenzo(a,h)anthracene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005

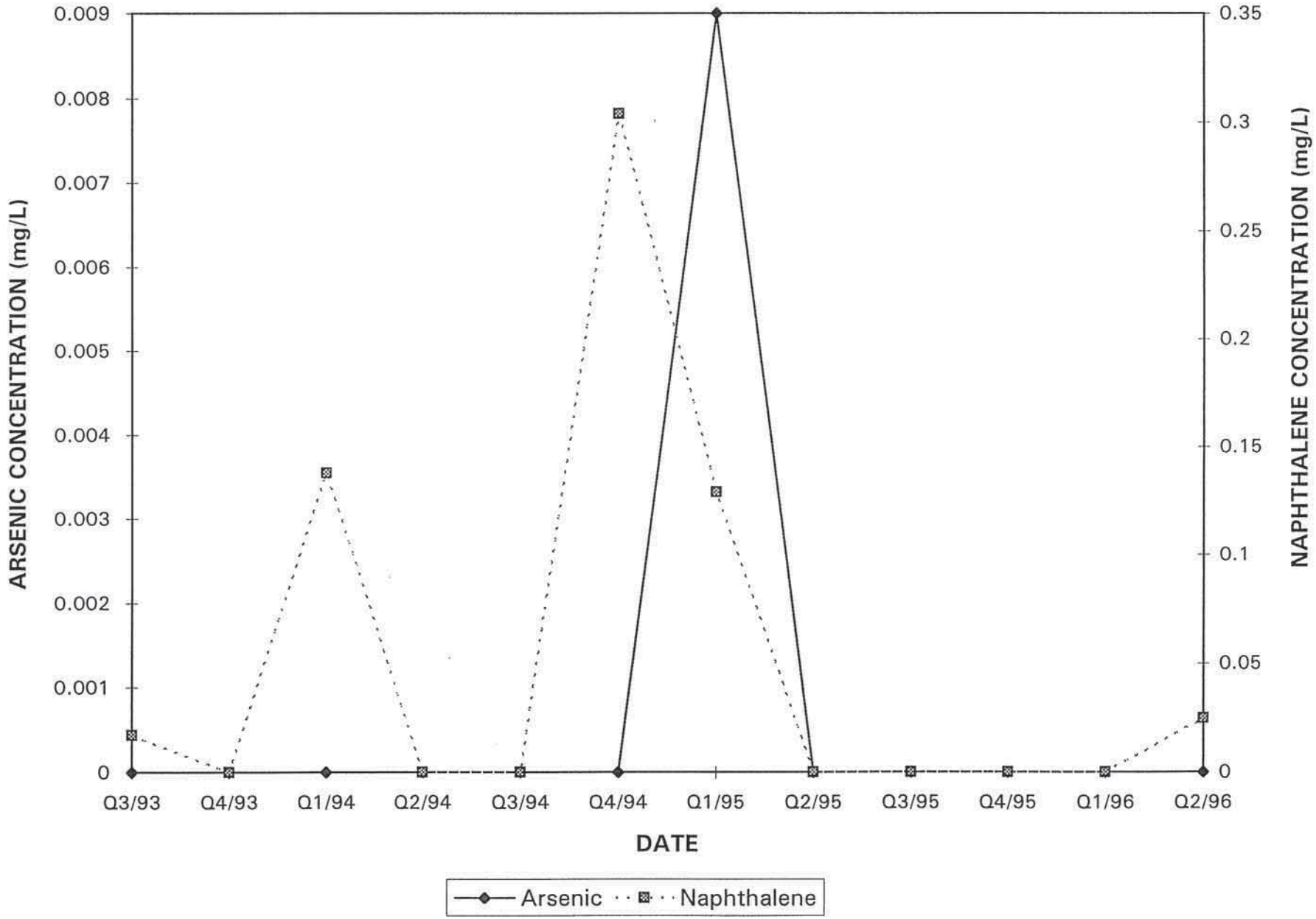
MONITOR WELL TW-102 ANALYTICAL DATA



MONITOR WELL TW-103
SUMMARY OF ANALYTICAL DATA
CLOSED AREA I COMPLIANCE WELLS
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS FACILITY

PARAMETER	UNITS	Q3/93	Q4/93	Q1/94	Q2/94	Q3/94	Q4/94	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96
Specific Conductance	umhos/cm	510	586	587	480	515	700	555	704	507	566	290	301
pH	stnd units	6.00	5.55	5.71	5.82	5.29	5.64	5.38	6.01	5.08	5.03	4.45	4.82
Arsenic	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.009	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	mg/L	0.017	<0.010	0.138	<0.010	<0.010	0.304	0.129	<0.010	<0.010	<0.005	<0.005	0.0248
Acenaphthylene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Benzo(a)pyrene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Phenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2-chlorophenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-dimethylphenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-dichlorophenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
4-chloro-2 methylphenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Trichlorophenols	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-dinitrophenol	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.025	<0.025	<0.025
Tetrachlorophenols	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Pentachlorophenol	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.010	<0.010	<0.010
Carbazole	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.0112	<0.010	0.0195	<0.010	<0.005	<0.005	<0.005
Chrysene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Phenanthrene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.0159	0.0101	0.0558	<0.010	<0.005	<0.005	<0.005
Fluoranthene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Benzo(b)fluoranthene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Indeno(1,2,3-cd)pyrene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Benz(a)anthracene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Dibenz(a,h)anthracene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005

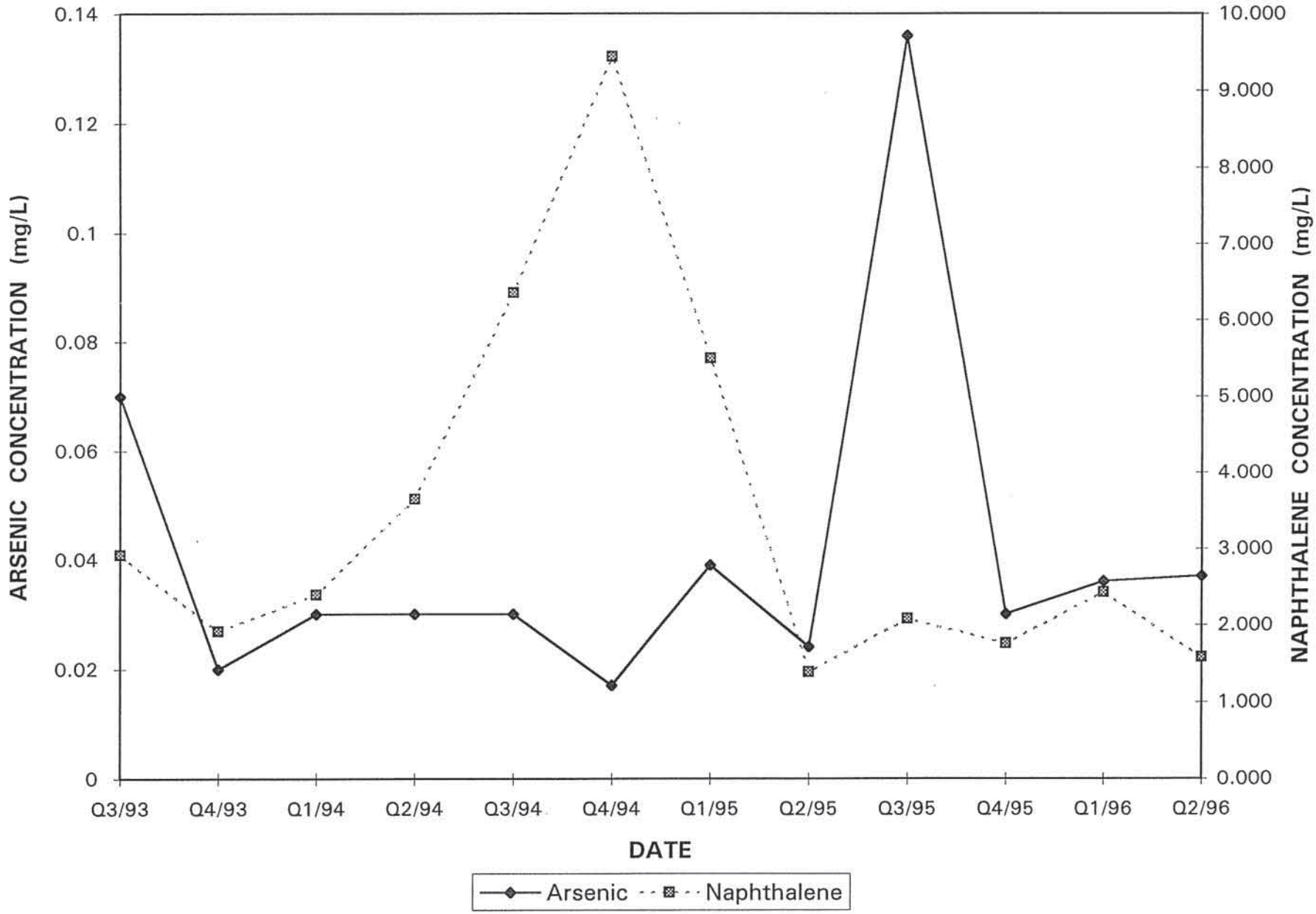
MONITOR WELL TW-103 ANALYTICAL DATA



MONITOR WELL W-5
SUMMARY OF ANALYTICAL DATA
CLOSED AREA I COMPLIANCE WELLS
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS FACILITY

PARAMETER		Q3/93	Q4/93	Q1/94	Q2/94	Q3/94	Q4/94	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96
Specific Conductance	umhos/cm	430	515	515	400	429	361	478	430	533	492	400	464
pH	stnd units	6.29	5.97	5.94	6.12	5.50	5.30	5.77	5.63	5.64	5.52	5.02	5.39
Arsenic	mg/L	0.07	0.02	0.03	0.03	0.03	0.017	0.039	0.024	0.136	0.030	0.036	0.037
Naphthalene	mg/L	2.920	1.920	2.400	3.650	6.360	9.440	5.500	1.390	2.0800	1.760	2.430	1.580
Acenaphthylene	mg/L	<0.10	<0.10	<0.10	<0.10	<0.200	<0.200	<0.250	<0.050	<0.010	<0.125	<0.050	<0.100
Benzo(a)pyrene	mg/L	<0.10	<0.10	<0.10	<0.10	<0.200	<0.200	<0.250	<0.050	<0.010	<0.125	<0.050	<0.100
2,4-Dichlorophenol	mg/L	<0.10	<0.10	<0.10	<0.10	<0.200	<0.200	<0.250	<0.050	<0.010	<0.125	<0.050	<0.100
2,4-Dinitrophenol	mg/L	<0.50	<0.50	<0.50	<0.25	<1.000	<1.000	<1.250	<0.250	<0.050	<0.625	<0.250	<0.500
Pentachlorophenol	mg/L	<0.25	<0.25	<0.25	<0.125	<0.500	<0.500	<0.625	<0.125	<0.025	<0.250	<0.100	<0.200
Carbazole	mg/L	0.147	<0.10	0.101	0.145	0.250	0.464	0.366	0.171	0.125	<0.125	0.0845	<0.100
Phenanthrene	mg/L	<0.10	<0.10	<0.10	<0.10	<0.200	<0.200	<0.250	<0.050	0.016	<0.125	<0.050	<0.100
Tetrachlorophenols	mg/L	<0.10	<0.10	<0.10	<0.10	<0.200	<0.200	<0.250	<0.050	<0.010	<0.125	<0.050	<0.100
Fluoranthene	mg/L	<0.10	<0.10	<0.10	<0.10	<0.200	<0.200	<0.250	<0.050	<0.010	<0.125	<0.050	<0.100
Phenol	mg/L	0.242	0.114	0.155	0.880	0.628	0.528	0.326	<0.050	0.0604	<0.125	0.110	<0.100
2,4-Dimethylphenol	mg/L	0.636	0.368	0.480	0.695	1.320	1.480	0.935	0.168	0.246	<0.125	0.450	0.143

MONITOR WELL W-5 ANALYTICAL DATA

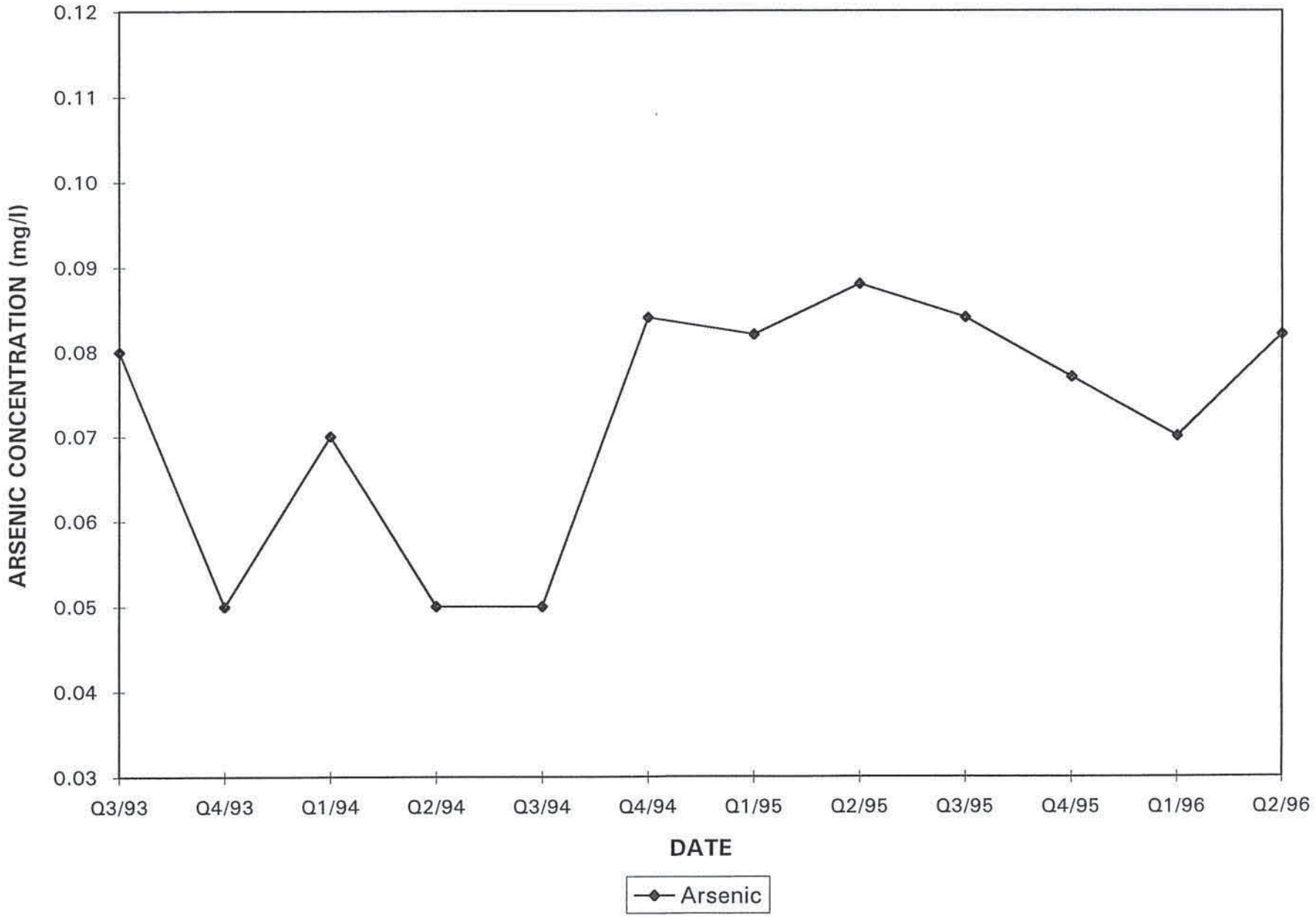


MONITOR WELL W-6
SUMMARY OF ANALYTICAL DATA
CLOSED AREA I COMPLIANCE WELLS
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS FACILITY

PARAMETER	UNITS	Q3/93	Q4/93	Q1/94	Q2/94	Q3/94	Q4/94	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96
Specific Conductance	umhos/cm	300	366	426	420	420	299	368	362	367	347	337	322
pH	stnd units	6.24	5.94	6.00	6.06	5.72	5.32	5.68	5.59	5.69	5.56	5.62	5.48
Arsenic	mg/l	0.08	0.05	0.07	0.05	0.05	0.084	0.082	0.088	0.084	0.077	0.070	0.082
Naphthalene	mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Acenaphthylene	mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Benzo(a)pyrene	mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dichlorophenol	mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.025	<0.005	<0.005
Trichlorophenols	mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dinitrophenol	mg/l	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.005	<0.025	<0.025
Pentachlorophenol	mg/l	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.010	<0.010	<0.010
Carbazole	mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Phenanthrene	mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Tetrachlorophenols	mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Fluoranthene	mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Phenol	mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dimethylphenol	mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005

NA = NOT ANALYZED

MONITOR WELL W-6 ANALYTICAL DATA



MONITOR WELL W-7
SUMMARY OF ANALYTICAL DATA
CLOSED AREA I COMPLIANCE WELLS
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS FACILITY

PARAMETER	UNITS	Q3/93	Q4/93	Q1/94	Q2/94	Q3/94	Q4/94	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96
Specific Conductance	umhos/cm	870	1500	1640	1200	1500	1300	1530	1510	1530	1500	1490	1350
pH	stnd units	4.85	6.52	6.57	6.51	6.41	6.04	6.21	6.11	6.41	6.33	5.94	5.93
Arsenic	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Acenaphthylene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Benzo(a)pyrene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dichlorophenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Trichlorophenols	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dinitrophenol	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.025	<0.025	<0.025
Pentachlorophenol	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.010	<0.010	<0.010
Carbazole	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Phenanthrene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Tetrachlorophenols	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Fluoranthene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Phenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dimethylphenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005

MONITOR WELL W-9
SUMMARY OF ANALYTICAL DATA
CLOSED AREA I COMPLIANCE WELLS
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS FACILITY

PARAMETER	UNITS	Q3/93	Q4/93	Q1/94	Q2/94	Q3/94	Q4/94	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96
Specific Conductance	umhos/cm	80	79	99	120	133	106	143	78	73	120	75	77
pH	stnd units	6.35	6.13	6.03	6.29	5.93	5.64	6.14	5.53	5.85	5.81	5.79	5.57
Arsenic	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Acenaphthylene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Benzo(a)pyrene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dichlorophenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Trichlorophenols	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dinitrophenol	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.025	<0.025	<0.025
Pentachlorophenol	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.010	<0.010	<0.010
Carbazole	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Phenanthrene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Tetrachlorophenols	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Fluoranthene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Phenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dimethylphenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005

MONITOR WELL W-10
SUMMARY OF ANALYTICAL DATA
CLOSED AREA I COMPLIANCE WELLS
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS FACILITY

PARAMETER	UNITS	Q3/93	Q4/93	Q1/94	Q2/94	Q3/94	Q4/94	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96
Specific Conductance	umhos/cm	310	355	495	460	437	414	534	445	446	518	478	436
pH	stnd units	6.68	6.24	6.40	6.16	6.08	5.85	6.21	5.80	5.93	5.95	5.73	6.39
Arsenic	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005
Naphthalene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Acenaphthylene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Benzo(a)pyrene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dichlorophenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Trichlorophenols	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dinitrophenol	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.025	<0.025	<0.025
Pentachlorophenol	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.010	<0.010	<0.010
Carbazole	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Phenanthrene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Tetrachlorophenols	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Fluoranthene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Phenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dimethylphenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005

MONITOR WELL W-12
SUMMARY OF ANALYTICAL DATA
CLOSED AREA I COMPLIANCE WELLS
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS FACILITY

PARAMETER	UNITS	Q3/93	Q4/93	Q1/94	Q2/94	Q3/94	Q4/94	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96
Specific Conductance	umhos/cm	NS	286	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
pH	stnd units	NS	4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	mg/L	NS	<0.01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	mg/L	NS	<0.010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	mg/L	NS	<0.010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo(a)pyrene	mg/L	NS	<0.010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	mg/L	NS	<0.010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichlorophenols	mg/L	NS	<0.010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	mg/L	NS	<0.050	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pentachlorophenol	mg/L	NS	<0.025	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbazole	mg/L	NS	<0.010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	mg/L	NS	<0.010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Tetrachlorophenols	mg/L	NS	<0.010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	mg/L	NS	<0.010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenol	mg/L	NS	<0.010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	mg/L	NS	<0.010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

NS = NOT SAMPLED DUE TO INSUFFICIENT VOLUME OF GROUND WATER IN THE WELL AFTER PURGING

MONITOR WELL W-14
SUMMARY OF ANALYTICAL DATA
CLOSED AREA I COMPLIANCE WELLS
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS FACILITY

PARAMETER	UNITS	Q3/93	Q4/93	Q1/94	Q2/94	Q3/94	Q4/94	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96
Specific Conductance	umhos/cm	1450	2120	2270	1900	2000	1760	2050	2120	2050	2050	2010	1900
pH	stnd units	6.60	6.64	6.65	6.73	6.24	6.02	6.15	6.49	6.35	6.30	5.77	6.22
Arsenic	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Acenaphthylene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Benzo(a)pyrene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dichlorophenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Trichlorophenols	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dinitrophenol	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.025	<0.025	<0.025
Pentachlorophenol	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.010	<0.010	<0.010
Carbazole	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Phenanthrene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Tetrachlorophenols	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Fluoranthene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Phenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dimethylphenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005

NA = NOT ANALYZED
NI = WELL NOT INSTALLED AT TIME OF SAMPLING EVENT

MONITOR WELL W-17
SUMMARY OF ANALYTICAL DATA
CLOSED AREA I COMPLIANCE WELLS
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS FACILITY

PARAMETER	UNITS	Q3/93	Q4/93	Q1/94	Q2/94	Q3/94	Q4/94	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96
Specific Conductance	umhos/cm	280	299	313	300	274	NS	NS	NS	NS	NS	NS	NS
pH	stnd units	6.05	5.14	5.14	5.13	4.66	NS	NS	NS	NS	NS	NS	NS
Arsenic	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	NS	NS	NS	NS	NS	NS	NS
Naphthalene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	NS	NS	NS	NS	NS	NS	NS
Benzo(a)pyrene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	NS	NS	NS	NS	NS	NS	NS
Trichlorophenols	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	NS	NS	NS	NS	NS	NS	NS
Pentachlorophenol	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	NS	NS	NS	NS	NS	NS	NS
Carbazole	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	NS	NS	NS	NS	NS	NS	NS
Tetrachlorophenols	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	NS	NS	NS	NS	NS	NS	NS
Phenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	NS	NS	NS	NS	NS	NS	NS

NS = NOT SAMPLED DUE TO INSUFFICIENT VOLUME OF GROUND WATER IN THE WELL AFTER PURGING

MONITOR WELL W-18A
SUMMARY OF ANALYTICAL DATA
CLOSED AREA I COMPLIANCE WELLS
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS FACILITY

PARAMETER	UNITS	Q3/93	Q4/93	Q1/94	Q2/94	Q3/94	Q4/94	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96
Specific Conductance	umhos/cm	270	197	291	200	218	171	230	277	290	192	190	239
pH	stnd units	6.15	4.55	4.57	4.57	4.64	3.91	4.07	4.68	4.70	4.26	3.59	3.93
Arsenic	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Acenaphthylene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Benzo(a)pyrene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dichlorophenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Trichlorophenols	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dinitrophenol	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.025	<0.025	<0.025
Pentachlorophenol	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.010	<0.010	<0.010
Carbazole	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Phenanthrene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Tetrachlorophenols	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Fluoranthene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Phenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dimethylphenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005

MONITOR WELL W-18B
SUMMARY OF ANALYTICAL DATA
CLOSED AREA I COMPLIANCE WELLS
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS FACILITY

PARAMETER	UNITS	Q3/93	Q4/93	Q1/94	Q2/94	Q3/94	Q4/94	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96
Specific Conductance	umhos/cm	180	683	155	120	212	118	131	140	150	146	132	103
pH	stnd units	6.05	2.98	4.94	4.77	4.73	4.43	4.70	4.91	4.95	4.49	4.13	4.76
Arsenic	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Acenaphthylene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Benzo(a)pyrene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dichlorophenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Trichlorophenols	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dinitrophenol	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.025	<0.025	<0.025
Pentachlorophenol	mg/L	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.010	<0.010	<0.010
Carbazole	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Phenanthrene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Tetrachlorophenols	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Fluoranthene	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
Phenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005
2,4-Dimethylphenol	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.005	<0.005	<0.005

ATTACHMENT VI

FIELD DATA SHEETS, LABORATORY REPORT SHEETS AND CHAIN-OF-CUSTODY SHEETS FOR THE JANUARY AND APRIL, 1996 SAMPLING EVENTS

FIELD DATA SHEET – Texas Electric Coop. – Jasper Facility

DATE: 1-24-96 QUARTER: [X] First [ ] Second [ ] Third [ ] Fourth

			Well No. W-1	Well No. W-2	Well No. W-3	Well No. W-4
WELL PURGING DATA						
(A) Water Level Measurement	N/A	feet below top of casing	50.00 N/A	50.12 N/A	43.57 N/A	42.45 N/A
(B) Top of DNAPL	N/A	feet below top of casing				
(C) Bottom of Well	N/A	feet below top of casing	109.35	79.81	77.47	50.30
(D) Height of Fluid Column	(A) – (C)	feet	59.35	29.69	33.90	7.85
(E) Fluid Volume of Well	(D) x (0.653)	gallons	38.75	19.38	22.14	5.13
(F) Fluid Volume to be Purged	(E) x (3)	gallons	117	58.16	66.41	15.38
(G) Well Production Rate	N/A	gallons per minute	20.0	20.0	20.0	20.0
(H) Production Time Required	(F) / (G)	minutes	6min	3	3.5 MIN.	1
GROUNDWATER FIELD PARAMETERS						
(I) Temperature	N/A	°C	16.7	17.7	16.4	18.3
(J) pH	N/A	standard units	4.99	5.21	5.54	5.34
(K) Specific Conductance	N/A	µmhos/cm	.211	.102	.148	.163
FIELD CONDITIONS						
(L) Approx. Air Temperature	N/A	°F	40	40	[illegible]	
(M) Weather Conditions	N/A	clear, rainy, etc.	clear	clear	clear	clear
OTHER INFORMATION						
(N) Time at Start of Purging	N/A	hours	910	920	945	1000
(O) Time at Completion of Purging	N/A	hours	916	923	949	1001
(P) COC Sample Designation	N/A	N/A				
(Q) Sampler's Initials	N/A	N/A				

FIELD DATA SHEET – Texas Electric Coop. – Jasper Facility

DATE: 1/24/96 QUARTER: [4 First [ ] Second [ ] Third [ ] Fourth

			Well No. W-5	Well No. W-6	Well No. W-7	Well No. W-8
WELL PURGING DATA						
(A) Water Level Measurement	N/A	feet below top of casing	26.45	35.20	47.50	49.20
(B) Top of DNAPL	N/A	feet below top of casing	N/A	N/A	N/A	N/A
(C) Bottom of Well	N/A	feet below top of casing	42.17	54.71	61.10	78.55
(D) Height of Fluid Column	(A) – (C)	feet	15.72	19.51	11.60	29.35
(E) Fluid Volume of Well	(D) x (0.653)	gallons	10.27	12.74	7.57	19.16
(F) Fluid Volume to be Purged	(E) x (3)	gallons	30.80	38.22	22.72	57.49
(G) Well Production Rate	N/A	gallons per minute	20.0	20.0	20.0	20.0
(H) Production Time Required	(F) / (G)	minutes	2	2	1 30 sec dry	3
GROUNDWATER FIELD PARAMETERS						
(I) Temperature	N/A	°C	18.5	20.8	18.3	17.9
(J) pH	N/A	standard units	5.02	5.62	5.94	5.39
(K) Specific Conductance	N/A	µmhos/cm	.400	.337	1.49	.077
FIELD CONDITIONS						
(L) Approx. Air Temperature	N/A	°F	50		53	70
(M) Weather Conditions	N/A	clear, rainy, etc.	clear	clear	clear	clear
OTHER INFORMATION						
(N) Time at Start of Purging	N/A	hours	1045	1100 1/25/96	1130	910
(O) Time at Completion of Purging	N/A	hours	1047	1103	1131	913
(P) COC Sample Designation	N/A	N/A				
(Q) Sampler's Initials	N/A	N/A				

FIELD DATA SHEET – Texas Electric Coop. – Jasper Facility

DATE: 1/24/96 QUARTER: [X] First [ ] Second [ ] Third [ ] Fourth

			Well No. W-9	Well No. W-10	Well No. W-11	Well No. W-12
WELL PURGING DATA						
(A) Water Level Measurement	N/A	feet below top of casing	26.25	45.00	33.77	26.42
(B) Top of DNAPL	N/A	feet below top of casing	N/A	N/A	N/A	
(C) Bottom of Well	N/A	feet below top of casing	114.63	58.29	59.27	27.50 - MEASURED 28.10 TO BOTTOM
(D) Height of Fluid Column	(A) – (C)	feet	88.38	13.29	25.5	
(E) Fluid Volume of Well	(D) x (0.653)	gallons	62.13	8.68	16.65	
(F) Fluid Volume to be Purged	(E) x (3)	gallons	186.39	26.04	49.95	
(G) Well Production Rate	N/A	gallons per minute	20.0	20.0	20.0	0.85
(H) Production Time Required	(F) / (G)	minutes	10	2	2 min dry 3	
GROUNDWATER FIELD PARAMETERS						
(I) Temperature	N/A	°C	18.9	18.6	15.6	
(J) pH	N/A	standard units	5.79	5.73	5.47	
(K) Specific Conductance	N/A	µmhos/cm	1075	1478	1414	
FIELD CONDITIONS						
(L) Approx. Air Temperature	N/A	°F			43	
(M) Weather Conditions	N/A	clear, rainy, etc.	clear	clear	clear	
OTHER INFORMATION						
(N) Time at Start of Purging	N/A	hours	1/25/96 1105	1/25/96 1:30 pm	933	DRY
(O) Time at Completion of Purging	N/A	hours	1:15	1:33	937	
(P) COC Sample Designation	N/A	N/A				
(Q) Sampler's Initials	N/A	N/A				

FIELD DATA SHEET – Texas Electric Coop. – Jasper Facility

DATE: 1/24/96 QUARTER: [X] First [ ] Second [ ] Third [ ] Fourth

			Well No. W-13	Well No. W-14	Well No. W-15A	Well No. W-15B
WELL PURGING DATA						
(A) Water Level Measurement	N/A	feet below top of casing	43.76	43.50	46.92	46.91
(B) Top of DNAPL	N/A	feet below top of casing	N/A	N/A	N/A	N/A
(C) Bottom of Well	N/A	feet below top of casing	51.30	49.70	82.30	65.60
(D) Height of Fluid Column	(A) – (C)	feet	7.54	6.2	35.38	18.69
(E) Fluid Volume of Well	(D) x (0.653)	gallons	4.92	4.04	23.10 (9.31)	12.20
(F) Fluid Volume to be Purged	(E) x (3)	gallons	14.77	12.14		36.61
(G) Well Production Rate	N/A	gallons per minute	0.85	0.85	0.85	0.85
(H) Production Time Required	(F) / (G)	minutes	18 bails	7 dry 14 bails	82 bailers	44 bailers
GROUNDWATER FIELD PARAMETERS						
(I) Temperature	N/A	°C	16.9	18.6	15.8	16.2
(J) pH	N/A	standard units	4.50	5.77	4.04	4.32
(K) Specific Conductance	N/A	µmhos/cm	.091	2.01	1320	111
FIELD CONDITIONS						
(L) Approx. Air Temperature	N/A	°F	45	52	40	40
(M) Weather Conditions	N/A	clear, rainy, etc.	clear	clear	clear	clear
OTHER INFORMATION						
(N) Time at Start of Purging	N/A	hours	9:45	11:20	9:00 AM	10:00 AM
(O) Time at Completion of Purging	N/A	hours				
(P) COC Sample Designation	N/A	N/A				
(Q) Sampler's Initials	N/A	N/A				

FIELD DATA SHEET – Texas Electric Coop. – Jasper Facility

DATE: 1/24/96 QUARTER: [X] First [ ] Second [ ] Third [ ] Fourth

			Well No. W-16	Well No. W-17	Well No. W-18A	Well No. W-18B
WELL PURGING DATA						
(A) Water Level Measurement	N/A	feet below top of casing	30.85	30.20	37.16	37
(B) Top of DNAPL	N/A	feet below top of casing	N/A	N/A	N/A	N/A
(C) Bottom of Well	N/A	feet below top of casing	31.35 MEASURED TO BOTTOM 31.90 TO BOTTOM	32.50	48.20	67.80
(D) Height of Fluid Column	(A) – (C)	feet			11.04	30.8
(E) Fluid Volume of Well	(D) x (0.653)	gallons			7.2	20.11
(F) Fluid Volume to be Purged	(E) x (3)	gallons			22	60.33
(G) Well Production Rate	N/A	gallons per minute	0.85	0.85	0.85	0.85
(H) Production Time Required	(F) / (G)	minutes			26	71
GROUNDWATER FIELD PARAMETERS						
(I) Temperature	N/A	°C			17.1	17.0
(J) pH	N/A	standard units			3.57	4.13
(K) Specific Conductance	N/A	µmhos/cm			190	132
FIELD CONDITIONS						
(L) Approx. Air Temperature	N/A	°F			50	
(M) Weather Conditions	N/A	clear, rainy, etc.			Clear	
OTHER INFORMATION						
(N) Time at Start of Purging	N/A	hours	DRY	DRY	10:30	11:30
(O) Time at Completion of Purging	N/A	hours				
(P) COC Sample Designation	N/A	N/A				
(Q) Sampler's Initials	N/A	N/A				

FIELD DATA SHEET – Texas Electric Coop. – Jasper Facility

DATE: 1/24/96 QUARTER: [X] First [ ] Second [ ] Third [ ] Fourth

			Well No. W-101	Well No. W-102	Well No. W-103	
WELL PURGING DATA						
(A) Water Level Measurement	N/A	feet below top of casing	31.00	37.52	19.65	
(B) Top of DNAPL	N/A	feet below top of casing	41.20	N/A	N/A	
(C) Bottom of Well	N/A	feet below top of casing	46.00	45.21	26.00	
(D) Height of Fluid Column	(A) – (C)	feet	15.00	7.69	6.35	
(E) Fluid Volume of Well	(D) x (0.653)	gallons	9.80	5.02	4.15	
(F) Fluid Volume to be Purged	(E) x (3)	gallons	29.39	15.06	12.44	
(G) Well Production Rate	N/A	gallons per minute	0.85	0.85	0.85	
(H) Production Time Required	(F) / (G)	minutes	35	17 dry. 18 Bails	DRY @ 12 15 BAILS	
GROUNDWATER FIELD PARAMETERS						
(I) Temperature	N/A	°C	19.3	18.5	18.6	
(J) pH	N/A	standard units	5.55	5.53	4.45	
(K) Specific Conductance	N/A	µmhos/cm	.191	2.50	.290	
FIELD CONDITIONS						
(L) Approx. Air Temperature	N/A	°F	55	50	50	
(M) Weather Conditions	N/A	clear, rainy, etc.	Clear	Clear	Clear	
OTHER INFORMATION						
(N) Time at Start of Purging	N/A	hours	1137	11:30	10:55	
(O) Time at Completion of Purging	N/A	hours				
(P) COC Sample Designation	N/A	N/A				
(Q) Sampler's Initials	N/A	N/A				

FIELD DATA SHEET – Texas Electric Coop. – Jasper Facility

DATE: 1/25/96 QUARTER: [X] First [ ] Second [ ] Third [ ] Fourth

			L–1 (West End)	L–2 (Middle)	L–3 (East End)	
LEACHATE MEASUREMENT DATA						
(A) Fluid Level Measurement	N/A	feet below top of pipe	12.90	17.0	7.25	
(B) Measured Bottom of Pipe	N/A	feet below top of pipe				
(C) Height of Fluid Column	(A) – (B)	feet				
LEACHATE FIELD PARAMETERS						
(D) Temperature	N/A	°C				
(E) pH	N/A	standard units				
(F) Specific Conductance	N/A	µmhos/cm				
FIELD CONDITIONS						
(G) Approx. Air Temperature	N/A	°F				
(H) Weather Conditions	N/A	clear, rainy, etc.				
OTHER INFORMATION						
(I) Was A Sample Collected	N/A	N/A	[ ] YES [X] NO	[ ] YES [X] NO	[ ] YES [X] NO	[ ] YES [ ] NO
			If YES, Then :	If YES, Then :	If YES, Then :	If YES, Then :
(J) Time of Sample Collection	N/A	hours				
(K) COC Sample Designation	N/A	N/A				
(L) Sampler's Initials	N/A	N/A				

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July 1997 Semiannual Groundwater Monitoring Report

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ASSOCIATION OF TEXAS ELECTRIC COOPERATIVES SEMIANNUAL GROUNDWATER MONITORING REPORT

GERAGHTY & MILLER, INC.
Environment and Infrastructure
a heidemij company

GERAGHTY
& MILLER, INC.
Environment and Infrastructure

a heidemij company

July 3, 1997

Mr. Lemarcus Johnson
Manager
Waste Enforcement Section
Enforcement Division
Texas Natural Resources Conservation Commission
12100 Park 35 Circle
Austin, Texas 78753

Re: Re-issue of the July, 1997 Semiannual Groundwater Monitoring Report
Association of Texas Electric Cooperatives, Inc.
Solid Waste Registration No. 31340

Dear Mr. Johnson:

Due to a clerical error, page two was left out of the above referenced report, issued July 2, 1997. The corrected report is enclosed and we regret any inconvenience this may have caused. If you have any questions please feel free to contact us at (713) 266-6867.

Sincerely,

GERAGHTY & MILLER, INC.

Timothy R. Whitaker
Project Manager

Robert I. Chapin
Associate/Project Officer

TW:jaz
Enclosure

cc: Mr. Charles Faulds, TEC, Austin
Mr. Randy Dorman, TEC, Jasper
TNRCC, Region 10

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11000 Richmond, Suite 350 • Houston, Texas 77042 • (713) 266-6867 • FAX (713) 266-8652

ASSOCIATION OF TEXAS ELECTRIC COOPERATIVES SEMIANNUAL GROUNDWATER MONITORING REPORT

July 1, 1997

Prepared for

Association of Texas Electric Cooperatives
P.O. Box 510
Jasper, Texas 75951

HT0272.002

Prepared by

Geraghty & Miller, Inc.
11000 Richmond, #350
Houston, Texas 77042
(713) 266-6867

ASSOCIATION OF TEXAS ELECTRIC COOPERATIVES
SEMIANNUAL GROUNDWATER
MONITORING REPORT

July 1, 1997

Prepared by GERAGHTY & MILLER, INC

Jennifer L. Ditzler
Engineer

Timothy R. Whitaker
Project Manager

for Robert I.Chapin
Associate/Project Officer

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FIGURES

1. Potentiometric Surface Map, April 28, 1997

2. Potentiometric Surface Map, January 29, 1997

ASSOCIATION OF TEXAS ELECTRIC COOPERATIVES SEMIANNUAL GROUNDWATER MONITORING REPORT

1.0 INTRODUCTION

This report presents the results from the first and second quarter sampling events of 1997 at the Association of Texas Electric Cooperatives (TEC), Inc. facility in Jasper, Texas. (Solid Waste Registration No. 31340). The results presented include compliance monitoring data from Closed Area I and detection monitoring data from Closed Area II and Closed Area III. Copies of the laboratory analytical reports are included in Appendix A.

During the April 1997 sampling event, the pumps installed in Wells W-5 and W-14 were not working, so water could not be purged from these wells, and therefore, the wells could not be sampled. Also during the April 1997 sampling event, Wells W-12 (Closed Area I) and W-16 (Closed Area II) were bailed dry and did not recover sufficiently to allow a sample to be collected. These wells are extremely slow to recover due to their positioning within the clay levee deposits portion of the aquifer. The aquifer material matrix in this area is not considered "transmissive" because of its low permeability. Groundwater movement to the well is primarily the result of pore-space water drainage due to the pressure gradient from the aquifer material to the well annulus.

At the request of TNRCC, TEC attempted to collect samples from Monitoring Wells W-12 and W-16 using micro-purge sampling techniques. The wells were purged at a flow rate of approximately 0.4 liters per minute using an electric submersible pump. The purge water was monitored continuously for pH, conductivity, oxidation-reduction-potential and turbidity using a water quality meter equipped with a flow-through cell. A standard of stabilization for all four parameters of 10 percent variation across two readings taken 10 minutes apart was used to access adequacy of purging. Using this

standard, stabilization was achieved in neither W-12 nor W-16 before the wells were pumped dry. A complete discussion of the field methodology used for the micro-purge sampling and a summary of the field monitoring parameters, will be provided to TNRCC in a later submittal.

2.0 GROUNDWATER FLOW AND ELEVATIONS

Groundwater elevation levels for both the January and April 1997 events are presented in Table 1. Groundwater potentiometric surface maps for January and April 1997 are provided as Figures 1 and 2. Groundwater generally flows radially outward from the Well TW-103 area. Closed Area I is directly over an area where the aquifer pinches out, and groundwater does not occur in producible quantities. The formation has a low permeability in this area, and therefore, as indicated on Figure 1, water does not flow directly underneath Closed Area I. Groundwater flow characteristics measured in January and April 1997, including static water level, gradient, and flow velocity for the three areas, are included on Table 2. Records of well purging, field measured parameters and other field data for both quarters are included on Table 3 herein.

