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### National Nuclear Security Administration

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**Symbol:** EPC-DO: 22-285

**LA-UR:** 22-30624

**Locates Action No.:** U2200542

**Date:** 10/31/2022

Justin Ball, Chief  
Ground Water Quality Bureau  
New Mexico Environment Department  
Harold Runnels Building, Room N2261  
Santa Fe, NM 87502

**Subject: DP-1132, Quarterly Monitoring Report, Radioactive Liquid Waste Treatment Facility, Third Quarter 2022**

Dear Mr. Ball:

On May 5, 2022, the New Mexico Environment Department (NMED) issued Discharge Permit DP-1132 to the U.S. Department of Energy, National Nuclear Security Administration (NNSA) and Triad National Security, LLC (Triad) for discharges of treated effluent from the Technical Area 50 Radioactive Liquid Waste Treatment Facility (RLWTF). Pursuant to Permit Condition Number (No.) 24, NNSA and Triad are required to submit a quarterly monitoring report by November 1, 2022, for the period of July 1<sup>st</sup> through September 30<sup>th</sup>, 2022. The following permit conditions are addressed in Attachment 1 through 6 of this report.

- Condition No.13 : Maintenance and Repair
- Condition Nos. 25 and 26: RLWTF Influent Volumes
- Condition No. 27: Discharge Volumes
- Condition No. 29: Effluent Sampling
- Condition No. 30: Soil Moisture Monitoring System for the Solar Evaporation Tank System
- Condition No. 36: Groundwater Monitoring
- Condition No. 41: Stabilization of Specific Units and Systems that have Ceased

Please contact Karen E. Armijo at (505) 665-7314 or [karen.armijo@nnsa.doe.gov](mailto:karen.armijo@nnsa.doe.gov), or contact Brian M. Iacona at (505) 500-6038 or [biacona@lanl.gov](mailto:biacona@lanl.gov) if you have questions regarding this quarterly monitoring report.

Sincerely,

**STEVEN  
STORY  
(Affiliate)**

Digitally signed by  
STEVEN STORY  
(Affiliate)  
Date: 2022.10.19  
14:09:06 -06'00'

Steven L. Story  
Group Leader  
Environmental Compliance Programs  
Triad National Security, LLC

Sincerely,

**KAREN  
ARMIJO**

Digitally signed by  
KAREN ARMIJO  
Date: 2022.10.21  
12:13:22 -06'00'

Karen E. Armijo  
Permitting and Compliance Program Manager  
National Nuclear Security Administration  
U.S. Department of Energy

Attachment(s): Attachment 1 RLWTF Quarterly Monitoring Report – Third Quarter 2022  
Attachment 2 Quarterly Summary of Maintenance and Repair Activities Conducted at the RLWTF  
Attachment 3 RLWTF Daily Influent and Effluent Volumes  
Attachment 4 Monthly Treated Effluent Sampling Results  
Attachment 5 Quarterly Groundwater Monitoring Report – Third Quarter 2022  
Attachment 6 Monitoring Well Location Map

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# **Attachment 1**

## **RLWTF Quarterly Monitoring Report – Third Quarter 2022**

EPC-DO: 22-285

LA-UR-22-30624

Date: 10/31/2022

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### Condition No. 24: Monitoring Reports

Pursuant to permit Condition Number (No.) 24, the U.S. Department of Energy, National Nuclear Security Administration (NNSA) and Triad National Security, LLC (Triad) are required to submit a quarterly monitoring report by November 1, 2022, for the monitoring period of July 1, 2022, through September 30, 2022 (third quarter). The following permit conditions are addressed in Attachments 1 through 6 of this report.

- Quarterly Monitoring Report
  - ✓ Condition No.13 : Maintenance and Repair
  - ✓ Condition Nos. 25 and 26: RLWTF Influent Volumes
  - ✓ Condition No. 27: Discharge Volumes
  - ✓ Condition No. 29: Effluent Sampling
  - ✓ Condition No. 30: Soil Moisture Monitoring System for the Solar Evaporation Tank System
  - ✓ Condition No. 36: Groundwater Monitoring
  - ✓ Condition No. 41: Stabilization of Specific Units and Systems that have Ceased

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### Condition No. 13: Maintenance and Repair

*The Permittees shall submit to NMED a summary and description of the maintenance and repair activities performed on the Facility as part of the quarterly monitoring reports.*

- ✓ **Attachment 2** provides a summary of the maintenance and repair activities conducted at the Radioactive Liquid Waste Treatment Facility (RLWTF) during the third quarter 2022 monitoring period.

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### Condition No. 25: Influent Volumes: Low-Level Radioactive Waste Water

*The total daily and monthly volumes of RLW influent conveyed to the Facility shall be submitted to NMED in the quarterly monitoring reports.*

- ✓ **Attachment 3** provides the total daily and monthly volumes of low-level radioactive wastewater (RLW) received by the RLWTF during the third quarter 2022 monitoring period.

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### Condition No. 26: Influent Volumes: Transuranic Waste Water

*The total daily and monthly volumes of TRU influent received by the Facility shall be submitted to NMED in the quarterly monitoring reports.*

- ✓ **Attachment 3** provides the total daily and monthly volumes of transuranic (TRU) influent wastewater received by the RLWTF during the third quarter 2022 monitoring period.
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**Condition No. 27: Discharge Volumes**

*The Permittees shall measure and record the volume of treated wastewater discharged to the SET, MES and Outfall 051 on a daily basis.*

- ✓ **Attachment 3** provides the daily volume of treated effluent discharged to the National Pollutant Discharge Elimination System (NPDES) Outfall 051 during the third quarter 2022 monitoring period.
  - ✓ No treated effluent was discharged to either the Mechanical Evaporator System (MES) or the Solar Evaporative Tank System (SET) during the third quarter 2022 monitoring period.
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**Condition No. 29: Effluent Sampling**

*The Permittees shall sample and analyze effluent waste streams discharged to Outfall 051, the SET, and the MES.*

- ✓ **NPDES Outfall 051 Sampling.** Treated effluent from the RLWTF was discharged to NPDES Outfall 051 this quarter on the following dates:
  - July 6<sup>th</sup> and 14<sup>th</sup>
  - August 11<sup>th</sup>, 18<sup>th</sup>, and 30<sup>th</sup>
  - September 8<sup>th</sup> and 20<sup>th</sup>

Monthly sampling for all water contaminants listed in 20.6.2.3103 NMAC and all toxic pollutants as defined in 20.6.2.7.T(2) NMAC was completed on July 6<sup>th</sup>, August 11<sup>th</sup>, and September 8<sup>th</sup>, 2022. These analytical results are provided in **Attachment 4, Tables 1, 2, and 3**. The sample result for benzidine, collected on August 11, 2022, was rejected during data validation due to an insufficient analytical laboratory control sample recovery rate. **Table 2** includes the validated benzidine result collected for compliance with the NPDES Outfall Permit (Lab Method EPA 625.1) which was undetected.

All sample results from NPDES Outfall 051 this quarter were either not detected or less than 20.6.2.3103 NMAC standards and tap water screening levels for 20.6.2.7.T(2) NMAC analytes.

- ✓ **MES Sampling.** No treated effluent was discharged to the MES during the reporting period. Therefore, no effluent sampling from the MES was completed during the third quarter 2022 monitoring period.
  - ✓ **SET Sampling.** No treated effluent was discharged to the SET during the reporting period. Therefore, no effluent sampling from the SET was completed during the third quarter 2022 monitoring period.
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**Condition No. 30: Soil Moisture Monitoring System for the SET**

- ✓ No treated effluent was discharged to the SET during the third quarter 2022 monitoring period.
  - ✓ In accordance with Permit Condition No. 30, the SET-Soil Moisture Monitoring System Completion Report (EPC-DO: 22-132) was submitted to NMED on June 29, 2022, for review.
  - ✓ Baseline monitoring of all SET moisture monitoring boreholes continued in the third quarter with quarterly monitoring completed in August and September 2022.
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**Condition No. 36: Ground Water Monitoring**

*The Permittees shall collect ground water samples from the following ground water monitoring wells: MCA-RLW-1, MCA-RLW-2, and MCOI-6 on a quarterly basis and analyze the samples for TKN, NO<sub>3</sub>-N, TDS, Cl, F and perchlorate.*

- ✓ **Attachment 5** provides the complete ground water monitoring report from the quarterly sampling of perched/intermediate ground water monitoring well MCOI-6 on July 20, 2022.

Sample results from MCOI-6 for TKN, NO<sub>3</sub>+NO<sub>2</sub>-N, TDS, Cl, F, and ClO<sub>4</sub> are provided in **Attachment 5, Table 1**. These samples were submitted to GEL Laboratories, LLC for analysis. All results from the July 20, 2022, sampling event at MCOI-6 were below 20.6.2.3103 NMAC standards and 20.6.2.7.T NMAC guidance, with the exception of the following:

- NO<sub>3</sub>+NO<sub>2</sub>-N was detected at a concentration of 13.4 mg/L. The 20.6.2.3103 NMAC standard for NO<sub>3</sub>-N is 10 mg/L. The average NO<sub>3</sub>+NO<sub>2</sub>-N concentration at MCOI-6 during the 5-yr period from 2016 through 2021 was 10.9 mg/L with multiple exceedances of the 10 mg/L standard. Detections of NO<sub>3</sub>+NO<sub>2</sub>-N at MCOI-6 at concentrations greater than the ground water standard were previously identified and reported to NMED. Monitoring well MCOI-6 will continue to be routinely sampled for NO<sub>3</sub>+NO<sub>2</sub>-N in support of RLWTF and pursuant to the Compliance Order on Consent, June 2016 (Consent Order).
  - ClO<sub>4</sub> was detected at a concentration of 105 µg/L. The 20.6.2.7.T NMAC guidance for ClO<sub>4</sub> is 13.8 µg/L. The average ClO<sub>4</sub> concentration at MCOI-6 during the 5-yr period from 2016 through 2021 was 87.5 µg/L. Detections of ClO<sub>4</sub> at MCOI-6 at concentrations greater than the 20.6.2.7.T NMAC guidance screening levels were previously identified and reported to NMED. Monitoring well MCOI-6 will continue to be routinely sampled for ClO<sub>4</sub> in support of RLWTF and pursuant to the Consent Order.
- ✓ A quarterly sample was not collected from MCA-RLW-1 during this period due to the well being dry. Similarly, a quarterly sample was not collected from MCA-RLW-2 due to

insufficient water in the well. **Attachment 5** provides the complete ground water monitoring report for these alluvial wells collected on July 11, 2022.

- ✓ A map showing the location of ground water monitoring wells MCA-RLW-1, MCA-RLW-2, MCOI-6, R-1, R-14, R-46 and R-60 is provided in **Attachment 6**.

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**Condition No. 41: Stabilization of Specific Units and Systems That Have Ceased**

*The Permittees shall provide NMED quarterly progress reports describing stabilization activities for each quarter in accordance with the time periods and submittal dates required for monitoring reports in Condition 24.*

During the reporting period the following actions were completed in accordance with approved stabilization plans and/or work plans:

✓ **Clarifier #1**

- Stabilization activities for Clarifier #1 are being completed under the Stabilization Plan for the Low-Level Clarifier #1 submitted to NMED on December 4, 2018 (EPC-DO: 18-428). This workplan was approved by NMED on December 27, 2018.
- Removal of excess chemicals and process solids was completed during 2019, with notifications to NMED submitted as previously reported.
- The chemical feed system was dismantled in May 2021.
- A Request for an Extension of Time to complete stabilization activities at Clarifier #1 was submitted to NMED on July 28, 2022 (EPC-DO: 22-193). NMED approved the request for extension on August 22, 2022.
- No additional stabilization milestones were completed during the reporting period for this unit.

✓ **Clarifier #2**

- Stabilization activities for Clarifier #2 are being completed under the Stabilization Plan for Low-Level Clarifier #2 Tank submitted to NMED on January 25, 2019 (EPC-DO: 19-007). This workplan was approved by NMED on April 25, 2019.
- Removal of excess chemicals was completed during 2019 reporting periods with notifications to NMED completed as previously reported.
- The chemical feed system was dismantled in May 2021.

- An update was submitted to NMED this reporting period on August 30, 2022, (EPC-DO: 22-215) documenting that solids which could practicably be removed from the clarifier with the existing infrastructure has been completed, and Clarifier #2 is operationally empty. The remaining solids removal and completion of further stabilization activities will be completed at a future date.
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## **Attachment 2**

### **Quarterly Summary of Maintenance and Repair Activities Conducted at the RLWTF**

EPC-DO: 22-285

LA-UR-22-30624

Date: 10/31/2022

DP-1132 Report: Third Quarter 2022 RLWTF Maintenance

Structures	Description	Built	Task Type					Total
			PM	CO	MD	SR	UP	
Building 1	Original treatment bldg.	1963	36	4	0	0	0	40
Building 2	Original influent storage bldg.	1963	4	0	0	0	0	4
Building 66	TRU influent storage	1982	0	1	0	0	0	1
Building 90	100K Influent Storage tank	1982	0	0	0	0	0	0
Building 248	Low-level bottoms storage	1996	5	3	0	0	0	8
Building 250	Low-level influent storage	2009	18	2	0	0	0	20
Building 257	Mechanical Evaporator System	2010	1	0	0	0	0	1
TA52	Solar Evaporation Tank	2011	11	0	0	0	0	11
<b>Totals</b>			75	10	0	0	0	85

Task Types: PM - preventive maintenance MD - modification UP= Unplanned  
 CO - corrective maintenance SR - service request

DP-1132 Report: Third Quarter 2022 RLWTF Maintenance

TA-50-0001 Work Completion Report (07-01-2022 to 09-30-2022)

Unit	Work Order	WO	WO Type	Task Title
500001	00734531	01	CO	500001 REPLACE BALLAST IN ROOM 10
500001	00728894	01	CO	500001 PLC-3 TERMINAL BOX AS BUILT
500001	00724051	01	CO	500001 REPAIR SMALL LEAK ON THE SOUTH FRAC TANK
500001	00732400	01	CO	500001 TROUBLESHOOT AND RESTORE TANK LEVEL INDICATORS.
500001	00716052	01	PM	50-66/50-01 FAH 1YR PM, HEPA FILTERS (PLENUM) TESTING
500001	00724835	01	PM	500001 EW 1YR PM, EYEWASH STATIONS
500001	00723237	01	PM	50-1 EMERGENCY LIGHTS (M) PM
500001	00723235	01	PM	50-1 TRITIUM EXIT LIGHTS (M) PM
500001	00723199	01	PM	50-1 FEXT (1M) PM
500001	00723161	01	PM	500001 MICROFILTER 3 MONTH PUMP MAINTENANCE
500001	00723160	01	PM	500001 LUBE 6MO PM, HEATING & VENTILATION (MECHANICAL) 5 EA
500001	00722872	01	PM	50-1 RM 34B (1YR) FIT CALIBRATION 3 EA
500001	00722867	01	PM	50-1 RM24 ANNUAL SRO/HWE CONTROL CABINET CLEANING
500001	00723210	01	PM	50-0001 BHW 1MO PM (2 EA)
500001	00723203	01	PM	500001 PERFORM WEEKLY EYEWASH/ SAFETY SHOWER TESTING
500001	00723156	01	PM	50-1 T-21 PH TRANSMITTERS (6 MO) CALIBRATION
500001	00727820	01	PM	50-1-116B CM-003/HE-005: 1-YR PM (INSPECTION)
500001	00727815	01	PM	500001 CM-010/HE-008 (1YR) PM, MECH/ELECT MAINT
500001	00725710	01	PM	50-1 FEXT (1M) PM
500001	00725701	01	PM	50-1 TRITIUM EXIT LIGHTS (M) PM
500001	00725692	01	PM	50-1 EMERGENCY LIGHTS (M) PM
500001	00725623	01	PM	500001 ASE 3MO PM, EXHAUST STACK PUMP (3 EA)
500001	00725611	01	PM	50-1-116B CM-003/HE-005: 1-YR PM MECH/ELECT
500001	00725610	01	PM	50-1-60 CM-010/HE-008: 1-YR PM (INSPECTION)
500001	00725326	01	PM	500001 CM-11 (1YR) PM, ANSI INSPECTION
500001	00725654	01	PM	50-0001 BHW 1MO PM (2 EA)
500001	00725325	01	PM	500001 CM-11 (1YR) PM, MECHANICAL
500001	00725320	01	PM	500001 RM24 ANNUAL TK-25 LEVEL TRANSMITTER CALIBRATION
500001	00677642	01	PM	ARGON TANK - PRV 5 YR INSP/TEST/REPLACE 50-T-OS PM
500001	00725639	01	PM	500001 CA-4 (3 MONTH) AIR COMPRESSOR PM
500001	00725659	01	PM	500001 PERFORM WEEKLY EYEWASH/ SAFETY SHOWER TESTING
500001	00705771	01	PM	TA-50 FCP 6MO PM, FIRE ALARM SYSTEMS INSPECTION & TESTING
500001	00728288	01	PM	50-1 TRITIUM EXIT LIGHTS (M) PM
500001	00728270	01	PM	50-1 EMERGENCY LIGHTS (M) PM
500001	00728137	01	PM	500001-60/60A LT 1YR PM LEVEL INSTRUMENT VERIFICATION
500001	00708068	01	PM	50-1 HUE (A) PM
500001	00635037	01	PM	50-1 ELECTRICAL EQUIPMENT 5YR PM GROUP 5
500001	00730040	01	PM	500001 PV-008 6MO PM, (MECHANICAL)
500001	00728203	01	PM	50-1 FEXT (1M) PM
500001	00728221	01	PM	500001 PERFORM WEEKLY EYEWASH/ SAFETY SHOWER TESTING