3.0 ANALYTICAL RESULTS

3.1 CLOSED AREA I COMPLIANCE WELLS

Closed Area I is under compliance monitoring status. Therefore, the samples collected on a quarterly basis from these wells are tested for arsenic and K001 constituents. The analytical results for samples obtained from Monitoring Wells TW-101, TW-103, and W-5, have exhibited detectable concentrations of K001 constituents or arsenic within the previous eight quarters. Samples from Monitoring Well W-6 have contained detectable concentrations of only arsenic during that same period. As stated in the January 1996 Semiannual Report, the constituents appeared to be decreasing in each well.

The analytical data reported for the first and second sampling events of 1997 indicate further decreases in the concentrations of the constituents in these wells. With the exception of arsenic, the constituents detected in the groundwater samples from these wells are among those typically found in creosote product. Therefore, it would not be unusual to periodically detect these constituents (in addition to the primary indicator constituent naphthalene) in groundwater samples from the monitor wells.

The other Closed Area I monitoring wells (TW-102, W-7, W-9, W-10, W-12, W-14. W-17, W-18A, and W-18B) have not exhibited detectable concentrations of K001 constituents in the past eight quarters. Monitoring wells W-17 and W-18A have exhibited low levels of arsenic within the past eight quarters, but have not had detectable levels of K001 constituents. Summaries of analytical data for Closed Area I wells are presented as Tables 4 through 16. A summary of the deviations by well are presented in the following sections.

3.1.1 TW-101 Analytical Results

Arsenic was detected in the groundwater samples collected during the last three quarters of 1996 at concentrations below the Maximum Contaminant Level (MCL) of 0.05 mg/L as set forth in the National Primary Drinking Water Regulations. The detected concentrations reported for the last three quarters of 1996 were 0.006 mg/L, 0.005 mg/L, and 0.007 mg/L, respectively. The January and April 1997 samples had concentrations of 0.014 mg/L and of 0.007 mg/L, respectively. Prior to 1996, no reportable concentrations of arsenic had been detected since the first quarter of 1989. Since the Jasper Facility did not use arsenic as a wood preservative, the source of the arsenic is unknown.

As discussed in the July 1996 semiannual report, the analytical results from the first quarter in 1996 reflected a decreasing trend in the naphthalene concentration with a value of 4.24 mg/L being reported. However, the next three quarters show fairly constant concentrations of 4.560 mg/L, 2.98 mg/L and 4.600 mg/L, respectively. In the first and second quarter 1997 sampling events, napthalene was detected at concentrations of 4.04 mg/L and 7.08 mg/L, respectively.

The reported concentrations for the constituent phenanthrene in 1996 indicated a decreasing trend from 1.15 mg/L (January) to 0.892 mg/L (April) to 0.804 mg/L (July). Phenanthrene was not detected in TW-101 during the October 1996 and January 1997 sampling events. However, a concentration of 0.888 mg/L was reported for the April 1997 sampling event.

The constituent fluoranthene was detected in decreasing concentrations with values ranging from 0.36 mg/L in January 1996 to 0.228 mg/L in October 1996. The 1997 sampling events continue the trend with nondetectable concentrations of fluoranthene.

The constituent carbazole was detected during the April and October 1996 sampling events at concentrations of 0.285 mg/L and 0.278 mg/L, respectively. A review of the historical analytical data indicates that in 1994 and 1995 the constituent carbazole was detected during the second and third quarterly sampling events. The constituent was not detected in January or April 1997.

3.1.2 TW-103 Analytical Results

The constituent naphthalene was detected at the indicated concentrations during the following 1996 sampling events: April (0.0248 mg/L), July (0.104 mg/L) and October (0.0178 mg/L). Naphthalene concentrations of 0.456 mg/L and 1.040 mg/L were detected in January and April 1997, respectively. Arsenic was reported above the detection limit in October 1996 at a concentration of 0.013 mg/L. Concentrations of 0.006 mg/L were detected during both 1997 sampling events.

January 1997 sampling results showed detectable concentrations of carbazole (0.018 mg/L) and phenanthrene (0.025 mg/L). Carbazole was not detected during the April sampling event, whereas the phenanthrene concentration increased to 0.0913 mg/L from 0.0254 mg/L in January. Fluoranthene is also reported at a concentration of 0.0135 mg/L compared to a nondetectable concentration in January.

3.1.3 W-5 Analytical Results

The constituent naphthalene was detected during all sampling events in 1996 and the first quarter of 1997 at concentrations ranging from 2.640 mg/L in July to 1.460 mg/L in October. No groundwater sample was collected from this well during the April 1997 sampling event due to a pump failure. Historically, concentrations of naphthalene have not followed a consistent trend in this well.

Overall, arsenic concentrations increased only slightly between the last quarter of 1995 (0.030 mg/L) and the last quarter of 1996 (0.034 mg/L). However, the January 1997 sample results report a decrease in concentration to 0.022 mg/L.

Carbazole and phenol were reported in concentrations above the detectable limit during the January 1996 sampling event. Phenol was not detected during the following April, July and October sampling events. However, carbazole was reported at concentrations of 0.101 mg/L and 0.054 mg/L during the July 1996 and October 1996 sampling events, respectively. January 1997 data report nondetectable concentrations of both carbazole and phenanthrene. The compound 2, 4-dimethylphenol was detected in the W-5 groundwater samples from during all four sampling events in 1996. The constituent was not detected in January 1997.

3.1.4 W-6 Analytical Results

Arsenic has been the only detectable constituent in Monitor Well W-6. Generally, there has been a decreasing trend in the concentrations of arsenic from the first quarter of 1995 (0.082 mg/L) to the second quarter of 1997 (0.052 mg/L).

3.1.5 W-17 Analytical Results

Arsenic was reported to be present in Well W-17 for the October 1996 sampling event at a concentration of 0.012 mg/L which is below the arsenic MCL of 0.05 mg/L. This well had not been sampled since October 1994 due to an insufficient volume of groundwater necessary for sample collection. Upon reviewing historical analytical results for W-17, arsenic had not been reported in detectable concentrations until the fourth quarter of 1996 when it was detected at 0.012 mg/L. The January 1997 sample results

show an undetectable arsenic concentration, whereas the April data show a concentration of 0.004 mg/L.

3.1.6 W-18A Analytical Results

Arsenic was detected during the April 1997 sampling event in monitoring well W-18A at a concentration of 0.009 mg/L. Historically, arsenic had not been detected in this well.

3.2 CLOSED AREA II DETECTION WELLS

Closed Area II is in detection monitoring status, and therefore, the groundwater samples from these wells have historically been analyzed for the indicator parameters Total Organic Carbon (TOC) and Total Organic Halogen (TOX). However, TOX and TOC concentrations have exhibited significant variability in the detection monitoring data, and are not reliable indicators of a release. Therefore, starting in October 1996, TEC has also analyzed the groundwater samples from the Closed Area II wells for K001 constituents. As previously agreed upon with the TNRCC, this sampling is done on a semiannual basis in lieu of statistical analysis of the TOX and TOC data. The three down-gradient Area II wells (W-3, W-4 and W-13) were sampled during both the January and April events. In both the January and April events, W-16, the up-gradient well, was bailed dry and did not recover sufficiently to allow a sample to be collected. As described in Section 1.0, an attempt was made to collect a sample from W-16 through the use of micropurge sampling techniques. This attempt was not successful, but will be described more fully in a later submittal. Table 17 presents a summary of TOC and TOX analytical data for the Closed Area II wells. Tables 18, 19 and 20 present a summary of the K001 data for these wells.

3.2.1 TOX Analytical Results

TOX has historically been detected in only one of the Closed Area II detection wells. W-13 reported concentrations of 0.02 mg/L in the third quarter of 1995 and 0.01 mg/L in the fourth quarter of 1996. TOX was not detected in any of the three wells during either of the 1997 sampling events.

3.2.2 TOC Analytical Results

TOC was detected in W-4 and W-13 in the later two quarters of 1996. The January 1997 sampling event report nondetectable concentrations in these two wells. However, both wells show an increase in concentrations during the April 1997 sampling event. Well W-4 TOC concentrations ranged from 1.4 mg/L (July 1996) to 2.4 mg/L (April 1997). Well W-13 TOC concentrations ranged from 1.2 mg/L (July 1996) to 2.9 mg/L (April 1997). Well W-3 reported a detectable concentration of 1.2 mg/L during the third quarter of 1996. January 1997 data reported a concentration of 2.8 mg/L. Since that time, TOC has not been detected.

3.2.3 K001 Analytical Results

Groundwater samples collected from Wells W-3, W-4 and W-13 (the down-gradient wells) contained no detectable concentrations of the K001 constituents in the January 1997 data.

3.3 CLOSED AREA III DETECTION WELLS

As with Closed Area II, Closed Area III is in detection monitoring status, and all six of the wells in Closed Area III were sampled and analyzed for TOC and TOX during the two quarterly sampling events in 1997 and for K001 constituents in the January 1997

event. A summary of TOC and TOX analytical data is presented in Table 21. The K001 analytical data are presented on Tables 22 through 26.

3.3.1 TOX Analytical Results

TOX was not detected in any detection monitoring well during the first or second quarter 1997 sampling events. Wells W-8, W-15A and W-15B each had concentrations of 0.01 mg/L TOX in October 1996. Prior to that sampling event, TOX had not been detected in the Closed Area III detection wells since the fourth quarter of 1995.

3.3.2 TOC Analytical Results

TOC was detected at 2.4 mg/L in Well W-1 during the January 1997 sampling event and in wells W-15A and W-15B at 2.7 mg/L and 2.6 mg/L, respectively during the April 1997 sampling event. Well W-1 had not previously had a detectable concentration of TOC since the fourth quarter of 1991. The concentration of 2.7 mg/L in well W-15A is a decrease from the fourth quarter 1996 value of 4.6 mg/L. However, the TOC concentration in well W-15B increased from 2.3 mg/L in October 1996 to 2.6 mg/L in April 1997. TOC was not detected in samples from Wells W-8 and W-11 in January and April 1997, although both had detectable values of TOC in the fourth quarter of 1996.

3.3.3 K001 Analytical Results

Groundwater samples collected from Wells W-1, W-2, W-8, W-11, W-15A and W-15B contained no detectable concentrations of K001 constituents during the January 1997 sampling event.

4.0 MEASUREMENT OF PHASE-SEPARATED LIQUID

Dense, non-aqueous phase liquid (DNAPL) was detected in monitor well TW-101 at a thickness of 1.48 feet during the April 1997 sampling event. This is a decrease from 12.15 feet measured in October 1996. The sharp decrease in DNAPL thickness is attributed to the weekly bailing of the DNAPL product conducted at the request of the TNRCC.

2000 Semiannual Groundwater Monitoring Report

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INDUSTRIAL HAZARDOUS WASTE (IHW)

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Houston,
January 24, 2001

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Semi-Annual Groundwater Monitoring Report
Solid Waste Registration No. 31340

Contact:
Charles F. Gurney

Dear Mr. Brydson:

Please find enclosed one copy of the January 2001 Semi-annual Groundwater Monitoring Report for the corrective action and detection monitoring conducted at the Association of Texas Electric Cooperatives, Inc. facility in Jasper, Texas. This report presents the results of the July and October, 2000, semi-annual sampling events as required by Permit No. 50345 and Compliance Plan No. CP-50345

If you have any questions, please do not hesitate to contact me at (713) 266-6867.

Extension:
713-266-6867

Sincerely,

ARCADIS Geraghty & Miller, Inc.

Charles F. Gurney
Area Manager

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COORDINATOR
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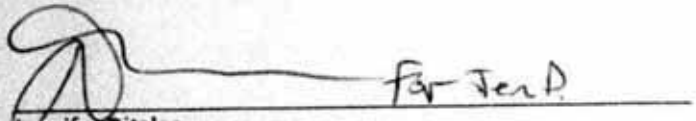
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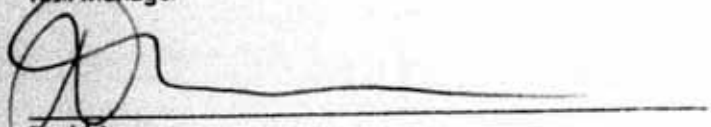
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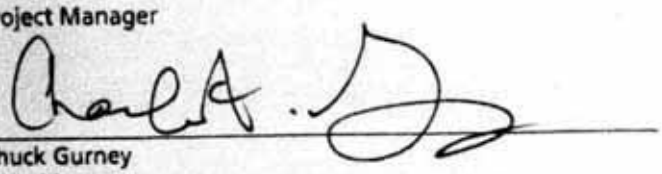
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Introduction

This report presents the results from the July and October 2000 semi-annual groundwater sampling events conducted at the Texas Electric Cooperatives (TEC), Inc. facility in Jasper, Texas (Solid Waste Registration No. 31340). The groundwater monitoring at the site is required by TEC's Industrial and Hazardous Waste Permit (New Permit No. HW-50345) and Compliance Plan (CP-50345) that were issued by the Texas Natural Resource Conservation Commission (TNRCC) in June 1999. The results presented in this report include corrective action monitoring data for Closed Area I and detection monitoring data for Closed Area II and Closed Area III.

Technical requirements for this sampling event are provided in the Sampling and Analysis Plan (SAP) dated September 12, 1997, and revised September 25, 1998, and February 19 and 26, 1999. Beginning in July 1999, samples have been collected on a semi-annually basis (Closed Area I during the first and third quarters and Closed Areas II & III during the second and fourth quarters). Semi-annual reports are submitted in January and July.

Methodologies

RMT, Incorporated provided field services for this sampling event. The sampling was conducted on July 5 and October 9, 2000. A list of all monitoring and corrective action monitoring wells is provided as Table 1. With the exception of installation and operation of submersible groundwater recovery equipment in Wells TW-104, TW-105, TW-106, and TW-107, and the installation and operation of DNAPL recovery equipment in Well TW-101, no changes have been made to the corrective action and monitoring programs at the TEC facility since the issuance of the permit and compliance plans in June 1999.

TEC personnel performed monthly inspections of the cover system, groundwater monitoring system, and general facility components. The checklists for the monthly inspections are provided in Appendix A.

Prior to groundwater sampling, the required wells were purged. Purge water was sent to an on-site biological treatment unit. After processing through the biological treatment unit, the water is sent to the city of Jasper sanitary sewer system.

Monitoring Well W-12 in Closed Area I was bailed dry and did not recover sufficiently to allow samples to be collected. Monitoring Well W-12 has historically been

extremely slow to recover due to its position within the clay levee deposits portion of the aquifer. The aquifer material matrix in this area is not considered transmissive because of its low permeability. Groundwater movement to the well is primarily the result of pore-space water drainage due to the pressure gradient from the aquifer material to the well annulus. This movement is not sufficient to allow sample collection. Prior attempts to collect samples from Well W-12 using micro-purge sampling techniques have also failed. Collection of samples from Well W-12 is not considered critical to the monitoring of the Area I because Well W-12 is one of fourteen down-gradient wells for Closed Area I.

Well TW-101 was not sampled due to the presence of dense non-aqueous phase liquid (DNAPL) in the well. DNAPL has historically been found in the well and the well is currently functioning as a DNAPL recovery well. Collection of samples from Well TW-101 is not considered critical to the monitoring of Area I because the well is surrounded by additional wells that are sampled to monitor down-gradient conditions.

Groundwater Flow And Elevations

Potentiometric surface maps were developed from groundwater elevation data collected in July and October 2000. Groundwater elevations for both sampling events are presented in Table 2 and Table 3, respectively. The groundwater potentiometric surface maps developed from the fluid level data are provided as Figure 1 (July) and Figure 2 (October). As shown on the potentiometric surface maps, groundwater generally flows radially outward from the area near Well TW-103. Closed Area I is directly over an area where the aquifer pinches out, and groundwater does not occur in producible quantities. The formation has a low permeability in this area, and therefore, as indicated on the figure, water typically does not flow directly underneath Closed Area I.

Groundwater flow characteristics measured during the semi-annual sampling event, including static water level, gradient, and flow velocity for the three areas, are included on Table 4. Gradients used in calculating flow velocities were determined by dividing the difference in static water levels in selected monitoring wells by the distance between the wells. Velocities were calculated by multiplying the calculated gradient by hydraulic conductivity and dividing this value by soil porosity. A hydraulic conductivity value of 1,280 gallons per day per square foot and a porosity value of 25%, taken from the *Semi-Annual Groundwater Monitoring Report* by Jones and Neuse, dated January 1997, were used in these calculations.

Fluid level data, well purging data, field parameters, and other field data measured in July and October 2000 are summarized on Tables 5a and 5b. Data from the sampling events are generally consistent with historical data and indicate that groundwater elevations and flow directions have not changed significantly over time.

Analytical Results

Samples were collected from the monitoring wells on July 5 and October 9, 2000. Field parameter data for all three of the closed areas are summarized on Table 6. Appendix B contains the laboratory analytical report for this sampling event.

Closed Area I

Closed Area I is under corrective action monitoring status. Requirements for Closed Area I are provided in the SAP. With the exception of Wells W-12, TW-101, and W-105 (recovery well), as previously described, groundwater samples were collected from all of the Closed Area I Compliance, Observation, Supplemental, and Background Wells during the July 2000 sampling event. The samples collected from the Closed Area I Monitoring Wells were analyzed for naphthalene and arsenic.

Naphthalene was detected in two wells at concentrations of 3.320 mg/L (TW-103) and 18.60 mg/L (TW-5). A summary of analytical results for the January and July 2000 sampling events is presented as Table 7. There is an increase in concentrations in Well W-5 from January to July 2000(5.5 mg/L to 18.6 mg/L respectively). Naphthalene concentrations also increased slightly in Well TW-103 from January to July 2000 (2.76 mg/L to 3.32 mg/L respectively). Naphthalene concentrations in both of these monitoring wells exceed the Medium Specific Concentration (MSC) of 1.46 mg/L shown in Table 1 of the Compliance Plan. The other wells sampled in Closed Area 1 remain below the laboratory detection limit for Naphthalene. Figure 3 depicts naphthalene concentrations in the Closed Area I monitoring wells.

Arsenic is considered naturally occurring and therefore monitored only for the purpose of assessing the heterogeneous distributions in the formation. Arsenic was detected in three wells at concentrations of 0.0231 mg/L (TW-103), 0.0492 mg/L (W-5), and 0.0647 mg/L (W-6).

Closed Area II

Closed Area II is under detection monitoring status. Four Monitoring Wells (W-3, W-4, W-11, and W-13) are required to be sampled by the permit. Well W-13 was dry; therefore it was not sampled during the October 2000 sampling event. The samples collected from these wells were analyzed for naphthalene.

Naphthalene was not detected in any of the wells sampled in Closed Area II during this event. Table 8 presents a summary of analytical data for the Closed Area II wells.

Closed Area III

As with Closed Area II, Closed Area III is in detection monitoring status. Six Closed Area III Wells (Wells W-1, W-2, W-8, W-11, W-15A, and W-15B) were sampled and analyzed for naphthalene during the October 2000 sampling event as required by the permit.

Naphthalene was not detected in any of the monitoring wells in Closed Area III during this sampling event. The analytical results are summarized on Table 8.

Recovery System

As required by the TNRCC, a recovery system for DNAPL and groundwater was installed at the TEC facility. The system consists of a belt skimmer for DNAPL recovery in Well TW-101, and submersible pumps for groundwater recovery in Wells TW-104, W-105, TW-106, and TW-107. The skimmer was in operation on July 1, 2000, while the remaining portion of the system came online on August 1, 2000.

The skimmer in TW-101 is run for 30 minutes each day of the work week. In the six-month period beginning on July 1, 2000, approximately 39.5 gallons of water and 27.5 gallons of product have been recovered from TW-101. The product recovered from TW-101 is placed in creosote tanks and cycled back into the TEC plant system. All recovered water is sent to the on-site biological treatment unit and after processing, to the City of Jasper sewer system.

The submersible pumps in Wells TW-104 through TW-107 are turned on each day of the work week and allowed to run until the well is dry. From August 1, 2000 until the end of the year, the following amounts of groundwater were recovered: 2278 gallons from Well W-105, zero gallons from Well TW-104, zero gallons from Well TW-106,

and 80 gallons from Well TW-107. As stated above, all recovered groundwater is sent to the on-site biological treatment unit and after processing, to the City of Jasper sewer system. It is believed that no water has been recovered from Wells TW-104 and TW-106 due to severe drought conditions.

Schedule

Installation of the corrective action system for the TEC facility is complete and operational as of August 1, 2000.

The first semi-annual sampling event of 2001 will be conducted within the first thirty days of January. The SAP will be revised to reflect the updated monitoring list given in the Compliance Plan during the first quarter of 2001. Supplemental monitoring wells will be sampled once every three years for analysis of arsenic and creosote constituents (supplemental sampling scheduled for year-end 2001).

Conclusions and Recommendations

The following conclusions can be made from the semi-annual sampling event:

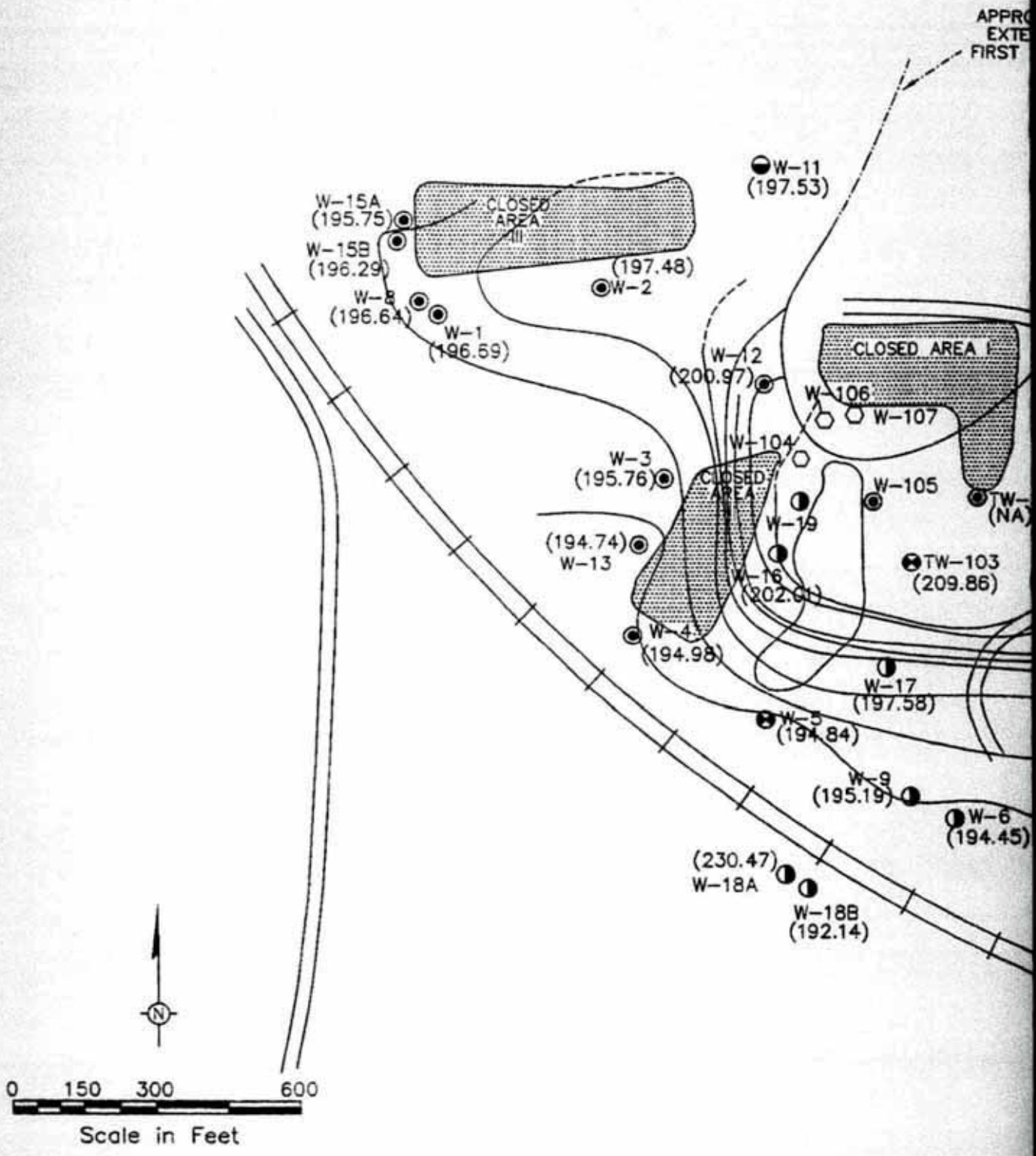
1) The potentiometric surface has not changed significantly.

2) Naphthalene continues to be detected in Closed Area I monitoring wells. Naphthalene concentrations in the upgradient well (TW-103) were slightly higher than the previous sampling event, while the downgradient well (W-5) was slightly lower than the previous sampling event.

3) Naphthalene was not detected in Closed Areas II or III monitoring wells.

4) Recovery of creosote from TW-101 and groundwater from TW-104 through TW-107 will continue.

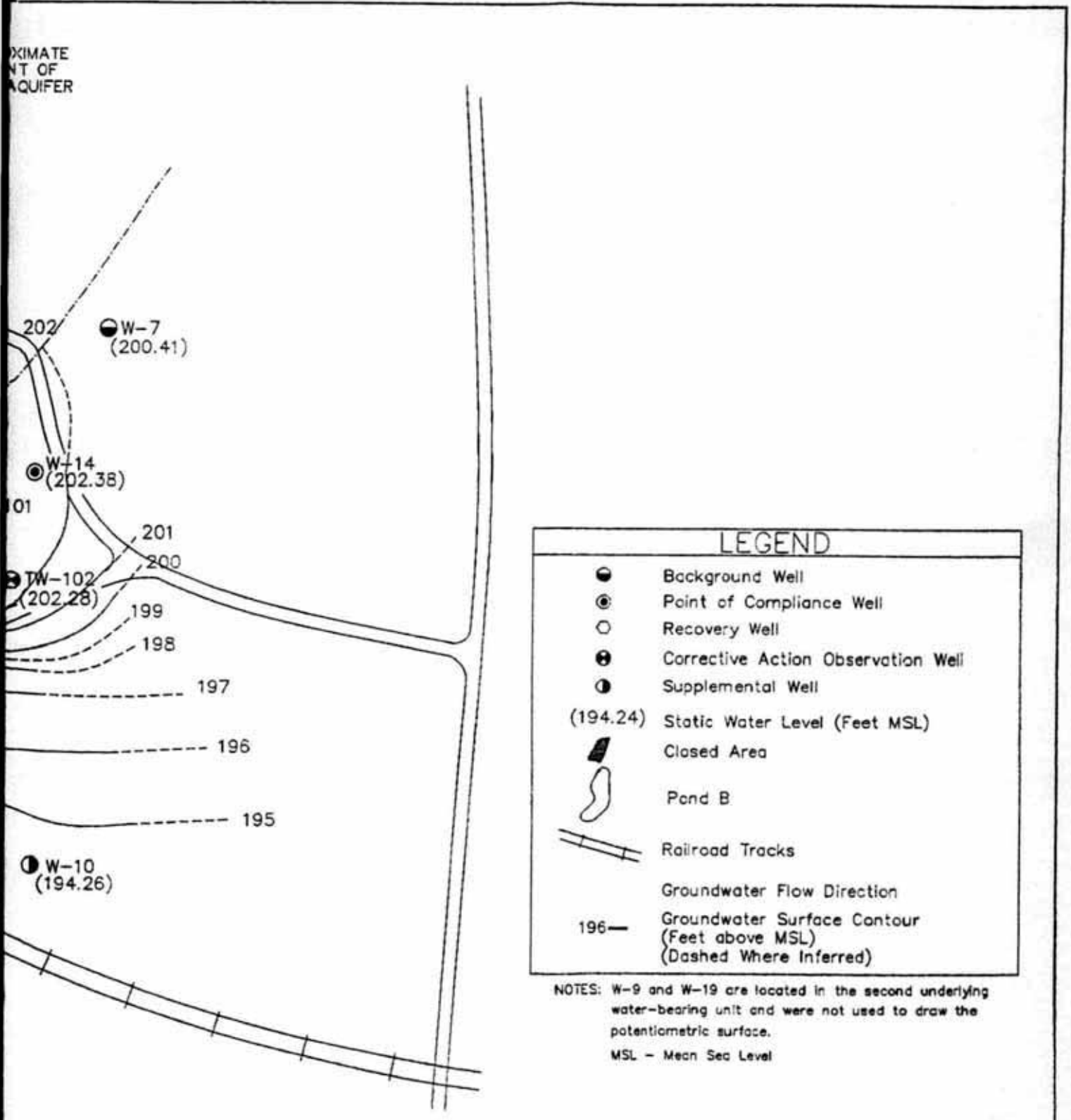
Figures



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NOTES: W-9 and W-19 are located in the second underlying water-bearing unit and were not used to draw the potentiometric surface.

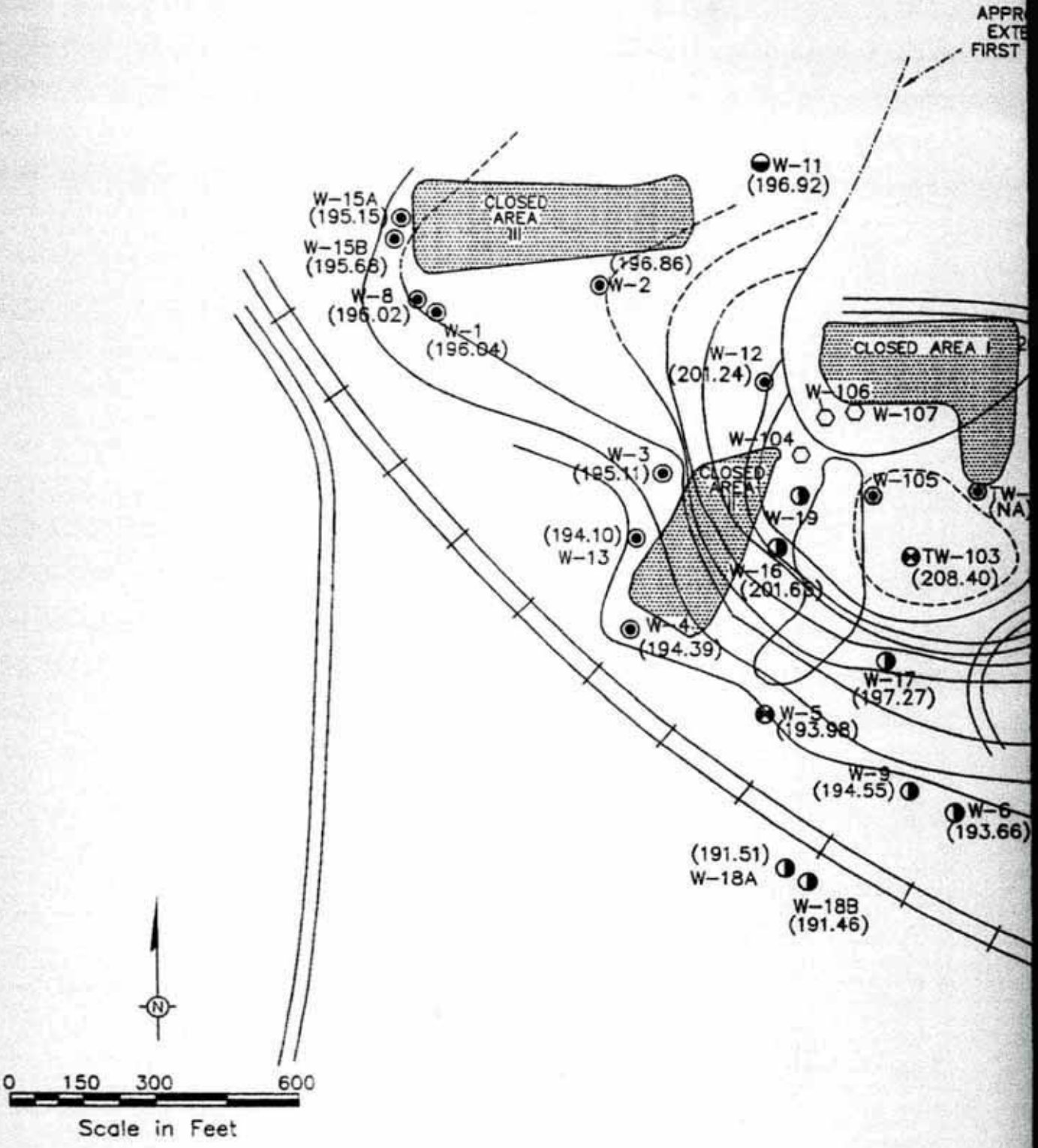
MSL – Mean Sea Level

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Potentiometric Surface Map
July 2000
Semi-Annual Groundwater Monitoring Report
Texas Electric Cooperatives, Inc.
Jasper, Texas

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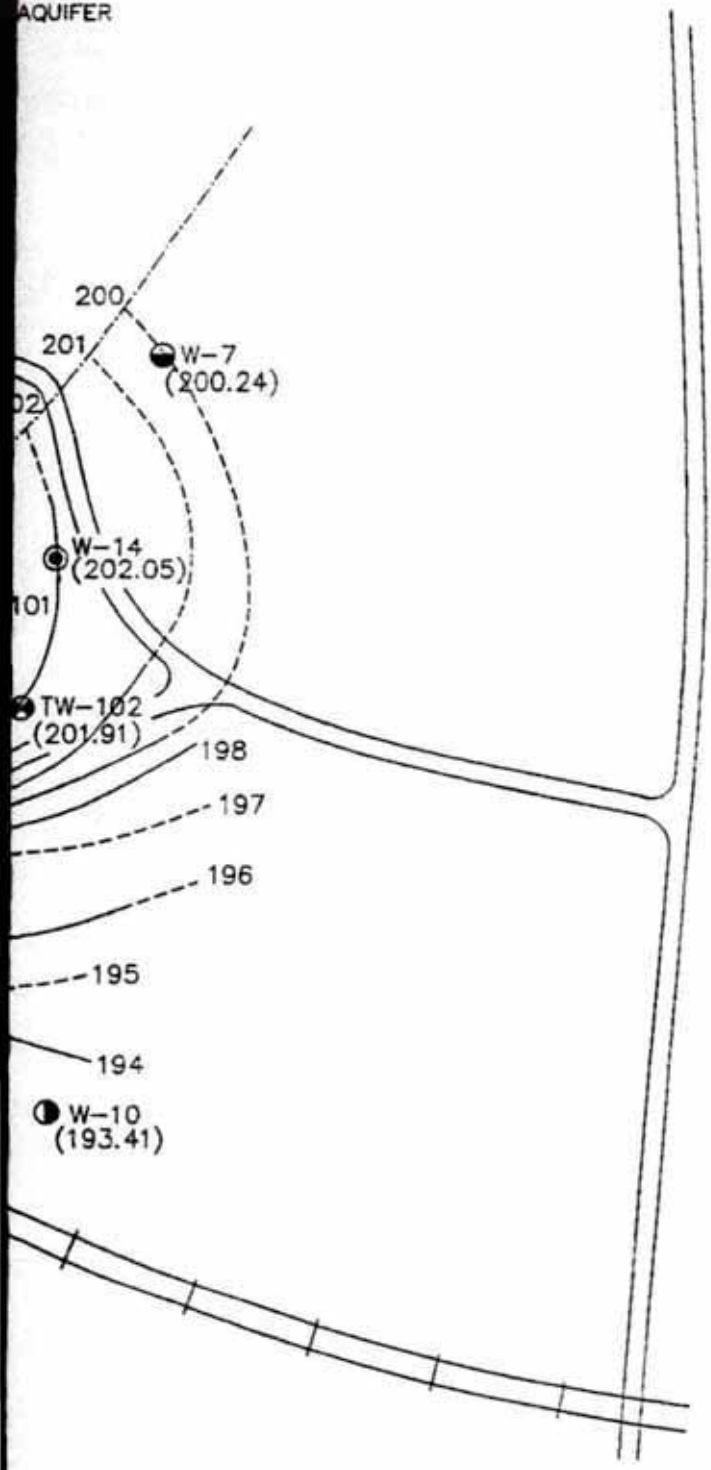
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LEGEND

- Background Well
- Point of Compliance Well
- Recovery Well
- Corrective Action Observation Well
- Supplemental Well
- (194.24) Static Water Level (Feet MSL)
- Closed Area
- Pond B
- Railroad Tracks
- Groundwater Flow Direction
- 196 Groundwater Surface Contour (Feet above MSL) (Dashed Where Inferred)

NOTES: W-9 and W-19 are located in the second underlying water-bearing unit and were not used to draw the potentiometric surface.

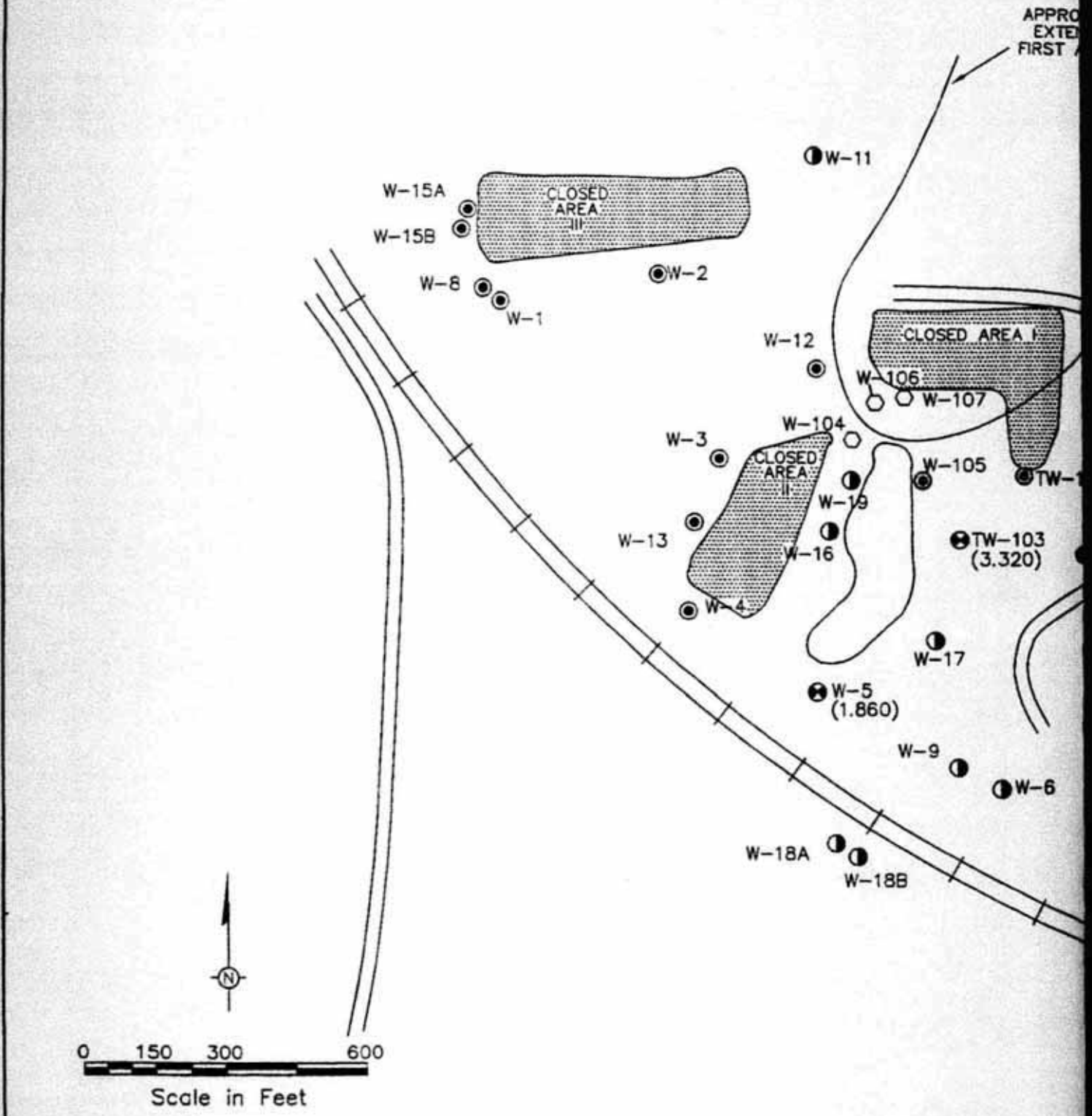
MSL - Mean Sea Level

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Potentiometric Surface Map
October 2000
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Texas Electric Cooperatives, Inc.
Jasper, Texas

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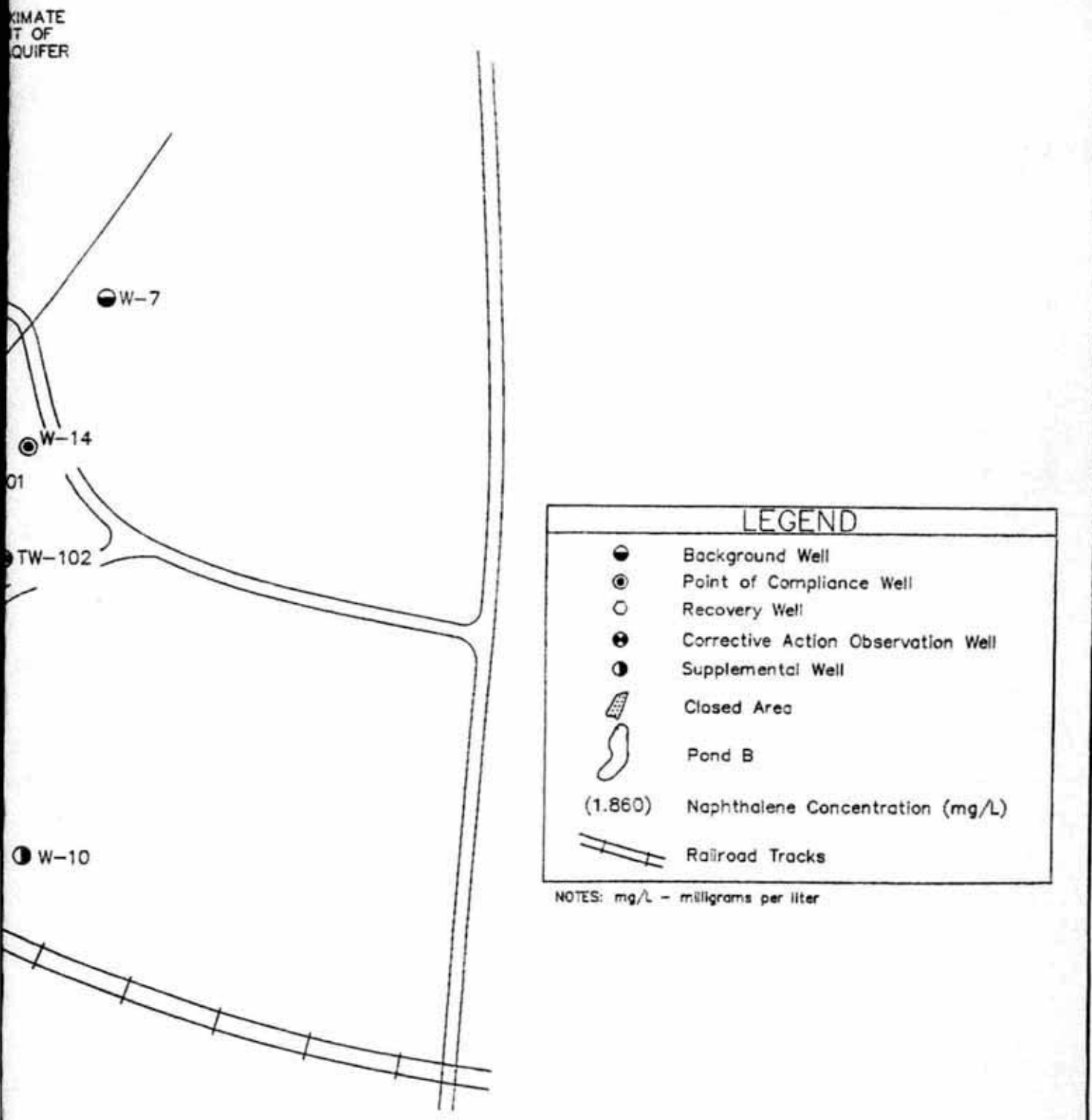
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Naphthalene Concentrations - Closed Area I
July 2000
Semi-Annual Groundwater Monitoring Report
Texas Electric Cooperatives, Inc.
Jasper, Texas

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PROJECT NUMBER	FIGURE
HT000272.0002	3

Tables

Table 1
Closed Areas System Wells
Texas Electric Cooperative, Inc.
Jasper, Texas

Well	Closed Area Designation	Well Type
W-1	III	POC
W-2	III	POC
W-3	II	POC
W-4	II	POC
W-5	I	O
W-6	I	S
W-7	I	B
W-8	III	POC
W-9	I	S
W-10	I	S
W-11	II/III	B
W-12	I	POC
W-13	II	POC
W-14	I	POC
W-15A	III	POC
W-15B	III	POC
W-16	II	SB
W-17	I	S
W-18A	I	S
W-18B	I	S
TW-101	I	POC
TW-102	I	O
TW-103	I	O
W-105	I	POC

Well Type:
POC - Point of Compliance
B - Background
SB - Supplemental Background
S - Supplemental
O - Observation

Table 2
July 2000
Water Levels
Texas Electric Cooperative, Inc.
Jasper, Texas

Well	Top of Casing (feet above msl)	Water Level (feet btoc)	Total Well Depth (feet btoc)	Water Elevation (feet above msl)
W-1	246.84	50.15	109.35	196.69
W-2	247.69	50.21	79.81	197.48
W-3	239.41	43.65	77.47	195.76
W-4	237.58	42.60	50.30	194.98
W-5	221.51	26.67	42.17	194.84
W-6	230.00	35.55	54.17	194.45
W-7	250.89	50.48	61.10	200.41
W-8	245.92	49.28	78.55	196.64
W-9	221.75	26.56	114.63	195.19
W-10	239.24	44.98	58.29	194.26
W-11	231.44	33.91	59.27	197.53
W-12	227.86	26.89	27.60	200.97
W-13	238.91	44.17	51.30	194.74
W-14	245.76	43.38	48.95	202.38
W-15A	243.59	47.84	82.30	195.75
W-15B	243.61	47.32	65.60	196.29
W-16	232.42	30.41	31.90	202.01
W-17	227.66	30.08	32.00	197.58
W-18A	230.47	38.28	48.20	192.19
W-18B	230.28	38.14	67.80	192.14
W-19	NA	33.05	80.95	NA
TW-101	234.49	NM	46.00	NA
TW-102	240.26	37.98	45.21	202.28
TW-103	228.72	18.86	26.00	209.86
W-105	NA	NM	32.45	NA

msl - mean sea level.
btoc - below top of casing.
NM - Not Measured.
NA - Not Available.

Table 3
October 2000
Water Levels
Texas Electric Cooperative, Inc.
Jasper, Texas

Well	Top of Casing (feet above msl)	Water Level (feet btoc)	Total Well Depth (feet btoc)	Water Elevation (feet above msl)
W-1	246.84	50.80	109.35	196.04
W-2	247.69	50.83	79.81	196.86
W-3	239.41	44.30	77.47	195.11
W-4	237.58	43.19	50.30	194.39
W-5	221.51	27.53	42.17	193.98
W-6	230.00	36.34	54.17	193.66
W-7	250.89	50.65	61.10	200.24
W-8	245.92	49.90	78.55	196.02
W-9	221.75	27.20	114.63	194.55
W-10	239.24	45.83	58.29	193.41
W-11	231.44	34.52	59.27	196.92
W-12	227.86	26.86	27.60	201.00
W-13	238.91	44.81	51.30	194.10
W-14	245.76	43.71	48.95	202.05
W-15A	243.59	48.44	82.30	195.15
W-15B	243.61	47.93	65.60	195.68
W-16	232.42	30.77	31.90	201.65
W-17	227.66	30.39	32.00	197.27
W-18A	230.47	38.96	48.20	191.51
W-18B	230.28	38.82	67.80	191.46
W-19	NA	33.08	80.95	NA
TW-101	234.49	NM	46.00	NA
TW-102	240.26	38.35	45.21	201.91
TW-103	228.72	20.32	26.00	208.40
W-105	NA	NM	32.45	NA

msl - mean sea level.

btoc - below top of casing.

NM - Not Measured.

NA - Not Available.

Table 4
Closed Areas System Wells
Texas Electric Cooperative, Inc.
Jasper, Texas

Area	Measurement	Unit	Well Number	July 2000	October 2000
1	Water Level	ft-msl	TW-103	209.86	208.40
	Water Level	ft-msl	W-14	202.38	202.05
	Gradient	ft/ft	---	0.0192	0.0163
	Velocity	ft/day	---	13.1	11.1
2	Water Level	ft-msl	TW-103	209.86	208.40
	Water Level	ft-msl	W-4	194.98	194.39
	Gradient	ft/ft	---	0.0240	0.0226
	Velocity	ft/day	---	16.4	15.4
3	Water Level	ft-msl	W-11	197.53	196.92
	Water Level	ft-msl	W-15A	195.75	195.15
	Gradient	ft/ft	---	0.0023	0.0023
	Velocity	ft/day	---	1.6	1.5

Distance: TW-103 TO W-14 = 390 feet
TW-103 TO W-4 = 620 feet
W-11 TO W-15A = 780 feet

Velocity = [Hydraulic Conductivity (K) * Gradient /* Porosity (n)]* Conversion Factor
where:
K = 1280 GPD/ft^2 Conversion Factor=0.13365 (ft^3/gal)
n = 25%

msl - Mean Sea Level
ft - feet
GPD/ft^2 - gallons per day per square foot
Hydraulic conductivity and porosity constants used to calculate flow velocities were taken from Semi-Annual Groundwater Report, January 1997 (Jones and Neuse, 1997).

Table 5a
July 2000 Sampling Event
Field Data Sheet
Jasper, Texas

WELL PURGING DATA			Well No. MW-5	Well No. MW-6	Well No. MW-7	Well No. MW-9
(A) Water Level Measurement	N/A	feet below top of casing	26.67	35.55	50.48	26.56
(B) Top of DNAPL	N/A	feet below top of casing	NPM	NPM	NPM	NPM
(C) Bottom of Well	N/A	feet below top of casing	109.35	79.81	77.47	50.3
(D) Height of Fluid Column	(C) - (A)	feet	82.68	44.26	26.99	23.74
(E) Fluid Volume of Well	(D) x (0.661)	gallons	54.65	29.26	17.84	15.69
(F) Fluid Volume to be Purged	(E) x (3)	gallons	163.95	87.77	53.52	47.08
(G) Well Production Rate	N/A	gallons per minute	20.0	20.0	20.0	20.0
(H) Production time required	(F)/(G)	minutes	8	5	3	3
GROUNDWATER FIELD PARAMETERS						
(I) Temperature	N/A	°C	22.4	24.2	22.4	23.3
(J) pH	N/A	standard units	5.44	5.41	6.15	5.35
(K) Specific Conductance	N/A	umhos/cm	869	551	1640	121
FIELD CONDITIONS						
(L) Approx. Air Temperature	N/A	°F	95	95	95	95
(M) Weather Conditions	N/A	clear, rainy, etc.	Clear	Clear	Clear	Clear
OTHER INFORMATION						
(N) Time at Start of Purging	N/A	hours	1620	1540	1512	1330
(O) Time at Completion of Purging	N/A	hours	1629	1545	1515	1333
(P) COC Sample Designation	N/A	N/A	MW-5	MW-6	MW-7	MW-9
(Q) Sampler's Initials	N/A	N/A	MBB	MBB	MBB	MBB
(R) Time of Sample Collection	N/A	hours	1630	1545	1515	1335

Std. Units- Standard Units.
umhos/cm- microhms per container.
F- degrees Farenheit.
C- degrees Celsius.
NA- Not Applicable.
NS- Not Sampled
NPM- Not Product Measured

Table 5a
July 2000 Sampling Event
Field Data Sheet
Jasper, Texas

WELL PURGING DATA			Well No. MW-10	Well No. MW-12	Well No. MW-14	Well No. MW-17
(A) Water Level Measurement	N/A	feet below top of casing	44.98	26.89	43.38	30.08
(B) Top of DNAPL	N/A	feet below top of casing	NPM	NPM	NPM	NPM
(C) Bottom of Well	N/A	feet below top of casing	58.29	27.6	48.95	32.00
(D) Height of Fluid Column	(C) - (A)	feet	13.31	0.71	5.57	1.92
(E) Fluid Volume of Well	(D) x (0.661)	gallons	8.80	D	3.68	1.27
(F) Fluid Volume to be Purged	(E) x (3)	gallons	26.39	R	11.05	3.81
(G) Well Production Rate	N/A	gallons per minute	20.0	Y	0.85	0.85
(H) Production time required	(F)/(G)	minutes	2	n/a	Dry 7 gals.	Dry 2 gals.
GROUNDWATER FIELD PARAMETERS						
(I) Temperature	N/A	°C	23.1	n/a	25.9	23.9
(J) pH	N/A	standard units	6.16	n/a	6.06	4.72
(K) Specific Conductance	N/A	umhos/cm	574	n/a	2020	396
FIELD CONDITIONS						
(L) Approx. Air Temperature	N/A	°F	95	95	95	95
(M) Weather Conditions	N/A	clear, rainy, etc.	Clear	Clear	Clear	Clear
OTHER INFORMATION						
(N) Time at Start of Purging	N/A	hours	1259	n/a	1435	1550
(O) Time at Completion of Purging	N/A	hours	1301	n/a	1455	1605
(P) COC Sample Designation	N/A	N/A	MW-10	MW-12	MW-14	MW-17
(Q) Sampler's Initials	N/A	N/A	MBB	MBB	MBB	MBB
(R) Time of Sample Collection	N/A	hours	1305	n/a	1502	1610

Std. Units- Standard Units.
umhos/cm- microhms per container.
F- degrees Farenheit.
C- degrees Celsius.
NA- Not Applicable.
NS- Not Sampled
NPM- Not Product Measured

Table 5a
July 2000 Sampling Event
Field Data Sheet
Jasper, Texas

WELL PURGING DATA			Well No. W-18A	Well No. W-18B	Well No. W-19 (2")	Well No. TW-101
(A) Water Level Measurement	N/A	feet below top of casing	38.28	38.14	33.05	Recovery Well
(B) Top of DNAPL	N/A	feet below top of casing	NPM	NPM	NPM	
(C) Bottom of Well	N/A	feet below top of casing	48.20	67.8	80.20	46.00
(D) Height of Fluid Column	(C) - (A)	feet	9.92	29.66	47.15	D
(E) Fluid Volume of Well	(D) x (0.661)	gallons	6.56	19.61	8.20	N
(F) Fluid Volume to be Purged	(E) x (3)	gallons	19.67	58.82	24.61	A
(G) Well Production Rate	N/A	gallons per minute	20.0	20.00	5.00	P
(H) Production time required	(F)/(G)	minutes	1	3	5	L
GROUNDWATER FIELD PARAMETERS						
(I) Temperature	N/A	°C	21.2	22.7	22.6	n/a
(J) pH	N/A	standard units	4.01	4.75	6.08	n/a
(K) Specific Conductance	N/A	umhos/cm	380	450	321	n/a
FIELD CONDITIONS						
(L) Approx. Air Temperature	N/A	°F	90	90	95	n/a
(M) Weather Conditions	N/A	clear, rainy, etc.	Clear	Clear	Clear	n/a
OTHER INFORMATION						
(N) Time at Start of Purging	N/A	hours	1149	1141	n/a	n/a
(O) Time at Completion of Purging	N/A	hours	1150	1144	n/a	n/a
(P) COC Sample Designation	N/A	N/A	W-18A	W-18B	W-19 (2")	TW-101
(Q) Sampler's Initials	N/A	N/A	MBB	MBB	MBB	MBB
(R) Time of Sample Collection	N/A	hours	1150	1145	1535	n/a

Std. Units- Standard Units.
umhos/cm- microhms per container.
F- degrees Farenheit.
C- degrees Celsius.
NA- Not Applicable.
NS- Not Sampled
NPM- Not Product Measured

Table 5a
July 2000 Sampling Event
Field Data Sheet
Jasper, Texas

WELL PURGING DATA			Well No. TW-102	Well No. TW-103	Well No. W-105
(A) Water Level Measurement	N/A	feet below top of casing	37.98	18.86	Recovery well
(B) Top of DNAPL	N/A	feet below top of casing	NPM	NPM	
(C) Bottom of Well	N/A	feet below top of casing	45.21	28	
(D) Height of Fluid Column	(C) - (A)	feet	7.23	9.14	
(E) Fluid Volume of Well	(D) x (0.661)	gallons	4.78	6.04	
(F) Fluid Volume to be Purged	(E) x (3)	gallons	14.34	18.12	
(G) Well Production Rate	N/A	gallons per minute	0.50	0.85	
(H) Production time required	(F)/(G)	minutes	Dry 5 gals.	Dry 10 gals.	
GROUNDWATER FIELD PARAMETERS					
(I) Temperature	N/A	°C	25.7	223.9	
(J) pH	N/A	standard units	6.06	5.62	
(K) Specific Conductance	N/A	umhos/cm	2810	768	
FIELD CONDITIONS					
(L) Approx. Air Temperature	N/A	°F	95	95	
(M) Weather Conditions	N/A	clear, rainy, etc.	Clear	Clear	
OTHER INFORMATION					
(N) Time at Start of Purging	N/A	hours	1350	1410	
(O) Time at Completion of Purging	N/A	hours	1352	1420	
(P) COC Sample Designation	N/A	N/A	TW-102	TW-103	
(Q) Sampler's Initials	N/A	N/A	MBB	MBB	
(R) Time of Sample Collection	N/A	hours	1355	1425	

Std. Units- Standard Units.
umhos/cm- microhms per container.
F- degrees Farenheit.
C- degrees Celsius.
NA- Not Applicable.
NS- Not Sampled
NPM- Not Product Measured

Table 5a
July 2000 Sampling Event
Field Data Sheet
Jasper, Texas

AREA II Detection Monitoring wells	Well No. MW-3	Well No. MW-4	Well No. MW-13	Well No. MW-16		
Depth to Water (ft.)	43.65	42.6	44.17	30.41		
AREA III Detection Monitoring wells	**Well No. MW-1**	**Well No. MW-2**	**Well No. MW-8**	**Well No. MW-11**	**Well No. MW-15A**	**Well No. MW-15B**
Depth to Water (ft.)	50.15	50.21	49.28	33.91	47.84	47.32

Std. Units- Standard Units.
umhos/cm- microhms per container.
F- degrees Farenheit.
C- degrees Celsius.
NA- Not Applicable.
NS- Not Sampled
NPM- Not Product Measured

Table 5b
October 2000 Sampling Event
Field Data Sheet
Jasper, Texas

WELL PURGING DATA			Well No. MW-5	Well No. MW-6	Well No. MW-7	Well No. MW-9
(A) Water Level Measurement	N/A	feet below top of casing	27.53	36.34	50.65	27.2
(B) Top of DNAPL	N/A	feet below top of casing	NPM	NPM	NPM	NPM
(C) Bottom of Well	N/A	feet below top of casing	109.35	79.81	77.47	50.3
(D) Height of Fluid Column	(C) - (A)	feet				
(E) Fluid Volume of Well	(D) x (0.661)	gallons				
(F) Fluid Volume to be Purged	(E) x (3)	gallons				
(G) Well Production Rate	N/A	gallons per minute	20.0	20.0	20.0	20.0
(H) Production time required	(F)/(G)	minutes				
GROUNDWATER FIELD PARAMETERS						
(I) Temperature	N/A	°C				
(J) pH	N/A	standard units				
(K) Specific Conductance	N/A	umhos/cm				
FIELD CONDITIONS						
(L) Approx. Air Temperature	N/A	°F				
(M) Weather Conditions	N/A	clear, rainy, etc.				
OTHER INFORMATION						
(N) Time at Start of Purging	N/A	hours				
(O) Time at Completion of Purging	N/A	hours				
(P) COC Sample Designation	N/A	N/A	MW-5	MW-6	MW-7	MW-9
(Q) Sampler's Initials	N/A	N/A				
(R) Time of Sample Collection	N/A	hours				

Std. Units- Standard Units.
umhos/cm- microhms per container.
F- degrees Farenheit.
C- degrees Celsius.
NA- Not Applicable.
NS- Not Sampled
NPM- Not Product Measured

Table 5b
October 2000 Sampling Event
Field Data Sheet
Jasper, Texas

WELL PURGING DATA			Well No. MW-10	Well No. MW-12	Well No. MW-14	Well No. MW-17
(A) Water Level Measurement	N/A	feet below top of casing	45.83	26.86	43.71	30.39
(B) Top of DNAPL	N/A	feet below top of casing	NPM	NPM	NPM	NPM
(C) Bottom of Well	N/A	feet below top of casing	58.29	27.6	48.95	32.00
(D) Height of Fluid Column	(C) - (A)	feet				
(E) Fluid Volume of Well	(D) x (0.661)	gallons				
(F) Fluid Volume to be Purged	(E) x (3)	gallons				
(G) Well Production Rate	N/A	gallons per minute	20.0	0.85	0.85	0.85
(H) Production time required	(F)/(G)	minutes				
GROUNDWATER FIELD PARAMETERS						
(I) Temperature	N/A	°C				
(J) pH	N/A	standard units				
(K) Specific Conductance	N/A	umhos/cm				
FIELD CONDITIONS						
(L) Approx. Air Temperature	N/A	°F				
(M) Weather Conditions	N/A	clear, rainy, etc.				
OTHER INFORMATION						
(N) Time at Start of Purging	N/A	hours				
(O) Time at Completion of Purging	N/A	hours				
(P) COC Sample Designation	N/A	N/A	MW-10	MW-12	MW-14	MW-17
(Q) Sampler's Initials	N/A	N/A				
(R) Time of Sample Collection	N/A	hours				

Std. Units- Standard Units.
umhos/cm- microhms per container.
F- degrees Farenheit.
C- degrees Celsius.
NA- Not Applicable.
NS- Not Sampled
NPM- Not Product Measured

Table 5b
October 2000 Sampling Event
Field Data Sheet
Jasper, Texas

WELL PURGING DATA			Well No. W-18A	Well No. W-18B	Well No. W-19	Well No. TW-101
(A) Water Level Measurement	N/A	feet below top of casing	38.96	38.82	33.08	Recovery System
(B) Top of DNAPL	N/A	feet below top of casing	NPM	NPM	NPM	Installed
(C) Bottom of Well	N/A	feet below top of casing	48.20	67.8	80.95	46.00
(D) Height of Fluid Column	(C) - (A)	feet				
(E) Fluid Volume of Well	(D) x (0.661)	gallons				
(F) Fluid Volume to be Purged	(E) x (3)	gallons				
(G) Well Production Rate	N/A	gallons per minute	20.0	20.00	0.85	0.85
(H) Production time required	(F)/(G)	minutes				
GROUNDWATER FIELD PARAMETERS						
(I) Temperature	N/A	°C				
(J) pH	N/A	standard units				
(K) Specific Conductance	N/A	umhos/cm				
FIELD CONDITIONS						
(L) Approx. Air Temperature	N/A	°F				
(M) Weather Conditions	N/A	clear, rainy, etc.				
OTHER INFORMATION						
(N) Time at Start of Purging	N/A	hours				
(O) Time at Completion of Purging	N/A	hours				
(P) COC Sample Designation	N/A	N/A	W-18A	W-18B	W-19	TW-101
(Q) Sampler's Initials	N/A	N/A				
(R) Time of Sample Collection	N/A	hours				

Std. Units- Standard Units.
umhos/cm- microhms per container.
F- degrees Farenheit.
C- degrees Celsius.
NA- Not Applicable.
NS- Not Sampled
NPM- Not Product Measured

Table 5b
October 2000 Sampling Event
Field Data Sheet
Jasper, Texas

WELL PURGING DATA			Well No. TW-102	Well No. TW-103	Well No. W-105
(A) Water Level Measurement	N/A	feet below top of casing	38.35	20.32	Recovery Well
(B) Top of DNAPL	N/A	feet below top of casing	NPM	NPM	NPM
(C) Bottom of Well	N/A	feet below top of casing	45.21	28	32.85
(D) Height of Fluid Column	(C) - (A)	feet			
(E) Fluid Volume of Well	(D) x (0.661)	gallons			
(F) Fluid Volume to be Purged	(E) x (3)	gallons			
(G) Well Production Rate	N/A	gallons per minute	0.85	0.85	0.85
(H) Production time required	(F)/(G)	minutes			
GROUNDWATER FIELD PARAMETERS					
(I) Temperature	N/A	°C			
(J) pH	N/A	standard units			
(K) Specific Conductance	N/A	umhos/cm			
FIELD CONDITIONS					
(L) Approx. Air Temperature	N/A	°F			
(M) Weather Conditions	N/A	clear, rainy, etc.			
OTHER INFORMATION					
(N) Time at Start of Purging	N/A	hours			
(O) Time at Completion of Purging	N/A	hours			
(P) COC Sample Designation	N/A	N/A	TW-102	TW-103	W-105
(Q) Sampler's Initials	N/A	N/A			
(R) Time of Sample Collection	N/A	hours			

Std. Units- Standard Units.
umhos/cm- microhms per container.
F- degrees Farenheit.
C- degrees Celsius.
NA- Not Applicable.
NS- Not Sampled
NPM- Not Product Measured

Table 5b
October 2000 Sampling Event
Field Data Sheet
Jasper, Texas

WELL PURGING DATA			Well No. MW-3	Well No. MW-4	Well No. MW-13	Well No. MW-16
(A) Water Level Measurement	N/A	feet below top of casing	44.30	43.19	44.81	30.77
(B) Top of DNAPL	N/A	feet below top of casing	NPM	NPM	NPM	NPM
(C) Bottom of Well	N/A	feet below top of casing	77.47	50.3	51.30	31.23
(D) Height of Fluid Column	(C) - (A)	feet	33.17	7.11	6.49	0.46
(E) Fluid Volume of Well	(D) x (0.661)	gallons	21.93	4.70	4.29	0.30
(F) Fluid Volume to be Purged	(E) x (3)	gallons	65.78	14.10	12.87	0.91
(G) Well Production Rate	N/A	gallons per minute	20.0	20.00	20.00	0.85
(H) Production time required	(F)/(G)	minutes	4	1	DRY	DRY
GROUNDWATER FIELD PARAMETERS						
(I) Temperature	N/A	°C	18.8	18.9	D	D
(J) pH	N/A	standard units	5.69	5.63	R	R
(K) Specific Conductance	N/A	umhos/cm	110	109	Y	Y
FIELD CONDITIONS						
(L) Approx. Air Temperature	N/A	°F	50	50	50	50
(M) Weather Conditions	N/A	clear, rainy, etc.	Cloudy	Cloudy	Cloudy	Cloudy
OTHER INFORMATION						
(N) Time at Start of Purging	N/A	hours	1138	1149	N/A	N/A
(O) Time at Completion of Purging	N/A	hours	1142	1150	N/A	N/A
(P) COC Sample Designation	N/A	N/A	MW-3	MW-4	MW-13	MW-16
(Q) Sampler's Initials	N/A	N/A	MBB	MBB	MBB	MBB
(R) Time of Sample Collection	N/A	hours	1145	1152	DRY	DRY

Std. Units- Standard Units.
umhos/cm- microhms per container.
F- degrees Farenheit.
C- degrees Celsius.
NA- Not Applicable.
NS- Not Sampled
NPM- Not Product Measured

Table 5b
October 2000 Sampling Event
Field Data Sheet
Jasper, Texas

WELL PURGING DATA			Well No. MW-1	Well No. MW-2	Well No. MW-8	Well No. MW-11
(A) Water Level Measurement	N/A	feet below top of casing	50.8	50.83	49.90	34.52
(B) Top of DNAPL	N/A	feet below top of casing	NPM	NPM	NPM	NPM
(C) Bottom of Well	N/A	feet below top of casing	109.35	79.81	78.55	59.27
(D) Height of Fluid Column	(C) - (A)	feet	58.55	28.98	28.65	24.75
(E) Fluid Volume of Well	(D) x (0.661)	gallons	38.70	19.16	18.94	16.36
(F) Fluid Volume to be Purged	(E) x (3)	gallons	116.10	57.47	56.81	49.08
(G) Well Production Rate	N/A	gallons per minute	20.0	20.00	20.00	20.00
(H) Production time required	(F)/(G)	minutes	6	3	3	3
GROUNDWATER FIELD PARAMETERS						
(I) Temperature	N/A	°C	18.4	17.6	18.5	17.7
(J) pH	N/A	standard units	5.72	5.9	5.39	5.92
(K) Specific Conductance	N/A	umhos/cm	68	128	143	252
FIELD CONDITIONS						
(L) Approx. Air Temperature	N/A	°F	50	50	50	50
(M) Weather Conditions	N/A	clear, rainy, etc.	Cloudy	Cloudy	Cloudy	Cloudy
OTHER INFORMATION						
(N) Time at Start of Purging	N/A	hours	1126	1105	1126	1056
(O) Time at Completion of Purging	N/A	hours	1132	1108	1129	1059
(P) COC Sample Designation	N/A	N/A	MW-1	MW-2	MW-8	MW-11
(Q) Sampler's Initials	N/A	N/A	MBB	MBB	MBB	MBB
(R) Time of Sample Collection	N/A	hours	1135	1110	1130	1100

Std. Units- Standard Units.
umhos/cm- microhms per container.
F- degrees Farenheit.
C- degrees Celsius.
NA- Not Applicable.
NS- Not Sampled
NPM- Not Product Measured

Table 5b
October 2000 Sampling Event
Field Data Sheet
Jasper, Texas

WELL PURGING DATA			Well No. MW-15A	Well No. MW-15B
(A) Water Level Measurement	N/A	feet below top of casing	48.44	47.93
(B) Top of DNAPL	N/A	feet below top of casing	NPM	NPM
(C) Bottom of Well	N/A	feet below top of casing	82.30	65.5
(D) Height of Fluid Column	(C) - (A)	feet	33.86	17.57
(E) Fluid Volume of Well	(D) x (0.661)	gallons	22.38	11.61
(F) Fluid Volume to be Purged	(E) x (3)	gallons	67.14	34.84
(G) Well Production Rate	N/A	gallons per minute	20.0	20.00
(H) Production time required	(F)/(G)	minutes	4	2
GROUNDWATER FIELD PARAMETERS				
(I) Temperature	N/A	°C	17.9	18.2
(J) pH	N/A	standard units	5.15	5.33
(K) Specific Conductance	N/A	umhos/cm	126	116
FIELD CONDITIONS				
(L) Approx. Air Temperature	N/A	°F	50	50
(M) Weather Conditions	N/A	clear, rainy, etc.	Cloudy	Cloudy
OTHER INFORMATION				
(N) Time at Start of Purging	N/A	hours	1117	1112
(O) Time at Completion of Purging	N/A	hours	1121	1114
(P) COC Sample Designation	N/A	N/A	MW-15A	MW-15B
(Q) Sampler's Initials	N/A	N/A	MBB	MBB
(R) Time of Sample Collection	N/A	hours	1125	1115

Std. Units- Standard Units.
umhos/cm- microhms per container.
F- degrees Farenheit.
C- degrees Celsius.
NA- Not Applicable.
NS- Not Sampled
NPM- Not Product Measured

Table 6
Summary of Field Parameter Data
Texas Electric Cooperative, Inc.
Jasper, Texas

Monitoring Well	July 2000 pH (Std. Units)	July 2000 SC (umhos/cm)	October 2000 pH (Std. Units)	October 2000 SC (umhos/cm)
Area I				
W-5	5.44	869	NM	NM
W-6	5.41	551	NM	NM
W-7	6.15	1640	NM	NM
W-9	5.35	121	NM	NM
W-10	6.16	574	NM	NM
W-12	NM	NM	NM	NM
W-14	6.06	2020	NM	NM
W-17	4.72	396	NM	NM
W-18A	4.01	380	NM	NM
W-18B	4.75	450	NM	NM
W-19	6.08	321	NM	NM
TW-101	NM	NM	NM	NM
TW-102	6.06	2810	NM	NM
TW-103	5.62	768	NM	NM
W-105	NM	NM	NM	NM
Area II				
W-3	NM	NM	5.69	110
W-4	NM	NM	5.63	109
W-11	NM	NM	5.92	252
W-13	NM	NM	NM	NM
W-16	NM	NM	NM	NM
Area III				
W-1	NM	NM	5.72	68
W-2	NM	NM	5.90	128
W-8	NM	NM	5.39	143
W-11	NM	NM	5.92	252
W-15A	NM	NM	5.15	126
W-15B	NM	NM	5.33	116

SC - Specific Conductivity.
Std. Units - Standard Units.
umhos/cm - microhms per centimeter.
NM - Not Measured.

1/24/01

Table 7
Summary of Analytical Data
Closed Area I
Texas Electric Cooperative, Inc.
Jasper, Texas

Monitoring Well	Arsenic Concentrations July 2000 (mg/L)	Naphthalene Concentrations July 2000 (mg/L)
W-5	0.0492	**18.600**
W-6	0.0647	<0.005
W-7	<0.003	<0.005
W-9	<0.003	<0.005
W-10	<0.003	<0.005
W-12	NS (Dry)	NS (Dry)
W-14	<0.003	<0.005
W-17	<0.003	<0.005
W-18A	<0.003	<0.005
W-18B	<0.003	<0.005
W-19	<0.003	<0.005
TW-101	NS	NS
TW-102	<0.003	<0.005
TW-103	0.0231	**3.320**
W-105	NS	NS

<0.010 - not detected above concentration shown

All concentrations are shown in milligrams per liter (mg/L).

NS - Not Sampled.

NS (Dry) - Not Sampled; well was dry.

MSC - Medium Specific Concentration (MSC) specified in Table 1 of the compliance plan.

Sample results that exceed the Naphthalene MSC of 1.46 mg/L are shown in bold.

Arsenic is only monitored for the pupose of assessing naturally occurring concentrations in the geologic formation.

1/24/01

Table 8
Summary of Analytical Data
Closed Areas II and III
Texas Electric Cooperative, Inc.
Jasper, Texas

Monitoring Well	Concentration Limit (mg/L)	Naphthalene Concentration October 2000 (mg/L)
Area II		
W-3	0.2	<0.005
W-4	0.2	<0.005
W-11	0.2	<0.005
W-13	0.2	NS (Dry)
W-16	0.2	NSR
Area III		
W-1	0.2	<0.005
W-2	0.2	<0.005
W-8	0.2	<0.005
W-11	0.2	<0.005
W-15A	0.2	<0.005
W-15B	0.2	<0.005

<0.010 - not detected above concentration shown.
All concentrations are shown in milligrams per liter (mg/L).
NSR - No Sample Required.
NS (Dry) - Not Sampled; well was dry.
Concentration Limit - Basis for determining whether a release has occurred from the waste management area.
Sample results that exceed the MSC are shown in bold.

1/24/01

Appendix A

Monthly Inspection Checklists

TABLE 4

TEXAS ELECTRIC COOPERATIVES, INC.
JASPER FACILITY
INSPECTION CHECK LIST

I. COVER SYSTEM	ITEM OK?	COMMENTS/ ACTION TAKEN
Cap Settlement	✓	
Ponded Water	✓	
Erosion	✓	
Sloughing of Slopes	✓	
Burrowing Animals	✓	
Bare Spots	✓	
Tall Grass	✓	
II. GROUNDWATER MONITORING	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Well Secure		
Damage to Well Casing		
Concrete Pad Cracks	✓	
Wells Protected As Necessary	✓	
Well Screen Clogged		#102 Needs pump repair — #19 Silt in well — within limits
III. GENERAL FACILITY COMPONENTS	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Survey Monuments In Place	✓	
Fencing Secure	✓	
Warning Signs In Place	✓	

Signature James Hilliard Date 1/21/00

WPCLOSE.JAS

TABLE 4

TEXAS ELECTRIC COOPERATIVES, INC.
JASPER FACILITY
INSPECTION CHECK LIST

I. COVER SYSTEM	ITEM OK?	COMMENTS/ ACTION TAKEN
Cap Settlement	✓	
Ponded Water	✓	
Erosion	✓	
Sloughing of Slopes	✓	
Burrowing Animals	✓	
Bare Spots	✓	
Tall Grass	✓	
II. GROUNDWATER MONITORING	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Well Secure		
Damage to Well Casing		
Concrete Pad Cracks	✓	
Wells Protected As Necessary	✓	
Well Screen Clogged	#102 needs pump replace #19 Silt in well	
III. GENERAL FACILITY COMPONENTS	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Survey Monuments In Place	✓	
Fencing Secure	✓	
Warning Signs In Place	✓	

Signature Jamie Hilliard Date 2/22/2000

WPCLOSE.JAS

TABLE 4

TEXAS ELECTRIC COOPERATIVES, INC.
JASPER FACILITY
INSPECTION CHECK LIST

I. COVER SYSTEM	ITEM OK?	COMMENTS/ ACTION TAKEN
Cap Settlement	✓	
Ponded Water	✓	
Erosion	✓	
Sloughing of Slopes	✓	
Burrowing Animals	✓	
Bare Spots	✓	
Tall Grass	✓	
II. GROUNDWATER MONITORING	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Well Secure	✓	
Damage to Well Casing	✓	
Concrete Pad Cracks	✓	
Wells Protected As Necessary	✓	
Well Screen Clogged	#02 Need pump repair - Pump Removed #19 Silt in Well - Removed Foreign Material in well	
III. GENERAL FACILITY COMPONENTS	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Survey Monuments In Place	✓	
Fencing Secure	✓	
Warning Signs In Place	✓	

Signature James Hilliard Date 3/22/00

WPCLOSE.JAS

TABLE 4

TEXAS ELECTRIC COOPERATIVES, INC.
JASPER FACILITY
INSPECTION CHECK LIST

I. COVER SYSTEM	ITEM OK?	COMMENTS/ ACTION TAKEN
Cap Settlement	✓	
Ponded Water	✓	
Erosion	✓	
Sloughing of Slopes	✓	
Burrowing Animals	✓	
Bare Spots	✓	
Tall Grass	✓	
II. GROUNDWATER MONITORING	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Well Secure		
Damage to Well Casing		
Concrete Pad Cracks	✓	
Wells Protected As Necessary	✓	
Well Screen Clogged		
III. GENERAL FACILITY COMPONENTS	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Survey Monuments In Place	✓	
Fencing Secure	✓	
Warning Signs In Place	✓	

Signature James Williams Date 4/27/00

WPCLOSE.JAS

TABLE 4

TEXAS ELECTRIC COOPERATIVES, INC.
JASPER FACILITY
INSPECTION CHECK LIST

I. COVER SYSTEM	ITEM OK?	COMMENTS/ ACTION TAKEN
Cap Settlement	✓	
Ponded Water	✓	
Erosion	✓	
Sloughing of Slopes	✓	
Burrowing Animals	✓	
Bare Spots	✓	
Tall Grass	✗	Grass mowed
II. GROUNDWATER MONITORING	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Well Secure		
Damage to Well Casing		
Concrete Pad Cracks	✓	
Wells Protected As Necessary	✓	
Well Screen Clogged		
III. GENERAL FACILITY COMPONENTS	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Survey Monuments In Place	✓	
Fencing Secure	✓	
Warning Signs In Place	✓	

Signature James Hilliard Date 5/26/00

WPCLOSE.JAS

TABLE 4

TEXAS ELECTRIC COOPERATIVES, INC.
JASPER FACILITY
INSPECTION CHECK LIST

I. COVER SYSTEM	ITEM OK?	COMMENTS/ ACTION TAKEN
Cap Settlement	✓	
Ponded Water	✓	
Erosion	✓	
Sloughing of Slopes	✓	
Burrowing Animals	✓	
Bare Spots	✓	
Tall Grass	✓	
II. GROUNDWATER MONITORING	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Well Secure	✓	
Damage to Well Casing	✓	
Concrete Pad Cracks	✓	
Wells Protected As Necessary	✓	
Well Screen Clogged	✓	
III. GENERAL FACILITY COMPONENTS	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Survey Monuments In Place	✓	
Fencing Secure	✓	
Warning Signs In Place	✓	

Signature James Hilliard Date 6/22/00

WPCLOSE.JAS

TABLE 4

TEXAS ELECTRIC COOPERATIVES, INC.
JASPER FACILITY
INSPECTION CHECK LIST

I. COVER SYSTEM	ITEM OK?	COMMENTS/ ACTION TAKEN
Cap Settlement	✓	
Ponded Water	✓	
Erosion	✓	
Sloughing of Slopes	✓	
Burrowing Animals	✓	
Bare Spots	✓	
Tall Grass	✓	
II. GROUNDWATER MONITORING	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Well Secure		
Damage to Well Casing		
Concrete Pad Cracks	✓	
Wells Protected As Necessary	✓	
Well Screen Clogged		
III. GENERAL FACILITY COMPONENTS	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Survey Monuments In Place	✓	
Fencing Secure	✓	
Warning Signs In Place	✓	

Signature Jason Williams Date 7/24/00

WPCLOSE.JAS

TABLE 4

TEXAS ELECTRIC COOPERATIVES, INC.
JASPER FACILITY
INSPECTION CHECK LIST

I. COVER SYSTEM	ITEM OK?	COMMENTS/ ACTION TAKEN
Cap Settlement	✓	
Ponded Water	✓	
Erosion	✓	
Sloughing of Slopes	✓	
Burrowing Animals	✓	
Bare Spots	✓	
Tall Grass	✓	
II. GROUNDWATER MONITORING	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Well Secure		
Damage to Well Casing		
Concrete Pad Cracks	✓	
Wells Protected As Necessary	✓	
Well Screen Clogged		
III. GENERAL FACILITY COMPONENTS	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Survey Monuments In Place	✓	
Fencing Secure	✓	
Warning Signs In Place	✓	

Signature James Williams Date August 28, 2000

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TABLE 4

TEXAS ELECTRIC COOPERATIVES, INC.
JASPER FACILITY
INSPECTION CHECK LIST

I. COVER SYSTEM	ITEM OK?	COMMENTS/ ACTION TAKEN
Cap Settlement	✓	
Ponded Water	✓	
Erosion	✓	
Sloughing of Slopes	✓	
Burrowing Animals	✓	
Bare Spots	✓	
Tall Grass	✓	
II. GROUNDWATER MONITORING	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Well Secure	✓	
Damage to Well Casing	✓	
Concrete Pad Cracks	✓	
Wells Protected As Necessary	✓	
Well Screen Clogged	✓	
III. GENERAL FACILITY COMPONENTS	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Survey Monuments In Place	✓	
Fencing Secure	✓	
Warning Signs In Place	✓	