DP-1132 Report: Third Quarter 2022 RLWTF Maintenance

TA-50-0250 Work Completion Report (07-01-2022 to 09-30-2022)

Unit	Work Order	WO	WO Type	Task Title
500250	00726203	01	CO	500250 REQUEST TO REPAIR PINHOLE LEAK ON RLW TANKER LINE IN
500250	00662622	01	CO	5000250 REPAIR OR REPLACE EMERGENCY EXIT LIGHTS THAT FAILED
500250	00723247	01	PM	500250 LTE (M) PM, EMERGENCY WALL LIGHTING
500250	00723245	01	PM	500250 LTET (M) PM, TRITIUM EMERGENCY EXIT LIGHT
500250	00723194	01	PM	500250 FEXT (M), FIRE EXTINGUISHERS PM
500250	00723175	01	PM	500250 LTNT (M) PM, NON-TRITIUM EMERGENCY EXIT LIGHT
500250	00723172	01	PM	500250 SHS 3MO PM, SAFETY SHOWER
500250	00723158	01	PM	50-250 GFCI (6M) SERVICE INSPECTIONS
500250	00722873	01	PM	500250 (A) VERIFY & ENSURE ACCURACY TANK LEVEL INDIC PM 6 EA
500250	00731936	01	PM	50-250 (1YR) FIT VERIFY ACCURACY 1 EA
500250	00725721	01	PM	500250 FEXT (M), FIRE EXTINGUISHERS PM
500250	00725322	01	PM	50-250 CM-1-HE-1 (1YR) MECH-ELECT MAINTENANCE PM
500250	00727821	01	PM	50-250 LTNT (A) PM, NON-TRITIUM EMERGENCY EXIT LIGHT
500250	00725700	01	PM	500250 LTE (M) PM, EMERGENCY WALL MOUNTED LIGHTING UNITS
500250	00725694	01	PM	500250 LTET (M) PM, TRITIUM EMERGENCY EXIT LIGHT
500250	00725323	01	PM	50-250 CM-1/HE-1 1YR ANSI INSPECTION PM
500250	00728287	01	PM	500250 LTE (M) PM, EMERGENCY WALL MOUNTED LIGHTING UNITS
500250	00728284	01	PM	500250 LTET (M) PM, TRITIUM EMERGENCY EXIT LIGHT
500250	00728271	01	PM	500250 LTET (M) PM, TRITIUM EMERGENCY EXIT LIGHT
500250	00728211	01	PM	500250 FEXT (M), FIRE EXTINGUISHERS PM

DP-1132 Report: Third Quarter 2022 RLWTF Maintenance

TA-52-0181 Work Completion Report (07-01-2022 to 09-30-2022)

Unit	Work Order	WO	WO Type	Task Title
				*** NO DATA TO REPORT FOR LISTED PERIOD.

TA-52-0182 Work Completion Report (07-01-2022 to 09-30-2022)

Unit	Work Order	WO	WO Type	Task Title
520182	00724743	01	PM	520182 (A) EMERGENCY LIGHTS PM
520182	00722368	01	PM	520182 (A) NON TRITIUM LIGHTS PM
520182	00722367	01	PM	520182 (A) FEXT PM
520182	00725658	01	PM	520182 (M) EMERGENCY LIGHTS PM
520182	00725651	01	PM	520182 (M) NON TRITIUM LIGHTS PM
520182	00725650	01	PM	520182 (M) FEXT PM
520182	00725629	01	PM	520182 (3M) FENCE LINE VERIFICATION
520182	00725628	01	PM	520182 (3M) SIGNAGE VERIFICATION FOR FENCE LINE
520182	00728242	01	PM	520182 (M) NON TRITIUM LIGHTS PM
520182	00728240	01	PM	520182 (M) EMERGENCY LIGHTS PM
520182	00728220	01	PM	520182 (M) FEXT PM

TA-52-0183 Work Completion Report (07-01-2022 to 09-30-2022)

Unit	Work Order	WO	WO Type	Task Title
				*** NO DATA TO REPORT FOR LISTED PERIOD.

DP-1132 Report: Third Quarter 2022 RLWTF Maintenance

TA-50-0002 Work Completion Report (07-01-2022 to 09-30-2022)

Unit	Work Order	WO	WO Type	Task Title
500002	00696305	01	PM	500002 (A) WATER TIGHTNESS MORTANDAD CANYON
500002	00725620	01	PM	50-2 TCA (6M) AUTO DUMP PM
500002	00725615	01	PM	50-2 CA (6M) MECHANICAL PM
500002	00730018	01	PM	500002 HUE 1YR PM

TA-50-0090 Work Completion Report (07-01-2022 to 09-30-2022)

Unit	Work Order	WO	WO Type	Task Title
				*** NO DATA TO REPORT FOR LISTED PERIOD.

TA-50-0066 Work Completion Report (07-01-2022 to 09-30-2022)

Unit	Work Order	WO	WO Type	Task Title
500066	00733694	01	CO	500066 TROUBLESHOOT WM-66 TANK LEVEL INSTRUMENTATION.

TA-50-0201 Work Completion Report (07-01-2022 to 09-30-2022)

Unit	Work Order	WO	WO Type	Task Title
				*** NO DATA TO REPORT FOR LISTED PERIOD.

TA-50-0248 Work Completion Report (07-01-2022 to 09-30-2022)

Unit	Work Order	WO	WO Type	Task Title
500248	00724418	01	CO	500248 PERFORM CIRCUIT TRACE ON HEAT TRACE FOR TRANSFER LINE
500248	00734770	01	CO	500248 TROUBLE SHOOT HEAT TRACE CONTROLLER FOR TRANSFER LINE
500248	00722019	01	CO	500248 REPAIR LEAK ON TRANSFER LINE TO SE TANK
500248	00723157	01	PM	50-248 MIXERS: 6-MO PM (LUBRICATION)
500248	00717325	01	PM	50-248 ULTRASONIC TANK: 3-YR INSPECTION (TK-A, B, C & D)
500248	00725637	01	PM	500248 PUMPS 3MO PM
500248	00725609	01	PM	50-248 ULTRASONIC TANK: 3-YR INSPECTION (TK-3 & TK-17)
500248	00730019	01	PM	50-248 HUE (A) PM

TA-50-0257 Work Completion Report (07-01-2022 to 09-30-2022)

Unit	Work Order	WO	WO Type	Task Title
500257	00728178	01	PM	50-257 EVAP BOILER (3M) PM

## DP-1132 Report: Third Quarter 2022 RLWTF Maintenance

## Acronyms used by LANL Maintenance:

ASE	air sampler, exhaust	LPT	lightning protection
BHW	boiler, hot water	LTE	lights, emergency
CA	compressed air	LTET	lights, emergency, tritium
DAD	dessicant air dryer	LTNT	lights, non-tritium
EB	exhaust bank	PRV	pressure reducing valve
EH	exhaust heater	PV	pump, vacuum
FAR	filter, air replaceable	RCA	radiological control area
FE	fan, exhaust	SHS	shower, safety
FEXT	fire extinguisher	SPH	sprinkler pipe, dry
HEPA	high-efficiency particulate air	SPW	sprinkler pipe, wet
HUE	heater unit, electric	TCA	tank, compressed air

# **Attachment 3**

## **RLWTF Daily Influent and Effluent Volumes**

EPC-DO: 22-285

LA-UR-22-30624

Date: 10/31/2022

**DP-1132 Report: Third Quarter 2022  
RLWTF Daily Influent and Effluent**

Date	Low-level Influent	Effluent MES	Effluent Outfall	Effluent SET	Transuranic Influent
Totals, 2022-Q3	415,442	0	434,185	0	146
Sub-total, July	146,858	0	128,137	0	0
Sub-total, August	169,871	0	185,654	0	146
Sub-total, Sept.	98,713	0	120,393	0	0

All flows are in Liters.

Flows listed are rounded to the nearest liter.

1-Jul	2,877	0	0	0	0
2-Jul	3,407	0	0	0	0
3-Jul	3,028	0	0	0	0
4-Jul	3,671	0	0	0	0
5-Jul	6,624	0	0	0	0
6-Jul	5,223	0	64,557	0	0
7-Jul	3,520	0	0	0	0
8-Jul	2,536	0	0	0	0
9-Jul	2,120	0	0	0	0
10-Jul	1,438	0	0	0	0
11-Jul	2,952	0	0	0	0
12-Jul	4,769	0	0	0	0
13-Jul	4,164	0	0	0	0
14-Jul	3,709	0	63,580	0	0
15-Jul	3,293	0	0	0	0
16-Jul	757	0	0	0	0
17-Jul	719	0	0	0	0
18-Jul	2,271	0	0	0	0
19-Jul	2,914	0	0	0	0
20-Jul	2,460	0	0	0	0
21-Jul	9,576	0	0	0	0
22-Jul	3,066	0	0	0	0
23-Jul	1,968	0	0	0	0
24-Jul	1,893	0	0	0	0
25-Jul	15,481	0	0	0	0
26-Jul	2,839	0	0	0	0
27-Jul	16,995	0	0	0	0
28-Jul	8,554	0	0	0	0
29-Jul	7,532	0	0	0	0
30-Jul	10,106	0	0	0	0
31-Jul	6,397	0	0	0	0

**DP-1132 Report: Third Quarter 2022  
RLWTF Daily Influent and Effluent**

<b>Date</b>	<b>Low-level Influent</b>	<b>Effluent MES</b>	<b>Effluent Outfall</b>	<b>Effluent SET</b>	<b>Transuranic Influent</b>
1-Aug	7,419	0	0	0	0
2-Aug	5,602	0	0	0	0
3-Aug	3,482	0	0	0	0
4-Aug	10,182	0	0	0	0
5-Aug	3,634	0	0	0	0
6-Aug	5,375	0	0	0	0
7-Aug	3,861	0	0	0	0
8-Aug	6,132	0	0	0	0
9-Aug	8,403	0	0	0	0
10-Aug	7,721	0	0	0	0
11-Aug	5,450	0	58,520	0	0
12-Aug	5,829	0	0	0	0
13-Aug	2,536	0	0	0	0
14-Aug	1,363	0	0	0	0
15-Aug	2,574	0	0	0	0
16-Aug	4,883	0	0	0	0
17-Aug	6,927	0	0	0	146
18-Aug	9,690	0	64,686	0	0
19-Aug	4,580	0	0	0	0
20-Aug	4,921	0	0	0	0
21-Aug	4,580	0	0	0	0
22-Aug	10,030	0	0	0	0
23-Aug	5,488	0	0	0	0
24-Aug	5,867	0	0	0	0
25-Aug	5,034	0	0	0	0
26-Aug	4,807	0	0	0	0
27-Aug	3,747	0	0	0	0
28-Aug	908	0	0	0	0
29-Aug	2,687	0	0	0	0
30-Aug	3,634	0	62,449	0	0
31-Aug	12,528	0	0	0	0

**DP-1132 Report: Third Quarter 2022**  
**RLWTF Daily Influent and Effluent**

<b>Date</b>	<b>Low-level Influent</b>	<b>Effluent MES</b>	<b>Effluent Outfall</b>	<b>Effluent SET</b>	<b>Transuranic Influent</b>
1-Sep	7,192	0	0	0	0
2-Sep	1,893	0	0	0	0
3-Sep	492	0	0	0	0
4-Sep	946	0	0	0	0
5-Sep	2,044	0	0	0	0
6-Sep	3,596	0	0	0	0
7-Sep	1,476	0	0	0	0
8-Sep	7,986	0	57,858	0	0
9-Sep	1,325	0	0	0	0
10-Sep	1,779	0	0	0	0
11-Sep	2,422	0	0	0	0
12-Sep	1,855	0	0	0	0
13-Sep	2,914	0	0	0	0
14-Sep	4,845	0	0	0	0
15-Sep	7,873	0	0	0	0
16-Sep	7,570	0	0	0	0
17-Sep	530	0	0	0	0
18-Sep	530	0	0	0	0
19-Sep	4,542	0	0	0	0
20-Sep	5,450	0	62,536	0	0
21-Sep	7,078	0	0	0	0
22-Sep	5,829	0	0	0	0
23-Sep	4,050	0	0	0	0
24-Sep	681	0	0	0	0
25-Sep	795	0	0	0	0
26-Sep	2,347	0	0	0	0
27-Sep	2,233	0	0	0	0
28-Sep	2,952	0	0	0	0
29-Sep	3,558	0	0	0	0
30-Sep	1,930	0	0	0	0

# **Attachment 4**

## Monthly Treated Effluent Sampling Results

EPC-DO: 22-285

LA-UR-22-30624

Date: 10/31/2022

Attachment 4

Table 1.. Analytical Results from the Monthly Sampling of RLWTF: Treated Effluent Discharged to NPDES Outfall 051 on July 6, 2022. Permit Condition No. 29.