Signature James Wieland Date 9/27/00

WPCLOSE.JAS

TABLE 4

TEXAS ELECTRIC COOPERATIVES, INC.
JASPER FACILITY
INSPECTION CHECK LIST

I. COVER SYSTEM	ITEM OK?	COMMENTS/ ACTION TAKEN
Cap Settlement	✓	
Ponded Water		
Erosion	✓	
Sloughing of Slopes	✓	
Burrowing Animals	✓	
Bare Spots	✓	
Tall Grass	✓	
II. GROUNDWATER MONITORING	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Well Secure		
Damage to Well Casing		
Concrete Pad Cracks	✓	
Wells Protected As Necessary	✓	
Well Screen Clogged		
III. GENERAL FACILITY COMPONENTS	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Survey Monuments In Place	✓	
Fencing Secure	✓	
Warning Signs In Place	✓	

Signature James Bilbrey Date 10/26/00

WPCLOSE.JAS

TABLE 4

TEXAS ELECTRIC COOPERATIVES, INC.
JASPER FACILITY
INSPECTION CHECK LIST

I. COVER SYSTEM	ITEM OK?	COMMENTS/ ACTION TAKEN
Cap Settlement	✓	
Ponded Water	✓	
Erosion	✓	
Sloughing of Slopes	✓	
Burrowing Animals	✓	
Bare Spots	✓	
Tall Grass		
II. GROUNDWATER MONITORING	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Well Secure		
Damage to Well Casing	✓	
Concrete Pad Cracks	✓	
Wells Protected As Necessary	✓	
Well Screen Clogged		
III. GENERAL FACILITY COMPONENTS	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Survey Monuments In Place	✓	
Fencing Secure	✓	
Warning Signs In Place	✓	

Signature Jan Hilliard Date 11/28/00

WPCLOSE.JAS

TABLE 4

TEXAS ELECTRIC COOPERATIVES, INC.
JASPER FACILITY
INSPECTION CHECK LIST

I. COVER SYSTEM	ITEM OK?	COMMENTS/ ACTION TAKEN
Cap Settlement	✓	
Ponded Water	✓	
Erosion	✓	
Sloughing of Slopes	✓	
Burrowing Animals	✓	
Bare Spots	✓	
Tall Grass		
II. GROUNDWATER MONITORING	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Well Secure	✓	
Damage to Well Casing	✓	
Concrete Pad Cracks	✓	
Wells Protected As Necessary	✓	
Well Screen Clogged	✓	
III. GENERAL FACILITY COMPONENTS	**ITEM OK?**	**COMMENTS/ ACTION TAKEN**
Survey Monuments In Place	✓	
Fencing Secure	✓	
Warning Signs In Place	✓	

Signature James Gilliland Date 12/28/00

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ATTACHMENT 9

STATISTICAL ANALYSIS DATA

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MANN-KENDALL ANALYSIS RESULTS – OCTOBER 2023

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Mann-Kendall Trend Test Analysis

User Selected Options	
Date/Time of Computation	ProUCL 5.2 12/4/2023 10:15:17 AM
From File	For ProUCL - MW2_Nap_Oct2023.xls
Full Precision	OFF
Confidence Coefficient	0.95
Level of Significance	0.05

Naphthalene (mg/L) - MW-2

General Statistics

Number or Reported Events Not Used	0
Number of Generated Events	31
Number Values Reported (n)	31
Minimum	2.4000E-5
Maximum	0.0106
Mean	0.00146
Geometric Mean	0.001
Median	0.0012
Standard Deviation	0.00175
Coefficient of Variation	1.2

Mann-Kendall Test

M-K Test Value (S)	-31
Critical Value (0.05)	-1.645
Standard Deviation of S	57.95
Standardized Value of S	-0.518
Approximate p-value	0.302

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

Mann-Kendall Trend Test Analysis

User Selected Options	
Date/Time of Computation	ProUCL 5.2 12/4/2023 10:18:49 AM
From File	For ProUCL - MW3_Nap_Oct2023.xls
Full Precision	OFF
Confidence Coefficient	0.95
Level of Significance	0.05

Naphthalene (mg/L) - MW-3

General Statistics

Number or Reported Events Not Used	0
Number of Generated Events	41
Number Values Reported (n)	41
Minimum	2.8300E-5
Maximum	0.005
Mean	0.0024
Geometric Mean	0.00159
Median	0.0017
Standard Deviation	0.00179
Coefficient of Variation	0.744

Mann-Kendall Test

M-K Test Value (S)	-317
Critical Value (0.05)	-1.645
Standard Deviation of S	87.38
Standardized Value of S	-3.616
Approximate p-value	1.4934E-4

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

Mann-Kendall Trend Test Analysis

User Selected Options	
Date/Time of Computation	ProUCL 5.2 12/4/2023 10:21:43 AM
From File	For ProUCL - MW4_Nap_Oct2023.xls
Full Precision	OFF
Confidence Coefficient	0.95
Level of Significance	0.05

Naphthalene (mg/L) - MW-4

General Statistics

Number or Reported Events Not Used	0
Number of Generated Events	31
Number Values Reported (n)	31
Minimum	2.8300E-5
Maximum	0.0668
Mean	0.00336
Geometric Mean	0.00105
Median	0.0012
Standard Deviation	0.0118
Coefficient of Variation	3.505

Mann-Kendall Test

M-K Test Value (S)	-1
Critical Value (0.05)	-1.645
Standard Deviation of S	57.95
Standardized Value of S	0
Approximate p-value	0.5

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

Mann-Kendall Trend Test Analysis

User Selected Options	
Date/Time of Computation	ProUCL 5.2 12/4/2023 10:23:20 AM
From File	For ProUCL - MW8_Nap_Oct2023.xls
Full Precision	OFF
Confidence Coefficient	0.95
Level of Significance	0.05

Naphthalene (mg/L) - MW-8

General Statistics

Number or Reported Events Not Used	0
Number of Generated Events	27
Number Values Reported (n)	27
Minimum	3.6000E-5
Maximum	0.0213
Mean	0.00191
Geometric Mean	0.0011
Median	0.0011
Standard Deviation	0.0039
Coefficient of Variation	2.041

Mann-Kendall Test

M-K Test Value (S)	-11
Critical Value (0.05)	-1.645
Standard Deviation of S	47.06
Standardized Value of S	-0.212
Approximate p-value	0.416

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

Mann-Kendall Trend Test Analysis

User Selected Options	
Date/Time of Computation	ProUCL 5.2 12/4/2023 9:20:51 PM
From File	MK - MW11_Nap_Oct2023.xls
Full Precision	OFF
Confidence Coefficient	0.95
Level of Significance	0.05

Naphthalene (mg/L) - MW-11

General Statistics

Number or Reported Events Not Used	0
Number of Generated Events	28
Number Values Reported (n)	28
Minimum	2.1000E-5
Maximum	0.0034
Mean	0.00119
Geometric Mean	7.7359E-4
Median	0.0011
Standard Deviation	6.8000E-4
Coefficient of Variation	0.571

Mann-Kendall Test

M-K Test Value (S)	-8
Critical Value (0.05)	-1.645
Standard Deviation of S	49.92
Standardized Value of S	-0.14
Approximate p-value	0.444

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

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KRUSKAL-WALLIS TEST – OCTOBER 2023

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Nonparametric Oneway ANOVA (Kruskal-Wallis Test)

Date/Time of Computation	ProUCL 5.2 12/4/2023 5:08:12 PM
From File	TW Analysis_MW8 and 11.xls
Full Precision	OFF

Naphthalene

Group	Obs	Median	Ave Rank	Z
mw-11	40	0.0013	39.6	-0.157
mw-8	39	0.0013	40.41	0.157
Overall	79	0.0013	40	

K-W (H-Stat)	DOF	P-Value	(Approx. Chisquare)
0.0246	1	0.875	
0.0255	1	0.873	(Adjusted for Ties)

Note: A p-value <= 0.05 (or some other selected level) suggests that there are significant differences in mean/median characteristics of the various groups at 0.05 or other selected level of significance

A p-value > 0.05 (or other selected level) suggests that mean/median characteristics of the various groups are

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TARONE-WARE TEST – OCTOBER 2023

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Tarone-Ware Sample 1 vs Sample 2 Comparison Hypothesis Test for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.2 12/4/2023 9:38:11 PM
From File	TW_MW8 and 11_Jan09 to Oct23.xls
Full Precision	OFF
Confidence Coefficient	95%
Selected Null Hypothesis	Sample 1 Mean/Median = Sample 2 Mean/Median (Two Sided Alternative)
Alternative Hypothesis	Sample 1 Mean/Median <> Sample 2 Mean/Median

Sample 1 Data: Naphthalene(mw-11)

Sample 2 Data: Naphthalene(mw-8)

Raw Statistics

	Sample 1	Sample 2
Number of Valid Data	2	4
Number of Missing Observations	28	26
Number of Non-Detects	0	0
Number of Detects	2	4
Minimum Non-Detect	N/A	N/A
Maximum Non-Detect	N/A	N/A
Percent Non-detects	0.00%	0.00%
Minimum Detect	2.1000E-5	3.6000E-5
Maximum Detect	0.0034	0.0213
Mean of Detects	0.00171	0.00561
Median of Detects	0.00171	5.5750E-4
SD of Detects	0.00239	0.0105
KM Mean	0.00171	0.00561
KM SD	0.00239	0.0105

Sample 1 vs Sample 2 Tarone-Ware Test

H0: Mean/Median of Sample 1 = Mean/Median of Sample 2

TW Statistic	-0.597
Lower TW Critical Value(0.025)	-1.96
Upper TW Critical Value (0.975)	1.96
P-Value	0.551

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Sample 1 = Sample 2

P-Value >= alpha (0.05)

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ATTACHMENT 10

ROUTINE INSPECTION AND MAINTENANCE REPORTS

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Monthly/Post Rainfall Event Inspection Form

Name: Ian Navarrete / Cody Browning

Date: 2-28-23

Time: 2:19 p.m

Date of Rainfall Event (if applicable): 2-14-23

Circle One: WMA 1 / WMA 2 / WMA 3

Monthly Observations:	Yes	No	Notes (if applicable):
Minor cap settlement (less than 8 inches over 200 ft² or less)?		✓	No issues
Major cap settlement (8 inches or more over 200 ft² or greater)?		✓	No issues
Signs of burrowing animals?		✓	No issues
Bare spots greater than 50 ft²		✓	No issues
Grass taller than 12 inches high?		✓	grass needs cut soon
Cracks in concrete well pads greater than 1/8 inch wide?		✓	No issues
Damaged or missing protective well barriers?		✓	No issues
Missing or damaged monuments?		✓	No issues
Fence damage/repairs needed?		✓	No issues
Functioning locks on gates?	✓		No issues
Warning signs visible and secure?	✓		Fixed warning signs

Monthly/Post Rainfall Observations:	Yes	No	Notes (if applicable):
Ponded water (greater than 200 ft² and 3 inches deep?		✓	
Erosion rills greater than 20 ft long and 6 inches deep?		✓	
Sloughing of slopes?		✓	

Monthly/Post Rainfall Event Inspection Form

Name: Cody Browning

Date: 1/31/23

Time: 2:33pm

Circle One: WMA 1 / WMA 2 / WMA 3

Date of Rainfall Event (if applicable): 1/31/23 – 9:30AM took ool sample

Monthly Observations:	Yes	No	Notes (if applicable):
Minor cap settlement (less than 8 inches over 200 ft² or less)?		✓	
Major cap settlement (8 inches or more over 200 ft² or greater)?		✓	
Signs of burrowing animals?		✓	No issues
Bare spots greater than 50 ft²		✓	Tire tracks need fixed - Not more than 50 ft
Grass taller than 12 inches high?		✓	No issues
Cracks in concrete well pads greater than 1/8 inch wide?		✓	No issues
Damaged or missing protective well barriers?		✓	No issues
Missing or damaged monuments?		✓	No issues
Fence damage/repairs needed?		✓	No issues
Functioning locks on gates?	✓		No issues
Warning signs visible and secure?	✓		No issues

Monthly/Post Rainfall Observations:	Yes	No	Notes (if applicable):
Ponded water (greater than 200 ft² and 3 inches deep?		✓	
Erosion rills greater than 20 ft long and 6 inches deep?		✓	
Sloughing of slopes?			

Monthly/Post Rainfall Event Inspection Form

Name: Cody Browning

Date: 3/31/23

Time: 3:30pm

Circle One: WMA 1 / WMA 2 / WMA 3

Date of Rainfall Event (if applicable): Yes last rainfall (3/29/23) No

Monthly Observations:			Notes (if applicable):
Minor cap settlement (less than 8 inches over 200 ft² or less)?		✓	No issues (WMA1, WMA2, WMA3)
Major cap settlement (8 inches or more over 200 ft² or greater)?		✓	NO issues (WMA1, WMA2, WMA3)
Signs of burrowing animals?		✓	NO issues (WMA1, WMA2, WMA3)
Bare spots greater than 50 ft²		✓	(WMA1, WMA2, WMA3) ← (WMA2) bare spots not sure Will get with mat
Grass taller than 12 inches high?	✓		Grass need Cut (WMA1, WMA2, WMA3)
Cracks in concrete well pads greater than 1/8 inch wide?		✓	No issues (WMA1, WMA2, WMA3)
Damaged or missing protective well barriers?		✓	NO issues (WMA1,)
Missing or damaged monuments?		✓	No issues (WMA1,)
Fence damage/repairs needed?		✓	No issues (WMA1,)
Functioning locks on gates?	✓		No issues (WMA1,)
Warning signs visible and secure?	✓		No issues (WMA1,)

Monthly/Post Rainfall Observations:	Yes	No	Notes (if applicable):
Ponded water (greater than 200 ft² and 3 inches deep?	✓		
Erosion rills greater than 20 ft long and 6 inches deep?		✓	
Sloughing of slopes?	✓		

Monthly/Post Rainfall Event Inspection Form

Name: Cody Brownig

Date: 4/28/23

Time: 5:46 pm

Date of Rainfall Event (if applicable): 4/27/23

Circle One: WMA 1 / WMA 2 / WMA 3

Monthly Observations:	Yes	No	Notes (if applicable):
Minor cap settlement (less than 8 inches over 200 ft² or less)?		\	No issues
Major cap settlement (8 inches or more over 200 ft² or greater)?		\	No issues
Signs of burrowing animals?		\	No issues
Bare spots greater than 50 ft²	\		Yes - WMA 1
Grass taller than 12 inches high?	\		Yes needs to be cut - ALL
Cracks in concrete well pads greater than 1/8 inch wide?		\	No issues
Damaged or missing protective well barriers?	'	\	No issues
Missing or damaged monuments?		\	No issues
Fence damage/repairs needed?	\	\	~~Yes, there is damage on north side of pla~~
Functioning locks on gates?	\	\	No issues
Warning signs visible and secure?	\		Fixed signs / 4/17/23

Monthly/Post Rainfall Observations:	Yes	No	Notes (if applicable):
Ponded water (greater than 200 ft² and 3 inches deep?	\		
Erosion rills greater than 20 ft long and 6 inches deep?	\	\	
Sloughing of slopes?		\	

Monthly/Post Rainfall Event Inspection Form

Name: Ivan Navarrete / Cody Browning

Date: 6-2-23

Time: 2:00 p.m

Circle One: WMA 1 WMA 2 WMA 3

Date of Rainfall Event (if applicable): 5-15-23

Monthly Observations:	Yes	No	Notes (if applicable):
Minor cap settlement (less than 8 inches over 200 ft² or less)?		✓	
Major cap settlement (8 inches or more over 200 ft² or greater)?		✓	
Signs of burrowing animals?		✓	
Bare spots greater than 50 ft²		✓	
Grass taller than 12 inches high?	✓		Going to cut grass sometime next week
Cracks in concrete well pads greater than 1/8 inch wide?		✓	
Damaged or missing protective well barriers?		✓	
Missing or damaged monuments?		✓	
Fence damage/repairs needed?		✓	
Functioning locks on gates?	✓		
Warning signs visible and secure?	✓		Going to add signs for outfalls (001, 002)

Monthly/Post Rainfall Observations:	Yes	No	Notes (if applicable):
Ponded water (greater than 200 ft² and 3 inches deep?	✓		
Erosion rills greater than 20 ft long and 6 inches deep?		✓	
Sloughing of slopes?		✓	

Monthly/Post Rainfall Event Inspection Form

Name: Cody Browning

Date: 6-30-23

Time: 1:30

Circle One: WMA 1 / WMA 2 / WMA 3

Date of Rainfall Event (if applicable): _____

Monthly Observations:	Yes	No	Notes (if applicable):
Minor cap settlement (less than 8 inches over 200 ft² or less)?		✓	
Major cap settlement (8 inches or more over 200 ft² or greater)?		✓	
Signs of burrowing animals?		✓	
Bare spots greater than 50 ft²		✓	
Grass taller than 12 inches high?		✓	Grass Cut 6-19-23 - 6-23-23 (WMA1, WMA2, WMA3)
Cracks in concrete well pads greater than 1/8 inch wide?		✓	
Damaged or missing protective well barriers?		✓	
Missing or damaged monuments?		✓	
Fence damage/repairs needed?	✓		WMA3 damaged due to tree
Functioning locks on gates?	✓		
Warning signs visible and secure?	✓		

Monthly/Post Rainfall Observations:	Yes	No	Notes (if applicable):
Ponded water (greater than 200 ft² and 3 inches deep?	✓		
Erosion rills greater than 20 ft long and 6 inches deep?	✓	✓	
Sloughing of slopes?	✓	✓	

Monthly/Post Rainfall Event Inspection Form

Name: Cody Browning / Evan Hawkins Circle One: WMA 1 WMA 2 WMA 3

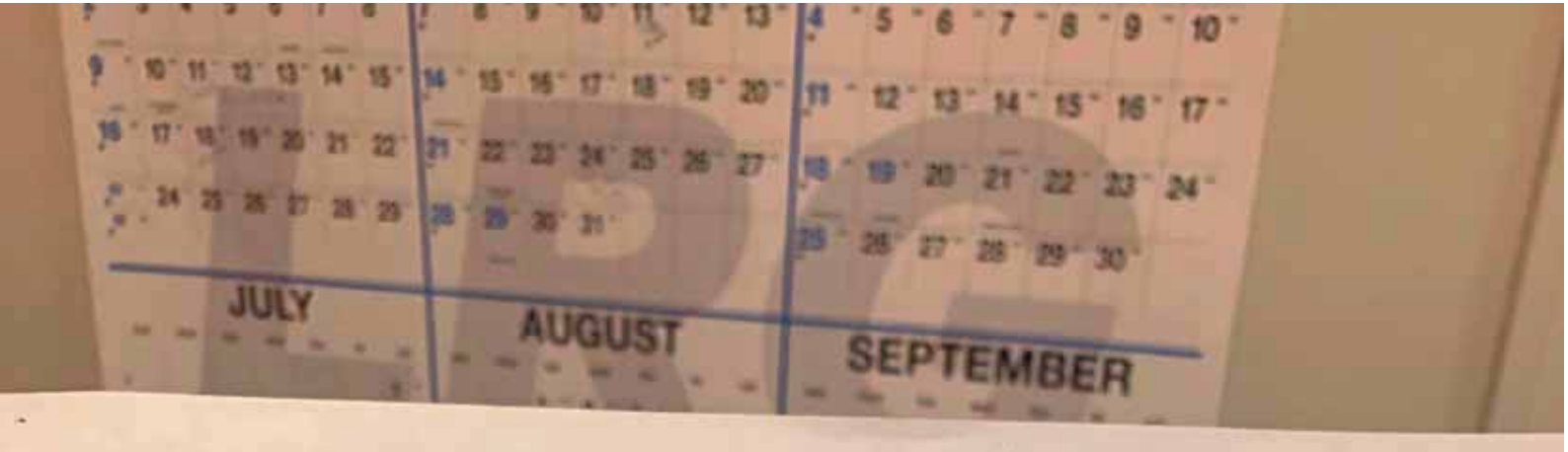
Date: 8-4-23

Time: 3:35pm

Date of Rainfall Event (if applicable): _____

Monthly Observations:	Yes	No	Notes (if applicable):
Minor cap settlement (less than 8 inches over 200 ft² or less)?		/	No issues.
Major cap settlement (8 inches or more over 200 ft² or greater)?		/	No issues.
Signs of burrowing animals?		/	No issues
Bare spots greater than 50 ft²		/	No issues
Grass taller than 12 inches high?	/	/	Grass around pond needs cut
Cracks in concrete well pads greater than 1/8 inch wide?		/	No issues
Damaged or missing protective well barriers?	/		Replaced well caps for (TW-[redacted]107, 104, MW-20B)
Missing or damaged monuments?	/	/	No issues
Fence damage/repairs needed?	/		Fence is damaged needs repairs
Functioning locks on gates?	/		No issues
Warning signs visible and secure?	/		No issues

Monthly/Post Rainfall Observations:	Yes	No	Notes (if applicable):
Ponded water (greater than 200 ft² and 3 inches deep?	/		No issues
Erosion rills greater than 20 ft long and 6 inches deep?	/	/	No issues
Sloughing of slopes?	/	/	No issues



Monthly/Post Rainfall Event Inspection Form

Name: Cody Browning

Date: 9-1-23

Time: 3:00pm

Date of Rainfall Event (if applicable): N/A

Circle One: WMA 1 / WMA 2 / WMA 3

Monthly Observations:	Yes	No	Notes (if applicable):
Minor cap settlement (less than 8 inches over 200 ft² or less)?			
Major cap settlement (8 inches or more over 200 ft² or greater)?			
Signs of burrowing animals?		✓	No issues
Bare spots greater than 50 ft²		✓	No issues
Grass taller than 12 inches high?	✓		Yes, Grass needs cut around pond.
Cracks in concrete well pads greater than 1/8 inch wide?		✓	No issues
Damaged or missing protective well barriers?		✓	No issues
Missing or damaged monuments?		✓	No issues
Fence damage/repairs needed?	✓		No issues
Functioning locks on gates?	✓		No issues
Warning signs visible and secure?	✓		No issues

Monthly/Post Rainfall Event Inspection Form

Name: Cody Bowring / Ivan Navarrete Circle One: WMA 1 WMA 2 WMA 3

Date: [redacted] 9-30-23

Time: 3:30

Date of Rainfall Event (if applicable): [redacted] 9-27-23

Monthly Observations:	Yes	No	Notes (if applicable):
Minor cap settlement (less than 8 inches over 200 ft² or less)?		/	No issues
Major cap settlement (8 inches or more over 200 ft² or greater)?		/	No issues
Signs of burrowing animals?		/	No issues
Bare spots greater than 50 ft²		/	No issues
Grass taller than 12 inches high?	/		Grass needs work
Cracks in concrete well pads greater than 1/8 inch wide?		/	No issues
Damaged or missing protective well barriers?		/	No issues
Missing or damaged monuments?		/	No issues
Fence damage/repairs needed?	/		Yes, Damaged Fence in need of repair
Functioning locks on gates?	/		No issues
Warning signs visible and secure?	/		No issues

Monthly/Post Rainfall Observations:	Yes	No	Notes (if applicable):
Ponded water (greater than 200 ft² and 3 inches deep?	/		No issues
Erosion rills greater than 20 ft long and 6 inches deep?	/		No issues
Sloughing of slopes?	/		No issues

Monthly/Post Rainfall Event Inspection Form

Name: Ivan Navarrete / Cody Browning

Date: 10-31-23

Time: 3:00 p.m.

Circle One: WMA 1 / WMA 2 / WMA 3

Date of Rainfall Event (if applicable): 10-5-23

Monthly Observations:	Yes	No	Notes (if applicable):
Minor cap settlement (less than 8 inches over 200 ft² or less)?		✓	
Major cap settlement (8 inches or more over 200 ft² or greater)?		✓	
Signs of burrowing animals?		✓	
Bare spots greater than 50 ft²		✓	
Grass taller than 12 inches high?	✓	✓	(WMA3) DOG For a Cut Soon
Cracks in concrete well pads greater than 1/8 inch wide?		✓	
Damaged or missing protective well barriers?		✓	
Missing or damaged monuments?		✓	
Fence damage/repairs needed?	✓		Fencing around (WMA3) needs to be fixed
Functioning locks on gates?	✓		
Warning signs visible and secure?	✓		

Monthly/Post Rainfall Observations:	Yes	No	Notes (if applicable):
Ponded water (greater than 200 ft² and 3 inches deep?		✓	
Erosion rills greater than 20 ft long and 6 inches deep?		✓	
Sloughing of slopes?		✓	

ATTACHMENT 11

JASPER COUNTY DEED RECORDS OF WMAs

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70944 VOL. 443 PAGE 429

Filed for Record June 21 1991
at 10:52 o'clock A. M.
EVELYN STOTT

STATE OF TEXAS
JASPER COUNTY

Clerk, County Court, Jasper County, Texas
By [illegible] Deputy

TEXAS ELECTRIC COOPERATIVES, INC.
TO 70944
THE PUBLIC RE: WASTE DEPOSITS

INDUSTRIAL SOLID WASTE
DISPOSAL SITE DEED RECORDATION

KNOW ALL MEN BY THESE PRESENTS:

Pursuant to the Rules of the Texas Water Commission pertaining to Industrial Solid Waste Management, this document is hereby filed in the Deed Records of Jasper County, Texas, in compliance with the recordation requirements of said rules:

I.

Texas Electric Cooperatives, Incorporated will permanently deposit waste on the land described herein. A copy of Notice of Registration 31340, including a description of waste to be disposed of and a description of the waste disposal facility, is attached hereto and is made a part of this filing.

II.

TRACT 1

Being 0.990 acres of land out of Abstract 2, the John Bevil League, Jasper County, Texas, and being a part of that 52.4 acre tract conveyed by B. S. Ratcliff, et al, to Texas Electric Cooperatives, Incorporated by a deed dated February 11, 1963 and recorded in Volume 172, Page 76 of the Deed Records of Jasper County, Texas, said 0.990 acres being more fully described as follows:

Beginning at a point South 65° 04' 57" East, 1195.93 feet, from the Northwest corner of the above described 52.4 acre tract, an iron stake for corner;

Thence along and with the general perimeter of Facilities 2 thru 6 as follows:

(1). North 78° 40' 13" East, 145.90 feet, an iron stake for corner;
(2). South 04° 05' 17" East, 364.86 feet, an iron stake for corner;
(3). South 73° 03' 10" West, 90.29 feet, an iron stake for corner;
(4). North 12° 52' 56" West, 370.92 feet to the Place of Beginning containing 0.990 acres of land.

TRACT 2

Being 2.672 acres of land out of Abstract 2, the John Bevil League, Jasper County, Texas, and being a part of that 52.4 acre tract conveyed by B. S. Ratcliff, et al, to Texas Electric Cooperatives, Incorporated by a deed dated February 11, 1963 and recorded in Volume 172, Page 76 of the Deed Records of Jasper County, Texas, said 2.672 acres being more fully described as follows:

Beginning at a point South 28° 31' 48" East, 155.78 feet from the Northwest corner of the above described 52.4 acre tract, an iron stake for corner;

Thence along and with the general perimeter of Ponds E and F as follows:

(1). North 89° 53' 14" East, 392.63 feet, an iron stake for corner;
(2). South 80° 53' 15" East, 155.29 feet, an iron stake for corner;
(3). South 40° 22' 47" East, 37.54 feet, an iron stake for corner;
(4). South 01° 14' 46" East, 56.84 feet, an iron stake for corner;
(5). South 13° 29' 54" West, 53.69 feet, an iron stake for corner;
(6). South 76° 40' 51" West, 147.96 feet, an iron stake for corner;
(7). South 85° 31' 35" West, 435.86 feet, an iron stake for corner;
(8). North 02° 57' 26" West, 98.51 feet, an iron stake for corner;
(9). North 10° 37' 47" East, 133.45 feet to the Place of Beginning containing 2.672 acres of land.

TRACT 3

Being 1.856 acres of land out of Abstract 2, the John Bevil League, Jasper County, Texas, and being a part of that 52.4 acre tract conveyed B. S. Ratcliff, et al, to Texas Electric Cooperatives, Incorporated by a deed dated February 11, 1963 and recorded in Volume 172, Page 76 of the Deed Records of Jasper County, Texas, said 1.856 acres of land being more fully described as follows:

Beginning at a point South 36° 43' 10" East, 972.64 feet from the Northwest corner of the above described 52.4 acre tract, an iron stake for corner;

Thence along and with the general perimeter of Ponds C and D as follows:
(1). South 65° 02' 32" East, 209.56 feet, an iron stake for corner;
(2). South 19° 49' 14" West, 308.06 feet, an iron stake for corner;
(3). South 52° 59' 03" West, 86.42 feet, an iron stake for corner;
(4). North 51° 05' 22" West, 206.02 feet, an iron stake for corner;
(5). North 25° 32' 33" East, 333.45 feet to the Place of Beginning containing 1.856 acres of land.

Wastes deposited hereon have been classified by the Texas Water Commission as Class IH. Class IH waste is defined as "Any industrial solid waste or mixture of industrial solid waste which because of its concentration, or physical or chemical characteristics, is toxic, corrosive, flammable, a strong sensitizer or irritant, a generator of sudden pressure by decomposition, heat, or other means, and may pose a substantial present or potential danger to human health or the environment when improperly treated, stored, transported, or disposed of or otherwise managed, including hazardous industrial waste."

III.

The owner of the site is Texas Electric Cooperatives, Incorporated, a Texas corporation, and its address is P. O. Box 510, Jasper, Texas 75951, where more specific information may be obtained from the plant manager.

EXECUTED this the 20th day of June, 1991.

Texas Electric Cooperatives, Incorporated
a Texas corporation

T. J. Anthony

T. J. Anthony
Plant Manager

STATE OF TEXAS
JASPER COUNTY

BEFORE ME, on this the 20th day of June, 1991, personally appeared T. J. Anthony, Plant Manager of Texas Electric Cooperatives, Incorporated, a Texas corporation, known to me to be the person and agent of said corporation whose name is subscribed to the foregoing instrument, and he acknowledged to me that he executed the same for the purposes and capacity therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 20th day of June, 1991.

Charlyne Primrose
Notary Public in and for the
State of Texas, County of Jasper

My commission Expires
1-31-93

CHARLYNE PRIMROSE NOTARY PUBLIC STATE OF TEXAS

EAST TEXAS SURVEYING CO., INC.
150 NORTH AUSTIN STREET
P. O. BOX 1952
JASPER, TEXAS 75951

F. C. STROTHER
M. C. STROTHER

TELEPHONE
(409) 384-3352 DAYS
(409) 384-2717 DAYS

FIELD NOTES FOR TEXAS ELECTRIC COOPERATIVE
(PONDS C & D)
FACILITIES 7 & 8

Being 1.856 acres of land out of Abstract 2, the John Bevil League, Jasper County, Texas, and being a part of that 52.4 acre tract conveyed by B. S. Ratcliff, et al, to Texas Electric Cooperative, Inc. by a deed dated February 11, 1963 and recorded in Volume 172, Page 76 of the Deed Records of Jasper County, Texas, said 1.856 acres being more fully described as follows:

Beginning at a point South 36° 43' 10" East, 972.64 feet from the Northwest corner of the above described 52.4 acre tract, a point for corner;

Thence along and with the general perimeter of Ponds C and D as follows:
(1). South 65° 02' 32" East, 209.56 feet, a point for corner;
(2). South 19° 49' 14" West, 308.06 feet, a point for corner;
(3). South 52° 59' 03" West, 86.42 feet, a point for corner;
(4). North 51° 05' 22" West, 206.02 feet, a point for corner;
(5). North 25° 32' 33" East, 333.45 feet to the Place of Beginning containing 1.856 acres of land.

M. C. Strother, Registered Professional
Land Surveyor No. 2047

STATE OF TEXAS REGISTERED M.C. STROTHER 2047 PROFESSIONAL LAND SURVEYOR

VOL. 443 PAGE 432

EAST TEXAS SURVEYING CO., INC.

150 NORTH AUSTIN STREET
P. O. BOX 1982
JASPER, TEXAS 75951

F. C. STROTHER
M. C. STROTHER

TELEPHONE
(409) 384-3352 DAYS
(409) 384-2717 DAYS

FIELD NOTES FOR TEXAS ELECTRIC COOPERATIVE
(PONDS E & F)
FACILITIES 9 & 10

Being 2.672 acres of land out of Abstract 2, the John Bevil League, Jasper County, Texas, and being a part of that 52.4 acre tract conveyed by B. S. Ratcliff, et al, to Texas Electric Cooperative, Inc. by a deed dated February 11, 1963 and recorded in Volume 172, Page 76 of the Deed Records of Jasper County, Texas, said 2.672 acres being more fully described as follows:

Beginning at a point South 28° 31' 48" East, 155.78 feet from the Northwest corner of the above described 52.4 acre tract, a point for corner;

Thence along and with the general perimeter of Ponds E and F as follows:
(1). North 89° 53' 14" East, 392.63 feet, a point for corner;
(2). South 80° 53' 15" East, 155.29 feet, a point for corner;
(3). South 40° 22' 47" East, 37.54 feet, a point for corner;
(4). South 01° 14' 46" East, 56.84 feet, a point for corner;
(5). South 13° 29' 54" West, 53.69 feet, a point for corner;
(6). South 76° 40' 51" West, 147.96 feet, a point for corner;
(7). South 85° 31' 35" West, 435.86 feet, a point for corner;
(8). North 02° 57' 26" West, 98.51 feet, a point for corner;
(9). North 10° 37' 47" East, 133.45 feet to the Place of Beginning containing 2.672 acres of land.

M. C. Strother, Registered Professional
Land Surveyor No. 2047

STATE OF TEXAS
REGISTERED
M.C. STROTHER
2047
PROFESSIONAL
LAND SURVEYOR

EAST TEXAS SURVEYING CO., INC.
130 NORTH AUSTIN STREET
P. O. BOX 1982
JASPER, TEXAS 75951

F. C. STROTHER
M. C. STROTHER

TELEPHONE
(409) 384-3352 DAYS
(409) 384-2717 DAYS

FIELD NOTES FOR TEXAS ELECTRIC COOPERATIVE
FACILITIES 2 THRU 6

Being 0.990 acres of land out of Abstract 2, the John Bevil League, Jasper County, Texas, and being a part of that 52.4 acre tract conveyed by B. S. Ratcliff, et al, to Texas Electric Cooperative, Inc. by a deed dated February 11, 1963 and recorded in Volume 172, Page 76 of the Deed Records of Jasper County, Texas, said 0.990 acres being more fully described as follows:

Beginning at a point South 65° 04' 57" East, 1195.93 feet from the Northwest corner of the above described 52.4 acre tract, a point for corner;

Thence along and with the general perimeter of Facilities 2 thru 6 as follows:
(1). North 78° 40' 13" East, 145.90 feet, a point for corner;
(2). South 04° 05' 17" East, 364.86 feet, a point for corner;
(3). South 73° 03' 10" West, 90.29 feet, a point for corner;
(4). North 12° 52' 56" West, 370.92 feet to the Place of Beginning containing 0.990 acres of land.

M. C. Strother, Registered Professional
Land Surveyor No. 2047

STATE OF TEXAS
REGISTERED
M.C. STROTHER
2047
PROFESSIONAL
LAND SURVEYOR

DW0550 TEXAS WATER COMMISSION 05-08-90
NOTICE OF REGISTRATION
SOLID WASTE MANAGEMENT

THIS IS NOT A PERMIT AND DOES NOT CONSTITUTE AUTHORIZATION OF ANY WASTE MANAGEMENT ACTIVITIES OR FACILITIES LISTED BELOW. REQUIREMENTS FOR SOLID WASTE MANAGEMENT ARE PROVIDED BY TEXAS ADMINISTRATIVE CODE SECTION 335 OF THE RULES OF THE TEXAS WATER COMMISSION (TWC). CHANGES OR ADDITIONS TO WASTE MANAGEMENT METHODS REFERRED TO IN THIS NOTICE REQUIRE WRITTEN NOTIFICATION TO THE TWC.

DATE OF NOTICE: 03-13-90 REGISTRATION DATE: 11-07-78

REGISTRATION NUMBER: 31340 EPA I.D. NUMBER: TXD041468836

THE REGISTRATION NUMBER PROVIDES ACCESS TO STORED INFORMATION PERTAINING TO YOUR OPERATION. PLEASE REFER TO THAT NUMBER IN ANY CORRESPONDENCE.

COMPANY NAME: TEXAS ELECTRIC COOPERATIVES
MAILING ADDRESS: P.O. BOX 510
JASPER, TEXAS 75951
GENERATING SITE LOCATION:
BEVIL LOOP ROAD, JASPER, TEXAS
CONTACT PERSON: RANDY V. DORMAN
PHONE: (713) 384-4633
NUMBER OF EMPLOYEES: LESS THAN 100
TWC DISTRICT: 06

REGISTRATION STATUS: ACTIVE
REGISTRATION TYPE: GENERATOR
HAZARDOUS WASTE STATUS:
GENERATOR

I. WASTE GENERATED:

WASTE NUMBER	DESCRIPTION	CLASS	CODE	DISPOSITION
001	WOOD CHIPS AND BARK	II	284270	ON-SITE / SOLD FOR RECOVERY
002	WASTEWATER TREATMENT SLUDGE FROM WOOD PRESERVING	IH	951590	ON-SITE
	EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): K001			
003	TANK BOTTOMS, CREOSOTE	IH	951230	OFF-SITE
	EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS):			

004	SOIL, CREOSOTE CONTAMINATED	IH	978980	OFF-SITE

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS):

005	PLANT REFUSE, GENERAL MISC.	II	279760	OFF-SITE
006	ASH, FLY	II	271380	ON-SITE/OFF-SITE
007	CREOSOTE AND WATER	I	108470	ON-SITE/OFF-SITE
008	NAPHTHA	IH	910020	NO LONGER GENERATED

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS):

009	D001 CHARACTERISTIC OF IGNITABILITY	IH	990001	OFF-SITE

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS):

II. Shipping/Reporting: Pursuant to Section 335 of the Texas Administrative Code of the rules of the TWC pertaining to Hazardous Waste management, issuance of manifests and annual reporting are required for Off-site Storage/Processing/Disposal of the following wastes listed in Part I. All manifested wastes should be reported on the annual waste summary report and submitted to the TWC by the 25th of each January for the prior calendar year.

In addition for any of the following waste(s) manifested and shipped to Storage/Processing/Disposal facilities <u>in any other state</u> a waste shipment summary is required. All such shipments should be reported on the waste shipment summary report and submitted to the TWC no later than the 25th day of the month immediately succeeding the month in which the shipment was made. No waste shipment summary report is required for months when out of state shipments are not made.

003 951230 TANK BOTTOMS, CREOSOTE

004 978980 SOIL, CREOSOTE CONTAMINATED

007 108470 CREOSOTE AND WATER

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01	BULK STORAGE AREA STORAGE OF WASTE NUMBER(S) 001, 004	ACTIVE
02	SURFACE IMPOUNDMENT STORAGE OF WASTE NUMBER(S) 001, 002 POND #1 CAP-47,872 GAL DISCHARGE REGULATED UNDER NPDES PERMIT	ACTIVE
03	SURFACE IMPOUNDMENT STORAGE OF WASTE NUMBER(S) 002 POND #2 CAP-47,872 GAL	INACTIVE
04	SURFACE IMPOUNDMENT STORAGE OF WASTE NUMBER(S) 002 VACUUM COOLING, CAP-215,424GAL	INACTIVE
05	SURFACE IMPOUNDMENT STORAGE OF WASTE NUMBER(S) 002 OIL PIT, CAP-13,464 GAL	INACTIVE
06	SURFACE IMPOUNDMENT STORAGE OF WASTE NUMBER(S) 002 SUMP, CAP-11,966 GAL	INACTIVE
07	SURFACE IMPOUNDMENT PROCESSING OF WASTE NUMBER(S) 002 POND C, CAP-1,496,000 GAL	INACTIVE
08	SURFACE IMPOUNDMENT PROCESSING OF WASTE NUMBER(S) 002 POND D, CAP-1,496,000 GAL	INACTIVE
09	SURFACE IMPOUNDMENT PROCESSING OF WASTE NUMBER(S) 002 POND E, CAP-1,615,680 GAL	INACTIVE
10	SURFACE IMPOUNDMENT PROCESSING OF WASTE NUMBER(S) 002 POND F, CAP-987,360 GAL	INACTIVE
11	SURFACE IMPOUNDMENT STORAGE OF WASTE NUMBER(S) 002 POND A, CAP-488,776 GAL	INACTIVE

THE STATE OF TEXAS I

COUNTY OF JASPER I

I, EVELYN STOTT, CLERK OF THE COUNTY COURT OF JASPER COUNTY, TEXAS, DO HEREBY CERTIFY THAT THE FOREGOING IS A TRUE AND CORRECT COPY OF THE ORIGINAL: INDUSTRIAL SOLID WASTE DISPOSAL SITE DEED RECORDATION TEXAS ELECTRIC COOPERATIVES, INC.
TO 70944
THE PUBLIC RE: WASTE DEPOSITS
AS THE SAME APPEARS OF RECORD IN THE COUNTY CLERK'S OFFICE IN VOLUME 443 PAGE 429 OF THE Deed RECORDS OF JASPER COUNTY, TEXAS.

GIVEN UNDER MY HAND AND SEAL OF SAID COURT, AT OFFICE IN JASPER, TEXAS THIS 24th DAY OF June, 19 91.

EVELYN STOTT,
COUNTY CLERK
JASPER COUNTY, TEXAS

BY Doris Goins DEPUTY
Doris Goins

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APPENDIX XI.B

SUMMARY OF APPENDIX IX HAZARDOUS CONSTITUENTS

PARAMETER	UNITS	Q1/89	Q2/89	Q3/89	Q4/89	Q1/90	Q2/90	Q3/90	Q4/90	Q1/91	Q2/91	Q3/91	Q4/91	Q1/92	Q2/92	Q3/92	Q4/92	Q1/93	Q2/93	Q3/93	Q4/93	Q1/94	Q2/94	Q3/94	Q4/94
Specific Conductance	umhos/cm	810	420	340	420	550	465	600	280	150	410	480	70	NA	800	40	330	430	410	430	515	515	400	429	361
pH	stnd units	6.13	5.95	6.10	6.09	6.17	6.32	5.90	6.10	6.10	6.53	6.63	6.40	6.24	6.23	6.34	5.98	5.87	5.72	6.29	5.97	5.94	6.12	5.50	5.30
Arsenic	mg/L	0.10	0.048	0.01	0.016	0.037	0.061	0.029	0.024	0.027	0.033	0.01	0.027	0.072	0.04	0.09	0.02	0.001	0.04	0.07	0.02	0.027	0.03	0.03	0.017
Naphthalene	mg/L	0.5274	0.32	0.02	1.00	1.70	1.56	2.70	1.94	2.35	4.627	2.703	0.65	2.692	1.150	3.140	4.640	3.790	4.630	2.920	1.920	2.400	3.650	6.360	9.440
Acenaphthylene	mg/L	0.01	0.02	0.02	0.1	0.32	0.06	0.21	0.18	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2
Benzo(a)pyrene	mg/L	0.01	0.02	0.02	0.1	0.2	0.06	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2
Phenol	mg/L	0.01	0.02	0.02	0.01	0.02	0.06	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.127	0.1	0.1	0.2	0.242	0.114	0.155	0.880	0.628	0.528
2-Chlorophenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/L	0.01	0.02	0.02	0.01	0.02	0.09	0.07	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.1	0.1	0.2	0.636	0.368	0.480	0.695	1.320	1.480
2,4-Dichlorophenol	mg/L	0.0152	0.02	0.02	0.01	0.02	0.06	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2
4-Chloro-3 methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenols	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/L	0.7915	0.02	0.02	0.01	0.02	0.06	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.1	0.1	0.2	0.5	0.5	0.5	0.250	1	1
Tetrachlorophenols	mg/L	0.01	0.02	0.02	0.1	0.03	0.06	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2
Pentachlorophenol	mg/L	0.0355	0.02	0.02	0.01	0.03	0.06	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.1	0.1	0.2	0.25	0.25	0.25	0.125	0.5	0.5
Carbazole	mg/L	0.0371	0.04	0.02	0.1	0.2	0.07	0.17	0.21	0.06	0.109	0.02	0.02	0.08	0.032	0.1	0.250	0.100	0.2	0.147	0.1	0.101	0.145	0.250	0.464
Chrysene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/L	0.144	0.02	0.02	0.1	0.2	0.06	0.02	0.01	0.02	0.143	0.031	0.03	0.135	0.039	0.1	0.1	0.106	0.2	0.1	0.1	0.1	0.1	0.2	0.2
Fluoranthene	mg/L	0.01	0.02	0.02	0.1	0.2	0.06	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2
Benzo(b)fluoranthene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichlor-1,2,2-trifluoroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene (VOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	UNITS	Q1/89	Q2/89	Q3/89	Q4/89	Q1/90	Q2/90	Q3/90	Q4/90	Q1/91	Q2/91	Q3/91	Q4/91	Q1/92	Q2/92	Q3/92	Q4/92	Q1/93	Q2/93	Q3/93	Q4/93	Q1/94	Q2/94	Q3/94	Q4/94
Toluene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes, Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3´-Dichlorobenzidine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzidine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroisopropyl)ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyridine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C6-C12 (Gasoline)-Range Hydrocarbons	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C12-C28 (Diesel)-Range Hydrocarbons	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C28-C35 (Lube Oil)-Range Hydrocarbons	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C6-C35)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96	Q3/96	Q4/96	Q1/97	Q2/97	Q3/97	Q4/97	Q1/98	Q2/98	Q3/98	Q4/98	Q1/99	Q2/99	Q3/99	Q1/00	Q3/00	Q1/01	Q3/01	Q1/02	Q3/02
Specific Conductance	478	430	533	492	400	464	550	528	362	NM	370	400	642	529	411	534	472	456	398	576	869	481	481	428	4260
pH	5.77	5.63	5.64	5.52	5.02	5.39	4.91	6.60	5.99	NM	6.48	6.52	6.54	5.80	6.68	6.46	6.20	6.91	6.59	6.08	5.44	5.97	5.97	6.03	6.12
Arsenic	0.039	0.024	0.136	0.030	0.036	0.037	0.020	0.034	0.022	NS	0.13	0.021	0.015	0.029	0.018	0.0247	0.0357	0.0350	NA	NA	NA	NA	0.0184	0.0324	0.0413
Naphthalene	5.500	1.390	2.0800	1.760	2.430	1.580	2.640	1.460	2.300	NS	0.85	1.68	0.638	4.340	3.300	2.870	1.980	4.120	1.370	5.500	18.600	1.98	3.550	4.240	3.970
Acenaphthylene	0.250	0.050	0.0100	0.125	0.050	0.100	0.100	0.025	0.125	NS	0.05	0.01	0.01	0.1	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.250	0.050	0.0100	0.125	0.050	0.100	0.100	0.025	0.125	NS	0.05	0.01	0.01	0.1	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Phenol	0.326	0.050	0.0604	0.125	0.110	0.100	0.100	0.025	0.125	NS	0.05	0.01	0.01	0.1	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	0.125	NS	0.05	0.01	0.01	0.1	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	0.935	0.168	0.246	0.125	0.450	0.143	0.228	0.0745	0.125	NS	0.05	0.058	0.01	0.132	0.0817	0.167	0.233	0.258	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	0.250	0.050	0.0100	0.125	0.050	0.100	0.100	0.025	0.125	NS	0.25	0.05	0.01	0.1	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3 methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	0.125	NS	0.05	0.01	0.01	0.1	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Trichlorophenols	NA	NA	NA	NA	NA	NA	NA	NA	0.125	NS	0.05	0.01	0.01	0.1	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	1.250	0.250	0.0500	0.625	0.250	0.500	0.500	0.125	0.625	NS	0.05	0.01	0.05	0.5	0.05	0.05	0.05	0.05	NA	NA	NA	NA	NA	NA	NA
Tetrachlorophenols	0.250	0.050	0.0100	0.125	0.050	0.100	0.100	0.025	0.125	NS	0.05	0.01	0.01	0.1	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.625	0.125	0.0250	0.250	0.100	0.200	0.200	0.050	0.250	NS	0.25	0.05	0.05	0.5	0.05	0.05	0.05	0.05	NA	NA	NA	NA	NA	NA	NA
Carbazole	0.366	0.171	0.125	0.125	0.0845	0.100	0.101	0.054	0.125	NS	0.05	0.054	0.0322	0.118	0.0967	0.0812	0.069	0.0839	NA	NA	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	0.125	NS	0.05	0.01	0.01	0.1	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	0.250	0.050	0.016	0.125	0.050	0.100	0.100	0.025	0.125	NS	0.05	0.021	0.0175	0.1	0.0294	0.0286	0.0262	0.0213	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	0.250	0.050	0.0100	0.125	0.050	0.100	0.100	0.025	0.125	NS	0.05	0.01	0.01	0.1	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	0.125	NS	0.05	0.01	0.01	0.1	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	0.125	NS	0.05	0.01	0.01	0.1	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	0.125	NS	0.05	0.01	0.01	0.1	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	0.125	NS	0.05	0.01	0.01	0.1	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichlor-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene (VOC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96	Q3/96	Q4/96	Q1/97	Q2/97	Q3/97	Q4/97	Q1/98	Q2/98	Q3/98	Q4/98	Q1/99	Q2/99	Q3/99	Q1/00	Q3/00	Q1/01	Q3/01	Q1/02	Q3/02
Toluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3´-Dichlorobenzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroisopropyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyridine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C6-C12 (Gasoline)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C12-C28 (Diesel)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C28-C35 (Lube Oil)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C6-C35)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	Q1/03	Q3/03	Q1/04	Q3/04	Q1/05	Q3/05	Q1/06	Q3/06	Q1/07	Q3/07	Q1/08	Q3/08	Q1/09	Q3/09	Q1/10	Q3/10	Q1/11	Q3/11	Q1/12	Q3/12	Q1/13	Q3/13	Q1/14	Q3/14	Q1/15
Specific Conductance	371	444	407	447	416	NA	264	223	257	297	205	249	258	247	387	355	266	222	188	247	244	241.7	260	251	262
pH	5.82	5.99	5.95	5.46	6	NA	5.81	5.84	5.81	5.43	5.78	5.75	5.88	6.21	6.77	6.15	6.52	5.98	5.78	5.15	6.08	5.98	5.96	5.99	5.9
Arsenic	0.0186	0.0277	0.031	0.0444	0.004	0.0702	0.0533	0.0567	0.0884	0.0641	0.0607	0.0911	0.0869	0.0633	0.0503	0.0352	0.0506	0.042	0.0396	0.0426	0.0547	0.0509	0.0587	0.0535	0.0316
Naphthalene	2.22	2.55	1.28	1.65	1.72	0.0566	0.0109	0.0113	0.0229	0.0192	0.0234	0.014	0.0241	0.608	3.47	1.53	0.0548	0.0645	0.0262	0.0149	0.025	0.025	0.0066	0.0211	0.0148
Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3 methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorophenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichlor-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene (VOC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	Q1/03	Q3/03	Q1/04	Q3/04	Q1/05	Q3/05	Q1/06	Q3/06	Q1/07	Q3/07	Q1/08	Q3/08	Q1/09	Q3/09	Q1/10	Q3/10	Q1/11	Q3/11	Q1/12	Q3/12	Q1/13	Q3/13	Q1/14	Q3/14	Q1/15
Toluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3´-Dichlorobenzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroisopropyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyridine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C6-C12 (Gasoline)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C12-C28 (Diesel)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C28-C35 (Lube Oil)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C6-C35)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	Q3/15	Q1/16	Q3/16	Q1/17	Q3/17	Q1/18	Q3/18	Q1/19	Q3/19	Q1/20	Q3/20	Q2/21	Q4/21	Q2/22	Q4/22	Q2/23	Q4/23	Q2/24	Q4/24	Max	Min
Specific Conductance	503	534	219	412	389	357	357	439	414.1	365.0	475.1	414	342.2	370.3	329.3	4	320.6	224	230	4260	4
pH	6.3	6.51	6.17	6.59	5.93	5.92	5.92	6.18	6.09	6.19	6.22	6.38	6.00	5.91	6.24	5.40	5.74	5.59	5.90	6.91	4.91
Arsenic	0.063	0.0417	0.0124	0.0669	0.0226	0.0278	0.0839	0.0308	0.0354	0.015	0.0128	0.0111	0.0086	0.0101	0.00481	0.00436	0.0135	0.00796	0.01020	0.136	0.001
Naphthalene	4.67	3.04	0.0637	0.0966	0.0469	0.0677	0.445	1.52	1.46	0.148	0.118	0.057	0.0181	0.0032	0.00343	0.0056	<0.0000490	0.00696	0.0016	18.6	0.0016
Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000015	<0.015	NA	NA	0.32	0.01
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00002	<0.020	NA	NA	0.25	0.01
Phenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000035	<0.035	NA	NA	0.88	0.01
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000036	NA	NA	NA	0.125	0.01
2,4-Dimethylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00004	<0.10	NA	NA	1.48	0.01
2,4-Dichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000043	NA	NA	NA	0.25	0.01
4-Chloro-3 methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000032	NA	NA	NA	0.125	0.01
Trichlorophenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000057	NA	NA	NA	0.125	0.01
2,4-Dinitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0001	NA	NA	NA	1.25	0.01
Tetrachlorophenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.25	0.01
Pentachlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000079	NA	NA	NA	0.625	0.01
Carbazole	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0065	6.5	NA	NA	6.5	0.0065
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000021	<0.021	NA	NA	0.125	0.01
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0035	3.5	NA	NA	3.5	0.0035
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00008	0.080 J	NA	NA	0.25	0.00008
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000023	<0.023	NA	NA	0.125	0.01
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000022	<0.022	NA	NA	0.125	0.01
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00005	<0.050	NA	NA	0.125	0.01
Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000024	NA	NA	NA	0.125	0.01
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
1,1,2-Trichlor-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0006	NA	NA	NA	0	0
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0004	NA	NA	NA	0	0
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0004	NA	NA	NA	0	0
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	NA	NA	NA	0	0
4-Methyl-2-pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0007	NA	NA	NA	0	0
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0014	NA	NA	NA	0	0
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	<0.0002	<0.0002	<0.0002	0	0
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0004	NA	NA	NA	0	0
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0004	NA	NA	NA	0	0
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0006	NA	NA	NA	0	0
Carbon tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Chloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Chloroform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0001	NA	NA	NA	0	0
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0003	NA	NA	NA	0.0003	0.0003
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Isopropylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
m,p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
Methyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	NA	NA	NA	0	0
Methyl tert-butyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
Methylcyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Methylene chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	NA	NA	NA	0	0
Naphthalene (VOC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.03	NA	NA	NA	0.03	0.03
o-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Tetrachloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0

PARAMETER	Q3/15	Q1/16	Q3/16	Q1/17	Q3/17	Q1/18	Q3/18	Q1/19	Q3/19	Q1/20	Q3/20	Q2/21	Q4/21	Q2/22	Q4/22	Q2/23	Q4/23	Q2/24	Q4/24	Max	Min
Toluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
Trichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Vinyl chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
Xylenes, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000096	NA	NA	NA	0.000096	0.000096
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000025	NA	NA	NA	0	0
1,2-Diphenylhydrazine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000021	NA	NA	NA	0	0
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00002	NA	NA	NA	0	0
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000027	NA	NA	NA	0	0
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001	NA	NA	NA	0.001	0.001
2,4-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000058	NA	NA	NA	0	0
2,6-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000042	NA	NA	NA	0	0
2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000021	NA	NA	NA	0	0
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00075	NA	NA	NA	0.00075	0.00075
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000045	NA	NA	NA	0	0
2-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000041	NA	NA	NA	0	0
2-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000034	NA	NA	NA	0	0
3&4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000036	NA	NA	NA	0	0
3,3´-Dichlorobenzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000044	NA	NA	NA	0	0
3-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000049	NA	NA	NA	0	0
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00002	NA	NA	NA	0	0
4-Bromophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000051	NA	NA	NA	0	0
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000039	NA	NA	NA	0	0
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000044	NA	NA	NA	0	0
4-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000035	NA	NA	NA	0	0
4-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000047	NA	NA	NA	0	0
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0078	NA	NA	NA	0.0078	0.0078
Aniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00002	NA	NA	NA	0	0
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00018	NA	NA	NA	0.00018	0.00018
Benzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0001	NA	NA	NA	0.0001	0.0001
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000014	NA	NA	NA	0	0
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000019	NA	NA	NA	0	0
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000022	NA	NA	NA	0.000022	0.000022
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000054	NA	NA	NA	0	0
Bis(2-chloroethoxy)methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00003	NA	NA	NA	0	0
Bis(2-chloroethyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000026	NA	NA	NA	0	0
Bis(2-chloroisopropyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00007	NA	NA	NA	0	0
Bis(2-ethylhexyl)phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000037	NA	NA	NA	0	0
Butyl benzyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000019	NA	NA	NA	0	0
Di-n-butyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00002	NA	NA	NA	0	0
Di-n-octyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00002	NA	NA	NA	0	0
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0036	NA	NA	NA	0.0036	0.0036
Diethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00003	NA	NA	NA	0	0
Dimethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000041	NA	NA	NA	0	0
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0045	NA	NA	NA	0.0045	0.0045
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000044	NA	NA	NA	0	0
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00003	NA	NA	NA	0	0
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00003	NA	NA	NA	0	0
Hexachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000059	NA	NA	NA	0	0
Isophorone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000025	NA	NA	NA	0	0
N-Nitrosodi-n-propylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000032	NA	NA	NA	0	0
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0001	NA	NA	NA	0	0
N-Nitrosodiphenylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000025	NA	NA	NA	0	0
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0056	NA	NA	NA	0.0056	0.0056
Nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000024	NA	NA	NA	0	0
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000059	NA	NA	NA	0.000059	0.000059
Pyridine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00003	NA	NA	NA	0	0
C6-C12 (Gasoline)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.19	NA	NA	NA	0	0
>C12-C28 (Diesel)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.37	NA	NA	NA	0.37	0.37
>C28-C35 (Lube Oil)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.19	NA	NA	NA	0	0
Total Petroleum Hydrocarbons (C6-C35)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.37	NA	NA	NA	0.37	0.37

Notes:
mg/L-milligrams per liter.
umhos/cm-micromhos per centimeter.
stnd. units - standard unit.
NA - Not Analyzed.

PARAMETER	UNITS	Q1/89	Q2/89	Q3/89	Q4/89	Q1/90	Q2/90	Q3/90	Q4/90	Q1/91	Q2/91	Q3/91	Q4/91	Q1/92	Q2/92	Q3/92	Q4/92	Q1/93	Q2/93	Q3/93	Q4/93	Q1/94	Q2/94	Q3/94	Q4/94
Specific Conductance	umhos/cm	605	420	400	95	420	410	450	240	420	320	330	10	NA	870	30	230	400	350	300	366	426	420	420	299
pH	stnd units	6.3	5.88	5.77	6.13	6.13	6.21	5.99	6.00	6.10	6.44	6.62	6.82	6.20	6.35	6.51	5.91	5.89	6.55	6.24	5.94	6.00	6.06	5.72	5.32
Arsenic	mg/L	0.10	0.072	0.01	0.01	0.036	0.060	0.043	0.022	0.035	0.054	0.01	0.086	0.100	0.090	0.140	0.100	0.04	0.10	0.08	0.05	0.065	0.05	0.05	0.084
Naphthalene	mg/L	0.0771	0.02	0.02	0.01	0.02	0.19	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Acenaphthylene	mg/L	0.01	0.02	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Benzo(a)pyrene	mg/L	0.01	0.02	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Phenol	mg/L	0.01	0.02	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.160	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
2-Chlorophenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/L	0.01	0.02	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
2,4-Dichlorophenol	mg/L	0.01	0.02	0.12	0.01	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
4-Chloro-3 methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenols	mg/L	0.01	0.02	0.03	0.01	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
2,4-Dinitrophenol	mg/L	0.31	0.02	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.05	0.05	0.05	0.05	0.05	0.05
Tetrachlorophenols	mg/L	0.01	0.02	0.06	0.01	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Pentachlorophenol	mg/L	0.01	0.02	0.03	0.01	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.025	0.025	0.025	0.025	0.025	0.025
Carbazole	mg/L	0.0164	0.02	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Chrysene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/L	0.01	0.02	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Fluoranthene	mg/L	0.01	0.02	0.16	0.01	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Benzo(b)fluoranthene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichlor-1,2,2-trifluoroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene (VOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	UNITS	Q1/89	Q2/89	Q3/89	Q4/89	Q1/90	Q2/90	Q3/90	Q4/90	Q1/91	Q2/91	Q3/91	Q4/91	Q1/92	Q2/92	Q3/92	Q4/92	Q1/93	Q2/93	Q3/93	Q4/93	Q1/94	Q2/94	Q3/94	Q4/94
Toluene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes, Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3´-Dichlorobenzidine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzidine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroisopropyl)ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyridine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C6-C12 (Gasoline)-Range Hydrocarbons	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C12-C28 (Diesel)-Range Hydrocarbons	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C28-C35 (Lube Oil)-Range Hydrocarbons	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C6-C35)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96	Q3/96	Q4/96	Q1/97	Q2/97	Q3/97	Q4/97	Q1/98	Q2/98	Q3/98	Q4/98	Q1/99	Q2/99	Q3/99	Q1/00	Q3/00	Q1/01	Q3/01	Q1/02	Q3/02
Specific Conductance	368	362	367	347	337	322	980	390	477	441	270	280	477	424	336	404	102	334				361	475	278	2250
pH	5.68	5.59	5.69	5.56	5.62	5.48	4.76	5.99	6.14	6.04	6.24	6.14	6.14	5.67	6.77	6.77	6.57	6.98				5.86	6.11	6.02	5.93
Arsenic	0.082	0.088	0.084	0.077	0.070	0.082	0.073	0.061	0.054	0.052	0.065	0.050	0.061	0.052	0.062	0.0513	0.0676	0.0680				NA	0.0168	0.0618	0.0702
Naphthalene	0.01	0.01	0.01	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01				0.0292	0.0050	0.01	0.01
Acenaphthylene	0.01	0.01	0.01	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.01	0.01	0.01	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Phenol	0.01	0.01	0.01	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	0.01	0.01	0.01	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	0.01	0.01	0.01	0.025	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3 methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Trichlorophenols	0.01	0.01	0.01	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	0.05	0.05	0.05	0.005	0.025	0.025	0.025	0.025	0.025	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	NA	NA	NA	NA	NA	NA	NA
Tetrachlorophenols	0.01	0.01	0.01	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.025	0.025	0.025	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	NA	NA	NA	NA	NA	NA	NA
Carbazole	0.01	0.01	0.01	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	0.01	0.01	0.01	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	0.01	0.01	0.01	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichlor-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene (VOC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96	Q3/96	Q4/96	Q1/97	Q2/97	Q3/97	Q4/97	Q1/98	Q2/98	Q3/98	Q4/98	Q1/99	Q2/99	Q3/99	Q1/00	Q3/00	Q1/01	Q3/01	Q1/02	Q3/02
Toluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3´-Dichlorobenzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroisopropyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyridine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C6-C12 (Gasoline)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C12-C28 (Diesel)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C28-C35 (Lube Oil)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C6-C35)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	Q1/03	Q3/03	Q1/04	Q3/04	Q1/05	Q3/05	Q1/06	Q3/06	Q1/07	Q3/07	Q1/08	Q3/08	Q1/09	Q3/09	Q1/10	Q3/10	Q1/11	Q3/11	Q1/12	Q3/12	Q1/13	Q3/13	Q1/14	Q3/14	Q1/15
Specific Conductance	264	278	329	294	274	NA	368	311	353	394	249	337	323	303	312	314	286	295	295	286	300	235.8	267	296	318
pH	5.73	5.93	6.06	5.73	5.81	NA	5.9	5.99	6.12	5.87	5.88	5.85	5.98	6.35	5.95	6.1	7.21	5.85	5.84	5.6	6.1	6.25	5.95	5.99	6.1
Arsenic	0.0634	0.0657	0.0922	0.101	NS	0.004	0.081	0.0912	0.0866	0.0806	0.0712	0.074	0.0785	0.0824	0.0914	0.0954	0.0942	0.0969	0.106	0.142	0.142	0.103	0.11	0.102	0.0975
Naphthalene	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.0012	0.0011	0.0011	0.0011	0.0012	0.0012	0.0012	0.0011	0.0013	0.0013	0.001	0.001	0.001
Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3 methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorophenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichlor-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene (VOC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	Q1/03	Q3/03	Q1/04	Q3/04	Q1/05	Q3/05	Q1/06	Q3/06	Q1/07	Q3/07	Q1/08	Q3/08	Q1/09	Q3/09	Q1/10	Q3/10	Q1/11	Q3/11	Q1/12	Q3/12	Q1/13	Q3/13	Q1/14	Q3/14	Q1/15
Toluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3´-Dichlorobenzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroisopropyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyridine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C6-C12 (Gasoline)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C12-C28 (Diesel)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C28-C35 (Lube Oil)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C6-C35)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	Q3/15	Q1/16	Q3/16	Q1/17	Q3/17	Q1/18	Q3/18	Q1/19	Q3/19	Q1/20	Q3/20	Q2/21	Q4/21	Q2/22	Q4/22	Q2/23	Q4/23	Q2/24	Q4/24	Max	Min
Specific Conductance	389	482	127	513	586	544	544	433	248.6	425.9	377.1	470	351.9		1069	241	460	417	217	2250	10
pH	6.75	6.89	6.12	6.65	6	5.95	5.95	6.19	6.05	5.98	5.67	6.23	5.97		5.89	5.67	5.89	5.99	5.21	7.21	4.76
Arsenic	0.0925	0.0034	0.0751	0.0662	0.0556	0.0569	0.0491	0.0579	0.0578	0.0639	0.0678	0.0606	0.0434	0.316	0.0876	0.0222	0.0583	0.145	0.02	0.316	0.0034
Naphthalene	0.001	0.0017	0.0017	0.0018	0.0018	0.0018	0.0018	0.0012	0.0047	0.0012	0.0011	0.000024	0.0011	0.0011	0.000034	0.00002	0.00014	0.000049	0.000049	0.19	0.00002
Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000015	<0.015	NA	NA	0.02	0.000015
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000044	0.044 J	NA	NA	0.02	0.000044
Phenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000035	<1.2	NA	NA	0.16	0.005
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000036	NA	NA	NA	0.01	0.005
2,4-Dimethylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00004	NA	NA	NA	0.02	0.005
2,4-Dichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000043	NA	NA	NA	0.12	0.005
4-Chloro-3 methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000032	NA	NA	NA	0.01	0.005
Trichlorophenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000105	NA	NA	NA	0.03	0.000105
2,4-Dinitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0001	NA	NA	NA	0.05	0.005
Tetrachlorophenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.06	0.005
Pentachlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000079	NA	NA	NA	0.05	0.01
Carbazole	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000025	<1.1	NA	NA	0.02	0.000025
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000021	<1.0	NA	NA	0.01	0.000021
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000021	<1.3	NA	NA	0.02	0.000021
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000079	2.2 J	NA	NA	0.16	0.000079
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000044	<1.1	NA	NA	0.01	0.000044
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000059	<0.95	NA	NA	0.01	0.000059
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00005	<0.91	NA	NA	0.01	0.00005
Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000066	NA	NA	NA	0.01	0.000066
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
1,1,2-Trichlor-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0006	NA	NA	NA	0	0
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0004	NA	NA	NA	0	0
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0004	NA	NA	NA	0	0
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	NA	NA	NA	0	0
4-Methyl-2-pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0007	NA	NA	NA	0	0
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0014	NA	NA	NA	0	0
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0004	NA	NA	NA	0	0
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0004	NA	NA	NA	0	0
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0006	NA	NA	NA	0	0
Carbon tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Chloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Chloroform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0001	NA	NA	NA	0	0
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0003	NA	NA	NA	0.0003	0.0003
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Isopropylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
m,p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
Methyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	NA	NA	NA	0	0
Methyl tert-butyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
Methylcyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Methylene chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	NA	NA	NA	0	0
Naphthalene (VOC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.026	NA	NA	NA	0.026	0.026
o-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Tetrachloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0

PARAMETER	Q3/15	Q1/16	Q3/16	Q1/17	Q3/17	Q1/18	Q3/18	Q1/19	Q3/19	Q1/20	Q3/20	Q2/21	Q4/21	Q2/22	Q4/22	Q2/23	Q4/23	Q2/24	Q4/24	Max	Min
Toluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
Trichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Vinyl chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
Xylenes, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00003	NA	NA	NA	0.00003	0.00003
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000025	NA	NA	NA	0.000025	0.000025
1,2-Diphenylhydrazine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000021	NA	NA	NA	0.000021	0.000021
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00002	NA	NA	NA	0.00002	0.00002
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000027	NA	NA	NA	0.000027	0.000027
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00001	NA	NA	NA	0.00001	0.00001
2,4-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000058	NA	NA	NA	0.000058	0.000058
2,6-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000042	NA	NA	NA	0.000042	0.000042
2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000021	NA	NA	NA	0.000021	0.000021
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000019	NA	NA	NA	0.000019	0.000019
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000045	NA	NA	NA	0	0
2-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000041	NA	NA	NA	0.000041	0.000041
2-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000034	NA	NA	NA	0	0
3&4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000036	NA	NA	NA	0	0
3,3´-Dichlorobenzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000044	NA	NA	NA	0.000044	0.000044
3-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000049	NA	NA	NA	0.000049	0.000049
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00002	NA	NA	NA	0	0
4-Bromophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000051	NA	NA	NA	0.000051	0.000051
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000039	NA	NA	NA	0.000039	0.000039
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000044	NA	NA	NA	0.000044	0.000044
4-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000035	NA	NA	NA	0.000035	0.000035
4-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000047	NA	NA	NA	0	0
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000027	NA	NA	NA	0.000027	0.000027
Aniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00002	NA	NA	NA	0.00002	0.00002
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000014	NA	NA	NA	0.000014	0.000014
Benzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0001	NA	NA	NA	0.0001	0.0001
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000063	NA	NA	NA	0.000063	0.000063
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000047	NA	NA	NA	0.000047	0.000047
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000022	NA	NA	NA	0	0
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000054	NA	NA	NA	0	0
Bis(2-chloroethoxy)methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00003	NA	NA	NA	0.00003	0.00003
Bis(2-chloroethyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000026	NA	NA	NA	0.000026	0.000026
Bis(2-chloroisopropyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00007	NA	NA	NA	0.00007	0.00007
Bis(2-ethylhexyl)phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00011	NA	NA	NA	0.00011	0.00011
Butyl benzyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000019	NA	NA	NA	0.000019	0.000019
Di-n-butyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00002	NA	NA	NA	0.00002	0.00002
Di-n-octyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000079	NA	NA	NA	0.000079	0.000079
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00002	NA	NA	NA	0.00002	0.00002
Diethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00003	NA	NA	NA	0.00003	0.00003
Dimethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000041	NA	NA	NA	0.000041	0.000041
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00003	NA	NA	NA	0.00003	0.00003
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000044	NA	NA	NA	0.000044	0.000044
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00003	NA	NA	NA	0.00003	0.00003
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00003	NA	NA	NA	0.00003	0.00003
Hexachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000059	NA	NA	NA	0.000059	0.000059
Isophorone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000025	NA	NA	NA	0.000025	0.000025
N-Nitrosodi-n-propylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000032	NA	NA	NA	0.000032	0.000032
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0001	NA	NA	NA	0.0001	0.0001
N-Nitrosodiphenylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000025	NA	NA	NA	0.000025	0.000025
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00002	NA	NA	NA	0.00002	0.00002
Nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000024	NA	NA	NA	0.000024	0.000024
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000058	NA	NA	NA	0.000058	0.000058
Pyridine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00003	NA	NA	NA	0.00003	0.00003
C6-C12 (Gasoline)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.2	NA	NA	NA	0	0
>C12-C28 (Diesel)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.2	NA	NA	NA	0	0
>C28-C35 (Lube Oil)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.2	NA	NA	NA	0	0
Total Petroleum Hydrocarbons (C6-C35)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.2	NA	NA	NA	0	0

Notes:
mg/L-milligrams per liter.
umhos/cm-micromhos per centimeter.
stnd. units - standard unit.
NA - Not Analyzed.

PARAMETER	UNITS	Q1/89	Q2/89	Q3/89	Q4/89	Q1/90	Q2/90	Q3/90	Q4/90	Q1/91	Q2/91	Q3/91	Q4/91	Q1/92	Q2/92	Q3/92	Q4/92	Q1/93	Q2/93	Q3/93	Q4/93	Q1/94	Q2/94	Q3/94	Q4/94
Specific Conductance	umhos/cm	NA	NA	NA	430	750	NA	600	470	730	NA	NA	NA	NA	950	50	450	450	550	510	586	587	480	515	700
pH	stnd units	NA	NA	NA	6.2	6.3	NA	6.03	5.92	5.92	NA	NA	NA	6.48	5.66	6.21	6.07	6.07	5.98	6.00	5.55	5.71	5.82	5.29	5.64
Arsenic	mg/L	0.01	0.01	NA	0.01	NA	NA	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.014	0.01	0.01	0.01	0.01	0.01	0.01
Naphthalene	mg/L	NA	0.57	NA	3.1	NA	NA	0.22	0.31	2.18	0.736	0.278	0.02	4.71	0.02	2.63	0.02	0.02	0.822	0.017	0.01	0.138	0.01	0.01	0.304
Acenaphthylene	mg/L	NA	0.02	NA	0.5	NA	NA	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Benzo(a)pyrene	mg/L	NA	0.02	NA	0.5	NA	NA	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Phenol	mg/L	NA	0.02	NA	0.01	NA	NA	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
2-Chlorophenol	mg/L	NA	0.02	NA	0.01	NA	NA	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
2,4-Dimethylphenol	mg/L	NA	0.02	NA	0.01	NA	NA	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
2,4-Dichlorophenol	mg/L	NA	0.02	NA	0.01	NA	NA	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
4-Chloro-3 methylphenol	mg/L	NA	0.02	NA	0.01	NA	NA	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Trichlorophenols	mg/L	NA	0.02	NA	0.01	NA	NA	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
2,4-Dinitrophenol	mg/L	NA	0.02	NA	0.01	NA	NA	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.02	0.02	0.02	0.05	0.05	0.05	0.05	0.05	0.05
Tetrachlorophenols	mg/L	NA	0.02	NA	0.01	NA	NA	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Pentachlorophenol	mg/L	NA	0.02	NA	0.01	NA	NA	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.02	0.02	0.02	0.025	0.025	0.025	0.025	0.025	0.025
Carbazole	mg/L	NA	0.02	NA	0.5	NA	NA	0.02	0.01	0.06	0.02	0.02	0.069	0.1	0.02	0.1	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.0112
Chrysene	mg/L	NA	0.02	NA	0.5	NA	NA	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Phenanthrene	mg/L	NA	0.03	NA	0.5	NA	NA	0.02	0.01	0.06	0.044	0.02	0.035	0.182	0.02	0.134	0.02	0.02	0.089	0.01	0.01	0.01	0.01	0.01	0.0159
Fluoranthene	mg/L	NA	0.02	NA	0.5	NA	NA	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Benzo(b)fluoranthene	mg/L	NA	0.02	NA	0.5	NA	NA	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Indeno(1,2,3-cd)pyrene	mg/L	NA	0.02	NA	0.5	NA	NA	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Benzo(a)anthracene	mg/L	NA	0.02	NA	0.5	NA	NA	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Dibenz(a,h)anthracene	mg/L	NA	0.02	NA	0.5	NA	NA	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
1,1,1-Trichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichlor-1,2,2-trifluoroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene (VOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	UNITS	Q1/89	Q2/89	Q3/89	Q4/89	Q1/90	Q2/90	Q3/90	Q4/90	Q1/91	Q2/91	Q3/91	Q4/91	Q1/92	Q2/92	Q3/92	Q4/92	Q1/93	Q2/93	Q3/93	Q4/93	Q1/94	Q2/94	Q3/94	Q4/94
Toluene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes, Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3´-Dichlorobenzidine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzidine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroisopropyl)ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyridine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C6-C12 (Gasoline)-Range Hydrocarbons	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C12-C28 (Diesel)-Range Hydrocarbons	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C28-C35 (Lube Oil)-Range Hydrocarbons	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C6-C35)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96	Q3/96	Q4/96	Q1/97	Q2/97	Q3/97	Q4/97	Q1/98	Q2/98	Q3/98	Q4/98	Q1/99	Q2/99	Q3/99	Q1/00	Q3/00	Q1/01	Q3/01	Q1/02	Q3/02
Specific Conductance	555	704	507	566	290	301	1150	530	NM	735	550	740	912	751	544	732	676	553	521	841	768	621	688	520	504
pH	5.38	6.01	5.08	5.03	4.45	4.82	4.24	5.19	NM	6.15	6.36	6.38	6.33	6.43	6.51	7.32	7.51	7.15	6.46	6.19	5.62	6.19	6.72	6.55	5.85
Arsenic	0.009	0.005	0.005	0.005	0.005	0.005	0.005	0.013	0.006	0.006	0.04	0.009	0.052	0.121	0.156	0.018	0.114	0.120	NA	NA	NA	NA	0.0319	0.0776	0.0464
Naphthalene	0.129	0.010	0.010	0.005	0.005	0.0248	0.0104	0.0178	0.456	1.040	0.069	0.013	0.971	2.680	0.898	0.221	2.070	3.020	1.830	2.760	3.320	1.55	1.160	1.700	0.576
Acenaphthylene	0.010	0.010	0.010	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.010	0.010	0.010	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Phenol	0.010	0.010	0.010	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	0.010	0.010	0.010	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	0.010	0.010	0.010	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	0.010	0.010	0.010	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3 methylphenol	0.010	0.010	0.010	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Trichlorophenols	0.010	0.010	0.010	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	0.05	0.05	0.050	0.025	0.025	0.025	0.025	0.025	0.025	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	NA	NA	NA	NA	NA	NA	NA
Tetrachlorophenols	0.01	0.01	0.010	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.025	0.025	0.025	0.010	0.010	0.01	0.01	0.01	0.01	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	NA	NA	NA	NA	NA	NA	NA
Carbazole	0.01	0.0195	0.010	0.005	0.005	0.005	0.005	0.005	0.0175	0.01	0.01	0.01	0.01	0.0587	0.0338	0.01	0.0487	0.0755	NA	NA	NA	NA	NA	NA	NA
Chrysene	0.01	0.01	0.010	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	0.0101	0.0558	0.010	0.005	0.005	0.005	0.005	0.005	0.0254	0.0913	0.01	0.01	0.0697	0.202	0.140	0.0284	0.137	0.193	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	0.010	0.010	0.010	0.005	0.005	0.005	0.005	0.005	0.005	0.0135	0.01	0.01	0.0114	0.0314	0.0206	0.01	0.0184	0.0311	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	0.010	0.010	0.010	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.010	0.010	0.010	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.010	0.010	0.010	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.010	0.010	0.010	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichlor-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene (VOC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96	Q3/96	Q4/96	Q1/97	Q2/97	Q3/97	Q4/97	Q1/98	Q2/98	Q3/98	Q4/98	Q1/99	Q2/99	Q3/99	Q1/00	Q3/00	Q1/01	Q3/01	Q1/02	Q3/02
Toluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3´-Dichlorobenzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroisopropyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyridine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C6-C12 (Gasoline)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C12-C28 (Diesel)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C28-C35 (Lube Oil)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C6-C35)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	Q1/03	Q3/03	Q1/04	Q3/04	Q1/05	Q3/05	Q1/06	Q3/06	Q1/07	Q3/07	Q1/08	Q3/08	Q1/09	Q3/09	Q1/10	Q3/10	Q1/11	Q3/11	Q1/12	Q3/12	Q1/13	Q3/13	Q1/14	Q3/14	Q1/15	Q3/15
Specific Conductance	488	544	590	522	492	492	514	545	536	603	351	514	487	492	513	476	461	533	510	504	536	467	419	519	501	580
pH	5.83	5.9	6.04	6.39	5.54	5.54	5.92	5.92	5.9	5.89	5.94	5.92	6.04	6.14	6.55	6.21	6.49	6.05	5.78	6.31	6.05	6.07	5.86	7.3	6.05	7.41
Arsenic	0.077	0.0146	0.214	0.155	0.004	0.004	0.0059	0.0068	0.15	0.151	0.222	0.194	0.0071	0.0034	0.0105	0.0077	0.036	0.0139	0.0198	0.0216	0.0593	0.0098	0.0076	0.0107	0.0397	0.0548
Naphthalene	1.95	0.679	2.55	1.17	2.28	2.28	1.85	1.69	1.56	1.68	2.08	1.14	0.818	1.86	1.78	1.75	1.53	0.489	3.16	1.6	3.74	1.47	1.15	1.01	2.54	2.13
Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3 methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorophenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichlor-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene (VOC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	Q1/03	Q3/03	Q1/04	Q3/04	Q1/05	Q3/05	Q1/06	Q3/06	Q1/07	Q3/07	Q1/08	Q3/08	Q1/09	Q3/09	Q1/10	Q3/10	Q1/11	Q3/11	Q1/12	Q3/12	Q1/13	Q3/13	Q1/14	Q3/14	Q1/15	Q3/15
Toluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3´-Dichlorobenzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroisopropyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyridine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C6-C12 (Gasoline)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C12-C28 (Diesel)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C28-C35 (Lube Oil)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C6-C35)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
mg/L-mil
umhos/cr
stnd. unit
NA - Not

PARAMETER	Q1/16	Q3/16	Q1/17	Q3/17	Q1/18	Q3/18	Q1/19	Q3/19	Q1/20	Q3/20	Q2/21	Q4/21	Q2/22	Q4/22	Q2/23	Q4/23	Q2/24	Q4/24	Max	Min
Specific Conductance	577	322	474	509	473	473	539	510.8	498.8	559	560	477.5	578	608	570	630	454	545	1150	50
pH	7.45	7.04	5.9	5.63	5.59	5.59	5.79	5.97	5.96	5.7	5.83	5.91	5.76	6.15	5.69	5.84	5.89	6.04	7.51	4.24
Arsenic	0.0468	0.0089	0.0135	0.0097	0.0128	0.0099	0.0162	NA	0.0145	0.0101	0.0112	0.0139	0.0086	0.087	0.00877	0.0405	0.00834	0.00586	0.222	0.0034
Naphthalene	1.94	2.05	0.889	0.529	0.814	0.628	1.16	1.32	1.32	0.976	1.89	1.05	0.155	0.00619	0.640	0.004820	0.845000	0.610000	4.71	0.00482
Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0011	NA	NA	NA	0.5	0.0011
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00002	NA	NA	NA	0.5	0.005
Phenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000035	NA	NA	NA	0.1	0.000035
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000036	NA	NA	NA	0.1	0.000036
2,4-Dimethylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00004	NA	NA	NA	0.1	0.00004
2,4-Dichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000043	NA	NA	NA	0.1	0.000043
4-Chloro-3 methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000032	NA	NA	NA	0.1	0.000032
Trichlorophenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000105	NA	NA	NA	0.1	0.000105
2,4-Dinitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0001	NA	NA	NA	0.1	0.0001
Tetrachlorophenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.1	0.005
Pentachlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000079	NA	NA	NA	0.1	0.000079
Carbazole	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.021	NA	NA	NA	0.5	0.005
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000021	NA	NA	NA	0.5	0.005
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.044	NA	NA	NA	0.5	0.005
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0035	NA	NA	NA	0.5	0.0035
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000023	NA	NA	NA	0.5	0.005
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000022	NA	NA	NA	0.5	0.005
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00005	NA	NA	NA	0.5	0.005
Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000024	NA	NA	NA	0.5	0.005
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
1,1,2-Trichlor-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0006	NA	NA	NA	0	0
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0004	NA	NA	NA	0	0
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0004	NA	NA	NA	0	0
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	NA	NA	NA	0	0
4-Methyl-2-pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0007	NA	NA	NA	0	0
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0014	NA	NA	NA	0	0
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	<0.0002	<0.0002	<0.0002	0	0
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0004	NA	NA	NA	0	0
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0004	NA	NA	NA	0	0
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0006	NA	NA	NA	0	0
Carbon tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Chloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Chloroform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0001	NA	NA	NA	0	0
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0003	NA	NA	NA	0.0003	0.0003
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.006	NA	NA	NA	0.006	0.006
Isopropylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
m,p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0034	NA	NA	NA	0.0034	0.0034
Methyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	NA	NA	NA	0	0
Methyl tert-butyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
Methylcyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Methylene chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	NA	NA	NA	0	0
Naphthalene (VOC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.7	NA	NA	NA	2.7	2.7
o-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0047	NA	NA	NA	0.0047	0.0047
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Tetrachloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0

PARAMETER	Q1/16	Q3/16	Q1/17	Q3/17	Q1/18	Q3/18	Q1/19	Q3/19	Q1/20	Q3/20	Q2/21	Q4/21	Q2/22	Q4/22	Q2/23	Q4/23	Q2/24	Q4/24	Max	Min
Toluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0023	NA	NA	NA	0.0023	0.0023
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
Trichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Vinyl chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
Xylenes, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0081	NA	NA	NA	0.0081	0.0081
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00052	NA	NA	NA	0.00052	0.00052
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000025	NA	NA	NA	0	0
1,2-Diphenylhydrazine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000021	NA	NA	NA	0	0
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00002	NA	NA	NA	0	0
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000027	NA	NA	NA	0	0
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.047	NA	NA	NA	0.047	0.047
2,4-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000058	NA	NA	NA	0	0
2,6-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000042	NA	NA	NA	0	0
2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000021	NA	NA	NA	0	0
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0023	NA	NA	NA	0.0023	0.0023
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000045	NA	NA	NA	0.000045	0.000045
2-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000041	NA	NA	NA	0	0
2-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000034	NA	NA	NA	0.000034	0.000034
3&4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000036	NA	NA	NA	0.000036	0.000036
3,3´-Dichlorobenzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000044	NA	NA	NA	0	0
3-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000049	NA	NA	NA	0	0
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00002	NA	NA	NA	0.00002	0.00002
4-Bromophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000051	NA	NA	NA	0	0
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000039	NA	NA	NA	0	0
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000044	NA	NA	NA	0.000044	0.000044
4-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000035	NA	NA	NA	0	0
4-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000047	NA	NA	NA	0.000047	0.000047
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.075	NA	NA	NA	0.075	0.075
Aniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00002	NA	NA	NA	0	0
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0015	NA	NA	NA	0.0015	0.0015
Benzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0001	NA	NA	NA	0	0
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000014	NA	NA	NA	0	0
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000019	NA	NA	NA	0	0
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000022	NA	NA	NA	0.000022	0.000022
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000054	NA	NA	NA	0.000054	0.000054
Bis(2-chloroethoxy)methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00003	NA	NA	NA	0	0
Bis(2-chloroethyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000026	NA	NA	NA	0	0
Bis(2-chloroisopropyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00007	NA	NA	NA	0	0
Bis(2-ethylhexyl)phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000037	NA	NA	NA	0	0
Butyl benzyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000019	NA	NA	NA	0	0
Di-n-butyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00002	NA	NA	NA	0	0
Di-n-octyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00002	NA	NA	NA	0	0
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.045	NA	NA	NA	0.045	0.045
Diethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00003	NA	NA	NA	0	0
Dimethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000041	NA	NA	NA	0	0
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.032	NA	NA	NA	0.032	0.032
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000044	NA	NA	NA	0.000044	0.000044
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00003	NA	NA	NA	0.00003	0.00003
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00003	NA	NA	NA	0	0
Hexachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000059	NA	NA	NA	0	0
Isophorone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000025	NA	NA	NA	0	0
N-Nitrosodi-n-propylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000032	NA	NA	NA	0	0
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0001	NA	NA	NA	0	0
N-Nitrosodiphenylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000025	NA	NA	NA	0	0
Nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000024	NA	NA	NA	0	0
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002	NA	NA	NA	0.002	0.002
Pyridine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00003	NA	NA	NA	0	0
C6-C12 (Gasoline)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.6	NA	NA	NA	2.6	2.6
>C12-C28 (Diesel)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.4	NA	NA	NA	2.4	2.4
>C28-C35 (Lube Oil)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.19	NA	NA	NA	0	0
Total Petroleum Hydrocarbons (C6-C35)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	NA	NA	NA	5	5

ligrams per liter.
n-micromhos per centimeter.
s - standard unit.
Analyzed.