Field Sample ID	Location ID	Sample Date	Parameter Code	Parameter Name	Report Result	Report Units <sup>1</sup>	Validation Qualifier <sup>2</sup>	Detected <sup>3</sup>	Field Preparation Code <sup>4</sup>	COC #	Sample Purpose <sup>5</sup>	Lab Method	Report Method Detection Limit <sup>6</sup>	Groundwater Limit <sup>7</sup>
NP051-22-235528	NPDES Outfall 051	07/06/2022	107-02-8	Acrolein	1.67	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	1.67	0.0415
NP051-22-235528	NPDES Outfall 051	07/06/2022	107-13-1	Acrylonitrile	1.67	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	1.67	0.523
NP051-22-235528	NPDES Outfall 051	07/06/2022	309-00-2	Aldrin	0.00665	ug/L	U	N	UF	2022-715	REG	SW-846-8081B	0.00665	0.00198
NP051-22-235528	NPDES Outfall 051	07/06/2022	Al	Aluminum	19.3	ug/L	U	N	F	2022-715	REG	EPA-200.8	19.3	5.000
NP051-22-235528	NPDES Outfall 051	07/06/2022	120-12-7	Anthrane	0.32	ug/L	U	N	UF	2022-715	REG	SW-846-8270E	0.32	1721.28
NP051-22-235528	NPDES Outfall 051	07/06/2022	120-12-7	Anthracene	0.32	ug/L	U	N	UF	2022-715	FD	SW-846-8270E	0.32	1721.28
NP051-22-235528	NPDES Outfall 051	07/06/2022	Sb	Antimony	1	ug/L	U	N	F	2022-715	REG	EPA-200.8	1	6
NP051-22-235528	NPDES Outfall 051	07/06/2022	12674-11-2	Aroclor-1016	0.0328	ug/L	U	N	UF	2022-715	REG	SW-846-8082A	0.0328	5
NP051-22-235528	NPDES Outfall 051	07/06/2022	11104-28-2	Aroclor-1221	0.0328	ug/L	U	N	UF	2022-715	REG	SW-846-8082A	0.0328	5
NP051-22-235528	NPDES Outfall 051	07/06/2022	11141-16-5	Aroclor-1232	0.0328	ug/L	U	N	UF	2022-715	REG	SW-846-8082A	0.0328	5
NP051-22-235528	NPDES Outfall 051	07/06/2022	53469-21-9	Aroclor-1242	0.0328	ug/L	U	N	UF	2022-715	REG	SW-846-8082A	0.0328	5
NP051-22-235528	NPDES Outfall 051	07/06/2022	12672-29-6	Aroclor-1248	0.0328	ug/L	U	N	UF	2022-715	REG	SW-846-8082A	0.0328	5
NP051-22-235528	NPDES Outfall 051	07/06/2022	11097-69-1	Aroclor-1254	0.0328	ug/L	U	N	UF	2022-715	REG	SW-846-8082A	0.0328	5
NP051-22-235528	NPDES Outfall 051	07/06/2022	11096-82-5	Aroclor-1260	0.0328	ug/L	U	N	UF	2022-715	REG	SW-846-8082A	0.0328	5
NP051-22-235528	NPDES Outfall 051	07/06/2022	As	Arsenic	2	ug/L	U	N	F	2022-715	REG	EPA-200.8	2	10
NP051-22-235528	NPDES Outfall 051	07/06/2022	1912-24-9	Atrazine	3.02	ug/L	U	N	UF	2022-715	REG	SW-846-8270E	3.02	3
NP051-22-235528	NPDES Outfall 051	07/06/2022	1912-24-9	Atrazine	3	ug/L	U	N	UF	2022-715	FD	SW-846-8270E	3	3
NP051-22-235528	NPDES Outfall 051	07/06/2022	103-33-3	Azobenzene	3.02	ug/L	U	N	UF	2022-715	REG	SW-846-8270E	3.02	0.7
NP051-22-235528	NPDES Outfall 051	07/06/2022	103-33-3	Azobenzene	3	ug/L	U	N	UF	2022-715	FD	SW-846-8270E	3	0.7
NP051-22-235528	NPDES Outfall 051	07/06/2022	Ba	Barium	0.67	ug/L	U	N	F	2022-715	REG	EPA-200.8	0.67	2,000
NP051-22-235528	NPDES Outfall 051	07/06/2022	71-43-2	Benzene	0.333	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	0.333	5
NP051-22-235528	NPDES Outfall 051	07/06/2022	92-87-5	Benzidine	3.92	ug/L	U	N	UF	2022-715	REG	SW-846-8270E	3.92	0.001
NP051-22-235528	NPDES Outfall 051	07/06/2022	92-87-5	Benzidine	3.9	ug/L	U	N	UF	2022-715	FD	SW-846-8270E	3.9	0.001
NP051-22-235528	NPDES Outfall 051	07/06/2022	50-32-8	Benzof(a)pyrene	0.302	ug/L	U	N	UF	2022-715	REG	SW-846-8270E	0.302	0.2
NP051-22-235528	NPDES Outfall 051	07/06/2022	50-32-8	Benzof(a)pyrene	0.3	ug/L	U	N	UF	2022-715	FD	SW-846-8270E	0.3	0.2
NP051-22-235528	NPDES Outfall 051	07/06/2022	205-99-2	Benzof(b)fluoranthene	0.302	ug/L	U	N	UF	2022-715	REG	SW-846-8270E	0.302	0.343
NP051-22-235528	NPDES Outfall 051	07/06/2022	205-99-2	Benzof(b)fluoranthene	0.3	ug/L	U	N	UF	2022-715	FD	SW-846-8270E	0.3	0.343
NP051-22-235528	NPDES Outfall 051	07/06/2022	207-08-9	Benzof(k)fluoranthene	0.302	ug/L	U	N	UF	2022-715	REG	SW-846-8270E	0.302	3.43
NP051-22-235528	NPDES Outfall 051	07/06/2022	207-08-9	Benzof(k)fluoranthene	0.3	ug/L	U	N	UF	2022-715	FD	SW-846-8270E	0.3	3.43
NP051-22-235528	NPDES Outfall 051	07/06/2022	Be	Beryllium	0.2	ug/L	U	N	F	2022-715	REG	EPA-200.8	0.2	4
NP051-22-235528	NPDES Outfall 051	07/06/2022	319-84-6	BHC(alpha)	0.00665	ug/L	U	N	UF	2022-715	REG	SW-846-8081B	0.00665	0.07
NP051-22-235528	NPDES Outfall 051	07/06/2022	319-85-7	BHC(beta)	0.00665	ug/L	U	N	UF	2022-715	REG	SW-846-8081B	0.00665	0.24
NP051-22-235528	NPDES Outfall 051	07/06/2022	58-89-9	BHC(gamma)	0.00665	ug/L	U	N	UF	2022-715	REG	SW-846-8081B	0.00665	0.42
NP051-22-235528	NPDES Outfall 051	07/06/2022	111-44-4	Bis(2-chloroethyl)ether	3.02	ug/L	U	N	UF	2022-715	REG	SW-846-8270E	3.02	0.14
NP051-22-235528	NPDES Outfall 051	07/06/2022	111-44-4	Bis(2-chloroethyl)ether	3	ug/L	U	N	UF	2022-715	FD	SW-846-8270E	3	0.14
NP051-22-235528	NPDES Outfall 051	07/06/2022	117-81-7	Bis(2-ethylhexyl)phthalate	0.302	ug/L	U	N	UF	2022-715	REG	SW-846-8270E	0.302	55.64
NP051-22-235528	NPDES Outfall 051	07/06/2022	117-81-7	Bis(2-ethylhexyl)phthalate	0.3	ug/L	U	N	UF	2022-715	FD	SW-846-8270E	0.3	55.64
NP051-22-235528	NPDES Outfall 051	07/06/2022	B	Boron	21.8	ug/L	J	Y	F	2022-715	REG	EPA-200.7	15.0	750
NP051-22-235528	NPDES Outfall 051	07/06/2022	75-27-4	Bromodichloromethane	0.333	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	0.333	1.34
NP051-22-235528	NPDES Outfall 051	07/06/2022	75-25-2	Bromoform	0.333	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	0.333	32.85
NP051-22-235528	NPDES Outfall 051	07/06/2022	74-83-9	Bromomethane	0.337	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	0.337	7.54
NP051-22-235528	NPDES Outfall 051	07/06/2022	Cd	Cadmium	0.3	ug/L	U	N	F	2022-715	REG	EPA-200.8	0.3	5
NP051-22-235528	NPDES Outfall 051	07/06/2022	56-23-5	Carbon Tetrachloride	0.333	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	0.333	5
NP051-22-235528	NPDES Outfall 051	07/06/2022	57-74-9	Chlordane(alpha/gamma)	0.0765	ug/L	U	N	UF	2022-715	REG	SW-846-8081B	0.0765	0.45
NP051-22-235528	NPDES Outfall 051	07/06/2022	Cl(-1)	Chloride	53	mg/L	NQ	Y	F	2022-715	REG	EPA-300.0	0.670	250
NP051-22-235528	NPDES Outfall 051	07/06/2022	108-90-7	Chlorobenzene	0.333	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	0.333	77.57
NP051-22-235528	NPDES Outfall 051	07/06/2022	67-66-3	Chloroform	4	ug/L	NQ	Y	UF	2022-715	REG	SW-846-8260D	0.333	100
NP051-22-235528	NPDES Outfall 051	07/06/2022	74-87-3	Chloromethane	0.333	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	0.333	20.3
NP051-22-235528	NPDES Outfall 051	07/06/2022	Cr	Chromium	3	ug/L	U	N	F	2022-715	REG	EPA-200.8	3	50
NP051-22-235528	NPDES Outfall 051	07/06/2022	Co	Cobalt	0.3	ug/L	U	N	F	2022-715	REG	EPA-200.8	0.3	50
NP051-22-235528	NPDES Outfall 051	07/06/2022	Cu	Copper	2	ug/L	NQ	Y	F	2022-715	REG	EPA-200.8	0.3	1,000
NP051-22-235528	NPDES Outfall 051	07/06/2022	CN(TOTAL)	Cyanide (Total)	0.00167	mg/L	U	N	UF	2022-715	REG	EPA-335.4	0.00167	0.2
NP051-22-235528	NPDES Outfall 051	07/06/2022	50-29-3	DDT[4,4']	0.0100	ug/L	U	N	UF	2022-715	REG	SW-846-8081B	0.0100	2.3
NP051-22-235528	NPDES Outfall 051	07/06/2022	106-93-4	Dibromomethane[1,2]	0.333	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	0.333	0.05
NP051-22-235528	NPDES Outfall 051	07/06/2022	74-95-3	Dibromomethane	0.333	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	0.333	8
NP051-22-235528	NPDES Outfall 051	07/06/2022	95-50-1	Dichlorobenzene[1,2-]	0.333	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	0.333	600
NP051-22-235528	NPDES Outfall 051	07/06/2022	106-46-7	Dichlorobenzene[1,4-]	0.333	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	0.333	75

Attachment 4

Table 1. Analytical Results from the Monthly Sampling of RLWTF: Treated Effluent Discharged to NPDES Outfall 051 on July 6, 2022. Permit Condition No. 29.

Field Sample ID	Location ID	Sample Date	Parameter Code	Parameter Name	Report Result	Report Units <sup>1</sup>	Validation Qualifier <sup>2</sup>	Detected <sup>3</sup>	Field Preparation Code <sup>4</sup>	COC #	Sample Purpose <sup>5</sup>	Lab Method	Report Method Detection Limit <sup>6</sup>	Groundwater Limit <sup>7</sup>
NP051-22-235528	NPDES Outfall 051	07/06/2022	91-94-1	Dichlorobenzidine[3,3']	3.02	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3.02	1.25
NP051-22-235576	NPDES Outfall 051	07/06/2022	91-94-1	Dichlorobenzidine[3,3']	3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	3	1.25
NP051-22-235528	NPDES Outfall 051	07/06/2022	75-71-8	Dichlorodifluoromethane	0.355	ug/L	U	N	UF	2022-715	REG	SW-846:8260D	0.355	197.2
NP051-22-235528	NPDES Outfall 051	07/06/2022	75-34-3	Dichloroethane[1,1-]	0.333	ug/L	U	N	UF	2022-715	REG	SW-846:8260D	0.333	25
NP051-22-235528	NPDES Outfall 051	07/06/2022	107-06-2	Dichloroethane[1,1-]	0.333	ug/L	U	N	UF	2022-715	REG	SW-846:8260D	0.333	5
NP051-22-235528	NPDES Outfall 051	07/06/2022	75-35-4	Dichloroethene[1,2-]	0.333	ug/L	U	N	UF	2022-715	REG	SW-846:8260D	0.333	7
NP051-22-235528	NPDES Outfall 051	07/06/2022	156-59-2	Dichloroethene[cis-1,2-]	0.333	ug/L	U	N	UF	2022-715	REG	SW-846:8260D	0.333	70
NP051-22-235528	NPDES Outfall 051	07/06/2022	156-60-5	Dichloroethene[trans-1,2-]	0.333	ug/L	U	N	UF	2022-715	REG	SW-846:8260D	0.333	100
NP051-22-235528	NPDES Outfall 051	07/06/2022	120-83-2	Dichlorophenol[2,4-]	3.02	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3.02	45.3
NP051-22-235576	NPDES Outfall 051	07/06/2022	120-83-2	Dichlorophenol[2,4-]	3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	3	45.3
NP051-22-235528	NPDES Outfall 051	07/06/2022	78-87-5	Dichloropropane[1,2-]	0.333	ug/L	U	N	UF	2022-715	REG	SW-846:8260D	0.333	5
NP051-22-235528	NPDES Outfall 051	07/06/2022	542-75-6	Dichloropropane[cis/trans-1,3-]	0.5	ug/L	U	N	UF	2022-715	REG	SW-846:8260D	0.5	47
NP051-22-235528	NPDES Outfall 051	07/06/2022	60-57-1	Dieldrin	0.01	ug/L	U	N	UF	2022-715	REG	SW-846:8081B	0.01	0.0175
NP051-22-235528	NPDES Outfall 051	07/06/2022	84-66-2	Diethylphthalate	0.302	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	0.302	14,800.5
NP051-22-235576	NPDES Outfall 051	07/06/2022	84-66-2	Diethylphthalate	0.3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	0.3	14,800.5
NP051-22-235528	NPDES Outfall 051	07/06/2022	131-11-3	Dimethyl Phthalate	0.302	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	0.302	611.6
NP051-22-235576	NPDES Outfall 051	07/06/2022	131-11-3	Dimethyl Phthalate	0.300	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	0.300	611.6
NP051-22-235528	NPDES Outfall 051	07/06/2022	84-74-2	Di-n-butylphthalate	0.302	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	0.302	884.8
NP051-22-235576	NPDES Outfall 051	07/06/2022	84-74-2	Di-n-butylphthalate	0.3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	0.3	884.8
NP051-22-235528	NPDES Outfall 051	07/06/2022	534-52-1	Dinitro-2-methylphenol[4,6-]	3.02	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3.02	1.52
NP051-22-235576	NPDES Outfall 051	07/06/2022	534-52-1	Dinitro-2-methylphenol[4,6-]	3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	3	1.52
NP051-22-235528	NPDES Outfall 051	07/06/2022	51-28-5	Dinitrophenol[2,4-]	5.03	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	5.03	38.67
NP051-22-235576	NPDES Outfall 051	07/06/2022	51-28-5	Dinitrophenol[2,4-]	5	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	5	38.67
NP051-22-235528	NPDES Outfall 051	07/06/2022	121-14-2	Dinitrotoluene[2,4-]	3.02	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3.02	2.37
NP051-22-235576	NPDES Outfall 051	07/06/2022	121-14-2	Dinitrotoluene[2,4-]	3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	3	2.37
NP051-22-235528	NPDES Outfall 051	07/06/2022	606-20-2	Dinitrotoluene[2,6-]	3.02	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3.02	0.49
NP051-22-235576	NPDES Outfall 051	07/06/2022	606-20-2	Dinitrotoluene[2,6-]	3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	3	0.49
NP051-22-235528	NPDES Outfall 051	07/06/2022	123-91-1	Dioxane[1,4-]	3.02	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3.02	4.59
NP051-22-235576	NPDES Outfall 051	07/06/2022	123-91-1	Dioxane[1,4-]	3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	3	4.59
NP051-22-235528	NPDES Outfall 051	07/06/2022	122-39-4	Diphenylamine	3.02	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3.02	122
NP051-22-235576	NPDES Outfall 051	07/06/2022	122-39-4	Diphenylamine	3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	3	122
NP051-22-235528	NPDES Outfall 051	07/06/2022	959-98-8	Endosulfan I	0.00665	ug/L	U	N	UF	2022-715	REG	SW-846:8081B	0.00665	98.7
NP051-22-235576	NPDES Outfall 051	07/06/2022	33213-65-9	Endosulfan II	0.01	ug/L	U	N	UF	2022-715	REG	SW-846:8081B	0.01	98.7
NP051-22-235528	NPDES Outfall 051	07/06/2022	72-20-8	Endrin	0.01	ug/L	U	N	UF	2022-715	REG	SW-846:8081B	0.01	2.23
NP051-22-235576	NPDES Outfall 051	07/06/2022	100-41-4	Ethylbenzene	0.333	ug/L	U	N	UF	2022-715	REG	SW-846:8260D	0.333	700
NP051-22-235528	NPDES Outfall 051	07/06/2022	206-44-0	Fluoranthene	0.302	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	0.302	802.2
NP051-22-235576	NPDES Outfall 051	07/06/2022	206-44-0	Fluoranthene	0.3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	0.3	802.2
NP051-22-235528	NPDES Outfall 051	07/06/2022	86-73-7	Fluorene	0.302	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	0.302	287.64
NP051-22-235576	NPDES Outfall 051	07/06/2022	86-73-7	Fluorene	0.3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	0.3	287.64
NP051-22-235528	NPDES Outfall 051	07/06/2022	F(-1)	Fluoride	0.033	mg/L	U	N	F	2022-715	REG	EPA:300.0	0.033	1.6
NP051-22-235576	NPDES Outfall 051	07/06/2022	76-44-8	Heptachlor	0.00665	ug/L	U	N	F	2022-715	REG	SW-846:8081B	0.00665	0.022
NP051-22-235528	NPDES Outfall 051	07/06/2022	118-74-1	Hexachlorobenzene	3.02	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3.02	0.10
NP051-22-235576	NPDES Outfall 051	07/06/2022	118-74-1	Hexachlorobenzene	3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	3	0.10
NP051-22-235528	NPDES Outfall 051	07/06/2022	87-68-3	Hexachlorobutadiene	3.02	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3.02	1.39
NP051-22-235576	NPDES Outfall 051	07/06/2022	87-68-3	Hexachlorobutadiene	3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	3	1.39
NP051-22-235528	NPDES Outfall 051	07/06/2022	77-47-4	Hexachlorocyclopentadiene	3.02	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3.02	0.41
NP051-22-235576	NPDES Outfall 051	07/06/2022	77-47-4	Hexachlorocyclopentadiene	3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	3	0.41
NP051-22-235528	NPDES Outfall 051	07/06/2022	67-72-1	Hexachloroethane	3.02	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3.02	3.28
NP051-22-235576	NPDES Outfall 051	07/06/2022	67-72-1	Hexachloroethane	3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	3	3.28
NP051-22-235528	NPDES Outfall 051	07/06/2022	2691-41-0	HMX	0.08	ug/L	U	N	UF	2022-715	REG	SW-846:8330B	0.08	1001.1
NP051-22-235576	NPDES Outfall 051	07/06/2022	Fe	Iron	30	ug/L	U	N	F	2022-715	REG	EPA:200.7	30	1.000
NP051-22-235528	NPDES Outfall 051	07/06/2022	78-59-1	Isophorone	3.52	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3.52	780.63
NP051-22-235576	NPDES Outfall 051	07/06/2022	78-59-1	Isophorone	3.5	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	3.5	780.63
NP051-22-235528	NPDES Outfall 051	07/06/2022	Pb	Lead	0.5	ug/L	U	N	F	2022-715	REG	EPA:200.8	0.5	15
NP051-22-235576	NPDES Outfall 051	07/06/2022	Mn	Manganese	2	ug/L	U	N	F	2022-715	REG	EPA:200.7	2	200
NP051-22-235528	NPDES Outfall 051	07/06/2022	Hg	Mercury	0.067	ug/L	U	N	UF	2022-715	REG	EPA:245.2	0.067	2
NP051-22-235576	NPDES Outfall 051	07/06/2022	Hg	Mercury	0.067	ug/L	U	N	F	2022-715	FD	EPA:245.2	0.067	2

Attachment 4

Table 1. Analytical Results from the Monthly Sampling of RLWTF Treated Effluent Discharged to NPDES Outfall 051 on July 6, 2022. Permit Condition No. 29.

Field Sample ID	Location ID	Sample Date	Parameter Code	Parameter Name	Report Result	Report Units <sup>1</sup>	Validation Qualifier <sup>2</sup>	Detected <sup>3</sup>	Field Preparation Code <sup>4</sup>	COC #	Sample Purpose <sup>5</sup>	Lab Method	Report Method Detection Limit <sup>6</sup>	Groundwater Limit <sup>7</sup>
NP051-22-235528	NPDES Outfall 051	07/06/2022	1634-04-4	Methyl tert-Butyl Ether	0.333	ug/L	U	N	UF	2022-715	REG	SW-846:8260D	0.333	100
NP051-22-235528	NPDES Outfall 051	07/06/2022	75-09-2	Methylene Chloride	0.5	ug/L	U	N	UF	2022-715	REG	SW-846:8260D	0.5	5
NP051-22-235528	NPDES Outfall 051	07/06/2022	90-12-0	Methylnaphthalene[1-]	0.302	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	0.302	11.38
NP051-22-235576	NPDES Outfall 051	07/06/2022	90-12-0	Methylnaphthalene[1-]	0.3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	0.3	11.38
NP051-22-235576	NPDES Outfall 051	07/06/2022	91-57-6	Methylnaphthalene[2-]	0.302	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	0.302	35.11
NP051-22-235576	NPDES Outfall 051	07/06/2022	91-57-6	Methylnaphthalene[2-]	0.3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	0.3	35.11
NP051-22-235552	NPDES Outfall 051	07/06/2022	Mo	Molybdenum	0.2	ug/L	U	N	F	2022-715	REG	EPA:200.8	0.2	1.000
NP051-22-235528	NPDES Outfall 051	07/06/2022	91-20-3	Naphthalene	0.302	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	0.302	30
NP051-22-235576	NPDES Outfall 051	07/06/2022	91-20-3	Naphthalene	0.3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	0.3	30
NP051-22-235552	NPDES Outfall 051	07/06/2022	Ni	Nickel	0.6	ug/L	U	N	F	2022-715	REG	EPA:200.8	0.6	200
NP051-22-235552	NPDES Outfall 051	07/06/2022	NO3+NO2-N	Nitrate-Nitrite as Nitrogen	1.01	mg/L	NQ	Y	F	2022-715	REG	EPA:353.2	0.0850	10
NP051-22-235588	NPDES Outfall 051	07/06/2022	NO3+NO2-N	Nitrate-Nitrite as Nitrogen	1.02	mg/L	NQ	Y	F	2022-715	FD	EPA:353.2	0.0850	10
NP051-22-235540	NPDES Outfall 051	07/06/2022	NO2	Nitrite	0.434	mg/L	J+	Y	F	2022-708	REG	EPA:300.0	0.0330	1
NP051-22-235528	NPDES Outfall 051	07/06/2022	98-95-3	Nitrobenzene	3.02	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3.02	1.40
NP051-22-235576	NPDES Outfall 051	07/06/2022	98-95-3	Nitrobenzene	3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	3	1.40
NP051-22-235528	NPDES Outfall 051	07/06/2022	55-18-5	Nitrosodimethylamine[N-]	3.02	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3.02	0.0017
NP051-22-235528	NPDES Outfall 051	07/06/2022	62-75-9	Nitrosodimethylamine[N-]	3	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3	0.0049
NP051-22-235528	NPDES Outfall 051	07/06/2022	924-16-3	Nitroso-di-n-butylamine[N-]	3.02	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3.02	0.03
NP051-22-235576	NPDES Outfall 051	07/06/2022	924-16-3	Nitroso-di-n-butylamine[N-]	3.02	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	3.02	0.03
NP051-22-235528	NPDES Outfall 051	07/06/2022	930-55-2	Nitrosopyrrolidine[N-]	3	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3	0.37
NP051-22-235576	NPDES Outfall 051	07/06/2022	930-55-2	Nitrosopyrrolidine[N-]	3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	3	0.37
NP051-22-235528	NPDES Outfall 051	07/06/2022	108-60-1	Oxybis(1-chloropropane)[2,2-]	3.02	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3.02	9.81
NP051-22-235576	NPDES Outfall 051	07/06/2022	108-60-1	Oxybis(1-chloropropane)[2,2-]	3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	3	9.81
NP051-22-235528	NPDES Outfall 051	07/06/2022	608-93-5	Pentachlorobenzene	3.02	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3.02	3.07
NP051-22-235576	NPDES Outfall 051	07/06/2022	608-93-5	Pentachlorobenzene	3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	3	3.07
NP051-22-235528	NPDES Outfall 051	07/06/2022	87-86-5	Pentachlorophenol	3.02	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3.02	1
NP051-22-235576	NPDES Outfall 051	07/06/2022	87-86-5	Pentachlorophenol	3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	3	1
NP051-22-235528	NPDES Outfall 051	07/06/2022	ClO4	Perchlorate	0.05	ug/L	U	N	UF	2022-715	REG	SW-846:6850	0.05	13.82
NP051-22-235528	NPDES Outfall 051	07/06/2022	355-46-4	Perfluorohexanesulfonic acid	0.651	ng/L	U	N	UF	2022-715	REG	EPA:537M	0.651	401
NP051-22-235528	NPDES Outfall 051	07/06/2022	1763-23-1	Perfluorooctanesulfonic acid	0.789	ng/L	U	N	UF	2022-715	REG	EPA:537M	0.789	60.16
NP051-22-235528	NPDES Outfall 051	07/06/2022	335-67-1	Perfluorooctanoic acid	0.789	ng/L	U	N	UF	2022-715	REG	EPA:537M	0.789	60.16
NP051-22-235528	NPDES Outfall 051	07/06/2022	pH	pH	7.200	SU		N	UF	2022-715	REG			6-9
NP051-22-235528	NPDES Outfall 051	07/06/2022	85-01-8	Phenanthrene	0.302	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	0.302	170.41
NP051-22-235576	NPDES Outfall 051	07/06/2022	85-01-8	Phenanthrene	0.3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	0.3	170.41
NP051-22-235528	NPDES Outfall 051	07/06/2022	108-95-2	Phenol	3.02	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3.02	5
NP051-22-235576	NPDES Outfall 051	07/06/2022	108-95-2	Phenol	3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	3	5
NP051-22-235528	NPDES Outfall 051	07/06/2022	1610-18-0	Prometon	3.02	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3.02	249.93
NP051-22-235576	NPDES Outfall 051	07/06/2022	1610-18-0	Prometon	3.00	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	3.00	249.93
NP051-22-235528	NPDES Outfall 051	07/06/2022	129-00-0	Pyrene	0.302	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	0.302	117.42
NP051-22-235576	NPDES Outfall 051	07/06/2022	129-00-0	Pyrene	0.300	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	0.300	117.42
NP051-22-235528	NPDES Outfall 051	07/06/2022	Ra-226+228	Radium-226 and Radium-228	0.590	pCi/L	J	Y	UF	2022-715	REG	Generic:Radium by Calculation	-	5
NP051-22-235528	NPDES Outfall 051	07/06/2022	121-82-4	RDX	0.0800	ug/L	U	N	UF	2022-715	REG	SW-846:8330B	0.0800	9.66
NP051-22-235552	NPDES Outfall 051	07/06/2022	Se	Selenium	1.50	ug/L	U	N	F	2022-715	REG	EPA:200.8	1.50	50
NP051-22-235576	NPDES Outfall 051	07/06/2022	Ag	Silver	0.300	ug/L	U	N	F	2022-715	REG	EPA:200.8	0.300	50
NP051-22-235528	NPDES Outfall 051	07/06/2022	100-42-5	Styrene	0.333	ug/L	U	N	UF	2022-715	REG	SW-846:8260D	0.333	100
NP051-22-235552	NPDES Outfall 051	07/06/2022	SO4(-2)	Sulfate	0.528	mg/L	NQ	Y	F	2022-715	REG	EPA:300.0	0.133	600
NP051-22-235588	NPDES Outfall 051	07/06/2022	SO4(-2)	Sulfate	0.543	mg/L	NQ	Y	F	2022-715	FD	EPA:300.0	0.133	600
NP051-22-235528	NPDES Outfall 051	07/06/2022	126-33-0	Sulfonate	3.02	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3.02	20.03
NP051-22-235576	NPDES Outfall 051	07/06/2022	126-33-0	Sulfonate	3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	3	20.03
NP051-22-235528	NPDES Outfall 051	07/06/2022	95-94-3	Tetrachlorobenzene[1,2,4,5]	3.02	ug/L	U	N	UF	2022-715	REG	SW-846:8270E	3.02	1.66
NP051-22-235576	NPDES Outfall 051	07/06/2022	95-94-3	Tetrachlorobenzene[1,2,4,5]	3	ug/L	U	N	UF	2022-715	FD	SW-846:8270E	3	1.66
NP051-22-235528	NPDES Outfall 051	07/06/2022	79-34-5	Tetrachloroethane[1,1,2,2-]	0.333	ug/L	U	N	UF	2022-715	REG	SW-846:8260D	0.333	10
NP051-22-235552	NPDES Outfall 051	07/06/2022	127-18-4	Tetrachloroethene	0.333	ug/L	U	N	UF	2022-715	REG	SW-846:8260D	0.333	5
NP051-22-235528	NPDES Outfall 051	07/06/2022	Tl	Thallium	0.6	ug/L	U	N	F	2022-715	REG	EPA:200.8	0.6	2

Attachment 4

Table 1.- Analytical Results from the Monthly Sampling of RLWTF Treated Effluent Discharged to NPDES Outfall 051 on July 6, 2022. Permit Condition No. 29.

Field Sample ID	Location ID	Sample Date	Parameter Code	Parameter Name	Report Result	Report Units <sup>1</sup>	Validation Qualifier <sup>2</sup>	Detected <sup>3</sup>	Field Preparation Code <sup>4</sup>	COC #	Sample Purpose <sup>5</sup>	Lab Method	Report Method Detection Limit <sup>6</sup>	Groundwater Limit <sup>7</sup>
NP051-22-235528	NPDES Outfall 051	07/06/2022	108-88-3	Toluene	0.333	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	0.333	1,000
NP051-22-235552	NPDES Outfall 051	07/06/2022	TDS	Total Dissolved Solids	140	mg/L	J	Y	F	2022-715	REG	EPA:160.1	3.40	1,000
NP051-22-235528	NPDES Outfall 051	07/06/2022	TKN	Total Kjeldahl Nitrogen	1.14	mg/L	NQ	Y	UF	2022-715	REG	EPA:351.2	0.0330	-
NP051-22-235528	NPDES Outfall 051	07/06/2022	8004-35-2	Toxaphene (Technical Grade)	0.150	ug/L	U	N	UF	2022-715	REG	SW-846-8081B	0.150	0.158
NP051-22-235528	NPDES Outfall 051	07/06/2022	120-82-1	Trichlorobenzene[1,2,4-]	0.333	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	0.333	70
NP051-22-235528	NPDES Outfall 051	07/06/2022	71-55-6	Trichloroethane[1,1,1-]	0.333	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	0.333	200
NP051-22-235528	NPDES Outfall 051	07/06/2022	79-00-5	Trichloroethane[1,1,2-]	0.333	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	0.333	5
NP051-22-235528	NPDES Outfall 051	07/06/2022	79-01-6	Trichloroethene	0.333	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	0.333	5
NP051-22-235528	NPDES Outfall 051	07/06/2022	75-69-4	Trichlorofluoromethane	0.333	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	0.333	1136.8
NP051-22-235528	NPDES Outfall 051	07/06/2022	95-95-4	Trichloropheno[2,4,5-]	3.02	ug/L	U	N	UF	2022-715	REG	SW-846-8270E	3.02	1,166
NP051-22-235576	NPDES Outfall 051	07/06/2022	95-95-4	Trichloropheno[2,4,5-]	3	ug/L	U	N	UF	2022-715	FD	SW-846-8270E	3	1,166
NP051-22-235528	NPDES Outfall 051	07/06/2022	88-06-2	Trichloropheno[2,4,6-]	3.02	ug/L	U	N	UF	2022-715	REG	SW-846-8270E	3.02	11.88
NP051-22-235576	NPDES Outfall 051	07/06/2022	88-06-2	Trichloropheno[2,4,6-]	3	ug/L	U	N	UF	2022-715	FD	SW-846-8270E	3	11.88
NP051-22-235528	NPDES Outfall 051	07/06/2022	118-96-7	Trinitrotoluene[2,4,6-]	0.08	ug/L	U	N	UF	2022-715	REG	SW-846-8330B	0.08	9.8
NP051-22-235528	NPDES Outfall 051	07/06/2022	U	Uranium	0.108	ug/L	J	Y	F	2022-715	REG	EPA:200.8	0.0670	30
NP051-22-235528	NPDES Outfall 051	07/06/2022	75-01-4	Vinyl Chloride	0.333	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	0.333	2
NP051-22-235528	NPDES Outfall 051	07/06/2022	1330-20-7	Xylene (Total)	1	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	1	620
NP051-22-235528	NPDES Outfall 051	07/06/2022	95-47-6	Xylene[1,2-]	0.333	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	0.333	193
NP051-22-235528	NPDES Outfall 051	07/06/2022	Xylene(m+p)	Xylene[1,3-]+Xylene[1,4-]	0.5	ug/L	U	N	UF	2022-715	REG	SW-846-8260D	0.5	396
NP051-22-235552	NPDES Outfall 051	07/06/2022	Zn	Zinc	44	ug/L	J	Y	F	2022-715	REG	EPA:200.7	3.30	10,000

Notes:

<sup>1</sup>ug/L - micrograms per liter.  
mg/L - milligrams per liter.  
ng/L - nanograms per liter.  
SU - standard units.  
pCi/L - picocuries per liter.

<sup>2</sup>U - The analyte is classified as not detected.

UJ - The analyte is classified as not detected, with an expectation that the reported result is more uncertain than usual.  
J - The analyte is classified as detected but the reported concentration value is expected to be more uncertain than usual.

NQ - No validation qualifier flag is associated with this result, and the analyte is classified as detected.

J+ - The analyte is classified as detected but the reported concentration value is expected to be more uncertain than usual with a potential positive bias.

<sup>3</sup>N - In the detected column means the analyte was not detected.

Y - In the detected column means the analyte was detected.

<sup>4</sup>UF - Unfiltered.

F - Filtered.

<sup>5</sup>REG - In the sample purpose column means the sample was a regular sample.

FD - In the sample purpose column means the sample was a field duplicate.

<sup>6</sup> There is not a Report Detection Limit for Radium-226 and Radium-228 since this result is calculated.

<sup>7</sup> Groundwater Limit represents standards for groundwater as identified in NMAC 20.6.2.3103 where available, otherwise the value represents NMED Risk Assessment Guidance, Table A-1, Tap Water Limit.

Groundwater Limit for N-nitrosodiphenylamine reported as diphenylamine, which represents NMED Risk Assessment Guidance, Table A-1, Tap Water Limit.

Groundwater Limit for combined Endosulfan I and Endosulfan II is 98.7 ug/L, which represents NMED Risk Assessment Guidance, Table A-1, Tap Water Limit.

Total Kjeldahl Nitrogen does not contain either a NMAC 20.6.2.3103 standard or NMED Risk Assessment Guidance, Table A-1, Tap Water Limit.

Attachment 4

Table 2. Analytical Results from the Monthly Sampling of RLWTF Treated Effluent Discharged to NPDES Outfall 051 on August 11, 2022. Permit Condition No. 29.