PARAMETER	UNITS	Q1/89	Q2/89	Q3/89	Q4/89	Q1/90	Q2/90	Q3/90	Q4/90	Q1/91	Q2/91	Q3/91	Q4/91	Q1/92	Q2/92	Q3/92	Q4/92	Q1/93	Q2/93	Q3/93	Q4/93	Q1/94	Q2/94	Q3/94
Specific Conductance	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	stnd units	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3 methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenols	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorophenols	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichlor-1,2,2-trifluoroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene (VOC)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes, Total	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	UNITS	Q1/89	Q2/89	Q3/89	Q4/89	Q1/90	Q2/90	Q3/90	Q4/90	Q1/91	Q2/91	Q3/91	Q4/91	Q1/92	Q2/92	Q3/92	Q4/92	Q1/93	Q2/93	Q3/93	Q4/93	Q1/94	Q2/94	Q3/94
1,3-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3´-Dichlorobenzidine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzidine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroisopropyl)ether	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyridine	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C6-C12 (Gasoline)-Range Hydrocarbons	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C12-C28 (Diesel)-Range Hydrocarbons	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C28-C35 (Lube Oil)-Range Hydrocarbons	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C6-C35)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	Q4/94	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96	Q3/96	Q4/96	Q1/97	Q2/97	Q3/97	Q4/97	Q1/98	Q2/98	Q3/98	Q4/98	Q1/99	Q2/99	Q3/99
Specific Conductance	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3 methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorophenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichlor-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene (VOC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	Q4/94	Q1/95	Q2/95	Q3/95	Q4/95	Q1/96	Q2/96	Q3/96	Q4/96	Q1/97	Q2/97	Q3/97	Q4/97	Q1/98	Q2/98	Q3/98	Q4/98	Q1/99	Q2/99	Q3/99
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3´-Dichlorobenzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroisopropyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyridine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C6-C12 (Gasoline)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C12-C28 (Diesel)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C28-C35 (Lube Oil)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C6-C35)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	Q1/00	Q3/00	Q1/01	Q3/01	Q1/02	Q3/02	Q1/03	Q3/03	Q1/04	Q3/04	Q1/05	Q3/05	Q1/06	Q3/06	Q1/07	Q3/07	Q1/08	Q1/09	Q3/09	Q1/10
Specific Conductance	NA	NA	NA	NA	NA	NA	0.619	NA	766	686	610	NA	312	253	275	302	198	NA	NA	NA
pH	NA	NA	NA	NA	NA	NA	6.28	NA	6.21	5.8	6.22	NA	6.04	6.02	5.83	5.41	5.93	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	0.0604	NS	0.187	0.243	0.004	0.0779	0.0668	0.0766	0.0648	0.0661	0.0729	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	1.02	7.04	7.18	6.76	4	1.06	0.479	<0.005	0.263	<0.005	<0.005	NA	NA	NA
Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3 methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorophenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichlor-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene (VOC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	Q1/00	Q3/00	Q1/01	Q3/01	Q1/02	Q3/02	Q1/03	Q3/03	Q1/04	Q3/04	Q1/05	Q3/05	Q1/06	Q3/06	Q1/07	Q3/07	Q1/08	Q1/09	Q3/09	Q1/10
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3´-Dichlorobenzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroisopropyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyridine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C6-C12 (Gasoline)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C12-C28 (Diesel)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C28-C35 (Lube Oil)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C6-C35)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	Q3/10	Q1/11	Q3/11	Q1/12	Q3/12	Q1/13	Q3/13	Q1/14	Q3/14	Q1/15	Q3/15	Q1/16	Q3/16	Q1/17	Q3/17	Q1/18	Q3/18	Q1/19	Q2/19	Q1/20
Specific Conductance	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0481	NA	NA	0.0367	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.449	NA	NA	0.366	NA
Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3 methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorophenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorophenols	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichlor-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylcyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene (VOC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	Q3/10	Q1/11	Q3/11	Q1/12	Q3/12	Q1/13	Q3/13	Q1/14	Q3/14	Q1/15	Q3/15	Q1/16	Q3/16	Q1/17	Q3/17	Q1/18	Q3/18	Q1/19	Q2/19	Q1/20
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3´-Dichlorobenzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroisopropyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyridine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C6-C12 (Gasoline)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C12-C28 (Diesel)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
>C28-C35 (Lube Oil)-Range Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C6-C35)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

PARAMETER	Q2/21	Q4/21	Q2/22	Q4/22	Q2/23	Q4/23	Q2/24	Q4/24	Max	Min
Specific Conductance	550	613	NA	NA	418	271.4	284	292	766	0.619
pH	6.95	6.38	NA	NA	6.09	5.77	5.92	6.12	6.95	5.41
Arsenic	0.284	0.22	0.0866	0.0821	0.075	0.0515	0.0678	0.0412	0.284	0.004
Naphthalene	1.33	<0.0011	1.2	<0.0000340	0.51	1.1	<0.0000490	0.00058	7.18	0.00058
Acenaphthylene	NA	<0.0011	0.0029 J	<0.000024	0.00089	NA	NA	NA	0.00089	0.00089
Benzo(a)pyrene	NA	<0.00093	<0.00093	0.000049	<0.00002	NA	NA	NA	0.000049	0.000049
Phenol	NA	<0.0011	0.0012	<0.000051	<0.000035	NA	NA	NA	0.0012	0.0012
2-Chlorophenol	NA	NA	NA	NA	<0.000036	NA	NA	NA	0	0
2,4-Dimethylphenol	NA	0.105	0.0139	<0.000052	0.068	NA	NA	NA	0.105	0.0139
2,4-Dichlorophenol	NA	NA	NA	NA	<0.000043	NA	NA	NA	0	0
4-Chloro-3 methylphenol	NA	NA	NA	NA	<0.000032	NA	NA	NA	0	0
Trichlorophenols	NA	NA	NA	NA	<0.000057	NA	NA	NA	0	0
2,4-Dinitrophenol	NA	<0.0021	0.0021	<0.000465	<0.0001	NA	NA	NA	0.0021	0.0021
Tetrachlorophenols	NA	NA	NA	NA	NA	NA	NA	NA	0	0
Pentachlorophenol	NA	NA	NA	NA	<0.000079	NA	NA	NA	0	0
Carbazole	NA	0.0583	0.0785	0.00007	0.025	NA	NA	NA	0.0785	0.00007
Chrysene	NA	<0.001	<0.001	<0.000046	<0.000021	NA	NA	NA	0	0
Phenanthrene	NA	0.0106	0.0178	<0.000043	0.0048	NA	NA	NA	0.0178	0.0048
Fluoranthene	NA	0.005	0.0028 J	0.000721	0.00071	NA	NA	NA	0.005	0.00071
Benzo(b)fluoranthene	NA	<0.0011	<0.0011	0.000039	<0.000023	NA	NA	NA	0.000039	0.000039
Indeno(1,2,3-cd)pyrene	NA	<0.00094	<0.00095	<0.000027	<0.000022	NA	NA	NA	0	0
Benzo(a)anthracene	NA	<0.00090	<0.00091	<0.000042	<0.00005	NA	NA	NA	0	0
Dibenz(a,h)anthracene	NA	NA	NA	NA	<0.000024	NA	NA	NA	0	0
1,1,1-Trichloroethane	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
1,1,2-Trichlor-1,2,2-trifluoroethane	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
1,1,2-Trichloroethane	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
1,1-Dichloroethane	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
1,1-Dichloroethene	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
1,2,4-Trichlorobenzene	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	<0.0006	NA	NA	NA	0	0
1,2-Dibromoethane	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
1,2-Dichlorobenzene	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
1,2-Dichloroethane	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
1,2-Dichloropropane	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
1,3-Dichlorobenzene	NA	NA	NA	NA	<0.0004	NA	NA	NA	0	0
1,4-Dichlorobenzene	NA	NA	NA	NA	<0.0004	NA	NA	NA	0	0
2-Butanone	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
2-Hexanone	NA	NA	NA	NA	<0.001	NA	NA	NA	0	0
4-Methyl-2-pentanone	NA	NA	NA	NA	<0.0007	NA	NA	NA	0	0
Acetone	NA	NA	NA	NA	<0.0014	NA	NA	NA	0	0
Benzene	NA	NA	NA	NA	0.018	0.0066	NA	0.0021	0.018	0.0021
Bromodichloromethane	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
Bromoform	NA	NA	NA	NA	<0.0004	NA	NA	NA	0	0
Bromomethane	NA	NA	NA	NA	<0.0004	NA	NA	NA	0	0
Carbon disulfide	NA	NA	NA	NA	<0.0006	NA	NA	NA	0	0
Carbon tetrachloride	NA	NA	NA	NA	<0.0005	NA	NA	NA	0	0
Chlorobenzene	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Chloroethane	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Chloroform	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
Chloromethane	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
cis-1,2-Dichloroethene	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
cis-1,3-Dichloropropene	NA	NA	NA	NA	<0.0001	NA	NA	NA	0	0
Cyclohexane	NA	NA	NA	NA	0.0003	NA	NA	NA	0.0003	0.0003
Dibromochloromethane	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Dichlorodifluoromethane	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Ethylbenzene	NA	NA	NA	NA	0.016	NA	NA	NA	0.016	0.016
Isopropylbenzene	NA	NA	NA	NA	0.0014	NA	NA	NA	0.0014	0.0014
m,p-Xylene	NA	NA	NA	NA	0.014	NA	NA	NA	0.014	0.014
Methyl acetate	NA	NA	NA	NA	<0.001	NA	NA	NA	0	0
Methyl tert-butyl ether	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
Methylcyclohexane	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Methylene chloride	NA	NA	NA	NA	<0.001	NA	NA	NA	0	0
Naphthalene (VOC)	NA	NA	NA	NA	2.7	NA	NA	NA	2.7	2.7
o-Xylene	NA	NA	NA	NA	0.0085	NA	NA	NA	0.0085	0.0085
Styrene	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Tetrachloroethene	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Toluene	NA	NA	NA	NA	0.013	NA	NA	NA	0.013	0.013
trans-1,2-Dichloroethene	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
trans-1,3-Dichloropropene	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
Trichloroethene	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Trichlorofluoromethane	NA	NA	NA	NA	<0.0003	NA	NA	NA	0	0
Vinyl chloride	NA	NA	NA	NA	<0.0002	NA	NA	NA	0	0
Xylenes, Total	NA	NA	NA	NA	0.023	NA	NA	NA	0.023	0.023
1,2,4-Trichlorobenzene	NA	NA	NA	NA	0.00003	NA	NA	NA	0.00003	0.00003
1,2-Dichlorobenzene	NA	NA	NA	NA	<0.000025	NA	NA	NA	0	0
1,2-Diphenylhydrazine	NA	NA	NA	NA	<0.000021	NA	NA	NA	0	0

PARAMETER	Q2/21	Q4/21	Q2/22	Q4/22	Q2/23	Q4/23	Q2/24	Q4/24	Max	Min
1,3-Dichlorobenzene	NA	NA	NA	NA	<0.00002	NA	NA	NA	0	0
1,4-Dichlorobenzene	NA	NA	NA	NA	<0.000027	NA	NA	NA	0	0
1-Methylnaphthalene	NA	NA	NA	NA	0.022	NA	NA	NA	0.022	0.022
2,4-Dinitrophenol	NA	NA	NA	NA	<0.0001	NA	NA	NA	0	0
2,4-Dinitrotoluene	NA	NA	NA	NA	<0.000058	NA	NA	NA	0	0
2,6-Dinitrotoluene	NA	NA	NA	NA	<0.000042	NA	NA	NA	0	0
2-Chloronaphthalene	NA	NA	NA	NA	<0.000021	NA	NA	NA	0	0
2-Methylnaphthalene	NA	NA	NA	NA	0.026	NA	NA	NA	0.026	0.026
2-Methylphenol	NA	NA	NA	NA	0.011	NA	NA	NA	0.011	0.011
2-Nitroaniline	NA	NA	NA	NA	<0.000041	NA	NA	NA	0	0
2-Nitrophenol	NA	NA	NA	NA	<0.000034	NA	NA	NA	0	0
3&4-Methylphenol	NA	NA	NA	NA	0.0053	NA	NA	NA	0.0053	0.0053
3,3´-Dichlorobenzidine	NA	NA	NA	NA	<0.000044	NA	NA	NA	0	0
3-Nitroaniline	NA	NA	NA	NA	<0.000049	NA	NA	NA	0	0
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	<0.00002	NA	NA	NA	0	0
4-Bromophenyl phenyl ether	NA	NA	NA	NA	<0.000051	NA	NA	NA	0	0
4-Chloroaniline	NA	NA	NA	NA	<0.000039	NA	NA	NA	0	0
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	0.000044	NA	NA	NA	0.000044	0.000044
4-Nitroaniline	NA	NA	NA	NA	<0.000035	NA	NA	NA	0	0
4-Nitrophenol	NA	NA	NA	NA	0.000047	NA	NA	NA	0.000047	0.000047
Acenaphthene	NA	NA	NA	NA	0.069	NA	NA	NA	0.069	0.069
Aniline	NA	NA	NA	NA	<0.00002	NA	NA	NA	0	0
Anthracene	NA	NA	NA	NA	0.0011	NA	NA	NA	0.0011	0.0011
Benzidine	NA	NA	NA	NA	0.0001	NA	NA	NA	0.0001	0.0001
Benzo(g,h,i)perylene	NA	NA	NA	NA	<0.000014	NA	NA	NA	0	0
Benzo(k)fluoranthene	NA	NA	NA	NA	<0.000019	NA	NA	NA	0	0
Benzoic acid	NA	NA	NA	NA	<0.000022	NA	NA	NA	0	0
Benzyl alcohol	NA	NA	NA	NA	<0.000054	NA	NA	NA	0	0
Bis(2-chloroethoxy)methane	NA	NA	NA	NA	<0.00003	NA	NA	NA	0	0
Bis(2-chloroethyl)ether	NA	NA	NA	NA	<0.000026	NA	NA	NA	0	0
Bis(2-chloroisopropyl)ether	NA	NA	NA	NA	<0.00007	NA	NA	NA	0	0
Bis(2-ethylhexyl)phthalate	NA	NA	NA	NA	<0.000037	NA	NA	NA	0	0
Butyl benzyl phthalate	NA	NA	NA	NA	<0.000019	NA	NA	NA	0	0
Di-n-butyl phthalate	NA	NA	NA	NA	<0.00002	NA	NA	NA	0	0
Di-n-octyl phthalate	NA	NA	NA	NA	<0.00002	NA	NA	NA	0	0
Dibenzofuran	NA	NA	NA	NA	0.029	NA	NA	NA	0.029	0.029
Diethyl phthalate	NA	NA	NA	NA	<0.00003	NA	NA	NA	0	0
Dimethyl phthalate	NA	NA	NA	NA	<0.000041	NA	NA	NA	0	0
Fluorene	NA	NA	NA	NA	0.028	NA	NA	NA	0.028	0.028
Hexachlorobenzene	NA	NA	NA	NA	0.000044	NA	NA	NA	0.000044	0.000044
Hexachlorobutadiene	NA	NA	NA	NA	0.00003	NA	NA	NA	0.00003	0.00003
Hexachlorocyclopentadiene	NA	NA	NA	NA	<0.00003	NA	NA	NA	0	0
Hexachloroethane	NA	NA	NA	NA	<0.000059	NA	NA	NA	0	0
Isophorone	NA	NA	NA	NA	<0.000025	NA	NA	NA	0	0
N-Nitrosodi-n-propylamine	NA	NA	NA	NA	<0.000032	NA	NA	NA	0	0
N-Nitrosodimethylamine	NA	NA	NA	NA	<0.0001	NA	NA	NA	0	0
N-Nitrosodiphenylamine	NA	NA	NA	NA	<0.000025	NA	NA	NA	0	0
Naphthalene	NA	NA	NA	NA	0.51	NA	NA	NA	0.51	0.51
Nitrobenzene	NA	NA	NA	NA	<0.000024	NA	NA	NA	0	0
Pyrene	NA	NA	NA	NA	0.00056	NA	NA	NA	0.00056	0.00056
Pyridine	NA	NA	NA	NA	<0.00003	NA	NA	NA	0	0
C6-C12 (Gasoline)-Range Hydrocarbons	NA	NA	NA	NA	3.3	NA	NA	NA	3.3	3.3
>C12-C28 (Diesel)-Range Hydrocarbons	NA	NA	NA	NA	2.2	NA	NA	NA	2.2	2.2
>C28-C35 (Lube Oil)-Range Hydrocarbons	NA	NA	NA	NA	<0.19	NA	NA	NA	0	0
Total Petroleum Hydrocarbons (C6-C35)	NA	NA	NA	NA	5.5	NA	NA	NA	5.5	5.5

Notes:
<0.125 - not detected above concentration shown.
mg/L-milligrams per liter.
umhos/cm-micromhos per centimeter.
stnd. units - standard unit.
NA - Not Analyzed.
NS - Not Sampled.

APPENDIX XI.D

SAMPLING AND ANALYSIS PLAN

REVISED SAMPLING AND ANALYSIS PLAN
TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS
IHW PERMIT HW-50345
SWR 31340

Prepared for:

Texas Electric Cooperatives, Inc.

Prepared by:

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March 2025

W.O. No. 10472.003.025

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LIST OF ACRONYMS AND ABBREVIATIONS

%	percent
>	greater than
±	plus or minus
µm	micron
APA	Affected Property Assessment
AST	aboveground storage tank
CAO	Corrective Action Observation
CAS	Corrective Action System
CCA	chromated copper arsenate
CMI	Corrective Measures Implementation
COC	chemical of concern
CP	Compliance Plan
DNAPL	dense nonaqueous phase liquid
DO	dissolved oxygen
DOC	dissolved organic carbon
EPA	U.S. Environmental Protection Agency
GWBU	Groundwater-Bearing Unit
GWPS	Groundwater Protection Standard
HASP	Health and Safety Plan
HDPE	high-density polyethylene
ID	Identification
IDW	investigation-derived waste
IHW	Industrial and Hazardous Waste
mg/L	milligram(s) per liter
MS/MSD	matrix spike/matrix spike duplicate
NAPL	nonaqueous phase liquid
No.	Number
NTU	Nephelometric Turbidity Unit(s)
ORP	oxidation-reduction potential
pH	hydrogen ion concentration
POC	Point of Compliance

LIST OF ACRONYMS AND ABBREVIATIONS (CONTINUED)

POE	Point of Exposure
POTW	publicly owned treatment works
PPE	personal protective equipment
QA/QC	quality assurance/quality control
QAPP	Quality Assurance Project Plan
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SAP	Sampling and Analysis Plan
SJC	Stella-Jones Corporation
SOP	Standard Operating Procedure
SVOC	semi-volatile organic compound
SWMU	solid waste management unit
SWR	Solid Waste Registration
TCEQ	Texas Commission on Environmental Quality
TEC	Texas Electric Cooperatives, Inc.
the Permit	HW-50345
TOC	total organic carbon
TPDES	Texas Pollutant Discharge Elimination System
TPH	total petroleum hydrocarbons
TRRP	Texas Risk Reduction Program
TWC	Texas Water Commission
UIC	Underground Injection Control
VOC	volatile organic compound
WESTON®	Weston Solutions, Inc.
WMA	waste management area
WWTP	wastewater treatment plant

1. INTRODUCTION

Weston Solutions, Inc. (WESTON®) prepared this Revised Sampling and Analysis Plan (SAP) to support corrective action and detection monitoring groundwater monitoring activities at the hazardous waste post-closure care and corrective action facility formerly owned and operated by Texas Electric Cooperatives, Inc. (TEC) and located in Jasper, Texas. TEC sold the creosote wood preserving facility, manufacturing operations, and associated buildings, structures, fixtures, and other improvements to Stella-Jones Corporation (SJC) in November 2022, but TEC remains the owner of the real property and the permittee of the Industrial and Hazardous Waste (IHW) Permit HW-50345 (Permit) and associated Compliance Plan (CP). The Permit and CP were initially issued on 11 June 1999, with modifications for well designations and financial assurance approved in July 2007. The Permit and CP were both renewed in December 2020 (TCEQ, 2020).

In May 2024, TEC submitted the *Detection Monitoring Program Exit Justification Report* (WESTON, 2024), which provided justification and evidence supporting discontinuing the Detection Monitoring Program (DMP) requirements for Waste Management Areas (WMAs) II and III. The TCEQ approved the cessation of detection monitoring activities for WMAs II and III in an email dated 31 October 2024 (TCEQ, 2024b).

As requested by the Texas Commission on Environmental Quality (TCEQ) in its 6 June 2024 comment letter (TCEQ, 2024a) and subsequent meetings, a Class 3 Permit Modification Application is being submitted concurrently with this Revised SAP, which includes the following revisions affecting relevant sections of the CP:

- Additions to the listed chemicals of concern (COCs) in CP Tables III and IIIA based on the results of a one-time expanded chemical analysis conducted in April 2023.

- Removal of WMAs II and III from the DMP in accordance with the TCEQ's October 2024 email communication (TCEQ, 2024b).

This SAP incorporates the requirements of the Permit and CP with the revisions listed above incorporated within. The original SAP (dated 27 August 1999) and subsequent revisions (dated 22 September 1998, 19 February 1999, 26 February 1999, June 2004, July 2007, July 2009, and May 2020) have been incorporated into this SAP. This SAP refers to tables and figures included in the

Permit and CP, to be modified by the Class 3 Permit Modification, as well as figures included in the permit renewal application submitted in February 2020 (WESTON, 2020).

The facility formerly maintained hazardous waste surface impoundments under TCEQ Solid Waste Registration (SWR) Number (No.) 31340. The surface impoundments shown on CP Figure 2 were certified closed in June 1991 (J&N, 1991), and a certification of closure was accepted by the Texas Water Commission (TWC), the precursor to TCEQ, in June 1993 (TWC, 1993). The surface impoundments managed the U.S. Environmental Protection Agency (EPA)-listed hazardous waste K001 (bottom sediment sludge from wastewater used in the wood preserving operations using creosote).

A groundwater monitoring system has been installed at three waste management areas—WMA I, WMA II, and WMA III—as described below. The groundwater monitoring system is shown on CP Figure 3 and CP Figure 4 (WMA I) and on **Figure 1** of this SAP (WMAs I, II, and III).

1.1 WASTE MANAGEMENT AREA I

WMA I is covered under the TCEQ Compliance Plan No. CP-50345 (EPA Identification [ID] No. TXD041468836; SWR No. 31340). The wells in WMA I monitor groundwater near a series of surface impoundments used early in the wood treating facility's history. This area includes the following RCRA-regulated units: Pond No. 1, Pond No. 2, Sump, Oil Pit, and Vacuum Cooling Pond. Additionally, WMA I includes the following solid waste management units (SWMUs): Pond A and the drip pad, which were closed before the promulgation of RCRA. During closure, all ponds, except for closed Pond A and Pond 1, were emptied of sludge and the most highly contaminated soil; however, some contaminated soil remained in the ponds. Pond A was closed by solidifying the sludge with cement and sand matrix and capping with compacted clay, then topsoil and vegetation (grass) to serve as the environmental cap. Additional closure information is available in the 1991 *Closure Report and Certification* (J&N, 1991). WMA I is subject to corrective action and, as a result, is subject to corrective action groundwater monitoring as outlined in the CP and the Class 3 Permit Modification Application. Once the Corrective Action Program objectives are achieved in WMA I, the groundwater monitoring system may revert to detection monitoring or remain as compliance monitoring, depending on COC concentrations remaining in the groundwater.

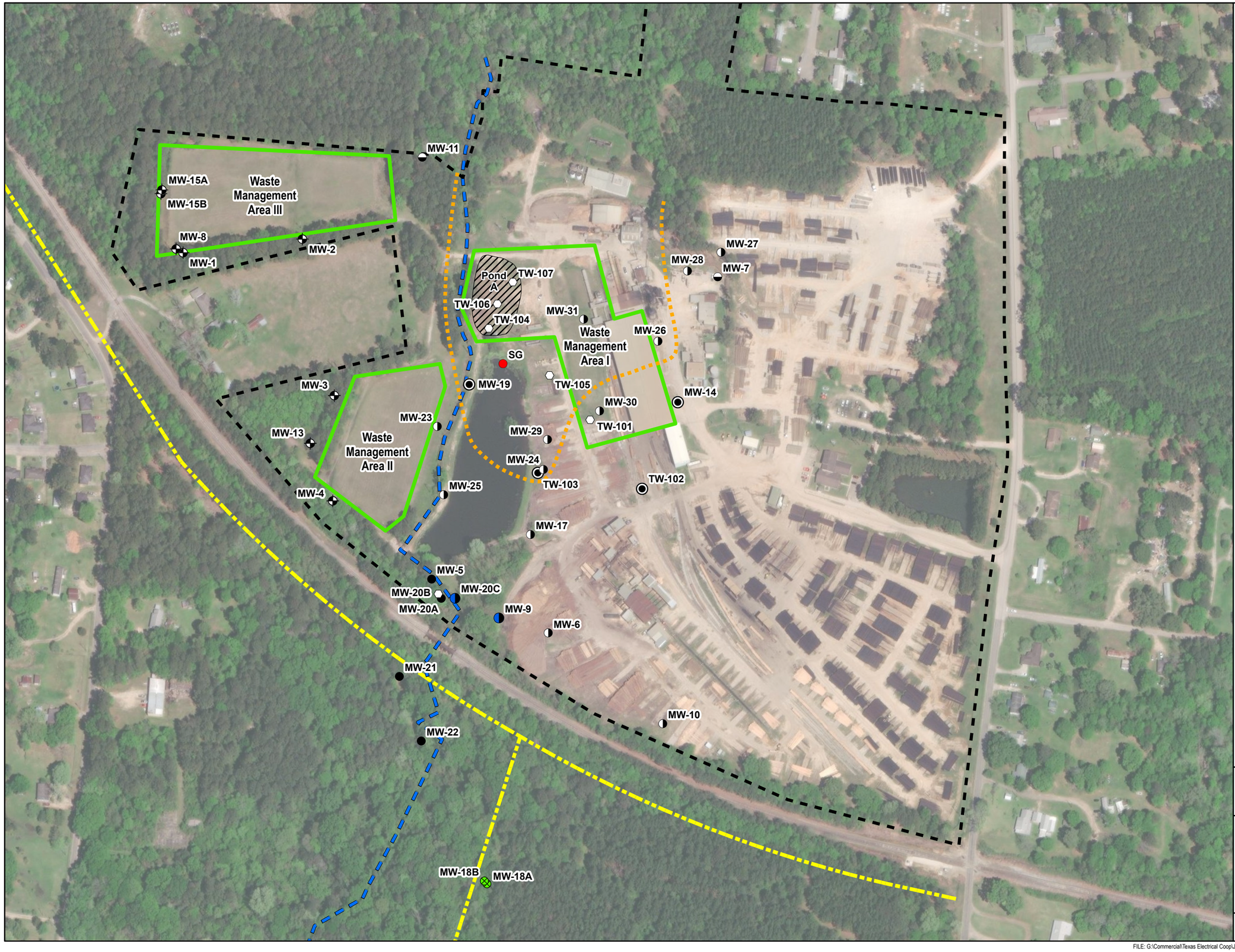
1.2 WASTE MANAGEMENT AREA II

WMA II is subject to detection monitoring, as outlined in the 2020 Permit (TCEQ, 2020). However, with TCEQ's approval of the Class 3 Permit Modification Application, WMA II would no longer be subject to detection monitoring. Wells in WMA II monitor the groundwater near closed Ponds C and D, which received wastewater generated during the wood treating process at the facility. During closure, Ponds C and D were de-watered and the waste sludge and sediment were solidified with cement kiln dust to a "no free liquid limit" visual endpoint. "General fill" was placed to fill the volumetric void in each pond from de-watering, and a 3- to 4-ft-thick compacted clay cap was installed over top of the "general fill". The clay cap extended beyond the boundaries of the waste and were "keyed in" to the pond sidewalls. The clay cap was finished with topsoil and seeded for vegetative growth. In addition, the "solidified" waste in Pond D was fully encapsulated in 60-mil, high-density polyethylene (HDPE) before covering with the "general fill" and clay cap. Additional closure information is available in the 1991 *Closure Report and Certification* (J&N, 1991). There has been no indication of a release to groundwater in monitoring wells downgradient of WMA II (WESTON, 2024).

1.3 WASTE MANAGEMENT AREA III

WMA III is subject to detection monitoring, as outlined in the Permit. However, with TCEQ's approval of the Class 3 Permit Modification Application WMA III would no longer be subject to detection monitoring . Wells in WMA III monitor the groundwater near closed Ponds E and F, which received wastewater generated during the wood treating process at the facility. Pond E was also equipped with multiple, temporary, 60-mil HDPE-lined biological treatment cells (MoTEC Process) as an initial attempt to treat the bottom sediment/sludge in the pond. During closure, Ponds E (and treatment cells) and F were de-watered and the waste sludge and sediment were solidified with cement kiln dust to a "no free liquid limit" visual endpoint. "General fill" was placed to fill the volumetric void in each pond from de-watering, and a 3- to 4-ft-thick compacted clay cap was installed over top of the "general fill." The clay cap extended beyond the boundaries of the waste and were "keyed in" to the pond sidewalls. The clay cap was finished with topsoil and seeded for vegetative growth. In addition, the "solidified" waste in Pond E was fully encapsulated in 60-mil HDPE before covering with the "general fill" and clay cap. Additional closure information is available in the 1991 *Closure Report and Certification* (J&N,

1991). There has been no indication of a release to groundwater in monitoring wells downgradient of WMA III (WESTON, 2024).



LEGEND

- Background Well
- Corrective Action Observation Well
- Corrective Action System Well
- Detection Monitoring Well
- Deep Monitoring Well
- Point of Compliance Well
- Point of Exposure Well
- Supplemental Well
- Staff Gauge
- Branch Channel
- Parcel Boundary
- Pond A Location
- Property Boundary
- Thick Clay Unit Boundary
- Waste Management Areas

N

0 250 500

SCALE IN FEET

SOURCE: Imagery (c) 2010 Microsoft Corporation and its data suppliers

WESTON SOLUTIONS

FIGURE 1
WELL LOCATION MAP
REVISED SAMPLING AND ANALYSIS PLAN

TEXAS ELECTRIC COOPERATIVES, INC.
JASPER, TEXAS

DATE	PROJECT NO	SCALE
AUG 2024	10472.003.025	AS SHOWN

FILE: G:\Commercial\Texas Electrical Coop\Jasper\CAMR\Pro\Corrective Action Monitoring Report.aprx 12:27 AM 8/15/2024 gomezd

2. DESCRIPTION OF GROUNDWATER MONITORING SYSTEM

This section describes the groundwater monitoring system as defined in the Permit and the CP, as modified by the Class 3 Permit Modification Application. Previous monitoring (conducted as early as 1982) indicated a release of hazardous waste constituents to the underlying groundwater related to WMA I. TEC is pursuing corrective action for WMA I. Corrective action monitoring requirements for WMA I are included in the CP and Class 3 Permit Modification. WMAs II and III have not had a release and have remained in detection monitoring. Detection monitoring requirements for WMAs II and III are included in Section VI of the Permit. However, with TCEQ's approval of the Class 3 Permit Modification Application, WMAs II and III would no longer be subject to detection monitoring. The remaining wells to be included in the groundwater monitoring system are summarized in **Table 2-1**, which is a comprehensive list of the WMA I monitoring wells.

2.1 WASTE MANAGEMENT AREA I

WMA I is subject to corrective action monitoring due to an apparent release(s) of contaminants exceeding the Groundwater Protection Standards (GWPSs) listed in CP Table III (TCEQ, 2020). TEC implemented the semi-annual and tri-annual (starting in 2020) sampling and analytical regime identified in CP Tables III, IIIA, and V to monitor the effectiveness of the Corrective Action Program in accordance with the Permit and CP. TCEQ requested a one-time expanded chemical analysis in its letter dated 24 January 2023 (TCEQ, 2023a) to evaluate whether concentrations of compounds not listed in the 2020 CP were present in groundwater at concentrations of regulatory concern. This request was fulfilled during the semi-annual groundwater monitoring event conducted in April 2023 and the results of that one-time analysis event indicated that there were additional compounds in groundwater not listed in the 2020 CP. In a comment letter dated 6 June 2024 (TCEQ, 2024a), TCEQ requested that the compounds detected in groundwater at concentrations of regulatory concern be added to CP Table III and IIIA. In response, TEC is submitting a Class 3 Permit Modification Application concurrently with this Revised SAP to incorporate the requested Permit/CP additions. **Table 2-2** of this SAP summarizes the revised CP corrective action requirements at WMA I based on the revisions included in the Class 3 Permit Modification Application. Wells included in the corrective action monitoring network for WMA I are listed in CP Table V and shown on CP Figure 3, CP Figure 4, and on

Figure 1 of this SAP. The following wells are included WMA I corrective action monitoring network:

- Upgradient (Background) Well:
  - MW-7
- Point of Compliance (POC) Wells:
  - MW-14
  - MW-19 (Lower Groundwater-Bearing Unit [GWBU]; deep sand)
  - TW-102
  - TW-103
- Point of Exposure (POE) Wells:
  - MW-5
  - MW-20A
  - MW-20C (Lower GWBU; deep sand)
  - MW-21
  - MW-22

Section XI.F.3.c.(1)(e) of the Permit states that a sample is not required for any WMA I well with detected NAPL. In addition to the wells listed in CP Table V, groundwater samples from Supplemental, Corrective Action Observation (CAO), and Corrective Action System (CAS) wells may be collected voluntarily, and the analytical results may be used to monitor the effectiveness of the Corrective Action Program in WMA I. The analytical program for the CP-required and Supplemental, CAO, and CAS wells is described in **Section 3** of this SAP.

2.1.1 Supplemental/Corrective Action Observation Wells

Supplemental and CAO wells include monitoring wells installed during site investigations conducted as early as 1981, including the recent 2021/2022 and 2024 RCRA Facility Investigation (RFI)/Affected Property Assessment (APA) investigations. Supplemental and CAO wells include:

- MW-6
- MW-9 (Lower GWBU, deep sand)
- MW-10
- MW-17 (low yield/dry)
- MW-18A (paired with MW-18B; shallow portion of Upper GWBU)
- MW-18B (paired with MW-18A; deep portion of Upper GWBU)

- MW-23 through MW-31 (RFI/APA wells sampled on a voluntary basis)

Supplemental and CAO wells are not required by the CP to be sampled; however, samples may be collected and analyzed voluntarily, and the results may be used to monitor the effectiveness of the Corrective Action Program in WMA I.

2.1.2 Corrective Action System Wells

CAS wells include site wells used to recover groundwater and/or dense nonaqueous phase liquid (DNAPL) and are not specified in CP Table V. CAS wells include:

- TW-101 (DNAPL recovery)
- TW-104 (dewatering well installed in closed Pond A)
- TW-105 (perched groundwater recovery outside Pond A)
- TW-106 (dewatering well installed in closed Pond A)
- TW-107 (dewatering well installed in closed Pond A)
- MW-20B (groundwater recovery well)

Groundwater and DNAPL are recovered from CAS well TW-101 using a nonaqueous phase liquid (NAPL) recovery system consisting of a downhole belt-pulley and an aboveground collection system. The NAPL recovery system is turned on and off manually by facility personnel. The NAPL recovery system is typically operated for about 1 hour per day depending on NAPL recoverability. Recovered groundwater and DNAPL from the well are transferred directly from the belt-pulley system to a 55-gallon steel drum at the wellhead by means of an integrated belt-scraping blade and metal trough that funnels fluid to the drum. Once the fluid level in the drums reaches a manageable level of fullness, the drum is stored for off-site disposal, and a new drum is installed in its place. Historically, the drum has been filled about twice per year.