Field Sample ID	Location ID	Sample Date	Parameter Code	Parameter Name	Report Result	Report Units <sup>1</sup>	Validation Qualifier <sup>2</sup>	Detected <sup>3</sup>	Field Preparation Code <sup>4</sup>	COC #	Sample Purpose <sup>5</sup>	Lab Method	Report Method Detection Limit <sup>6</sup>	Groundwater Limit <sup>7</sup>
NP051-22-235529	NPDES Outfall 051	08/11/2022	107-02-8	Acrolein	1.67	ug/L	U	N	UF	2022-843	REG	SW-846:82600	1.67	0.0415
NP051-22-235529	NPDES Outfall 051	08/11/2022	107-13-1	Acrylonitrile	1.67	ug/L	U	N	UF	2022-843	REG	SW-846:82600	1.67	0.523
NP051-22-235529	NPDES Outfall 051	08/11/2022	309-00-2	Aldrin	0.00663	ug/L	U	N	UF	2022-843	REG	SW-846:8081B	0.00663	0.00198
NP051-22-235553	NPDES Outfall 051	08/11/2022	Al	Aluminum	19.3	ug/L	U	N	F	2022-843	REG	EPA:200.8	19.3	5.000
NP051-22-235529	NPDES Outfall 051	08/11/2022	120-12-7	Anthracene	0.3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	0.3	1721.28
NP051-22-235577	NPDES Outfall 051	08/11/2022	120-12-7	Anthracene	0.3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	0.3	1721.28
NP051-22-235553	NPDES Outfall 051	08/11/2022	Sb	Antimony	1	ug/L	U	N	F	2022-843	REG	EPA:200.8	1	6
NP051-22-235529	NPDES Outfall 051	08/11/2022	12674-11-2	Aroclor-1011	0.0334	ug/L	U	N	UF	2022-843	REG	SW-846:8082A	0.0334	5
NP051-22-235529	NPDES Outfall 051	08/11/2022	11104-28-2	Aroclor-1221	0.0334	ug/L	U	N	UF	2022-843	REG	SW-846:8082A	0.0334	5
NP051-22-235529	NPDES Outfall 051	08/11/2022	11141-16-5	Aroclor-1232	0.0334	ug/L	U	N	UF	2022-843	REG	SW-846:8082A	0.0334	5
NP051-22-235529	NPDES Outfall 051	08/11/2022	53469-21-9	Aroclor-1242	0.0334	ug/L	U	N	UF	2022-843	REG	SW-846:8082A	0.0334	5
NP051-22-235529	NPDES Outfall 051	08/11/2022	12672-29-6	Aroclor-1248	0.0334	ug/L	U	N	UF	2022-843	REG	SW-846:8082A	0.0334	5
NP051-22-235529	NPDES Outfall 051	08/11/2022	11097-69-1	Aroclor-1254	0.0334	ug/L	U	N	UF	2022-843	REG	SW-846:8082A	0.0334	5
NP051-22-235529	NPDES Outfall 051	08/11/2022	11096-82-5	Aroclor-1260	0.0334	ug/L	U	N	UF	2022-843	REG	SW-846:8082A	0.0334	5
NP051-22-235553	NPDES Outfall 051	08/11/2022	As	Arsenic	2	ug/L	U	N	F	2022-843	REG	EPA:200.8	2	10
NP051-22-235529	NPDES Outfall 051	08/11/2022	1912-24-9	Atrazine	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	3
NP051-22-235577	NPDES Outfall 051	08/11/2022	1912-24-9	Atrazine	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	3
NP051-22-235529	NPDES Outfall 051	08/11/2022	103-33-3	Azobenzene	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	0.7
NP051-22-235577	NPDES Outfall 051	08/11/2022	103-33-3	Azobenzene	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	0.7
NP051-22-235553	NPDES Outfall 051	08/11/2022	Ba	Barium	0.67	ug/L	U	N	F	2022-843	REG	EPA:200.8	0.67	2.000
NP051-22-235529	NPDES Outfall 051	08/11/2022	71-43-2	Benzene	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	5
NP051-22-235529	NPDES Outfall 051	08/11/2022	92-87-5	Benzidine	3.9	ug/L	R	N	UF	2022-843	REG	SW-846:8270E	3.9	0.001
NP051-22-235577	NPDES Outfall 051	08/11/2022	92-87-5	Benzidine	3.9	ug/L	R	N	UF	2022-843	REG	SW-846:8270E	3.9	0.001
NP051-22-254037	NPDES Outfall 051	08/11/2022	92-87-5	Benzidine	3.9	ug/L	UJ	N	UF	2022-845	REG	EPA:625.1	3.9	0.001
NP051-22-235529	NPDES Outfall 051	08/11/2022	92-87-5	Benzidine	3.93	ug/L	UJ	N	UF	2022-845	REG	EPA:625.1	3.93	0.001
NP051-22-235529	NPDES Outfall 051	08/11/2022	50-32-8	Benzo(a)pyrene	0.3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	0.3	0.2
NP051-22-235577	NPDES Outfall 051	08/11/2022	50-32-8	Benzo(a)pyrene	0.3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	0.3	0.2
NP051-22-235529	NPDES Outfall 051	08/11/2022	205-99-2	Benzo(b)fluoranthene	0.3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	0.3	0.343
NP051-22-235577	NPDES Outfall 051	08/11/2022	205-99-2	Benzo(b)fluoranthene	0.3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	0.3	0.343
NP051-22-235529	NPDES Outfall 051	08/11/2022	207-08-9	Benzo(k)fluoranthene	0.3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	0.3	3.43
NP051-22-235577	NPDES Outfall 051	08/11/2022	207-08-9	Benzo(k)fluoranthene	0.3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	0.3	3.43
NP051-22-235553	NPDES Outfall 051	08/11/2022	Be	Beryllium	0.2	ug/L	U	N	F	2022-843	REG	EPA:200.8	0.2	4
NP051-22-235529	NPDES Outfall 051	08/11/2022	319-84-6	BHC(alpha)-	0.00663	ug/L	U	N	UF	2022-843	REG	SW-846:8081B	0.00663	0.07
NP051-22-235529	NPDES Outfall 051	08/11/2022	319-85-7	BHC(beta)-	0.00663	ug/L	U	N	UF	2022-843	REG	SW-846:8081B	0.00663	0.24
NP051-22-235529	NPDES Outfall 051	08/11/2022	58-89-9	BHC(gamma)-	0.00663	ug/L	U	N	UF	2022-843	REG	SW-846:8081B	0.00663	0.42
NP051-22-235529	NPDES Outfall 051	08/11/2022	111-44-4	Bis(2-chloroethyl)ether	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	0.14
NP051-22-235577	NPDES Outfall 051	08/11/2022	111-44-4	Bis(2-chloroethyl)ether	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	0.14
NP051-22-235529	NPDES Outfall 051	08/11/2022	117-81-7	Bis(2-ethylhexyl)phthalate	0.3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	0.3	55.64
NP051-22-235577	NPDES Outfall 051	08/11/2022	117-81-7	Bis(2-ethylhexyl)phthalate	0.3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	0.3	55.64
NP051-22-235553	NPDES Outfall 051	08/11/2022	B	Boron	34.4	ug/L	J	Y	F	2022-843	REG	EPA:200.7	15	750
NP051-22-235529	NPDES Outfall 051	08/11/2022	75-27-4	Bromodichloromethane	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	1.34
NP051-22-235529	NPDES Outfall 051	08/11/2022	75-25-2	Bromoform	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	32.85
NP051-22-235529	NPDES Outfall 051	08/11/2022	74-83-9	Bromomethane	0.337	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.337	7.54
NP051-22-235553	NPDES Outfall 051	08/11/2022	Cd	Cadmium	0.3	ug/L	U	N	F	2022-843	REG	EPA:200.8	0.3	5
NP051-22-235529	NPDES Outfall 051	08/11/2022	56-23-5	Carbon Tetrachloride	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	5
NP051-22-235529	NPDES Outfall 051	08/11/2022	57-74-9	Chlordane(alpha/gamma)	0.0763	ug/L	U	N	UF	2022-843	REG	SW-846:8081B	0.0763	0.45
NP051-22-235553	NPDES Outfall 051	08/11/2022	Cl(-1)	Chloride	47.1	mg/L	NQ	Y	F	2022-843	REG	EPA:300.0	0.67	250
NP051-22-235529	NPDES Outfall 051	08/11/2022	108-90-7	Chlorobenzene	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	77.57
NP051-22-235529	NPDES Outfall 051	08/11/2022	67-66-3	Chloroform	1.98	ug/L	NQ	Y	UF	2022-843	REG	SW-846:82600	0.333	100
NP051-22-235529	NPDES Outfall 051	08/11/2022	74-87-3	Chloromethane	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	20.3
NP051-22-235553	NPDES Outfall 051	08/11/2022	Cr	Chromium	3	ug/L	U	N	F	2022-843	REG	EPA:200.8	3	50
NP051-22-235529	NPDES Outfall 051	08/11/2022	Co	Cobalt	0.333	ug/L	J	Y	F	2022-843	REG	EPA:200.8	0.3	50
NP051-22-235553	NPDES Outfall 051	08/11/2022	Cu	Copper	1.09	ug/L	J	Y	F	2022-843	REG	EPA:200.8	0.3	1,000
NP051-22-235529	NPDES Outfall 051	08/11/2022	CN(TOTAL)	Cyanide (Total)	0.00167	mg/L	U	N	UF	2022-843	REG	EPA:335.4	0.00167	0.2
NP051-22-235529	NPDES Outfall 051	08/11/2022	50-29-3	DDT(4,4')	0.00998	ug/L	U	N	UF	2022-843	REG	SW-846:8081B	0.00998	2.3
NP051-22-235529	NPDES Outfall 051	08/11/2022	106-93-4	Dibromomethane[1,2-]	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	0.05
NP051-22-235529	NPDES Outfall 051	08/11/2022	74-95-3	Dibromomethane	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	8
NP051-22-235529	NPDES Outfall 051	08/11/2022	95-50-1	Dichlorobenzene[1,2-]	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	600

Attachment 4

Table 2. Analytical Results from the Monthly Sampling of the Monthly Sampling of RWTF Treated Effluent Discharged to NPDES Outfall 051 on August 11, 2022. Permit Condition No. 29.

Field Sample ID	Location ID	Sample Date	Parameter Code	Parameter Name	Report Result	Report Units <sup>1</sup>	Validation Qualifier <sup>2</sup>	Detected <sup>3</sup>	Field Preparation Code <sup>4</sup>	COC #	Sample Purpose <sup>5</sup>	Lab Method	Report Method Detection Limit <sup>6</sup>	Groundwater Limit <sup>7</sup>
NP051-22-235529	NPDES Outfall 051	08/11/2022	106-46-7	Dichlorobenzene[1,4-]	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	75
NP051-22-235529	NPDES Outfall 051	08/11/2022	91-94-1	Dichlorobenzidine[3,3'-]	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	1.25
NP051-22-235577	NPDES Outfall 051	08/11/2022	91-94-1	Dichlorobenzidine[3,3'-]	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	1.25
NP051-22-235529	NPDES Outfall 051	08/11/2022	75-71-8	Dichlorodifluoromethane	0.355	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.355	197.2
NP051-22-235529	NPDES Outfall 051	08/11/2022	75-34-3	Dichloroethane[1,1-]	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	25
NP051-22-235529	NPDES Outfall 051	08/11/2022	107-06-2	Dichloroethane[1,2-]	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	5
NP051-22-235529	NPDES Outfall 051	08/11/2022	75-35-4	Dichloroethene[1,1-]	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	7
NP051-22-235529	NPDES Outfall 051	08/11/2022	156-59-2	Dichloroethene[cis-1,2-]	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	70
NP051-22-235529	NPDES Outfall 051	08/11/2022	156-50-5	Dichloroethene[trans-1,2-]	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	100
NP051-22-235529	NPDES Outfall 051	08/11/2022	120-83-2	Dichlorophenol[2,4-]	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	45.3
NP051-22-235577	NPDES Outfall 051	08/11/2022	120-83-2	Dichlorophenol[2,4-]	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	45.3
NP051-22-235529	NPDES Outfall 051	08/11/2022	78-87-5	Dichloropropane[1,2-]	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	5
NP051-22-235529	NPDES Outfall 051	08/11/2022	542-75-6	Dichloropropene[cis/trans-1,3-]	0.5	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.5	4.7
NP051-22-235529	NPDES Outfall 051	08/11/2022	60-57-1	Dieldrin	0.00998	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.00998	0.0175
NP051-22-235529	NPDES Outfall 051	08/11/2022	84-66-2	Diethylphthalate	0.3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	0.3	14,800.5
NP051-22-235577	NPDES Outfall 051	08/11/2022	84-66-2	Diethylphthalate	0.3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	0.3	14,800.5
NP051-22-235529	NPDES Outfall 051	08/11/2022	131-11-3	Dimethyl Phthalate	0.3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	0.3	611.6
NP051-22-235577	NPDES Outfall 051	08/11/2022	131-11-3	Dimethyl Phthalate	0.3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	0.3	611.6
NP051-22-235529	NPDES Outfall 051	08/11/2022	84-74-2	Di-n-butylphthalate	0.3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	0.3	884.8
NP051-22-235577	NPDES Outfall 051	08/11/2022	84-74-2	Di-n-butylphthalate	0.3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	0.3	884.8
NP051-22-235529	NPDES Outfall 051	08/11/2022	534-52-1	Dinitro-2-methylphenol[4,6-]	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	1.52
NP051-22-235577	NPDES Outfall 051	08/11/2022	534-52-1	Dinitro-2-methylphenol[4,6-]	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	1.52
NP051-22-235529	NPDES Outfall 051	08/11/2022	51-28-5	Dinitrophenol[2,4-]	5	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	5	38.67
NP051-22-235577	NPDES Outfall 051	08/11/2022	51-28-5	Dinitrophenol[2,4-]	4.99	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	4.99	38.67
NP051-22-235529	NPDES Outfall 051	08/11/2022	121-14-2	Dinitrotoluene[2,4-]	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	2.37
NP051-22-235577	NPDES Outfall 051	08/11/2022	121-14-2	Dinitrotoluene[2,4-]	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	2.37
NP051-22-235529	NPDES Outfall 051	08/11/2022	606-20-2	Dinitrotoluene[2,6-]	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	0.49
NP051-22-235577	NPDES Outfall 051	08/11/2022	606-20-2	Dinitrotoluene[2,6-]	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	0.49
NP051-22-235529	NPDES Outfall 051	08/11/2022	123-91-1	Dioxane[1,4-]	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	4.59
NP051-22-235577	NPDES Outfall 051	08/11/2022	123-91-1	Dioxane[1,4-]	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	4.59
NP051-22-235529	NPDES Outfall 051	08/11/2022	122-39-4	Diphenylamine	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	122
NP051-22-235577	NPDES Outfall 051	08/11/2022	122-39-4	Diphenylamine	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	122
NP051-22-235529	NPDES Outfall 051	08/11/2022	959-98-8	Diphenylamine	0.00663	ug/L	U	N	UF	2022-843	REG	SW-846:8081B	0.00663	98.7
NP051-22-235577	NPDES Outfall 051	08/11/2022	959-98-8	Diphenylamine	0.00998	ug/L	U	N	UF	2022-843	REG	SW-846:8081B	0.00998	98.7
NP051-22-235529	NPDES Outfall 051	08/11/2022	33213-65-9	Endosulfan II	0.00998	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.00998	2.23
NP051-22-235577	NPDES Outfall 051	08/11/2022	72-20-8	Endrin	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	700
NP051-22-235529	NPDES Outfall 051	08/11/2022	100-41-4	Ethylbenzene	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	0.3	802.2
NP051-22-235577	NPDES Outfall 051	08/11/2022	100-41-4	Ethylbenzene	0.3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	0.3	802.2
NP051-22-235529	NPDES Outfall 051	08/11/2022	206-44-0	Fluoranthene	0.3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	0.3	287.64
NP051-22-235577	NPDES Outfall 051	08/11/2022	206-44-0	Fluoranthene	0.3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	0.3	287.64
NP051-22-235529	NPDES Outfall 051	08/11/2022	86-73-7	Fluorene	0.3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	0.3	287.64
NP051-22-235577	NPDES Outfall 051	08/11/2022	86-73-7	Fluorene	0.3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	0.3	287.64
NP051-22-235529	NPDES Outfall 051	08/11/2022	F(1)	Fluoride	0.0330	mg/L	U	N	F	2022-843	REG	EPA:300.0	0.033	1.6
NP051-22-235577	NPDES Outfall 051	08/11/2022	76-44-8	Heptachlor	0.00663	ug/L	U	N	UF	2022-843	REG	SW-846:8081B	0.00663	0.022
NP051-22-235529	NPDES Outfall 051	08/11/2022	76-44-8	Heptachlor	3	ug/L	U	N	UF	2022-843	REG	SW-846:8081B	3	0.10
NP051-22-235577	NPDES Outfall 051	08/11/2022	118-74-1	Hexachlorobenzene	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	0.10
NP051-22-235529	NPDES Outfall 051	08/11/2022	118-74-1	Hexachlorobenzene	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	0.10
NP051-22-235577	NPDES Outfall 051	08/11/2022	87-68-3	Hexachlorobutadiene	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	1.39
NP051-22-235529	NPDES Outfall 051	08/11/2022	87-68-3	Hexachlorobutadiene	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	1.39
NP051-22-235529	NPDES Outfall 051	08/11/2022	77-47-4	Hexachlorocyclopentadiene	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	0.41
NP051-22-235577	NPDES Outfall 051	08/11/2022	77-47-4	Hexachlorocyclopentadiene	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	0.41
NP051-22-235529	NPDES Outfall 051	08/11/2022	67-72-1	Hexachloroethane	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	3.28
NP051-22-235577	NPDES Outfall 051	08/11/2022	67-72-1	Hexachloroethane	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	3.28
NP051-22-235529	NPDES Outfall 051	08/11/2022	67-72-1	Hexachloroethane	0.796	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	0.796	1001.1
NP051-22-235577	NPDES Outfall 051	08/11/2022	2691-41-0	HMX	30	ug/L	U	N	F	2022-843	REG	EPA:200.7	30	1,000
NP051-22-235529	NPDES Outfall 051	08/11/2022	Fe	Iron	3.5	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3.5	780.63
NP051-22-235577	NPDES Outfall 051	08/11/2022	78-59-1	Isophorone	3.5	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3.5	780.63
NP051-22-235529	NPDES Outfall 051	08/11/2022	78-59-1	Isophorone	3.5	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3.5	780.63
NP051-22-235577	NPDES Outfall 051	08/11/2022	Pb	Lead	0.5	ug/L	U	N	F	2022-843	REG	EPA:200.8	0.5	15
NP051-22-235529	NPDES Outfall 051	08/11/2022	Pb	Lead	0.5	ug/L	U	N	UF	2022-844	REG	EPA:200.8	0.5	15
NP051-22-235577	NPDES Outfall 051	08/11/2022	Mn	Manganese	2	ug/L	U	N	F	2022-843	REG	EPA:200.7	2	200
NP051-22-235529	NPDES Outfall 051	08/11/2022	Hg	Mercury	0.067	ug/L	U	N	UF	2022-843	REG	EPA:245.2	0.067	2

Attachment 4

Table 2. Analytical Results from the Monthly Sampling of the Monthly Sampling of RWTF Treated Effluent Discharged to NPDES Outfall 051 on August 11, 2022. Permit Condition No. 29.

Field Sample ID	Location ID	Sample Date	Parameter Code	Parameter Name	Report Result	Report Units <sup>1</sup>	Validation Qualifier <sup>2</sup>	Detected <sup>3</sup>	Field Preparation Code <sup>4</sup>	COC #	Sample Purpose <sup>5</sup>	Lab Method	Report Method Detection Limit <sup>6</sup>	Groundwater Limit <sup>7</sup>
NP051-22-235553	NPDES Outfall 051	08/11/2022	Hg	Mercury	0.067	ug/L	U	N	F	2022-843	REG	EPA:245.2	0.067	2
NP051-22-235529	NPDES Outfall 051	08/11/2022	1634-04-4	Methyl tert-Butyl Ether	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	100
NP051-22-235529	NPDES Outfall 051	08/11/2022	75-09-2	Methylene Chloride	0.55	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.5	5
NP051-22-235529	NPDES Outfall 051	08/11/2022	90-12-0	Methylnaphthalene[1-]	0.3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	0.3	11.38
NP051-22-235577	NPDES Outfall 051	08/11/2022	90-12-0	Methylnaphthalene[1-]	0.3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	0.3	11.38
NP051-22-235529	NPDES Outfall 051	08/11/2022	91-57-6	Methylnaphthalene[2-]	0.3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	0.3	35.11
NP051-22-235577	NPDES Outfall 051	08/11/2022	91-57-6	Methylnaphthalene[2-]	0.3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	0.3	35.11
NP051-22-235553	NPDES Outfall 051	08/11/2022	Mo	Molybdenum	0.2	ug/L	U	N	F	2022-843	REG	EPA:200.8	0.2	1,000
NP051-22-235529	NPDES Outfall 051	08/11/2022	91-20-3	Naphthalene	0.3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	0.3	30
NP051-22-235577	NPDES Outfall 051	08/11/2022	91-20-3	Naphthalene	0.3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	0.3	30
NP051-22-235553	NPDES Outfall 051	08/11/2022	Ni	Nickel	1.6	ug/L	U	N	F	2022-843	REG	EPA:200.8	0.6	200
NP051-22-235553	NPDES Outfall 051	08/11/2022	NO3+NO2-N	Nitrate-Nitrite as Nitrogen	0.12	mg/L	NQ	Y	F	2022-843	REG	EPA:353.2	0.085	10
NP051-22-235589	NPDES Outfall 051	08/11/2022	NO3+NO2-N	Nitrate-Nitrite as Nitrogen	1.12	mg/L	NQ	Y	F	2022-843	FD	EPA:353.2	0.085	10
NP051-22-235541	NPDES Outfall 051	08/11/2022	NO2	Nitrite	0.635	mg/L	NQ	Y	F	2022-843	REG	EPA:300.0	0.033	1
NP051-22-235529	NPDES Outfall 051	08/11/2022	98-95-3	Nitrobenzene	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	1.40
NP051-22-235577	NPDES Outfall 051	08/11/2022	98-95-3	Nitrobenzene	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	1.40
NP051-22-235529	NPDES Outfall 051	08/11/2022	55-18-5	Nitrosodimethylamine[N-]	55-18-5	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	0.0017
NP051-22-235577	NPDES Outfall 051	08/11/2022	55-18-5	Nitrosodimethylamine[N-]	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	0.0017
NP051-22-235529	NPDES Outfall 051	08/11/2022	62-75-9	Nitrosodimethylamine[N-]	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	0.0049
NP051-22-235577	NPDES Outfall 051	08/11/2022	62-75-9	Nitrosodimethylamine[N-]	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	0.0049
NP051-22-235529	NPDES Outfall 051	08/11/2022	924-16-3	Nitroso-di-n-butylamine[N-]	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	0.03
NP051-22-235577	NPDES Outfall 051	08/11/2022	924-16-3	Nitroso-di-n-butylamine[N-]	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	0.03
NP051-22-235529	NPDES Outfall 051	08/11/2022	930-55-2	Nitrosopyrrolidine[N-]	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	0.37
NP051-22-235577	NPDES Outfall 051	08/11/2022	930-55-2	Nitrosopyrrolidine[N-]	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	0.37
NP051-22-235529	NPDES Outfall 051	08/11/2022	108-60-1	Oxybis[1-chloropropane][2,2-]	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	9.81
NP051-22-235577	NPDES Outfall 051	08/11/2022	108-60-1	Oxybis[1-chloropropane][2,2-]	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	9.81
NP051-22-235529	NPDES Outfall 051	08/11/2022	608-93-5	Pentachlorobenzene	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	3.07
NP051-22-235577	NPDES Outfall 051	08/11/2022	608-93-5	Pentachlorobenzene	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	3.07
NP051-22-235529	NPDES Outfall 051	08/11/2022	87-86-5	Pentachlorophenol	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	1
NP051-22-235577	NPDES Outfall 051	08/11/2022	87-86-5	Pentachlorophenol	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	1
NP051-22-235529	NPDES Outfall 051	08/11/2022	ClO4	Perchlorate	0.05	ug/L	U	N	UF	2022-843	REG	SW-846:6850	0.05	13.82
NP051-22-235577	NPDES Outfall 051	08/11/2022	355-46-4	Perfluorohexanesulfonic acid	0.681	ng/L	U	N	UF	2022-843	REG	EPA:537M	0.681	401
NP051-22-235529	NPDES Outfall 051	08/11/2022	1763-23-1	Perfluorooctanesulfonic acid	0.825	ng/L	U	N	UF	2022-843	REG	EPA:537M	0.825	60.16
NP051-22-235577	NPDES Outfall 051	08/11/2022	335-67-1	Perfluorooctanoic acid	0.825	ng/L	U	N	UF	2022-843	REG	EPA:537M	0.825	60.16
NP051-22-235529	NPDES Outfall 051	08/11/2022	pH	pH	7.4	SU							6-9	
NP051-22-235577	NPDES Outfall 051	08/11/2022	85-01-8	Phenanthrene	0.3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	0.3	170.41
NP051-22-235529	NPDES Outfall 051	08/11/2022	85-01-8	Phenanthrene	0.3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	0.3	170.41
NP051-22-235529	NPDES Outfall 051	08/11/2022	108-95-2	Phenol	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	5
NP051-22-235577	NPDES Outfall 051	08/11/2022	108-95-2	Phenol	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	5
NP051-22-235529	NPDES Outfall 051	08/11/2022	1610-18-0	Prometon	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	249.93
NP051-22-235577	NPDES Outfall 051	08/11/2022	1610-18-0	Prometon	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	249.93
NP051-22-235529	NPDES Outfall 051	08/11/2022	129-00-0	Pyrene	0.3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	0.3	117.42
NP051-22-235577	NPDES Outfall 051	08/11/2022	129-00-0	Pyrene	0.3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	0.3	117.42
NP051-22-235529	NPDES Outfall 051	08/11/2022	Ra-226+228	Radium-226 and Radium-228	0.187	pCi/L	UJ	Y	UF	2022-843	REG	Generic:Radium by Calculation	-	5
NP051-22-235577	NPDES Outfall 051	08/11/2022	121-82-4	RDX	0.0796	ug/L	U	N	UF	2022-843	REG	SW-846:8330B	0.0796	9.66
NP051-22-235529	NPDES Outfall 051	08/11/2022	Se	Selenium	1.5	ug/L	U	N	F	2022-843	REG	EPA:200.8	1.5	50
NP051-22-235577	NPDES Outfall 051	08/11/2022	Ag	Silver	0.3	ug/L	U	N	F	2022-843	REG	EPA:200.8	0.3	50
NP051-22-235529	NPDES Outfall 051	08/11/2022	100-42-5	Styrene	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	100
NP051-22-235577	NPDES Outfall 051	08/11/2022	SO4(-2)	Sulfate	0.496	mg/L	NQ	Y	F	2022-843	REG	EPA:300.0	0.133	600
NP051-22-235529	NPDES Outfall 051	08/11/2022	SO4(-2)	Sulfate	0.489	mg/L	NQ	Y	F	2022-843	FD	EPA:300.0	0.133	600
NP051-22-235577	NPDES Outfall 051	08/11/2022	126-33-0	Sulfolane	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	20.03
NP051-22-235529	NPDES Outfall 051	08/11/2022	126-33-0	Sulfolane	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	20.03
NP051-22-235529	NPDES Outfall 051	08/11/2022	95-94-3	Tetrachlorobenzene[1,2,4,5]	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	1.66
NP051-22-235577	NPDES Outfall 051	08/11/2022	95-94-3	Tetrachlorobenzene[1,2,4,5]	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	1.66
NP051-22-235529	NPDES Outfall 051	08/11/2022	79-34-5	Tetrachloroethane[1,1,2,2-]	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	10
NP051-22-235577	NPDES Outfall 051	08/11/2022	127-18-4	Tetrachloroethane	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	5
NP051-22-235529	NPDES Outfall 051	08/11/2022	Tl	Thallium	0.6	ug/L	U	N	F	2022-843	REG	EPA:200.8	0.6	2
NP051-22-235577	NPDES Outfall 051	08/11/2022	Tl	Thallium	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	1,000
NP051-22-235529	NPDES Outfall 051	08/11/2022	108-88-3	Toluene	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	1,000

Attachment 4

Table 2. Analytical Results from the Monthly Sampling of RLUWF Treated Effluent Discharged to NPDES Outfall 051 on August 11, 2022. Permit Condition No. 29.

Field Sample ID	Location ID	Sample Date	Parameter Code	Parameter Name	Report Result	Report Units <sup>1</sup>	Validation Qualifier <sup>2</sup>	Detected <sup>3</sup>	Field Preparation Code <sup>4</sup>	COC #	Sample Purpose <sup>5</sup>	Lab Method	Report Method Detection Limit <sup>6</sup>	Groundwater Limit <sup>7</sup>
NP051-22-235553	NPDES Outfall 051	08/11/2022	TDS	Total Dissolved Solids	1.26	mg/L	NQ	Y	F	2022-843	REG	EPA:160.1	2.38	1,000
NP051-22-235529	NPDES Outfall 051	08/11/2022	TKN	Total Kjeldahl Nitrogen	0.479	mg/L	J+	Y	UF	2022-843	REG	EPA:351.2	0.033	-
NP051-22-235529	NPDES Outfall 051	08/11/2022	8001-35-2	Toxaphene (Technical Grade)	0.15	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.15	0.158
NP051-22-235529	NPDES Outfall 051	08/11/2022	120-82-1	Trichlorobenzene [1,2,4-]	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	70
NP051-22-235529	NPDES Outfall 051	08/11/2022	71-55-6	Trichloroethane [1,1,1-]	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	200
NP051-22-235529	NPDES Outfall 051	08/11/2022	79-00-5	Trichloroethane [1,1,2-]	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	5
NP051-22-235529	NPDES Outfall 051	08/11/2022	79-01-6	Trichloroethene	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	5
NP051-22-235529	NPDES Outfall 051	08/11/2022	75-69-4	Trichlorofluoromethane	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	1136.8
NP051-22-235529	NPDES Outfall 051	08/11/2022	95-95-4	Trichlorophenol [2,4,5-]	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	1,166
NP051-22-235577	NPDES Outfall 051	08/11/2022	95-95-4	Trichlorophenol [2,4,5-]	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	1,166
NP051-22-235529	NPDES Outfall 051	08/11/2022	88-06-2	Trichlorophenol [2,4,6-]	3	ug/L	U	N	UF	2022-843	REG	SW-846:8270E	3	11.88
NP051-22-235529	NPDES Outfall 051	08/11/2022	88-06-2	Trichlorophenol [2,4,6-]	3	ug/L	U	N	UF	2022-843	FD	SW-846:8270E	3	11.88
NP051-22-235529	NPDES Outfall 051	08/11/2022	118-96-7	Trinitrotoluene [2,4,6-]	0.0796	ug/L	U	N	UF	2022-843	REG	SW-846:8330B	0.0796	9.8
NP051-22-235553	NPDES Outfall 051	08/11/2022	U	Uranium	0.144	ug/L	J	Y	F	2022-843	REG	EPA:200.8	0.067	30
NP051-22-235529	NPDES Outfall 051	08/11/2022	75-01-4	Vinyl Chloride	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	2
NP051-22-235529	NPDES Outfall 051	08/11/2022	1330-20-7	Xylene (Total)	1	ug/L	U	N	UF	2022-843	REG	SW-846:82600	1	620
NP051-22-235529	NPDES Outfall 051	08/11/2022	95-47-6	Xylene [1,2-]	0.333	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.333	193
NP051-22-235529	NPDES Outfall 051	08/11/2022	Xylene(m+p)	Xylene [1,3-+Xylene [1,4-]	0.5	ug/L	U	N	UF	2022-843	REG	SW-846:82600	0.5	396
NP051-22-235553	NPDES Outfall 051	08/11/2022	Zn	Zinc	3.3	ug/L	U	N	F	2022-843	REG	EPA:200.7	3.3	10,000

Notes:

<sup>1</sup>ug/L - micrograms per liter.  
mg/L - milligrams per liter.  
ng/L - nanograms per liter.  
SU - standard units.  
pCi/L - picocuries per liter.

<sup>2</sup>U - The analyte is classified as not detected.

R - The reported sample result is classified as rejected due to serious noncompliances regarding quality control acceptance criteria. The presence or absence of the analyte cannot be verified based on routine validation alone.

UJ - The analyte is classified as not detected, with an expectation that the reported result is more uncertain than usual.

J - The analyte is classified as detected but the reported concentration value is expected to be more uncertain than usual.

NQ - No validation qualifier flag is associated with this result, and the analyte is classified as detected.

J+ - The analyte is classified as detected but the reported concentration value is expected to be more uncertain than usual with a potential positive bias.

<sup>3</sup>N - In the detected column means the analyte was not detected.

Y - In the detected column means the analyte was detected.

<sup>4</sup>UF - Unfiltered.

F - Filtered.

<sup>5</sup>REG - In the sample purpose column means the sample was a regular sample.

FD - In the sample purpose column means the sample was a field duplicate.

<sup>6</sup> There is not a Report Detection Limit for Radium-226 and Radium-228 since this result is calculated.

<sup>7</sup> Groundwater Limit represents standards for groundwater as identified in NMAC 20.6.2.3103 where available, otherwise the value represents NMED Risk Assessment Guidance, Table A-1, Tap Water Limit.

Groundwater Limit for N-nitrosodiphenylamine reported as diphenylamine, which represents NMED Risk Assessment Guidance, Table A-1, Tap Water Limit.

Groundwater Limit for combined Endosulfan I and Endosulfan II is 98.7 ug/L, which represents NMED Risk Assessment Guidance, Table A-1, Tap Water Limit.

Total Kjeldahl Nitrogen does not contain either a NMAC 20.6.2.3103 standard or NMED Risk Assessment Guidance, Table A-1, Tap Water Limit.

Attachment 4

Table 3. Analytical Results from the Quarterly Sampling of RLWTF Treated Effluent Discharged to NPDES Outfall 051 on September 8, 2022. Permit Condition No. 29.