Historically, perched groundwater (laterally discontinuous and ephemerally recharged) in closed Pond A (see CP Figure 2) was recovered from CAS wells TW-104, TW-106, and TW-107 using dedicated pumps. Historically, recovered perched groundwater was stored in a 2,200-gallon (nominal) steel aboveground storage tank (AST), then periodically pumped to the on-site biological wastewater treatment plant (WWTP) and ultimately to the City of Jasper's Publicly Owned Treatment Works (POTW) under a City of Jasper discharge permit. However, that practice

was temporarily suspended in April 2024 pending an internal facility review. As of February 2025, perched groundwater recovery remained on hold while TEC evaluated waste management and disposal options related to perched groundwater recovered from CAS wells TW-104, TW-106, and TW-107.

Historically, perched groundwater recovery was recovered from CAS well TW-105, located outside the boundaries of Pond A, in the same fashion as from CAS wells TW-104, TW-106, and TW-107. CAS well TW-105 is interpreted as being screened in thin sandy seams within a thick clay "wedge", which is present in the central and norther portions of WMA I and Pond B (see **Figure 1**). The thick clay wedge appears to truncate the Upper GWBU sand. The thin sandy seams appear to be in hydraulic communication with the thicker, sandier Upper GWBU to the east and south where most of the downgradient corrective action monitoring wells are located. As with CAS wells TW-104, TW-106, and TW-107, perched groundwater recovery at TW-105 was temporarily suspended in April 2024 and, as of February 2025, remained on hold while TEC evaluated waste management and disposal options.

Groundwater is pumped from CAS well MW-20B, filtered, and then passed through a granular activated carbon (GAC) adsorption system designed to reduce chemical concentrations to less than the applicable standards for the discharge or disposal of the water. Prior to 2022, the treated water was transferred to Pond B and discharged to an unnamed surface drainage via Outfall 101 as authorized by Texas Pollutant Discharge Elimination System (TPDES) Permit No. 0001766000. An effluent tank (nominal 1,800 gallons), effluent pump, and effluent piping was installed in early 2022 to redirect the treated groundwater from CAS well MW-20B to the City of Jasper's POTW via permitted Outfall 003 under the City of Jasper Industrial Wastewater Discharge Permit No. 002. Outfall 101 was removed from the TPDES permit upon renewal in November 2022.

CAS wells are not required to be sampled by the CP; however, samples may be collected and analyzed voluntarily, and the results may be used to monitor the effectiveness of the Corrective Action Program in WMA I.

2.2 WASTE MANAGEMENT AREAS II AND III

Prior to the TCEQ's approval of cessation of detection monitoring activities for WMAs II and III (TCEQ, 2024b), these WMAs were subject to the detection monitoring requirements promulgated in the Permit. Upon approval of the Class 3 Permit Modification Application, WMAs II and III will no longer be subject to those requirements and groundwater sampling will not be conducted. The WMA II and III monitoring wells will most likely be plugged at that time.

Table 2-1
Monitoring Well Summary
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well Number	Waste Management Area	Relative Gradient Location	Well Type	Dedicated Pump? Y/N	Comments
MW-5	I	down	POE	N	
MW-6	I	down	S	N	
MW-7	I	up	BG	N	
MW-9	I	down	S	N	Lower GWBU
MW-10	I	down	S	N	
MW-14	I	down	POC	N	
MW-17	I	down	S	N	Low yield/dry.
MW-18A	I	down	CAO	N	Paired with MW-18B, shallow Upper GWBU
MW-18B	I	down	CAO	N	Paired with MW-18A, deep Upper GWBU
MW-19	I	down	POC	N	Lower GWBU
MW-20A	I	down	POE	N	Shallow Upper GWBU
MW-20B	I	down	R, CAS	Y	Recovery well, part of corrective action system.
MW-20C	I	down	POE	N	Lower GWBU
MW-21	I	down	POE	N	
MW-22	I	down	POE	N	
MW-23	I	down	S	N	2021/2022 RFI/APA Well
MW-24	I	down	S	N	2021/2022 RFI/APA Well. Lower GWBU
MW-25	I	down	S	N	2021/2022 RFI/APA Well
MW-26	I	down	S	N	2024 RFI/APA Well. Lower GWBU
MW-27	I	down	S	N	2024 RFI/APA Well
MW-28	I	down	S	N	2024 RFI/APA Well
MW-29	I	down	S	N	2024 RFI/APA Well
MW-30	I	down	S	N	2024 RFI/APA Well
MW-31	I	down	S	N	2024 RFI/APA Well. Lower GWBU
TW-101	I	down	CAS	N	Part of corrective action system.
TW-102	I	down	POC	N	
TW-103	I	down	POC	N	
TW-104	I	source	CAS	Y	Dewatering well, part of corrective action system.
TW-105	I	down	CAS	Y	Dewatering well, part of corrective action system.
TW-106	I	source	CAS	N	Dewatering well, part of corrective action system.
TW-107	I	source	CAS	N	Dewatering well, part of corrective action system.

BG = Background
POC = Point of Compliance
POE = Point of Exposure
S = Supplemental; sampled on a voluntary basis
R = Recovery
CAO = Corrective Action Observation
CAS = Corrective Action System
RFI/APA = Resource Conservation and Recovery Act (RCRA) Facility Investigation/Affected Property Assessment
GWBU = Groundwater Bearing Unit

Table 2-2
CP-Required WMA I Corrective Action Monitoring Summary
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Field Parameters [1]	CP Table IIIA Compounds		
		Naphthalene	Arsenic	Benzene
Sampling Frequency	Semi-Annual	Semi-Annual	Semi-Annual	Semi-Annual
Background Well				
MW-7	√	√	√	√
Point of Compliance Wells				
MW-14	√	√	√	√
MW-19 [2] (sampled once annually)	√	√	√	√
TW-102	√	√	√	√
TW-103	√	√	√	√
Point of Exposure Wells				
MW-5	√	√	√	√
MW-20A	√	√	√	√
MW-20C [2] (sampled once annually)	√	√	√	√
MW-21	√	√	√	√
MW-22	√	√	√	√

[1] Field Parameters include pH, temperature, specific conductivity, oxidation-reduction potential, dissolved oxygen, turbidity, water level, NAPL presence, total depth, and description of sample appearance (if low flow sampling procedures are used).

[2] MW-19 and MW-20C are Lower GWBU wells and will only be sampled once per year

CP = Compliance Plan

3. ANALYTICAL PROGRAM

This section presents the corrective action analytical program for WMA I. As stated above, Corrective Action Program requirements for WMA I are presented in the CP and proposed to be modified by the Class 3 Permit Modification Application submitted concurrently with this Revised SAP. With TCEQ's approval of the Class 3 Permit Modification Application, TEC will discontinue all detection monitoring-related activities for WMAs II and III.

The corrective action analytical program is conducted on a semi-annual basis and groundwater samples will be analyzed for the constituents listed in CP Table IIIA (arsenic, naphthalene, and benzene) until the concentrations of those constituents in all groundwater samples from WMA I wells are less than the respective GWPSs (excluding arsenic) for two consecutive semi-annual sampling events. After that, wells included in the corrective action monitoring network for WMA I will be sampled on a semi-annual basis and analyzed for the constituents listed in CP Table III until the concentrations of those constituents in all WMA I wells are less than the respective GWPSs for three consecutive years of semi-annual sampling. The previous procedure of tri-annual sampling for "creosote constituents" has been removed from the Revised SAP, since it will be removed from the Permit following the approval of the pending Class 3 Permit Modification Application. The required analytical program is summarized in **Table 3-2** and **Table 3-3**.

3.1 HAZARDOUS CONSTITUENTS

The only waste that was historically disposed of in WMA I is EPA-listed waste K001 (bottom sediment sludge from wastewater used in the creosoting wood preserving process). CP Table III, Permit Table VI.B.3.c., and **Table 3-1** of this SAP list the historically detected hazardous constituents and associated GWPSs for corrective action in WMA I. These constituents include volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and the total carbon-fraction (C6-C35) reported under Texas Method 1005 for total petroleum hydrocarbons (TPH) and their respective GWPSs for WMA I. The constituents listed in **Table 3-1** are collectively referred to as "CP Table III Compounds".

3.2 INDICATOR PARAMETERS

"Indicator parameters" naphthalene, benzene, and arsenic and their respective GWPSs for WMA I are identified in CP Table IIIA. Based on discussions with the TCEQ, WESTON understands that these "indicator parameters" are intended to reflect the specific constituents within the analytical groups (e.g., SVOCs and VOCs) in the CP Table III Compounds list that represent relatively higher potential human health and ecological risk than others in those analytical groups, based on factors such as greater mobility in groundwater systems, greater toxicity to human receptors, and/or higher concentrations present.

As explained in the CP, the "indicator compounds" are analyzed on a semi-annual basis until they are reported at concentrations less than the respective GWPS for two consecutive semi-annual sampling events (see also Error! Reference source not found.**2**). Of the CP Table III Compound-l ist constituents, naphthalene was the only one that had consistently been detected in WMA I wells at a concentration greater than the GWPS prior to the one-time expanded analyte event in April 2023. From available online information, WESTON has determined that naphthalene is the highest percentage hazardous constituent in coal tar-based creosote. Additionally, naphthalene has a greater solubility than the other SVOC constituents included in the CP Table III Compound-list constituents. Naphthalene has historically been reported in a wider distribution in groundwater at the Jasper plant than the other SVOCs. Accordingly, naphthalene remains appropriate for inclusion in CP Table IIIA.

Benzene qualifies for addition to the list of indicator parameters because it was reported at a concentration greater than the Texas Risk Reduction Program Tier 1 Commercial/Industrial Groundwater-Ingestion Protective Concentration Level in several WMA I wells during the April 2023 expanded chemical analysis. Benzene was added to the revised CP Table IIIA that is included in the Class 3 Permit Modification Application.

Arsenic is a naturally occurring groundwater constituent. Arsenic-bearing chemicals were not used at the facility until 2008 when TEC began occasionally using chromated copper arsenate (CCA) as a wood preservative in addition to creosote. CCA use was terminated by SJC when they purchased the operating facility assets in November 2022 and commenced operation of the plant. No arsenic waste was disposed of in any of the waste management units on the property. A spill

of CCA during loading of a tanker truck in October 2024 by SJC contractors was immediately addressed, and subsequent soil sampling/analysis confirmed complete cleanup to background concentrations of all relevant compounds (SJC, 2025).

Based on the findings of TEC's investigative activities to ascertain the nature and distribution of arsenic in on-site soils, no potential source for the arsenic in groundwater was identified. However, elevated arsenic concentrations in groundwater at certain WMA I wells may be due to highly variable background concentrations or to natural biogeochemical processes in the subsurface. Thus, in addition to the Permit-required COCs, additional parameters are analyzed voluntarily on a semi-annual basis for biogeochemical evaluation. Biogeochemical parameters include:

- Dissolved ferrous iron;
- Nitrate/nitrite;
- Total organic carbon (TOC); and
- Dissolved organic carbon (DOC).

3.3 GROUNDWATER SAMPLING PROGRAM

The groundwater sampling program will include semi-annual groundwater sample collection at the CP-required wells and the Supplemental, CAO, and CAS wells described in **Section 2**. Groundwater samples will be collected in general accordance with TCEQ's most recent Quality Assurance Project Plan (QAPP) for the RCRA and Underground Injection Control (UIC) Programs and the relevant TCEQ SOPs (TCEQ, 2001; TCEQ, 2013a; and TCEQ, 2013b).

The required Groundwater Monitoring Program for WMA I is summarized in CP Table V. As stated above, Section XI.F.3.c.(1)(e) of the Permit states that a sample is not required for any WMA I well with detected NAPL. However, groundwater samples may be collected and analyzed on a voluntary basis from a well(s) with detected DNAPL (e.g., TW-101). In this case, the groundwater sample will be collected from at least 2 feet above the measured DNAPL surface in the well. No evidence of light NAPL has been reported at the site. The semi-annual groundwater monitoring analytical program for the site is summarized in **Table 3-2** (equivalent to CP Table IIIA) and **Table 3-3** (equivalent to CP Table III) of this SAP.

Field parameters will be measured and recorded for all wells during each groundwater monitoring event. Field parameters for each well include the following:

- Static water level (except for MW-20B, which should be pumping);
- Hydrogen ion concentration (pH);
- Dissolved oxygen (DO);
- Oxidation-reduction potential (ORP);
- Temperature;
- Specific conductance; and
- Turbidity.

Groundwater samples will not be filtered in the field except under the following specific circumstances:

- Field filtering is required for any groundwater sample collected for total metals analysis if elevated turbidity (greater than [>] 10 Nephelometric Turbidity Units [NTU]) is recorded during the final stages of well purging at subject wells. This circumstance is only currently applicable to arsenic analyses, and the purpose is to mitigate the chances of sediment in the sample to bias the results. Only the groundwater used to fill the containers for arsenic analysis will be filtered, and the filtering will be conducted using a 10-µm filter (0.45-micon (µm) filters are not acceptable for total metals analyses). The filtered water will be contained in a nitric acid-preserved container per the established method requirements. *Note that this filter size is different from the filter size used for dissolved ferrous iron and DOC analyses.*

- Field filtering is required in all cases (regardless of turbidity) for dissolved ferrous iron and DOC analyses only. The filtering for these two specific analyses will be conducted using a 0.45 µm filter. Only the groundwater used to fill the respective containers for these specific analyses will be filtered using a 0.45 µm filter. *Note that this filter size is different than the filter size used for total metals analyses.*

Samples will be collected in laboratory-supplied containers and placed in a cooler with ice following collection. The objective of cold storage is to attain a sample temperature of between 2 and 6 degrees Celsius. Special icing, packaging, handling, and shipping arrangements may be necessary during the warmer months to ensure that proper temperatures are maintained until the samples reach their intended destination. Analytical test methods, sample containers, preservation, and holding times for the program analyses are summarized in **Table 3-3**. Samples will be transferred to the analytical laboratory following industry standard chain-of-custody procedures.

Table 3-1
Summary of Detected Hazardous Constituents in Groundwater
Texas Electric Cooperatives, Inc.
Jasper, Texas

Hazardous Constituents	Groundwater Protection Standards (mg/L)	Hazardous Constituents	Groundwater Protection Standards (mg/L)
Arsenic (total)	NA	Ethylbenzene	0.70[MSC]
Acenaphthene	0.22[MSC]	Fluoranthene	1.46[MSC]
Acenaphthylene	2.2[MSC]	Fluorene	0.15[MSC]
Acetone	3.3[MSC]	2-Hexanone	0.22[MSC]
Anthracene	1.1[MSC]	Indeno(1,2,3-cd)pyrene	0.00051[ND]
Benzene	0.005[MSC]	Isopropylbenzene	0.37[MSC]
Benzo(b)fluoroanthene	0.0051[ND]	1-Methylnaphthalene	0.26[MSC]
Benzo(k)fluoranthene	0.0012[MSC]	2-Methylnaphthalene	0.015[MSC]
Benzo(a)anthracene	0.00051[ND]	2-Methylphenol	0.18[MSC]
Benzo(g,h,i)perylene	0.11[MSC]	3&4-Methylphenol	0.018[MSC]
Benzo(a)pyrene	0.00051[ND]	4-Methyl-2-pentanone	0.29[MSC]
Bis(2-ethylhexyl)phthalate	0.006[MSC]	4,6-Dinitro-o-cresol	0.05[ND]
2-Butanone	2.2[MSC]	Naphthalene	1.46[MSC]
Carbazole	0.014[MSC]	Phenanthrene	1.1[MSC]
4—Chloroaniline	0.015[MSC]	Phenol	21.9[MSC]
Chloroform	0.037[MSC]	Pyrene	0.11[MSC]
Chrysene	0.012[MSC]	Styrene	0.10[MSC]
Di-n-octyl phthalate	0.073[MSC]	Toluene	1.0[MSC]
Dibenz(a,h)anthracene	0.0002[MSC]	Total Petroleum Hydrocarbons C6-C35 by TX-1005	3.1[MSC (1)]
Dibenzofuran	0.015[MSC]		
1,4-Dichlorobenzene	0.075[MSC]	1,2,4-Trichlorobenzene	0.07[MSC]
2,4-Dimethylphenol	0.732[MSC]	m,p-Xylene	10[MSC]
2,4-Dinitrophenol	0.0732[MSC]	o-Xylene	10[MSC]

(1) = The Medium-Specific Concentration (MSC) for Total Petroleum Hydrocarbons (C6-C35) was determined using the highest reported concentration (C16-21 Aromatics) for a soil sample analyzed by Texas Commission on Environmental Quality (TCEQ) Method TX-1006
TX-1005 = TCEQ Method 1005
ND = Non-detectable at the laboratory practical quantitation limit
N/A = Not Applicable (not required by Permit or Compliance Plan)
mg/L = milligrams per Liter.

Table 3-2
Groundwater Analytical Program Summary for WMA I - CP Table IIIA
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Field Parameters [1]	CP Table IIIA Compounds			Biogeochemical Compounds [2]
		Naphthalene	Arsenic	Benzene	
Sampling Frequency	Semi-Annual	Semi-Annual	Semi-Annual	Semi-Annual	Semi-Annual
Background Wells					
MW-7	√	√	√	√	√
Point of Compliance Wells					
MW-14	√	√	√	√	√
MW-19 [3]	√	√	√	√	
TW-102	√	√	√	√	√
TW-103	√	√	√	√	√
Point of Exposure Wells					
MW-5	√	√	√	√	√
MW-20A	√	√	√	√	√
MW-20C [3]	√	√	√	√	
MW-21	√	√	√	√	√
MW-22	√	√	√	√	
Corrective Action System Wells					
TW-101	√	√	√	√	
TW-104	√	√	√	√	
TW-105	√	√	√	√	
TW-106	√	√	√	√	
TW-107	√	√	√	√	
MW-20B	√	√	√	√	√
Corrective Action Observation Wells					
MW-18A	√	√	√	√	√
MW-18B	√	√	√	√	
Supplemental Wells					
MW-6	√	√	√	√	√
MW-9 [3]	√	√	√	√	
MW-10	√	√	√	√	√
MW-17	√	√	√	√	
MW-23	√	√	√	√	√
MW-24 [3]	√	√	√	√	√
MW-25	√	√	√	√	
MW-26	√	√	√	√	
MW-27	√	√	√	√	
MW-28	√	√	√	√	
MW-29	√	√	√	√	
MW-30	√	√	√	√	
MW-31	√	√	√	√	

[1] Field Parameters include pH, temperature, specific conductivity, oxidation-reduction potential, dissolved oxygen, turbidity, water level, NAPL presence, total depth, and description of sample appearance (if low flow sampling procedures are used).

[2] Biogeochemical compounds include dissolved ferrous iron, nitrate/nitrite, and total and dissolved organic carbon. These analyses are completed on a voluntary basis.

[3] MW-9, MW-19, MW-20C, and MW-24 are Lower GWBU wells and will only be sampled once per year.

Per Permit Section XI.F.3.c.(1)(e), a groundwater sample is not required for any WMA I well with dectable NAPL.

Table 3-3
Groundwater Analytical Program Summary for WMA I - CP Table III
Texas Electric Cooperatives, Inc.
Jasper, Texas

Well	Field Parameters [1]	CP Table III Compounds [2]	Biogeochemical Compounds [3]
Sampling Frequency	Semi-Annual	Semi-Annual	Semi-Annual
Background Wells			
MW-7	√	√	√
Point of Compliance Wells			
MW-14	√	√	√
MW-19 [4]	√	√	
TW-102	√	√	√
TW-103	√	√	√
Point of Exposure Wells			
MW-5	√	√	√
MW-20A	√	√	√
MW-20C [4]	√	√	
MW-21	√	√	√
MW-22	√	√	
Corrective Action System Wells			
TW-101	√	√	
TW-104	√	√	
TW-105	√	√	
TW-106	√	√	
TW-107	√	√	
MW-20B	√	√	√
Corrective Action Observation Wells			
MW-18A	√	√	√
MW-18B	√	√	
Supplemental Wells			
MW-6	√	√	√
MW-9 [4]	√	√	
MW-10	√	√	√
MW-17	√	√	
MW-23	√	√	√
MW-24 [4]	√	√	√
MW-25	√	√	
MW-26	√	√	
MW-27	√	√	
MW-28	√	√	
MW-29	√	√	
MW-30	√	√	
MW-31	√	√	

[1] Field Parameters include pH, temperature, specific conductivity, oxidation-reduction potential, dissolved oxygen, turbidity, water level, NAPL presence, total depth, and description of sample appearance (if low flow sampling

[2] CP Table III compounds are identified in Compliance Plan Table III and **Table 3-1** of this SAP.

[3] Biogeochemical compounds include dissolved ferrous iron, nitrate/nitrite, and total and dissolved organic carbon. These analyses are completed on a voluntary basis.

[4] MW-9, MW-19, MW-20C, and MW-24 are Lower GWBU wells and will only be sampled once per year.

Per Permit Section XI.F.3.c.(1)(e), a groundwater sample is not required for any WMA I well with dectable NAPL.

Table 3-4
Test Methods, Sample Containers, Preservatives, and
Holding Times for Groundwater Samples
Texas Electric Cooperatives, Inc.
Jasper, Texas

Analysis	Method	Bottle Type	Preferred Quantity	Minimum Quantity[1]	Holding Time	Field Filter (see note)
Volatile Organic Compounds (VOCs)	EPA 8260	40 mL VOA vial (HCl preserved)	3	2	14 days	No
Semi-Volatile Organic Compounds (SVOCs)	EPA 8270	1 L Amber	2	2	7 days	No
Total Petroleum Hydrocarbons (TPH)	TX-1005 & TX-1006	40 mL VOA vial (HCl preserved)	3	2	14 days	No
Total Arsenic (As)	EPA 6020	120 mL Poly (HNO_3 preserved)	1	1	6 months	Possibly [2] (10 µm)
Total Organic Carbon (TOC)	EPA 5310B	40 mL Amber VOA vial (H_2SO_4 preserved)	2	1	28 days	No
Dissolved Organic Carbon (DOC)	EPA 5310B	40 mL Amber VOA vial	2	1	28 days	Yes (0.45 µm)
Nitrate/Nitrite	EPA 353.2	120 mL Poly (H_2SO_4 preserved)	1	1	28 days	No
Dissolved Ferrous Iron (Fe^{2+})	EPA 6020A	250 mL Poly (HCL preserved)	1	1	48 hours	Yes (0.45 µm)

[1] Minimum bottle quantity only used in case of limited groundwater availability. Refer to **Section 4.5** for appropriate bottle fill order.

[2] Filter with 10-micron (µm) filter only if turbidity is greater than 10 NTU.

EPA = U.S. Environmental Protection Agency

L = Liter

mL = Milliliter

VOA = Volatile Organic Analysis

HCL = Hydrochloric Acid

HNO_3 = Nitric Acid

H_2SO_4 = Sulfuric Acid

4. SAMPLING PROCEDURES

This section describes the sampling procedures to be followed by field personnel during sample collection. As such, the descriptions are directive in nature because this section serves as instructions for sampling personnel.

4.1 SAMPLING FREQUENCY

Groundwater monitoring events will be conducted during the first 30 days of each second and fourth quarter (i.e., semi-annual frequency). **Table 3-2** and **Table 3-3** of this SAP summarize the monitoring wells, parameters, and sampling frequency required for WMA I. Monitoring wells will initially be sampled on a semi-annual basis for the COCs listed in CP Table IIIA until the reported concentrations for all the listed constituents are less than the respective GWPSs for two consecutive semi-annual sampling events (i.e., one year). This sampling program is summarized in **Table 3-2**. After that, monitoring wells will continue to be sampled on a semi-annual basis, but the samples will be analyzed for the COCs listed in CP Table III. This analytical program is summarized in **Table 3-3** and will continue until the reported concentrations for all the CP Table III-listed constituents are less than the respective GWPSs in all of the wells. Analytical test methods, sample containers, preservatives, and holding times are summarized in **Table 3-3**.

4.2 PREPARATION FOR SAMPLING

4.2.1 Pre-Mobilization Activities

Prior to any field sampling event, a site-specific Health and Safety Plan (HASP) will be prepared or updated to include information regarding potential hazards for on-site activities being conducted, associated field operating procedures to monitor and/or mitigate potential hazards, and emergency contact information and procedures. All sampling will be conducted in accordance with the safety policies and procedures applicable to the facility. Before any work is conducted, WESTON and other outside contractors involved in the work, whether subcontractors to WESTON, TEC, or SJC, will review these policies and procedures with the designated SJC Safety Specialist.

Prior to mobilizing to the site, WESTON field personnel will complete the following tasks:

- Make copies of the blank field data sheets provided in **Appendix A** for use during each sampling event.
- Contact the TEC-designated laboratory at least ten (10) business days prior to the scheduled start date of sampling activities and request the number and type of sampling containers required (see **Table 3-4**) to complete the semi-annual program (see either **Table 3-2** or **Table 3-3**, as appropriate). The sample containers and coolers will be delivered directly to the facility by the lab. Facility personnel (SJC) will store the coolers in a secure and appropriate location where the assigned field personnel can adequately inspect and confirm the sufficiency of the shipped order on the first day of the field program. Additional bottles or supplies will be ordered from the lab by WESTON field personnel if any shortages are identified during this inspection.

4.2.2 Pre-Sampling Activities

Before starting groundwater sampling procedures, complete a site-wide synoptic groundwater level/NAPL gauging event to include all accessible monitoring wells in WMAs I, II, and III and a staff gauge reading at Pond B. Check the water level meter(s) and/or oil-water interface probe(s) to ensure that it is operational. Check the accuracy and precision of multiple water level meters and/or oil-water interface probes by measuring the static water level with each meter several times (i.e., 3 to 4 duplicate readings) in the same well in quick succession. Each water level meter and/or oil-water interface probe should read the water level in that well to within plus or minus (±) 0.01 ft during the duplicate readings and each water level meter and/or oil-water interface probe should read the same measurement as the other meters. If one or more water level meter(s) or oil-water interface probe(s) readings are not repeatable (poor precision) or the readings are greater than ±0.01 ft off from the other meters (poor accuracy), contact the Task/Project Manager to establish an appropriate "correction factor" or replace the meter, if feasible. Calibrate the water quality meter (e.g., YSI ProPlus or similar) for pH, DO, ORP, and specific conductance each day prior to sampling activities.

Prior to gauging/sampling the wells, visually inspect each monitoring well to ensure that no damage or compromise to the integrity of the monitoring well has occurred since the last monitoring event. Well inspection procedures include the following:

- Inspect the casing for cracks, signs of deterioration, and/or tampering.
- Determine if the monitoring well and cap are secure.

- Inspect the well pad for cracks, signs of deterioration, erosion, and/or settling.
- Inspect the area surrounding the well pad for excessive erosion and/or animal/insect burrowing.
- Inspect any readily accessible dedicated equipment (exposed pump downpipe, spigots, pump wiring, electrical junction boxes, etc.) for cleanliness, structural integrity, and deterioration. Do not disconnect any electrical connections, open junction boxes, or pull dedicated pumps out of the well for inspection – simply inspect these items for obvious issues.

If monitoring well integrity is believed to be compromised, add notes to the field logbook and field data sheets to describe the nature of the problem(s), then contact the Task/Project Manager immediately to discuss actions required to correct each identified problem and possible completion of sampling at that well.

At each monitoring well, measure depth-to-water and the total depth of the well using a water level meter with a precision of plus or minus (±) 0.01 ft. For monitoring wells with suspected or historically documented NAPL, measure depth-to-water, depth to NAPL, and total well depth using an oil-water interface probe with a precision of ±0.01 ft. See **Section 4.2.2** for instruction on checking the precision and accuracy of water level meters and oil-water interface probes.

For monitoring wells TW-104, and TW-105, which are equipped with dedicated pumps (as of September 2024), measure the depth-to-water through the drop pipe by removing the top plug. The measuring point for the well is the top of the drop pipe coupling, whereas the surveyed point is the top of the well seal. At well MW-20B, which is also equipped with a dedicated pump, measure the water level through the interrogation port in the well seal because there is no drop pipe access. The surveyed measuring point for well MW-20B is the top of the well seal at the interrogation port.

For wells with dedicated pumps, record the measurement time, vertical distance from the measuring point to the top of the well seal (if applicable), depth to water, depth to NAPL (if applicable), and depth to the top of the pump on the well gauging field form in **Appendix A**. Review the well purging procedures described in **Section 4.4** and the investigation-derived waste (IDW) requirements described in **Section 4.7** to ensure there are enough empty 5-gallon purge buckets to accommodate the total purge volume expected.

For the remaining monitoring wells without dedicated pumps, measure the depth-to-water from the surveyed datum (north end) at the top of the well casing. Record the depth to water, depth to NAPL (if applicable), and total well depth on the gauging field form for wells without dedicated pumps, included in **Appendix A**. Also note the conditions at the bottom of the well (e.g., soft), which may indicate silt accumulation.

4.3 WELL PREPARATION

During each sampling event, document the following minimum information in the field logbook:

- Health and safety notes (e.g., "tailgate meeting" notes and heat-related injury prevention work/rest cycles).
- Names of personnel conducting the sampling event.
- Site visit objective(s) (e.g., conduct permit-required semi-annual/tri-annual groundwater monitoring).
- Weather conditions at the time of sampling. Include notations regarding notable changes in the weather with times and resulting work stoppage, if applicable.

  For example:
  - 13:05 – Heavy rain started; lightning watch started; work continues.
  - 13:25 - Heavy rain continues; lightning observed; start 30-minute stoppage; sheltered in field vehicle.
- Description of sampling methods, including sampling equipment, and purging procedures, employed at the site (first time only, provided subsequent repetitions are identical – describe any deviations from typical).
- Equipment serial number(s).
- Equipment calibration procedures and calibration record (i.e., calibration standards and before/after readings). Describe procedure as implemented in field – one time only.
- Equipment decontamination procedures. Describe procedure as implemented in field – one time only.
- Well purging/sampling procedures. Describe procedure as implemented in field – one time only, provided subsequent repetitions are identical – describe any deviations from typical.
- Sample preservation, and handling information.

- Deviations from the procedures described in this SAP and justification(s) for the deviation.

Record the following information in the field logbook **at each well**:

- Well information including:
  - Sample designation and time of sample collection.
  - Well damage or maintenance needs, if applicable (missing bolt(s) or lock, damaged well plug, etc.).
- Notetaker name and signature (each page).

In addition, complete a Groundwater Sampling Field Data Sheet (provided in **Appendix A**) for each well included in the groundwater sampling program (see **Table 3-2** and/or **Table 3-3**), even if a sample was not collected. **Leave no blanks in the form unfilled**; if required information is somehow not available, fill the blank with brief explanation. At each well, the following minimum information will be recorded on each field data sheet:

- Site name, well identification, project number, and date.
- Well measurements, including:
  - Well casing diameter.
  - Screened interval.
  - Surface completion type (e.g., flush-mount or stick-up) and distance of the top-of-casing (or other designated "measuring point") from the ground surface.
  - Static water level (before total depth is measured).
  - Total well depth.
  - Well volume.
  - Presence of accumulated silt (including approximate thickness and detection method; hard or soft bottom, etc.)
- Purge information, including:
  - Purging and sampling equipment (e.g., bladder or peristaltic pump).
  - Analytical equipment (make and model).
  - Pump (or tubing intake) depth during purging.
  - Pumping rate.
  - Purging volume.
  - Well purge time.
- Whether a field filter was used for sample collection. If used, record the filter size(s) and which bottles were filled with filtered water.
- Notation of the presence or absence of accumulated NAPL in the well (including thickness and detection method). The presence or absence of NAPL in a well is determined by the oil-water interface probe only. If present, describe suspended "blebs"

of NAPL, sheen, or other possible evidence of NAPL as such. Accumulated/measurable NAPL in a well should be documented the same as isolated blebs, sheen, etc.

- Visual and measured water quality parameters required for analysis, including appearance (e.g., color and opacity), pH, conductivity, ORP, DO, temperature, and turbidity.

Following sample collection, record the following information on the chain-of-custody form(s) (provided in **Appendix B**):

- Project information (site name, project number, contact information, etc.).
- Sample identification(s), date and time of sample collection, total bottle count and preservatives used, and requested analyses.

4.4 WELL PURGING PROCEDURES

This section presents the well purging procedures to be followed during the corrective action groundwater sampling activities.

4.4.1 Wells With Dedicated Pumps

For wells with dedicated pumps (currently only MW-20B, TW-104, and TW-105), place an empty 5-gallon purge bucket below the dedicated pump outlet (typically a hose bib). Open the spigot slowly and only enough to generate a flow rate of between 0.2 and 0.3 liters per minute and collect enough purge water in the bucket to determine the read and record the initial field parameter measurements. To determine field parameter readings, thread the protective cage onto the water quality meter probe and gently place it in the bottom of the purge bucket. Allow the water quality meter probes to stabilize for about 1 minute, then record the readings for pH, DO, ORP, temperature, specific conductivity, and turbidity on the field data sheet. Replace the purge bucket with a new, clean bucket while continuing to purge the well at a flow rate of between 0.2 and 0.3 liters per minute. Gently place the water quality meter probe in the new bucket to collect and record a second set of water quality parameters. Repeat this process to record subsequent water quality parameters at 5-minute intervals until the parameter stabilization criteria are met or for a maximum of five intervals. Parameter stabilization criteria are as follows:

- pH (+/- 0.1 standard units)
- DO (+/- 10%)
- ORP (+/- 10 mV)
- Temperature (+/- 0.1 degrees Celsius)
- Specific Conductivity (+/- 3%)
- Turbidity (+/- 10%)

Note on the field data sheet any unusual features of the purge water (e.g., excessive turbidity, visible color, sediment).

4.4.2 Wells Without Dedicated Pumps

Wells that do not have dedicated pumps (most wells in WMA I) will be purged in general accordance with industry-standard low-flow procedures using a reusable bladder pump or peristaltic pump, with one exception: well MW-24 will be purged using a disposable plastic bailer in general accordance with TCEQ Standard Operating Procedure (SOP) No. 7.2 *Purging a Monitoring Well with a Bailer* (TCEQ, 2013a). This purging procedure is required at MW-24 due to an obstruction at about 4 ft below the top of the well casing that does not allow the bladder pump to pass. This obstruction is believed to be a slight misalignment between the casing blanks that comprise the well where they are threaded together. Static water levels in well MW-24 are typically slightly greater than about 30 ft below the top of the well casing, which is the generally-accepted maximum effective depth for peristaltic pumps. The remaining wells that do not have dedicated pumps will be purged in general accordance with TCEQ SOP No. 7.4 (TCEQ, 2013b). Copies of the above-mentioned SOPs are provided in **Appendix C**.

Monitoring well purging procedures are summarized as follows:

- **Bladder/Peristaltic Pump:** A bladder pump with new tubing and a new bladder will be lowered to the approximate center of the wetted screen interval or, for a peristaltic pump, new tubing will be lowered to the approximate center of the wetted screen interval and connected to a peristaltic pump to purge well water. All non-dedicated or non-disposable equipment that will potentially come into contact with the sampled media (e.g. bladder pump housing and associated fittings) will be decontaminated with a liquinox and potable water solution wash, followed by a potable water rinse before and after sampling activities are completed at each well.

  Groundwater will be purged at a low-flow rate of between 0.2 and 0.3 liters per minute while monitoring the field water quality parameters (pH, DO, ORP, temperature, specific conductivity, and turbidity). These parameters will be recorded on field data sheets at 5-minute intervals until stabilization or a maximum of five intervals has occurred.

  Parameter stabilization criteria are listed below:

  - pH (+/- 0.1 standard units)
  - DO (+/- 10%)
  - ORP (+/- 10 mV)
  - Temperature (+/- 0.1 degrees Celsius)
  - Specific Conductivity (+/- 3%)
  - Turbidity (+/- 10%)

- **Bailer:** Attach a piece of new nylon rope to the disposable bailer and slowly lower it until the bailer is completely submerged. Use caution to minimize turbulence. Allow the bailer to sink to the approximate center of the wetted screened interval, then retrieve the bailer and empty it into a 5-gallon purge water bucket. Repeat this process until a minimum of three well volumes have been purged while recording a set of water quality parameters (see above) after each well volume is removed. Do not use the bucket water for parameter monitoring unless it is emptied after each well volume is removed.

4.5 WELL SAMPLING PROCEDURE

Groundwater samples will be collected in general accordance with TCEQ's most recent QAPP and the relevant TCEQ SOP.

Once the purging procedure using a dedicated, bladder, or peristaltic pump is complete (see below for purging with a bailer), remove the water quality meter from the discharge line train and prepare the sample containers. Completely and legibly fill out the label on each sample container. After donning new nitrile gloves, fill each sample container directly from the pump tubing (or spigot for wells with dedicated pumps) in the order presented below.

For samples from wells purged using a bladder or peristaltic pump and whose analysis require in-line field filtration before the container is filled (e.g., total arsenic analysis with turbidity >10 NTU or dissolved analysis), attach the appropriate field filter (either 0.45 µm or 10 µm filter) to the end of the pump tubing and fill the sample container directly from the discharge point of the filter.

For samples from wells equipped with a dedicated pump (currently only MW-20B, TW-104, and TW-105) and whose analysis require in-line field filtration before the container is filled, fill a new disposable bailer with groundwater directly from the spigot and insert new tubing into the top of the bailer with the intake at about the center of the water column in the bailer. Connect the required filter (0.45 µm or 10 µm filter) to the tubing outlet and pump the water from the bailer and through the field filter using a peristaltic pump set at approximately the same speed used during the purge and sufficient to efficiently pump through the filter and fill the required sample container.

Once the purging procedure using a bailer is complete (see **Section 4.4.2**), collect the sample by slowly lowering the bailer to the approximate center of the wetted screened interval again. Once full, retrieve the bailer slowly, being careful to minimize contact with the well casing. Fill sample containers directly from the bailer in the order presented below. Repeat as needed to fill all the

necessary sample containers (see below for order of filling). For bailed samples whose analyses require in-line field filtration before the container is filled (e.g., total arsenic analyses with turbidity >10 NTU or dissolved analysis), insert new tubing into the top of the bailer with the intake at about the center of the water column in the bailer. Connect the required filter (0.45 µm or 10 µm filter, depending on turbidity and/or specific analysis) to the tubing outlet and pump the water from the bailer and through the field filter using a peristaltic pump set at a reasonable speed to efficiently pump through the filter to fill the required sample container(s) (filtering flow rates do not need to equal low-flow purging rate).

Fill the sample containers in the following order:

1. VOCs
2. SVOCs
3. TPH
4. Arsenic (if not turbid enough to be filtered; < 10 NTU)
5. TOC
6. Nitrite/nitrate
7. Samples requiring filtration (i.e., DOC, dissolved ferrous iron, and arsenic if turbid enough to require filtration)

Groundwater samples will only be filtered in the field under the following circumstances:

- Field filtering is required for any groundwater sample collected for **total metals analysis** if elevated turbidity (greater than [>] 10 Nephelometric Turbidity Units [NTU]) is recorded during the final stages of well purging at subject wells.. This circumstance is only currently applicable to arsenic analyses, and the purpose is to mitigate the chances of coarse sediment in the sample to bias the results. Only the groundwater used to fill the containers for arsenic analysis will be filtered, and the filtering will be conducted using a 10 µm filter (0.45 µm filters are not acceptable for total metals analysis). The filtered water will be contained in a nitric acid-preserved container per the established method requirements (see **Table 3-4**).

- Field filtering is required in all cases (regardless of turbidity) for dissolved ferrous iron and DOC analyses only. Only the groundwater used to fill the respective containers for these specific analyses will be filtered, and the filtering shall be conducted using a 0.45 µm filter (10 µm filters are not acceptable for dissolved ferrous iron or DOC analyses). Note that this filter size is different than the filter size used for total metals analyses.

If a well purges dry due to poor well yield, slowly lower the tubing inlet or bladder pump to the bottom of the well (use caution to not insert into silt at the well bottom, if detected during gauging)

and continue to pump at a minimum flow rate of about 0.2 liters per minute. If the well purges dry after lowering the tubing inlet or pump, turn off the pump and allow the well to recover to 85% of the static water level and then sample without additional purging. If the well does not recover to within 85% of the original water volume within 24 hours but a sufficient volume of water is present to collect a sample, record the measured water level and calculated well volume, then collect the sample from the available water Collect the sample by filling the minimum number of bottles for each analysis as provided in **Table 3-4** and in the following order:

Required/Priority Analyses:

1. VOCs (each vial completely full before sealing; total of 3 vials per sample, typically)
2. SVOCs
3. TPH
4. Arsenic (regardless of whether filtration is/is not required)

Second-tier analyses (determine after filling above bottles)

5. TOC
6. Nitrite/nitrate
7. Non-arsenic samples requiring filtration (i.e., DOC, dissolved ferrous iron)

Enter sample information on the chain-of-custody form(s) and in the field logbook following each sample completion. Sample information will, at a minimum, include the following:

- Sample date;
- Sample time;
- Sample ID (i.e., well ID);
- Person collecting the sample; and.
- Requested analyses, method number, preservation method, and container type/size.

Place glass sample containers in bubble packs and place all labeled sample containers in separate sealable plastic bags (e.g., Ziploc®) with the sample ID on the bag, then directly in a cooler with ice. If multiple zip-closure plastic bags are required to contain the aliquots comprising a single sample, label each bag with the sample ID. Cooler(s) containing samples will remain within line-of-sight of field personnel or in the field vehicle until transferred to the analytical laboratory or the

designated courier for transport to the analytical laboratory per industry-standard chain-of-custody procedures.