Field Sample ID	Location ID	Sample Date	Parameter Code	Parameter Name	Report Result	Report Units <sup>1</sup>	Validation Qualifier <sup>2</sup>	Detected <sup>3</sup>	Field Preparation Code <sup>4</sup>	COC #	Sample Purpose <sup>5</sup>	Lab Method	Report Method Detection Limit <sup>6</sup>	Groundwater Limit <sup>7</sup>
NP051-22-235530	NPDES Outfall 051	09/08/2022	107-02-8	Acrolein	1.67	ug/L	U	N	UF	2022-967	REG	SW-846-8260D	1.67	0.0415
NP051-22-235530	NPDES Outfall 051	09/08/2022	107-13-1	Acrylonitrile	1.67	ug/L	U	N	UF	2022-967	REG	SW-846-8260D	1.67	0.523
NP051-22-235530	NPDES Outfall 051	09/08/2022	309-00-2	Aldrin	0.0069	ug/L	U	N	UF	2022-967	REG	SW-846-8081B	0.0069	0.00198
NP051-22-235554	NPDES Outfall 051	09/08/2022	Al	Aluminum	19.3	ug/L	U	N	F	2022-967	REG	EPA-200.8	19.3	5.000
NP051-22-235530	NPDES Outfall 051	09/08/2022	120-12-7	Anthracene	0.323	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	0.323	1721.28
NP051-22-235578	NPDES Outfall 051	09/08/2022	120-12-7	Anthracene	0.321	ug/L	U	N	UF	2022-967	FD	SW-846-8270E	0.321	1721.28
NP051-22-235554	NPDES Outfall 051	09/08/2022	Sb	Antimony	1	ug/L	U	N	F	2022-967	REG	EPA-200.8	1	6
NP051-22-235530	NPDES Outfall 051	09/08/2022	12674-11-2	Aroclor-1016	0.167	ug/L	U	N	UF	2022-967	REG	SW-846-8082A	0.167	5
NP051-22-235530	NPDES Outfall 051	09/08/2022	11104-28-2	Aroclor-1221	0.167	ug/L	U	N	UF	2022-967	REG	SW-846-8082A	0.167	5
NP051-22-235530	NPDES Outfall 051	09/08/2022	11141-16-5	Aroclor-1232	0.167	ug/L	U	N	UF	2022-967	REG	SW-846-8082A	0.167	5
NP051-22-235530	NPDES Outfall 051	09/08/2022	53469-21-9	Aroclor-1242	0.167	ug/L	U	N	UF	2022-967	REG	SW-846-8082A	0.167	5
NP051-22-235530	NPDES Outfall 051	09/08/2022	12672-29-6	Aroclor-1248	0.167	ug/L	U	N	UF	2022-967	REG	SW-846-8082A	0.167	5
NP051-22-235530	NPDES Outfall 051	09/08/2022	11097-69-1	Aroclor-1254	0.167	ug/L	U	N	UF	2022-967	REG	SW-846-8082A	0.167	5
NP051-22-235530	NPDES Outfall 051	09/08/2022	11096-82-5	Aroclor-1260	0.167	ug/L	U	N	UF	2022-967	REG	SW-846-8082A	0.167	5
NP051-22-235554	NPDES Outfall 051	09/08/2022	As	Arsenic	2	ug/L	U	N	F	2022-967	REG	EPA-200.8	2	10
NP051-22-235530	NPDES Outfall 051	09/08/2022	1912-24-9	Atrazine	3.23	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	3.23	3
NP051-22-235578	NPDES Outfall 051	09/08/2022	1912-24-9	Atrazine	3.21	ug/L	U	N	UF	2022-967	FD	SW-846-8270E	3.21	3
NP051-22-235530	NPDES Outfall 051	09/08/2022	103-33-3	Azobenzene	3.23	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	3.23	0.7
NP051-22-235578	NPDES Outfall 051	09/08/2022	103-33-3	Azobenzene	3.21	ug/L	U	N	UF	2022-967	FD	SW-846-8270E	3.21	0.7
NP051-22-235554	NPDES Outfall 051	09/08/2022	Ba	Barium	0.67	ug/L	U	N	F	2022-967	REG	EPA-200.8	0.67	2,000
NP051-22-235530	NPDES Outfall 051	09/08/2022	71-43-2	Benzene	0.333	ug/L	U	N	UF	2022-967	REG	SW-846-8260D	0.333	5
NP051-22-235530	NPDES Outfall 051	09/08/2022	92-87-5	Benzidine	4.2	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	4.2	0.001
NP051-22-235578	NPDES Outfall 051	09/08/2022	92-87-5	Benzidine	4.18	ug/L	U	N	UF	2022-967	FD	SW-846-8270E	4.18	0.001
NP051-22-235530	NPDES Outfall 051	09/08/2022	50-32-8	Benzol(a)pyrene	0.323	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	0.323	0.2
NP051-22-235578	NPDES Outfall 051	09/08/2022	50-32-8	Benzol(a)pyrene	0.321	ug/L	U	N	UF	2022-967	FD	SW-846-8270E	0.321	0.2
NP051-22-235530	NPDES Outfall 051	09/08/2022	205-99-2	Benzol(b)fluoranthene	0.323	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	0.323	0.343
NP051-22-235578	NPDES Outfall 051	09/08/2022	205-99-2	Benzol(b)fluoranthene	0.321	ug/L	U	N	UF	2022-967	FD	SW-846-8270E	0.321	0.343
NP051-22-235530	NPDES Outfall 051	09/08/2022	207-08-9	Benzol(k)fluoranthene	0.323	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	0.323	3.43
NP051-22-235578	NPDES Outfall 051	09/08/2022	207-08-9	Benzol(k)fluoranthene	0.321	ug/L	U	N	UF	2022-967	FD	SW-846-8270E	0.321	3.43
NP051-22-235554	NPDES Outfall 051	09/08/2022	Be	Beryllium	0.2	ug/L	U	N	F	2022-967	REG	EPA-200.8	0.2	4
NP051-22-235530	NPDES Outfall 051	09/08/2022	319-84-6	BHC[alpha-]	0.0069	ug/L	U	N	UF	2022-967	REG	SW-846-8081B	0.0069	0.07
NP051-22-235530	NPDES Outfall 051	09/08/2022	319-85-7	BHC[beta-]	0.0069	ug/L	U	N	UF	2022-967	REG	SW-846-8081B	0.0069	0.24
NP051-22-235530	NPDES Outfall 051	09/08/2022	58-89-9	BHC[gamma-]	0.0069	ug/L	U	N	UF	2022-967	REG	SW-846-8081B	0.0069	0.42
NP051-22-235530	NPDES Outfall 051	09/08/2022	111-44-4	Bis(2-chloroethoxy)ether	3.23	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	3.23	0.14
NP051-22-235578	NPDES Outfall 051	09/08/2022	111-44-4	Bis(2-chloroethoxy)ether	3.21	ug/L	U	N	UF	2022-967	FD	SW-846-8270E	3.21	0.14
NP051-22-235530	NPDES Outfall 051	09/08/2022	117-81-7	Bis(2-ethylhexyl)phthalate	0.323	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	0.323	55.64
NP051-22-235578	NPDES Outfall 051	09/08/2022	117-81-7	Bis(2-ethylhexyl)phthalate	0.321	ug/L	U	N	UF	2022-967	FD	SW-846-8270E	0.321	55.64
NP051-22-235554	NPDES Outfall 051	09/08/2022	B	Boron	15	ug/L	U	N	F	2022-967	REG	EPA-200.7	15	750
NP051-22-235530	NPDES Outfall 051	09/08/2022	75-27-4	Bromodichloromethane	0.333	ug/L	U	N	UF	2022-967	REG	SW-846-8260D	0.333	1.34
NP051-22-235530	NPDES Outfall 051	09/08/2022	75-25-2	Bromoform	0.333	ug/L	U	N	UF	2022-967	REG	SW-846-8260D	0.333	32.85
NP051-22-235530	NPDES Outfall 051	09/08/2022	74-83-9	Bromomethane	0.337	ug/L	U	N	UF	2022-967	REG	SW-846-8260D	0.337	7.54
NP051-22-235554	NPDES Outfall 051	09/08/2022	Cd	Cadmium	1.15	ug/L	NQ	Y	F	2022-967	REG	EPA-200.8	0.3	5
NP051-22-235530	NPDES Outfall 051	09/08/2022	56-23-5	Carbon Tetrachloride	0.333	ug/L	U	N	UF	2022-967	REG	SW-846-8260D	0.333	5
NP051-22-235530	NPDES Outfall 051	09/08/2022	57-74-9	Chlordane(alpha/gamma)	0.0794	ug/L	U	N	UF	2022-967	REG	SW-846-8081B	0.0794	0.45
NP051-22-235554	NPDES Outfall 051	09/08/2022	Cl(-1)	Chloride	48.5	mg/L	NQ	Y	F	2022-967	REG	EPA-300.0	1.68	250
NP051-22-235530	NPDES Outfall 051	09/08/2022	108-90-7	Chlorobenzene	0.333	ug/L	U	N	UF	2022-967	REG	SW-846-8260D	0.333	77.57
NP051-22-235530	NPDES Outfall 051	09/08/2022	67-66-3	Chloroform	5.17	ug/L	NQ	Y	UF	2022-967	REG	SW-846-8260D	0.333	100
NP051-22-235530	NPDES Outfall 051	09/08/2022	74-87-3	Chloromethane	0.333	ug/L	U	N	UF	2022-967	REG	SW-846-8260D	0.333	20.3
NP051-22-235554	NPDES Outfall 051	09/08/2022	Cr	Chromium	3	ug/L	U	N	F	2022-967	REG	EPA-200.8	3	50
NP051-22-235530	NPDES Outfall 051	09/08/2022	Co	Cobalt	0.3	ug/L	U	N	F	2022-967	REG	EPA-200.8	0.3	50
NP051-22-235554	NPDES Outfall 051	09/08/2022	Cu	Copper	0.475	ug/L	U	N	F	2022-967	REG	EPA-200.8	0.3	1,000

Attachment 4

Table 3. Analytical Results from the Quarterly Sampling of RLWTF Treated Effluent Discharged to NPDES Outfall 051 on September 8, 2022. Permit Condition No. 29.

Field Sample ID	Location ID	Sample Date	Parameter Code	Parameter Name	Report Result	Report Units <sup>1</sup>	Validation Qualifier <sup>2</sup>	Detected <sup>3</sup>	Field Preparation Code <sup>4</sup>	COC #	Sample Purpose <sup>5</sup>	Lab Method	Report Method Detection Limit <sup>6</sup>	Groundwater Limit <sup>7</sup>
NP051-22-235530	NPDES Outfall 051	09/08/2022	CN(TOTAL)	Cyanide (Total)	0.00167	mg/L	U	N	UF	2022-967	REG	EPA-335.4	0.00167	0.2
NP051-22-235530	NPDES Outfall 051	09/08/2022	50-29-3	DDT[4,4-]	0.1034	ug/L	U	N	UF	2022-967	REG	SW-846-8081B	0.0104	2.3
NP051-22-235530	NPDES Outfall 051	09/08/2022	106-93-4	Dibromoethane[1,2-]	0.333	ug/L	U	N	UF	2022-967	REG	SW-846-8260D	0.333	0.05
NP051-22-235530	NPDES Outfall 051	09/08/2022	74-95-3	Dibromomethane	0.333	ug/L	U	N	UF	2022-967	REG	SW-846-8260D	0.333	8
NP051-22-235530	NPDES Outfall 051	09/08/2022	95-50-1	Dichlorobenzene[1,2-]	0.333	ug/L	U	N	UF	2022-967	REG	SW-846-8260D	0.333	600
NP051-22-235530	NPDES Outfall 051	09/08/2022	106-46-7	Dichlorobenzene[1,4-]	0.333	ug/L	U	N	UF	2022-967	REG	SW-846-8260D	0.333	75
NP051-22-235530	NPDES Outfall 051	09/08/2022	91-94-1	Dichlorobenzidine[3,3'-]	3.21	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	3.21	1.25
NP051-22-235578	NPDES Outfall 051	09/08/2022	91-94-1	Dichlorobenzidine[3,3'-]	0.355	ug/L	U	N	UF	2022-967	REG	SW-846-8260D	0.355	197.2
NP051-22-235530	NPDES Outfall 051	09/08/2022	75-71-8	Dichlorodifluoromethane	0.333	ug/L	U	N	UF	2022-967	REG	SW-846-8260D	0.333	5
NP051-22-235530	NPDES Outfall 051	09/08/2022	75-34-3	Dichloroethane[1,1-]	0.333	ug/L	U	N	UF	2022-967	REG	SW-846-8260D	0.333	7
NP051-22-235530	NPDES Outfall 051	09/08/2022	107-06-2	Dichloroethane[1,2-]	0.333	ug/L	U	N	UF	2022-967	REG	SW-846-8260D	0.333	70
NP051-22-235530	NPDES Outfall 051	09/08/2022	75-35-4	Dichloroethene[1,1-]	0.333	ug/L	U	N	UF	2022-967	REG	SW-846-8260D	0.333	100
NP051-22-235530	NPDES Outfall 051	09/08/2022	156-59-2	Dichloroethene[1,2-]	0.333	ug/L	U	N	UF	2022-967	REG	SW-846-8260D	0.333	45.3
NP051-22-235530	NPDES Outfall 051	09/08/2022	156-60-5	Dichloroethene[trans-1,2-]	3.23	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	3.23	45.3
NP051-22-235578	NPDES Outfall 051	09/08/2022	120-83-2	Dichlorophenol[2,4-]	3.21	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	3.21	5
NP051-22-235530	NPDES Outfall 051	09/08/2022	120-83-2	Dichlorophenol[2,4-]	0.333	ug/L	U	N	UF	2022-967	REG	SW-846-8260D	0.333	5
NP051-22-235530	NPDES Outfall 051	09/08/2022	78-87-5	Dichloropropane[1,2-]	0.5	ug/L	U	N	UF	2022-967	REG	SW-846-8260D	0.5	4.7
NP051-22-235530	NPDES Outfall 051	09/08/2022	542-75-6	Dichloropropene[cis/trans-1,3-]	0.0104	ug/L	U	N	UF	2022-967	REG	SW-846-8081B	0.0104	0.0175
NP051-22-235530	NPDES Outfall 051	09/08/2022	60-57-1	Dieldrin	0.323	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	0.323	14.801
NP051-22-235530	NPDES Outfall 051	09/08/2022	84-66-2	Diethylphthalate	0.321	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	0.321	14.801
NP051-22-235578	NPDES Outfall 051	09/08/2022	84-66-2	Diethylphthalate	0.323	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	0.323	611.6
NP051-22-235530	NPDES Outfall 051	09/08/2022	131-11-3	Dimethyl Phthalate	0.321	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	0.321	611.6
NP051-22-235578	NPDES Outfall 051	09/08/2022	131-11-3	Dimethyl Phthalate	0.323	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	0.323	884.8
NP051-22-235530	NPDES Outfall 051	09/08/2022	84-74-2	Di-n-butylphthalate	0.321	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	0.321	884.8
NP051-22-235578	NPDES Outfall 051	09/08/2022	84-74-2	Di-n-butylphthalate	0.323	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	0.323	1.52
NP051-22-235530	NPDES Outfall 051	09/08/2022	534-52-1	Dinitro-2-methylphenol[4,6-]	3.23	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	3.23	1.52
NP051-22-235578	NPDES Outfall 051	09/08/2022	534-52-1	Dinitro-2-methylphenol[4,6-]	5.38	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	5.38	38.67
NP051-22-235530	NPDES Outfall 051	09/08/2022	51-28-5	Dinitrophenol[2,4-]	5.36	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	5.36	38.67
NP051-22-235578	NPDES Outfall 051	09/08/2022	51-28-5	Dinitrophenol[2,4-]	3.23	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	3.23	2.37
NP051-22-235530	NPDES Outfall 051	09/08/2022	121-14-2	Dinitrotoluene[2,4-]	3.21	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	3.21	2.37
NP051-22-235578	NPDES Outfall 051	09/08/2022	121-14-2	Dinitrotoluene[2,4-]	3.23	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	3.23	0.49
NP051-22-235530	NPDES Outfall 051	09/08/2022	606-20-2	Dinitrotoluene[2,6-]	3.21	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	3.21	0.49
NP051-22-235578	NPDES Outfall 051	09/08/2022	606-20-2	Dinitrotoluene[2,6-]	3.23	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	3.23	4.59
NP051-22-235530	NPDES Outfall 051	09/08/2022	123-91-1	Dioxane[1,4-]	3.21	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	3.21	4.59
NP051-22-235578	NPDES Outfall 051	09/08/2022	123-91-1	Dioxane[1,4-]	3.23	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	3.23	122
NP051-22-235530	NPDES Outfall 051	09/08/2022	122-39-4	Diphenylamine	3.21	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	3.21	122
NP051-22-235578	NPDES Outfall 051	09/08/2022	122-39-4	Diphenylamine	0.0069	ug/L	U	N	UF	2022-967	REG	SW-846-8081B	0.0069	98.7
NP051-22-235530	NPDES Outfall 051	09/08/2022	959-98-8	Endosulfan I	0.0104	ug/L	U	N	UF	2022-967	REG	SW-846-8081B	0.0104	98.7
NP051-22-235578	NPDES Outfall 051	09/08/2022	33213-65-9	Endosulfan II	0.0104	ug/L	U	N	UF	2022-967	REG	SW-846-8081B	0.0104	2.23
NP051-22-235530	NPDES Outfall 051	09/08/2022	72-20-8	Endrin	0.333	ug/L	U	N	UF	2022-967	REG	SW-846-8260D	0.333	700
NP051-22-235578	NPDES Outfall 051	09/08/2022	100-41-4	Ethylbenzene	0.323	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	0.323	802.2
NP051-22-235530	NPDES Outfall 051	09/08/2022	206-44-0	Fluoranthene	0.321	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	0.321	802.2
NP051-22-235578	NPDES Outfall 051	09/08/2022	206-44-0	Fluoranthene	0.323	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	0.323	287.64
NP051-22-235530	NPDES Outfall 051	09/08/2022	86-73-7	Fluorene	0.321	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	0.321	287.64
NP051-22-235578	NPDES Outfall 051	09/08/2022	86-73-7	Fluorene	0.033	mg/L	U	N	UF	2022-967	REG	SW-846-8270E	0.033	1.6
NP051-22-235530	NPDES Outfall 051	09/08/2022	F(-1)	Fluoride	0.0069	ug/L	U	N	F	2022-967	REG	EPA-300.0	0.0069	0.022
NP051-22-235578	NPDES Outfall 051	09/08/2022	76-44-8	Heptachlor	3.23	ug/L	U	N	UF	2022-967	REG	SW-846-8081B	3.23	0.10
NP051-22-235530	NPDES Outfall 051	09/08/2022	118-74-1	Hexachlorobenzene	3.21	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	3.21	0.10
NP051-22-235578	NPDES Outfall 051	09/08/2022	118-74-1	Hexachlorobenzene	3.23	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	3.23	1.39
NP051-22-235530	NPDES Outfall 051	09/08/2022	87-68-3	Hexachlorobutadiene	3.21	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	3.21	1.39
NP051-22-235578	NPDES Outfall 051	09/08/2022	87-68-3	Hexachlorobutadiene	3.21	ug/L	U	N	UF	2022-967	REG	SW-846-8270E	3.21	1.39

Attachment 4

Table 3. Analytical Results from the Quarterly Sampling of RLWTF Treated Effluent Discharged to NPDES Outfall 051 on September 8, 2022. Permit Condition No. 29.