Use an adequate amount of ice to maintain the samples at between 2 and 6 degrees Celsius being careful not to "over ice" and cause freezing, particularly during colder months. When possible, keep the cooler(s) out of direct sunlight and protect it from being directly rained on. Special icing, packaging, handling, and shipping arrangements may be necessary during the warmer months to ensure that proper temperatures are maintained until the samples reach their intended destination.

At the end of each field day, verify that the sample information on each container label matches the sample information on the chain-of-custody form. An example completed chain-of-custody form is provided in **Appendix B**.

4.6 DECONTAMINATION PROCEDURES

The objective of the equipment decontamination procedure is to minimize the potential for cross-contamination between sampling locations. All non-dedicated sampling equipment that will potentially come into contact with sampled media (e.g., bladder pump housing and water level probes) will be decontaminated in accordance with WESTON SOP 301, provided in **Appendix C**. Document any deviations from the SOP procedures in the field logbook.

Equipment rinsate blanks will be collected from decontaminated equipment as described in **Section 4.8**.

4.7 INVESTIGATION-DERIVED WASTE

Investigation-derived waste (IDW) will be managed and disposed of in accordance with applicable local, State, and Federal regulations. IDW will include purged water from monitoring wells, decontamination water, and disposable personal protective equipment (PPE). Purge water and decontamination water will be transferred to 55-gallon steel drums for storage and disposed of later at an approved off-site disposal facility or the on-site wastewater treatment plant (with SJC's prior approval).

Incidental waste, including disposable PPE, paper towels, plastic bags/sheeting, and similar discarded materials will be considered *de minimis* and will be placed in plastic garbage bags or other appropriate containers and disposed of as municipal solid waste at the facility.

4.8 QUALITY ASSURANCE/QUALITY CONTROL SAMPLES

Collection and analysis of Quality assurance/quality control (QA/QC) samples allow for an independent assessment of the precision and accuracy of the reported laboratory results, as well as possible sample biases contributed by the field sampling and decontamination methods. QA/QC samples will include one field duplicate groundwater sample and one matrix spike/matrix spike duplicate (MS/MSD) sample during each sampling event. The field duplicate sample will be collected as a split sample of the parent groundwater sample at a well chosen by the Task/Project manager before the start of the sampling event. The field duplicate sample location will be chosen based on the analytical results from the previous sampling event, such that the duplicate sample will be collected from a well where the reported concentrations of the primary COCs of interest (naphthalene and/or benzene) were greater than the respective laboratory method detection limits, if possible. The MS/MSD will include a triplicate volume for the constituent(s) analyzed and will be collected at a well with sufficient productivity as chosen by the Task/Project Manager before the start of the sampling event. The MS/MSD sample location will be chosen from a well where the primary COCs of interest (naphthalene and/or benzene) were previously reported at concentrations less than or slightly greater than the respective laboratory method detection limits.

In addition, one field blank and one equipment blank (rinsate blank) will be collected each day of sampling and submitted for analysis. Field blank samples will be prepared in a central location during the sampling program each day by filling the appropriate sample containers with laboratory-supplied deionized water, then immediately closing the container(s) and placing them in the sample cooler(s). Equipment blanks will be prepared from the bladder pump by running laboratory-supplied deionized water over and through the bladder pump housing following its decontamination (see **Section 4.6**) after collection of the last sample of the day. The rinsate off the bladder pump will be captured in the appropriate sample container(s), then immediately close the container(s) and placed in the sample cooler(s). All QA/QC samples will be recorded on the chain-of-custody.

QA/QC samples will be analyzed for naphthalene and benzene only. The analytical results obtained for the QA/QC samples allow for an independent assessment of the precision and accuracy of the reported laboratory results, as well as possible sample biases contributed by the field sampling and decontamination methods. Laboratory QA/QC procedures will include control samples as defined in Chapter I of SW-846 and these will be documented in the laboratory reports.

5. REPORTING

TEC will report the results of the corrective action groundwater monitoring program for WMA I in writing to TCEQ on a semi-annual basis in accordance with CP Table VII and CP Table VIII. A Corrective Measures Implementation (CMI) Progress Report will be provided in writing to TCEQ on an annual basis. The CMI Progress Report will be included as a report section in each second semi-annual Corrective Action Monitoring Report for WMA I in accordance with CP Table VII and TCEQ letters dated 31 July 2023 (TCEQ, 2023b) and 6 June 2024 (TCEQ, 2024a). The CMI Progress Report section will include a narrative summary of the status and performance of the corrective measures in WMA I.

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APPENDIX A

FIELD DATA SHEETS

GROUNDWATER SAMPLING FIELD DATA SHEET

SITE: _____ **WELL ID:** _____

Groundwater Sampling Field Data Sheet

Project Number: 10472.003. **Task Number:** _____ **Date:** _____

Casing Diameter: 2" / 4"	Screened Interval (ft bgs):	Purge Equipment: Peristaltic Pump / Bladder Pump / Bailer
Depth to Product from TOC (ft):	Depth of Sample Intake (ft btoc):	Sample Equipment: Same as purge, less flow-through cell
Static Depth to Water (ft btoc):	Flow Rate (L/min)[1]:	Analytical Equipment: YSI ProDSS / YSI ProPlus / Micro TPW / Hach 2100Q
Total Well Depth (ft btoc):	Time Purge Started:	Field Filtered: Yes / No Filter Size: 0.45 µm / 10 µm
Height of Water Column (ft):	Micro Purge Data: CPM _____ Duration (sec): _____ Recharge (sec): _____ Discharge (sec): _____	QA/QC Sample Collected: Yes / No Duplicate / MS/MSD Sample ID: Date/Time: Analytical Parameters:
1 Well Volume (gal):	Peristaltic Pump Setting: 0-350 rpm / 0-600 rpm	

Time	Purge Volume (gal)	Temperature (°C) (+/- 0.1)	DO (mg/L) (+/- 0.3)	Cond. (mS/cm) (+/- 3%)	pH (+/- 0.1)	ORP (mV) (+/- 10)	Turbidity (NTU) (+/- 10%)	Water Level (ft btoc)

Sample ID:	Sample Date:	Sample Time:
Comments: All water quality parameters above will be recorded, and pH, temperature, conductivity, ORP, DO, and turbidity will be used to determine well stabilization. Collect and document if the parameters do not stabilize after 5 cycles. Did all parameters stabilie within 5 readings? ☐ Yes o No (if no, list parameters that did not stabilize:_____)		
Level of PPE: D - steel-toed boots, safety glasses, nitrile gloves	Analytical Parameters:	
Disposition of Purged Water: Placed in new 55-gallon steel drum	Sampler's Signature/Date:	

[1] Flow rate should be between 0.2 and 0.3 liters per minute

Gallons per linear foot of casing:

2" = 0.16
4" = 0.65

Monitoring Wells With Dedicated Pumps
Gauging Field Form

TEC JASPER
JASPER, TEXAS

Field Representative First and Last Name(s): _____ Date: _____

Equipment (make/model) used for measurements: _____ Equipment Serial Number(s): _____

Well ID (Constructed TD [ft btoc])	Time	Dedicated Pump (Y/N)	TOC to MP (ft)	Depth to Water (ft BMP)	Depth to DNAPL (ft BMP)	Depth to Top-of-Pump (ft BMP)	Previous Depth to Top-of-Pump (ft BMP)	Notes
MW-20B (54.72)		Y	NA				48.20	
TW-104 (19.93)		Y					17.40	
TW-105 (33.02)		Y	NA				27.13	

Surface Water	Time	Staff Gauge Reading (ft)
Pond B		

ft = Feet
bgs = Below ground surface
BMP = Below measuring point

Monitoring Wells Without Dedicated Pumps
Gauging Field Form

TEC JASPER

JASPER, TEXAS

Field Representative First and Last Name(s): _____ Date: _____

Equipment used for measurements: _____ Equipment Serial Number(s): _____

A	B	C	D	E	F		
Well ID (Constructed TD [ft btoc])	**Time**	**Dedicated Pump (Y/N)**	**Depth to Water (ft btoc)**	**Depth to DNAPL (ft btoc)**	**Total Depth (ft btoc)**	**Re-measured TD [1] (ft btoc)**	**Notes**
MW-5 (41.84)		N					
MW-6 (54.13)		N					
MW-7 (61.04)		N					
MW-9 (115.97)		N					
MW-10 (61.17)		N					
MW-14 (48.71)		N					
MW-17 (31.27)		N					
MW-18A (47.90)		N					
MW-18B (67.29)		N					
MW-19 (88.18)		N					
MW-20A (41.57)		N					

[1] Re-measure the total depth if difference between Columns A and F are > 1 foot.

ft = Feet

bgs = below ground surface

Monitoring Wells Without Dedicated Pumps
Gauging Field Form

TEC JASPER

JASPER, TEXAS

Field Representative First and Last Name(s): _____ Date: _____

Equipment used for measurements: _____ Equipment Serial Number(s): _____

A	B	C	D	E	F		
Well ID (Constructed TD [ft btoc])	**Time**	**Dedicated Pump (Y/N)**	**Depth to Water (ft btoc)**	**Depth to DNAPL (ft btoc)**	**Total Depth (ft btoc)**	**Re-measured TD [1] (ft btoc)**	**Notes**
MW-20C (113.10)		N					
MW-21 (49.55)		N					
MW-22 (45.23)		N					
MW-23 (45.23)		N					
MW-24 (69.05)		N					
MW-25 (40.37)		N					
MW-26 (63.02)		N					
MW-27 (62.93)		N					
MW-28 (63.17)		N					
MW-29 (54.51)		N					
MW-30 (57.36)		N					

[1] Re-measure the total depth if difference between Columns A and F are > 1 foot.

ft = Feet

bgs = below ground surface

Monitoring Wells Without Dedicated Pumps
Gauging Field Form

TEC JASPER

JASPER, TEXAS

Field Representative First and Last Name(s): _____ Date: _____

Equipment used for measurements: _____ Equipment Serial Number(s): _____

A	B	C	D	E	F		
Well ID (Constructed TD [ft btoc])	**Time**	**Dedicated Pump (Y/N)**	**Depth to Water (ft btoc)**	**Depth to DNAPL (ft btoc)**	**Total Depth (ft btoc)**	**Re-measured TD [1] (ft btoc)**	**Notes**
MW-31 (67.95)		N					
TW-101 (47.31)		N					
TW-102 (48.39)		N					
TW-103 (27.85)		N					
TW-106 (23.78)		N					
TW-107 (15.38)		N					

Re-measure total depth if difference between Columns A and F are > 1ft

[1] Re-measure the total depth if difference between Columns A and F are > 1 foot.

ft = Feet

bgs = below ground surface

APPENDIX B

CHAIN-OF-CUSTODY FORM

ALS Environmental

Laboratory location:
10450 Stancliff Road, Suite 210
Houston, TX 77099

Chain of Custody Form

Page _____ of _____

ALS Project Manager:		Work Order #:	

Customer Information		Project Information	
Purchase Order		Project Name	**TEC Jasper**
Work Order		Project Number	**10472.003._____**
Company Name	TEC	Bill To Company	**TEC**
Send Report To	Garrett Haas & Archie Lopez	Invoice Attn.	**Archie Lopez & Steve Bowman**
Address		Address	**1122 Colorado Street, Suite 2400**
City/State/Zip		City/State/Zip	**Austin, TX 78701**
Phone	210.630.1098	Phone	**361.484.2048**
e-Mail Address	[redacted]	e-Mail Address	[redacted]

	Parameter/Method Request for Analysis
A	**VOCs (with naphthalene) by EPA 8260**
B	**Benzene by EPA 8260**
C	**Naphthalene by 8270**
D	**Creosote Constituents by 8270**
E	**CP Table III Compounds by 8260 and 8270**
F	**Total As by EPA 6020**
G	**Total Organic Carbon by EPA 5310B**
H	**Dissolved Organic Carbon by EPA 5310B**
I	**Dissolved Ferrous Iron by EPA 6020A**
J	**Nitrate/Nitrite by EPA 300**
K	**Field Filtered**

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	K	Hold
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Sampler(s): Please Print & Sign

Shipment Method:

Required Turnaround Time: ☐ Other _____
☑ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by (Laboratory):
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:
1) Creosote Consituents List includes selected SVOC compounds provided by WESTON
2) CP Table III Compounds List includes selected VOC and SVOC compounds provided by WESTON

Cooler Temp.

QC Package: (Check Box Below)

	Level II: Standard QC		TRRP-Checklist
	Level III: Std QC + Raw Data	X	TRRP Level IV
	Level IV: SW846 CLP-Like		
	Other: _____		

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

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ALS Environmental

Laboratory location:
10450 Stancliff Road, Suite 210
Houston, TX 77099

Chain of Custody Form

Page 1 of 1

HS24040783

Weston Solutions, Inc.
TEC Jasper, Jasper, TX

ALS Project Manager:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	TEC Jasper	A	Benzene by EPA 8260
Work Order		Project Number	10472.003.025.0001.01	B	Naphthalene by EPA 8270
Company Name	TEC	Bill To Company	TEC	C	Total Arsenic by EPA 6020
Send Report To	Garrett Haas/Archie Lopez	Invoice Attn.	Archie Lopez	D	Total Organic Carbon by EPA 5310B
Address		Address	100 Cooperative Way	E	Nitrate/Nitrite by EPA 300
				F	Dissolved Ferrous Iron by EPA 6020A
City/State/Zip		City/State/Zip	Georgetown, TX 78626	G	Dissolved Organic Carbon by EPA 5310B
Phone	210-630-1098	Phone	512.868.8610	H	Field Filtered - 0.45 um (Diss. Fe & DOC Only)
Fax		Fax		I	Field Filtered - 10 um (As Only)
e-Mail Address	Garrett.Haas@westonsolutions.com arlopez@texas-ec.org	e-Mail Address	arlopez@texas-ec.org	J	MS/MSD
				K	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	K	Hold
1	MW-18A	4/9/24	1110	W	1,2	9		X	X	X	X	X	X	X	X			
2	MW-18B		1145		2	3		X	X									
3	MW-21		1445		1,2	9		X	X	X	X	X	X	X	X			
4	MW-22		1335		2	3		X	X									
5	(Trip Blank) VBLKW-032524-24		—		1	2	X											
6	(Equip Blank) EB-20240409		1158		2	3		X	X									
7	(Field Blank) FB-20240409		1202		2	3		X	X									
8	MW-11		1430		—	2		X										
9																		
10																		

Sampler(s): Please Print & Sign
Daniel Rodriguez - DRodriguez

Shipment Method:

Required Turnaround Time: ☑ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other _____

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Notes:
DRodriguez	4/10/24	0830		
Relinquished by:	**Date:**	**Time:**	**Received by (Laboratory):**	**Cooler Temp.**
			4/11/24 09:30	2.2° C
Logged by (Laboratory):	**Date:**	**Time:**	**Checked by (Laboratory):**	
			Blue	+33

QC Package: (Check Box Below)

X	Level II: Standard QC		TRRP-Checklist
	Level III: Std QC + Raw Data	X	TRRP Level IV
	Level IV: SW846 CLP-Like		
	Other: _____		

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

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APPENDIX C

TCEQ STANDARD OPERATING PROCEDURES

SOP – DECONTAMINATION PROCEDURES

SUPERFUND TECHNICAL ASSESSMENT RESPONSE TEAM
STANDARD OPERATING PROCEDURES

SOP 301
DECONTAMINATION PROCEDURES

1.0 PURPOSE

To provide guidance for the decontamination of equipment used to sample, and install sample, and install sample points (monitor wells, soil borings and test pits), and make field measurements. This operating practice is not intended to be site specific or equipment specific, but to provide guidance in place of non-existent state or federal guidelines.

2.0 DISCUSSION

2.1 Introduction

The objective of decontamination procedures is to provide clean equipment for the retrieval of representative environmental samples. Decontamination procedures differ depending on the nature of the equipment used. The three categories of decontamination procedures are discussed below:

- Intrusive equipment used to install sample points including drilling (tools, augers, rods, etc.) and excavation equipment (backhoes, excavators, etc.).

- Equipment used to measure the characteristics of the media to be sampled including water level, pH, specific conductivity, and temperature probes. This category also includes pumps to purge water.

- Equipment that has contact with the sample to be submitted for laboratory analysis including bailer, split-spoons, hand auger, stainless steel bowls and scoops.

Because items from the first two categories do not contact the sample media that is sent to a laboratory for analysis, the decontamination procedures are less stringent. Dedicated and disposable equipment will be used whenever feasible to limit decontamination and the possibility of cross-contamination. This includes rope, tubing, filterware and, in some cases, soil scoops and bailers.

3.0 PROCEDURES

3.1 Intrusive Equipment

Drilling tools, including augers, rods, drill bits, hand tools, etc. will be steam cleaned prior to use and after each location. Split spoons will also be steam cleaned if not used for sample collection. Backhoe buckets and arms will also be steam cleaned prior to use and between each sample location.

3.2 Field Measurement Equipment

Water level probes will be cleaned using the following procedures:

- Wipe the probe with a paper towel.
- Alconox and potable water wash.
- Deionized water rinse.

Other measurement equipment should be rinsed with deionized water between readings.

Pumps used for well purging shall be decontaminated using the following procedures:

- Alconox and potable water scrub and pump through.
- Potable water rinse and pump through.

Rope and tubing used with the pump will be made of polyethylene and be dedicated (and disposable) to one sample location.

3.3 Sampling Equipment

Equipment used for sample collection include but are not limited to:

- Teflon bailers
- Stainless steel scoops and bowls
- Hand augers
- Split spoons

This equipment will be cleaned using the following procedures:

- Alconox and potable water scrub.
- Thorough potable water rinse.

- Deionized water rinse.
- 10% nitric acid rinse* (1% solution if used on low carbon steel split spoons).
- Deionized water rinse*.
- Acetone (pesticide grade) rinse**.
- Total air dry**.
- Deionized water rinse**.

* Only if sample is to be analyzed for metals.

** Only if sample is to be analyzed for organics.

Sampling instruments should be wrapped in aluminum foil after decontamination to keep clean before sampling.

4.0 DOCUMENTATION

Decontamination efforts should be documented in the field logbook. Decontamination fluids should be disposed of properly. Depending on site conditions, it may be appropriate to contain spent decontamination fluids. In that case, the appropriate vessel (i.e., drum) should be used depending on the ultimate disposition of the material.

5.0 INTERPRETATION

If there are questions on the interpretation or applicability of items in this operating practice, the Project Manager or Technical Manager should be consulted. In the absence of either of those, contact a Section Manager.

6.0 REFERENCES

New Jersey Department of Environmental Protection and energy Field Sampling Procedures Manual, May 1992.

"Standard Practice for Decontamination of Field Equipment Used at Non-radioactive Waste Sites", ASTM Designation D5088-90.

SOP – MICRO PURGING A MONITORING WELL

STANDARD OPERATING PROCEDURE NO. 7.4
MICRO PURGING A MONITORING WELL

1.0 METHOD SUMMARY

Micro purging is an approach to purging based on the observation that groundwater flows through the well screen in most formations with sufficient velocity to maintain an exchange with formation water surrounding the well screen. By placing a pump within the screen interval and pumping at a low-flow rate which does not induce drawdown of the water column, a representative sample of formation groundwater can be collected with minimal withdrawal of stagnant water. Ideally micro purging should be conducted in wells in which dedicated pumps have been installed. It is possible to use non-dedicated pumps if a sufficient amount of time is allowed for the water level to equilibrate following insertion of the pump. Whenever possible, micro purging and low-flow sampling methods are preferred for use at Superfund sites. If a monitor well is pumped or bailed dry, it will be allowed to recover to 85 percent of the original water volume before sample collection. If the monitor well does not recover to within 85 percent of the original water volume within 24 hours, but a sufficient volume of water is present to collect a sample, the sample will be collected from the available water and the volume of water will be recorded in the field logbook.

2.0 EQUIPMENT/APPARATUS/REAGENTS

The following is a typical equipment list used for micro purging groundwater monitoring wells.

Equipment List

- Logbook
- As-built diagrams of monitoring wells
- Field data sheets
- Plastic sheeting
- Generator, if using pump
- Air compressor for bladder pumps
- Pump
- Gasoline for generator or an electrical source
- Discharge tubing for pump
- Control box (if necessary)
- Appropriate pump fittings (e.g., hose clamps, barbed fittings, etc.)
- Drums
- Marking pen for labeling drums
- Wrench for opening/sealing drums
- Appropriate PPE

3.0 PROCEDURES

The procedures for micro purging are as follows:

1. All non-dedicated equipment shall be decontaminated in accordance with SOP 1.5 (Decontamination) prior to sampling activities.
2. Assemble pump, hoses and safety cable, and, if using a non-dedicated pump, lower the pump into the well. The pump intake should be set in the middle or slightly above the middle of the screened interval. Alternatively, the pump may be located adjacent to the zone of highest contamination, if well-documented for reproducibility; however, placement of the pump too close to the bottom of the well may result in increased entrainment of solids which have accumulated in the well over time.

Placement of the pump at the top of the water column, just below the air/water interface is only recommended in unconfined aquifers where the water table straddles the screen or where this is the desired sampling point.

3. If using a non-dedicated pump, allow sufficient time for the water level to equilibrate to obtain a representative sample.
4. Make connections between the pump and control box if using an air-lift or bladder pump (i.e., Well Wizard).
5. Use a ground fault interrupter (GFCI) or ground the generator to avoid possible electric shock.
6. Attach power supply and begin micro purging the well. A well should be purged at or below its recovery rate, ideally less than 0.2 to 0.3 L/min.
7. Monitor the drawdown in the well. If the drawdown exceeds 0.3 ft, then reduce the pumping rate to ensure that drawdown does not exceed 0.3 ft.
8. Connect the water quality meters to the discharge hose and measure field parameters in accordance with Section 7.5 (Measurements of Monitor Well Field Parameters).
9. Repeat the measurements at a regular interval (i.e., every minute). Record the values in the field log book. Continue purging until the measured parameters stabilize for 3 successive readings.
10. If field parameters have not stabilized after 3 successive readings, continue taking measurements at 3 minute intervals up to a maximum of 5 successive readings. If, after 5 successive readings, the parameters have not stabilized, an entry shall be made in the field logbook indicating that sampling will be conducted without stabilized parameters.
11. Purge water should be containerized on site or handled as specified in the site specific project plan.

4.0 CAUTIONS AND INTERFERENCES

The primary goal in performing groundwater sampling is to obtain a representative sample of the groundwater body. Analysis can be compromised by field personnel in two primary ways: (1) taking an unrepresentative sample, or (2) by incorrect handling of the sample. There are numerous ways of introducing foreign contaminants into a sample, and these must be avoided by following strict sampling procedures and utilizing trained field personnel. While laboratory methods have become extremely sensitive, well controlled and quality assured, they cannot compensate for a poorly collected sample. The collection of a sample should be as sensitive, highly developed and quality assured as the analytical procedures.

In a non-pumping well, there will be little or no vertical mixing of the water, and stratification will occur. The well water in the screened section will mix with the groundwater due to normal flow patterns, but the well water above the screened section will remain isolated, become stagnant, and may lack the contaminants representative of the groundwater. Persons sampling should realize that stagnant water may contain foreign material inadvertently or deliberately introduced from the surface resulting in an unrepresentative sample. To safeguard against collecting stagnant water, the following guidelines and techniques should be adhered to during sampling:

1. Water level and sediment thickness measurements should be taken prior to beginning the purging activities.

2. As a general rule, all monitoring wells should be pumped (preferred) or bailed prior to sampling. Purge water should be containerized on site or handled as specified in the site specific project plan.
3. For wells that can be easily pumped or bailed to dryness, micro purging and low-flow sampling methods shall be used.

Materials of construction for samplers and evacuation equipment (bladders, pump, bailers, tubing, etc.) should be limited to stainless steel, Teflon, and glass in areas where concentrations are expected to be at or near the detection limit. The tendency of organics to leach into and out of many materials makes the selection of materials critical for trace analyses. The use of plastics, such as PVC or polyethylene, should be avoided when analyzing for organics. However, PVC may be used for evacuation equipment as it will not come in contact with the sample, and in highly contaminated wells, disposable equipment (i.e., polypropylene bailers) may be appropriate to avoid cross-contamination.

SOP – GROUNDWATER SAMPLING USING A BAILER

STANDARD OPERATING PROCEDURE NO. 7.6
GROUNDWATER SAMPLING USING A BAILER

1.0 METHOD SUMMARY

Most hazardous waste site investigations utilize some form of a groundwater sampling or monitoring program to fully characterize the nature and extent of groundwater contamination. In order to obtain a representative groundwater sample for chemical analysis it is important to remove stagnant water in the borehole or pump tubing before collection of the sample. This may be achieved using a variety of instruments including pumps and bailers. Once purging is completed and the correct laboratory-cleaned sample containers have been prepared, sampling may proceed. Sampling may be conducted with any of the above instruments, and need not be the same as the device used for purging. During sampling, a field data sheet should be completed, a chain of custody form prepared, and all pertinent data recorded in the site logbook.

If a monitor well is pumped or bailed dry, it will be allowed to recover to 85 percent of the original water volume before sample collection. If the monitor well does not recover to within 85 percent of the original water volume within 24 hours, but a sufficient volume of water is present to collect a sample, the sample will be collected from the available water and the volume of water will be recorded in the field logbook. This SOP describes the methods used to sample monitoring wells with a bailer.

2.0 EQUIPMENT/APPARATUS/REAGENTS

The following is a typical equipment list used for sampling groundwater monitoring wells using a bailer.

- Field data sheets and sample jar labels
- Chain-of-custody forms/Custody seals
- Sample containers
- Knife or scissors
- 5-gallon buckets
- Plastic sheeting
- Shipping containers
- Packing materials
- Ziploc-type plastic bags
- Field parameter instruments (pH, DO meters, thermometer, conductivity meter, turbidimeter)
- Calibration standards
- Non-phosphate soap (Note: Alconox is not considered a non-phosphate soap; rather a low-phosphate soap)
- Nylon rope
- Bailers
- Appropriate PPE

3.0 PROCEDURES

This section outlines the procedures for collecting representative groundwater samples using the following steps. Each step in the procedure is covered in a separate SOP. The reference SOP is in parenthesis.

1. Prepare for sampling using: SOP 6.1 (Documentation), 6.3 (Collection of VOCs), 6.4 (Sample Handling and Control), and 6.5 (Collection of QC Samples).
2. Water level/sediment measurement will be taken in accordance with SOP 7.1 (Water Level Measurement)
3. Measurement of field parameters will be done in accordance with SOP 7.5 (Measurements of Monitoring Well Field Parameters).

4. Purge the well in accordance with SOP 7.2 (Monitoring Well Purging with a Bailer) or SOP 7.3 (Monitoring Well Purging with a Pump).
5. Assemble and label appropriate sample containers.
6. Attach a new piece of nylon rope to a dedicated bailer, a disposable bailer, or a clean, decontaminated non-dedicated bailer.
7. Lower the bailer slowly and gently into the well, taking care not to shake the casing sides or to splash the bailer into the water. Stop lowering at a point adjacent to the screen.
8. Allow bailer to fill and then slowly and gently retrieve the bailer from the well avoiding contact with the casing, so as not to knock flakes of rust or other foreign material into the bailer.
9. Remove the cap from the sample container and place it on the plastic sheet or in a location where it won't become contaminated or disturbed.
10. Begin pouring slowly from the bailer into the appropriate container. Samples should be collected in the following order:
    - Volatile organic compounds (VOCs)
    - Semi-volatile organic compounds (SVOCs); including polyaromatic hydrocarbons (PAHs)
    - Inorganic constituents (metals)
    - Mercury
    - Cyanide
    - Total organic carbon (TOC)
    - Total organic halogen (TOX)
    - Samples requiring field filtration
    - Samples for field parameter measurement
    - Samples for nutrient anion determinations
11. Filter and preserve samples as required by the sampling plan.
12. Cap the sample container tightly and place pre-labeled sample container in a pre-chilled cooler.
13. Replace the well cap.
14. Log all samples in the site logbook and on the chain-of-custody form and label all samples in accordance with SOP 6.1 (Documentation).
15. Package samples and complete necessary paperwork in accordance with SOP 6.4 (Sampling Handling and Control).
16. Transport samples to decontamination zone for preparation for transport to analytical laboratory.

4.0 CAUTIONS AND INTERFERENCES

Before sampling, monitoring wells shall be allowed to stabilize for a minimum period of 24 hours after development.

The primary goal in performing groundwater sampling is to obtain a representative sample of the groundwater body. Analysis can be compromised by field personnel in two primary ways: (1) taking an unrepresentative sample, or (2) by incorrect handling of the sample. There are numerous ways of introducing foreign contaminants into a sample, and these must be avoided by following strict sampling procedures and utilizing trained field personnel. While laboratory methods have become extremely sensitive, well controlled and quality assured, they cannot compensate for a poorly collected sample. The collection of a sample should be as sensitive, highly developed and quality assured as the analytical procedures.

Sample withdrawal methods require the use of pumps, compressed air, bailers, and samplers. Ideally, sample withdrawal equipment should be completely inert, economical to manufacture, easily cleaned, sterilized, reusable, able to operate at remote sites in the absence of power sources, and capable of delivering variable rates for sample collection. Wells should be sampled as soon as possible after purging (certainly no more than 24 hours) and should be sampled in order from least contaminated to most contaminated or from up-gradient to down-gradient if chemistry is unknown. Water levels shall be allowed to recover to 90% of the static water level before sampling. All non-dedicated equipment shall be decontaminated in accordance with SOP 1.5 (Decontamination) prior to use or upon completion of the sampling activities.

SOP – GROUNDWATER SAMPLING USING LOW-FLOW TECHNIQUES

STANDARD OPERATING PROCEDURE NO. 7.8 GROUNDWATER SAMPLING USING A LOW-FLOW TECHNIQUES

1.0 METHOD SUMMARY

Most hazardous waste site investigations utilize some form of a groundwater sampling or monitoring program to fully characterize the nature and extent of groundwater contamination. In order to obtain a representative groundwater sample for chemical analysis it is important to remove stagnant water in the borehole or pump tubing before collection of the sample. This may be achieved using a variety of instruments including pumps and bailers. Once purging is completed and the correct laboratory-cleaned sample containers have been prepared, sampling may proceed. Sampling may be conducted with any of the above instruments, and need not be the same as the device used for purging. During sampling, a field data sheet should be completed, a chain of custody form prepared, and all pertinent data recorded in the site logbook. This SOP describes the procedures for sampling a monitoring well using low-flow techniques. Low-flow methods are typically used in conjunction with micropurging (See SOP 7.4).

2.0 EQUIPMENT/APPARATUS/REAGENTS

The following is a typical equipment list used for sampling groundwater monitoring wells using a pump.

- Field data sheets and sample jar labels
- Chain-of-custody forms/Custody seals
- Sample containers
- Knife or scissors
- 5-gallon buckets
- Plastic sheeting
- Shipping containers
- Packing materials
- Ziploc-type plastic bags
- Field parameter instruments (pH meter, thermometer, conductivity meter, turbidimeter, DO meter)
- Calibration standards
- Non-phosphate soap (Note: Alconox is not considered a non-phosphate soap; rather a low-phosphate soap)
- Generator, if using pump
- Air compressor for bladder pumps
- Pump
- Gasoline for generator
- Discharge tubing for pump
- Control box (if necessary)
- Appropriate pump fittings (e.g., hose clamps, barbed fittings, etc.)
- Appropriate PPE

3.0 PROCEDURES

This section outlines the procedures for collecting representative groundwater samples using the following steps: Each step in the procedure is covered in a separate SOP. The reference SOP is in parenthesis.

Low-flow sampling procedures should be used whenever pumps are used for groundwater sampling. These procedures should be used in conjunction with micropurging techniques.

1. Prepare for sampling using: SOP 6.1 (Documentation), 6.3 (Collection of VOCs), 6.4 (Sample Handling and Control), and 6.5 (Collection of QC Samples).
2. Water level/sediment measurements will be taken in accordance with SOP 7.1 (Water Level Measurement)

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3. Measurement of field parameters will be done in accordance with SOP 7.5 (Measurements of Monitoring Well Field Parameters).
4. Purging will be done in accordance with SOP 7.4 (Micro Purging).
5. Allow well to recharge after purging to 90% of the static water level.
6. Disconnect flow-through cells.
7. Assemble and label the appropriate bottles.
8. Set the pump height so that the intake is near the center of the screened interval.
9. Adjust the flow rate of the pump to minimize aeration and bubble formation. A flow rate of <0.5 L/min is typically appropriate. The pump discharge should produce a thin, continuous stream of water when filling the sample container.
10. Begin using the pump to fill the appropriate container. Samples should be collected in the following order:
    - Volatile organic compounds (VOCs)
    - Semi-volatile organic compounds (SVOCs); including polyaromatic hydrocarbons (PAHs)
    - Inorganic constituents (metals)
    - Mercury
    - Cyanide
    - Total organic carbon (TOC)
    - Total organic halogen (TOX)
    - Samples requiring field filtration
    - Samples for field parameter measurement
    - Samples for nutrient anion determinations
11. Filter and preserve samples as required by sampling plan.
12. Cap the sample container tightly and place pre-labeled sample container in a pre-chilled cooler.
13. Replace the well cap.
14. Log all samples in the site logbook and on the chain-of-custody form and label all samples in accordance with SOP 6.1 (Documentation).
15. Package samples and complete necessary paperwork in accordance with SOP 6.4 (Sample Handling and Control).
16. Transport sample to decontamination zone for preparation for transport to analytical laboratory.

4.0 CAUTIONS AND INTERFERENCES

Before sampling, monitoring wells shall be allowed to stabilize for a minimum period of 24 hours after development.

The primary goal in performing groundwater sampling is to obtain a representative sample of the groundwater body. Analysis can be compromised by field personnel in two primary ways: (1) taking an

unrepresentative sample, or (2) by incorrect handling of the sample. There are numerous ways of introducing foreign contaminants into a sample, and these must be avoided by following strict sampling procedures and utilizing trained field personnel. While laboratory methods have become extremely sensitive, well controlled and quality assured, they cannot compensate for a poorly collected sample. The collection of a sample should be as sensitive, highly developed and quality assured as the analytical procedures.

Sample withdrawal methods require the use of pumps, compressed air, bailers, and samplers. Ideally, sample withdrawal equipment should be completely inert, economical to manufacture, easily cleaned, sterilized, reusable, able to operate at remote sites in the absence of power sources, and capable of delivering variable rates for sample collection. Wells should be sampled as soon as possible after purging (certainly no more than 24 hours) and should be sampled in order from least contaminated to most contaminated or from upgradient to downgradient if chemistry is unknown. Water levels shall be allowed to recover to 90% of the static water level before sampling. All non-dedicated equipment shall be decontaminated in accordance with SOP 1.5 (Decontamination) prior to use or upon completion of the sampling activities.

APPENDIX XI.E

FINANCIAL ASSURANCE TABLES

Table XI.E.1. Corrective Action Program Cost Estimate

Task	Cost
1. Pumping Capacity Per Year:	
A. Daily average system pumping rate	11,520 gal/day
B. Annual groundwater volume recovered	4,204,800 gal
2. Off-Site Liquid Treatment / Disposal Cost:	
A. Volume of treated contaminated water to be disposed of off-site yearly	4,000 gal/yr
B. Transportation of liquid waste disposed of off-site yearly	
(1) Transportation cost per gallon	$2.75/gal
(2) Gallons of contaminated water shipped per year	4,000 gal/yr
(3) Annual cost of transportation (1 x 2)	$11,000/yr
C. On-site yearly storage cost prior to off-site disposal	$5,200/yr
D. Off-site yearly treatment cost of liquid waste	
(1) Treatment charge per gallon	$/gal
(2) Total volume to be treated per year	gal/yr
(3) Annual treatment cost (1 x 2)	$/yr
E. Off-site disposal cost of liquid waste per year	
(1) Disposal charge per gallon	$9.30/gal
(2) Total volume to be disposed per year	4,000 gal/yr
(3) Annual disposal cost (1 x 2)	$37,200/yr
Annual Off-Site Liquid Treatment / Disposal Cost (2B3 + 2C +2D3 + 2E3)	**$53,400**
3. On-site Wastewater Treatment System Cost and On-site Treatment / Disposal Cost:	
Submit a cost estimate for a treatment system specifically designed and used exclusively for the groundwater Corrective Action Program and operational after some start up maintenance. Estimates to clean out the system should also be included in the following cost.	
A. Initial capital expenditure for treatment system including start up maintenance	0 $
On-Site Wastewater Treatment System Capital Cost (3A)	0 $

B. Gallons of contaminated water to be treated on-site per year	4,200,800 gal/yr
C. Cost of on-site treatment per gallon	$0.0005/gal
D. Cost of sludge or solids disposal per year	$1,695/yr
E. Cost per year of maintenance on treatment system and recovery system, along with any additional equipment and repairs needed for the systems	$7,130/yr
F. Cost of on-site disposal per year	$0/yr
Annual On-Site Treatment / Disposal Cost [(3B x 3C) + 3D + 3E + 3F]	**$ 10,925**
4. Inspections, Maintenance and Operation Cost for the Corrective Action Program:	
A. Operator's time on-site for inspections and maintenance per year	36 hr/yr
B. Charge of salary per hour	$100/hr
C. Annual cost of labor (4A x 4B)	$3,600/yr
D. Replacement cost of parts and equipment per year	$500/yr
E. Electricity cost per year	$1,200/yr
Annual Inspections / Maintenance / Operation Cost for the Corrective Action Program (4C + 4D + 4E)	**$5,300**

Table XI.E.2.e - Groundwater Monitoring Cost Estimate

Task	Cost
1. Annual Sampling and Analysis Cost	
A. Background Wells	
(1) Number of wells	1
(2) Sample analysis cost per well	$218/well
(3) Number of sampling events per year	2/yr
(4) Sampling cost (1 x 2 x 3)	$436
B. Point of Compliance Wells	
(1) Number of wells	4
(2) Sample analysis cost per well	$218/well
(3) Number of sampling events per year	2 /yr
(4) Sampling cost (1 x 2 x 3)	$1,744
C. Recovery Wells	
(1) Number of wells	6
(2) Sample analysis cost per well	$218/well
(3) Number of sampling events per year	2 /yr
(4) Sampling cost (1 x 2 x 3)	$2,616
D. Corrective Action Observation Wells	
(1) Number of wells	2
(2) Sample analysis cost per well	$218/well
(3) Number of sampling events per year	2 /yr
(4) Sampling cost (1 x 2 x 3)	$872
E. Point of Exposure Wells	
(1) Number of wells	5
(2) Sample analysis cost per well	$218/well
(3) Number of sampling events per year	2/yr
(4) Sampling cost (1 x 2 x 3)	$2,180
F. Supplemental Wells	
(1) Number of wells	4

(2) Sample analysis cost per well	$218/well
(3) Number of sampling events per year	2/yr
(4) Sampling cost (1 x 2 x 3)	$1,744
G. Field Quality Control Sampling	
(1) Number of wells	2
(2) Sample analysis cost per well	$218/well
(3) Number of sampling events per year	2 /yr
(4) Sampling cost (1 x 2 x 3)	$872

2. Sampling Labor Cost:	
A. Hours of sampling per well	1 hr/well
B. Number of sampling technicians per well	2 /well
C. Charge per hour	$100/hr
D. Total number of wells to be sampled annually	3
E. Total number of wells sampled semi-annually	19
F. Total number of wells sampled quarterly	0
G. Total number of wells sampled monthly	0
H. Total number of wells sampled per year (2D) + (2E x 2) + (2F x 4) + (2G x 12)	44
I. Sampling Labor Cost (2A x 2B x 2C x 2H)	$8,800
Annual Groundwater Monitoring Cost (Annual Sampling and Analysis Cost + Sampling Labor Cost)	**$19,264**
3. Well Installation (typical cost):	
A. Monitor well installation cost per well	0 $/well
B. Number of monitor wells to be installed	
C. Cost of monitor well system (3A x 3B)	
D. Recovery well installation cost per well	$/well
E. Number of Recovery Wells to be installed	
F. Cost of Recovery well system (3D x 3E)	
Total Well Installation Cost (3C + 3F)	
4. Administrative Cost:	

A. Annual cost for record-keeping and report preparation	$16,427

Annual Administrative Cost (4A)	**$16,427**
5. Inspection and Maintenance Cost for the Monitoring Program:	
A. Operator's time (hours) on-site for inspections and maintenance per year	12 hrs
B. Charge or salary per hour	$100 $/hr
C. Annual cost of labor (4A x 4B)	$1,200 $/hr
D. Replacement of parts and equipment per year	$200/hr
Annual Inspections / Maintenance Cost for the Groundwater Monitoring Program (5C + 5D)	$1,400

Table XI.E.3. - Financial Assurance Summary

Task	Cost
Annual Off-Site Liquid Treatment / Disposal Cost	$53,400
Annual On-Site Treatment / Disposal Cost	$10,925
Annual Inspection / Maintenance / Operation Cost for the Corrective Action Program	$5,300
Annual Groundwater Monitoring Cost	$19,264
Annual Administrative Cost	$16,427
Annual Inspection and Maintenance Cost for the Groundwater Monitoring Program	$1,400
Annual Subtotal	$106,716
Total Years Used for Calculating Financial Assurance for Corrective Action and/or Compliance Monitoring Program	10 Years
Remediation Cost (Annual Subtotal x Total Years Used)	$1,067,160
On-Site Wastewater Treatment System Capital Cost Total	$0
Total Well Cost	$0
10% Contingency	$106,716
Grand Total Cost (round to nearest $1000)	$1,173,876