Field Sample ID	Location ID	Sample Date	Parameter Code	Parameter Name	Report Result	Report Units <sup>1</sup>	Validation Qualifier <sup>2</sup>	Detected <sup>3</sup>	Field Preparation Code <sup>4</sup>	COC #	Sample Purpose <sup>5</sup>	Lab Method	Report Method Detection Limit <sup>6</sup>	Groundwater Limit <sup>7</sup>
NP051-22-235530	NPDES Outfall 051	09/08/2022	77-47-4	Hexachlorocyclopentadiene	3.23	ug/L	U	N	UF	2022-967	REG	SW-846:8270E	3.23	0.41
NP051-22-235578	NPDES Outfall 051	09/08/2022	77-47-4	Hexachlorocyclopentadiene	3.21	ug/L	U	N	UF	2022-967	FD	SW-846:8270E	3.21	0.41
NP051-22-235530	NPDES Outfall 051	09/08/2022	67-72-1	Hexachloroethane	3.23	ug/L	U	N	UF	2022-967	REG	SW-846:8270E	3.23	3.28
NP051-22-235578	NPDES Outfall 051	09/08/2022	67-72-1	Hexachloroethane	3.21	ug/L	U	N	UF	2022-967	FD	SW-846:8270E	3.21	3.28
NP051-22-235530	NPDES Outfall 051	09/08/2022	2691-41-0	HMX	0.0844	ug/L	U	N	UF	2022-967	REG	SW-846:8330B	0.0844	1001.1
NP051-22-235554	NPDES Outfall 051	09/08/2022	Fe	Iron	30	ug/L	U	N	F	2022-967	REG	EPA-200.7	30	1,000
NP051-22-235530	NPDES Outfall 051	09/08/2022	78-59-1	Isophorone	3.77	ug/L	U	N	UF	2022-967	REG	SW-846:8270E	3.77	780.63
NP051-22-235578	NPDES Outfall 051	09/08/2022	78-59-1	Isophorone	3.75	ug/L	U	N	UF	2022-967	FD	SW-846:8270E	3.75	780.63
NP051-22-235554	NPDES Outfall 051	09/08/2022	Pb	Lead	13.9	ug/L	NQ	Y	F	2022-967	REG	EPA-200.8	0.5	15
NP051-22-235554	NPDES Outfall 051	09/08/2022	Mn	Manganese	2	ug/L	U	N	F	2022-967	REG	EPA-200.7	2	200
NP051-22-235530	NPDES Outfall 051	09/08/2022	Hg	Mercury	0.067	ug/L	U	N	UF	2022-967	REG	EPA-245.2	0.067	2
NP051-22-235554	NPDES Outfall 051	09/08/2022	Hg	Mercury	0.067	ug/L	U	N	F	2022-967	REG	EPA-245.2	0.067	2
NP051-22-235530	NPDES Outfall 051	09/08/2022	1634-04-4	Methyl tert-Butyl Ether	0.333	ug/L	U	N	UF	2022-967	REG	SW-846:8260D	0.333	100
NP051-22-235530	NPDES Outfall 051	09/08/2022	75-09-2	Methylene Chloride	0.86	ug/L	U	N	UF	2022-967	REG	SW-846:8260D	0.5	5
NP051-22-235530	NPDES Outfall 051	09/08/2022	90-12-0	Methylnaphthalene[1-]	0.323	ug/L	U	N	UF	2022-967	REG	SW-846:8270E	0.323	11.38
NP051-22-235578	NPDES Outfall 051	09/08/2022	90-12-0	Methylnaphthalene[1-]	0.321	ug/L	U	N	UF	2022-967	FD	SW-846:8270E	0.321	11.38
NP051-22-235530	NPDES Outfall 051	09/08/2022	91-57-6	Methylnaphthalene[2-]	0.323	ug/L	U	N	UF	2022-967	REG	SW-846:8270E	0.323	35.11
NP051-22-235578	NPDES Outfall 051	09/08/2022	91-57-6	Methylnaphthalene[2-]	0.321	ug/L	U	N	UF	2022-967	FD	SW-846:8270E	0.321	35.11
NP051-22-235554	NPDES Outfall 051	09/08/2022	Mo	Molybdenum	0.2	ug/L	U	N	F	2022-967	REG	EPA-200.8	0.2	1,000
NP051-22-235530	NPDES Outfall 051	09/08/2022	91-20-3	Naphthalene	0.323	ug/L	U	N	UF	2022-967	REG	SW-846:8270E	0.323	30
NP051-22-235578	NPDES Outfall 051	09/08/2022	91-20-3	Naphthalene	0.321	ug/L	U	N	UF	2022-967	FD	SW-846:8270E	0.321	30
NP051-22-235554	NPDES Outfall 051	09/08/2022	Ni	Nickel	0.6	ug/L	U	N	F	2022-967	REG	EPA-200.8	0.6	200
NP051-22-235554	NPDES Outfall 051	09/08/2022	NO3+NO2-N	Nitrate-Nitrite as Nitrogen	0.402	mg/L	NQ	Y	F	2022-967	REG	EPA-353.2	0.017	10
NP051-22-235590	NPDES Outfall 051	09/08/2022	NO3+NO2-N	Nitrate-Nitrite as Nitrogen	0.4	mg/L	NQ	Y	F	2022-967	FD	EPA-353.2	0.017	10
NP051-22-235542	NPDES Outfall 051	09/08/2022	NO2	Nitrite	0.033	mg/L	U	N	F	2022-967	REG	EPA-300.0	0.033	1
NP051-22-235530	NPDES Outfall 051	09/08/2022	98-95-3	Nitrobenzene	3.23	ug/L	U	N	UF	2022-967	REG	SW-846:8270E	3.23	1.40
NP051-22-235578	NPDES Outfall 051	09/08/2022	98-95-3	Nitrobenzene	3.21	ug/L	U	N	UF	2022-967	FD	SW-846:8270E	3.21	1.40
NP051-22-235530	NPDES Outfall 051	09/08/2022	55-18-5	Nitrosodimethylamine[N-]	3.23	ug/L	U	N	UF	2022-967	REG	SW-846:8270E	3.23	0.0017
NP051-22-235578	NPDES Outfall 051	09/08/2022	55-18-5	Nitrosodimethylamine[N-]	3.21	ug/L	U	N	UF	2022-967	FD	SW-846:8270E	3.21	0.0017
NP051-22-235530	NPDES Outfall 051	09/08/2022	62-75-9	Nitrosodimethylamine[N-]	3.23	ug/L	U	N	UF	2022-967	REG	SW-846:8270E	3.23	0.0049
NP051-22-235578	NPDES Outfall 051	09/08/2022	62-75-9	Nitrosodimethylamine[N-]	3.21	ug/L	U	N	UF	2022-967	FD	SW-846:8270E	3.21	0.0049
NP051-22-235530	NPDES Outfall 051	09/08/2022	924-16-3	Nitroso-di-n-butylamine[N-]	3.23	ug/L	U	N	UF	2022-967	REG	SW-846:8270E	3.23	0.03
NP051-22-235578	NPDES Outfall 051	09/08/2022	924-16-3	Nitroso-di-n-butylamine[N-]	3.21	ug/L	U	N	UF	2022-967	FD	SW-846:8270E	3.21	0.03
NP051-22-235530	NPDES Outfall 051	09/08/2022	930-55-2	Nitrosopyrrolidine[N-]	3.23	ug/L	U	N	UF	2022-967	REG	SW-846:8270E	3.23	0.37
NP051-22-235578	NPDES Outfall 051	09/08/2022	930-55-2	Nitrosopyrrolidine[N-]	3.21	ug/L	U	N	UF	2022-967	FD	SW-846:8270E	3.21	0.37
NP051-22-235530	NPDES Outfall 051	09/08/2022	108-60-1	Oxybis(1-chloropropane)[2,2-]	3.23	ug/L	U	N	UF	2022-967	REG	SW-846:8270E	3.23	9.81
NP051-22-235578	NPDES Outfall 051	09/08/2022	108-60-1	Oxybis(1-chloropropane)[2,2-]	3.21	ug/L	U	N	UF	2022-967	FD	SW-846:8270E	3.21	9.81
NP051-22-235530	NPDES Outfall 051	09/08/2022	608-93-5	Pentachlorobenzene	3.23	ug/L	U	N	UF	2022-967	REG	SW-846:8270E	3.23	3.07
NP051-22-235578	NPDES Outfall 051	09/08/2022	608-93-5	Pentachlorobenzene	3.21	ug/L	U	N	UF	2022-967	FD	SW-846:8270E	3.21	3.07
NP051-22-235530	NPDES Outfall 051	09/08/2022	87-86-5	Pentachlorophenol	3.23	ug/L	U	N	UF	2022-967	REG	SW-846:8270E	3.23	1
NP051-22-235578	NPDES Outfall 051	09/08/2022	87-86-5	Pentachlorophenol	3.21	ug/L	U	N	UF	2022-967	FD	SW-846:8270E	3.21	1
NP051-22-235530	NPDES Outfall 051	09/08/2022	ClO4	Perchlorate	0.05	ug/L	U	N	UF	2022-967	REG	SW-846:6850	0.05	13.82
NP051-22-235578	NPDES Outfall 051	09/08/2022	355-46-4	Perfluorohexanesulfonic acid	0.649	ng/L	U	N	UF	2022-967	REG	EPA-537M	0.649	401
NP051-22-235530	NPDES Outfall 051	09/08/2022	1763-23-1	Perfluorooctanesulfonic acid	0.787	ng/L	U	N	UF	2022-967	REG	EPA-537M	0.787	60.16
NP051-22-235578	NPDES Outfall 051	09/08/2022	335-67-1	Perfluorooctanoic acid	0.787	ng/L	U	N	UF	2022-967	REG	EPA-537M	0.787	60.16
NP051-22-235530	NPDES Outfall 051	09/08/2022	pH	pH	7.2	SU	U	N	UF	2022-967	REG	SW-846:8270E	0.323	6-9
NP051-22-235578	NPDES Outfall 051	09/08/2022	85-01-8	Phenanthrene	0.323	ug/L	U	N	UF	2022-967	REG	SW-846:8270E	0.323	170.41
NP051-22-235530	NPDES Outfall 051	09/08/2022	85-01-8	Phenanthrene	0.321	ug/L	U	N	UF	2022-967	FD	SW-846:8270E	0.321	170.41
NP051-22-235578	NPDES Outfall 051	09/08/2022	108-95-2	Phenol	3.23	ug/L	U	N	UF	2022-967	REG	SW-846:8270E	3.23	5
NP051-22-235530	NPDES Outfall 051	09/08/2022	108-95-2	Phenol	3.21	ug/L	U	N	UF	2022-967	FD	SW-846:8270E	3.21	5
NP051-22-235578	NPDES Outfall 051	09/08/2022	1610-18-0	Prometon	3.23	ug/L	U	N	UF	2022-967	REG	SW-846:8270E	3.23	249.93

Attachment 4

Table 3. Analytical Results from the Quarterly Sampling of RLWTF Treated Effluent Discharged to NPDES Outfall 051 on September 8, 2022. Permit Condition No. 29.

Field Sample ID	Location ID	Sample Date	Parameter Code	Parameter Name	Report Result	Report Units <sup>1</sup>	Validation Qualifier <sup>2</sup>	Detected <sup>3</sup>	Field Preparation Code <sup>4</sup>	COC #	Sample Purpose <sup>5</sup>	Lab Method	Report Method Detection Limit <sup>6</sup>	Groundwater Limit <sup>7</sup>
NP051-22-235578	NPDES Outfall 051	09/08/2022	1610-18-0	Prometon	3.21	ug/L	U	N	UF	2022-967	FD	SW-846:8270E	3.21	249.93
NP051-22-235530	NPDES Outfall 051	09/08/2022	129-00-0	Pyrene	0.323	ug/L	U	N	UF	2022-967	REG	SW-846:8270E	0.323	117.42
NP051-22-235578	NPDES Outfall 051	09/08/2022	129-00-0	Pyrene	0.321	ug/L	U	N	UF	2022-967	FD	SW-846:8270E	0.321	117.42
NP051-22-235530	NPDES Outfall 051	09/08/2022	Ra-226+228	Radium-226 and Radium-228	0.868	pCi/L	U	N	UF	2022-967	REG	Generic: Radium by Calculation	-	5
NP051-22-235530	NPDES Outfall 051	09/08/2022	121-82-4	RDX	0.0844	ug/L	U	N	UF	2022-967	REG	SW-846:8330B	0.0844	9.66
NP051-22-235554	NPDES Outfall 051	09/08/2022	Se	Selenium	1.5	ug/L	U	N	F	2022-967	REG	EPA-200.8	1.5	50
NP051-22-235554	NPDES Outfall 051	09/08/2022	Ag	Silver	0.3	ug/L	U	N	F	2022-967	REG	EPA-200.8	0.3	50
NP051-22-235530	NPDES Outfall 051	09/08/2022	100-42-5	Styrene	0.333	ug/L	U	N	UF	2022-967	REG	SW-846:8260D	0.333	100
NP051-22-235554	NPDES Outfall 051	09/08/2022	SO4(-2)	Sulfate	0.526	mg/L	NQ	Y	F	2022-967	REG	EPA-300.0	0.133	600
NP051-22-235590	NPDES Outfall 051	09/08/2022	SO4(-2)	Sulfate	0.541	mg/L	NQ	Y	F	2022-967	FD	EPA-300.0	0.133	600
NP051-22-235530	NPDES Outfall 051	09/08/2022	126-33-0	Sulfolane	3.23	ug/L	U	N	UF	2022-967	REG	SW-846:8270E	3.23	20.03
NP051-22-235578	NPDES Outfall 051	09/08/2022	126-33-0	Sulfolane	3.21	ug/L	U	N	UF	2022-967	FD	SW-846:8270E	3.21	20.03
NP051-22-235530	NPDES Outfall 051	09/08/2022	95-94-3	Tetrachlorobenzene [1,2,4,5]	3.23	ug/L	U	N	UF	2022-967	REG	SW-846:8270E	3.23	1.66
NP051-22-235578	NPDES Outfall 051	09/08/2022	95-94-3	Tetrachlorobenzene [1,2,4,5]	3.21	ug/L	U	N	UF	2022-967	FD	SW-846:8270E	3.21	1.66
NP051-22-235530	NPDES Outfall 051	09/08/2022	79-34-5	Tetrachloroethane [1,1,2,2]	0.333	ug/L	U	N	UF	2022-967	REG	SW-846:8260D	0.333	10
NP051-22-235530	NPDES Outfall 051	09/08/2022	127-18-4	Tetrachloroethene	0.333	ug/L	U	N	UF	2022-967	REG	SW-846:8260D	0.333	5
NP051-22-235554	NPDES Outfall 051	09/08/2022	TI	Thallium	0.6	ug/L	U	N	F	2022-967	REG	EPA-200.8	0.6	2
NP051-22-235530	NPDES Outfall 051	09/08/2022	108-88-3	Toluene	0.333	ug/L	U	N	UF	2022-967	REG	SW-846:8260D	0.333	1,000
NP051-22-235554	NPDES Outfall 051	09/08/2022	TDS	Total Dissolved Solids	147	mg/L	NQ	Y	F	2022-967	REG	EPA-160.1	2.38	1,000
NP051-22-235530	NPDES Outfall 051	09/08/2022	TKN	Total Kjeldahl Nitrogen	0.406	mg/L	NQ	Y	UF	2022-967	REG	EPA-351.2	0.033	-
NP051-22-235530	NPDES Outfall 051	09/08/2022	8001-35-2	Toxaphene (Technical Grade)	0.156	ug/L	U	N	UF	2022-967	REG	SW-846:8081B	0.156	0.158
NP051-22-235530	NPDES Outfall 051	09/08/2022	120-82-1	Trichlorobenzene [1,2,4]	0.333	ug/L	U	N	UF	2022-967	REG	SW-846:8260D	0.333	70
NP051-22-235530	NPDES Outfall 051	09/08/2022	71-55-6	Trichloroethane [1,1,1]	0.333	ug/L	U	N	UF	2022-967	REG	SW-846:8260D	0.333	200
NP051-22-235530	NPDES Outfall 051	09/08/2022	79-00-5	Trichloroethane [1,1,2]	0.333	ug/L	U	N	UF	2022-967	REG	SW-846:8260D	0.333	5
NP051-22-235530	NPDES Outfall 051	09/08/2022	79-01-6	Trichloroethene	0.333	ug/L	U	N	UF	2022-967	REG	SW-846:8260D	0.333	5
NP051-22-235530	NPDES Outfall 051	09/08/2022	75-69-4	Trichlorofluoromethane	0.333	ug/L	U	N	UF	2022-967	REG	SW-846:8260D	0.333	1136.8
NP051-22-235530	NPDES Outfall 051	09/08/2022	95-95-4	Trichlorophenol [2,4,5]	3.23	ug/L	U	N	UF	2022-967	REG	SW-846:8270E	3.23	1.166
NP051-22-235578	NPDES Outfall 051	09/08/2022	95-95-4	Trichlorophenol [2,4,5]	3.21	ug/L	U	N	UF	2022-967	FD	SW-846:8270E	3.21	1.166
NP051-22-235530	NPDES Outfall 051	09/08/2022	88-06-2	Trichlorophenol [2,4,6]	3.23	ug/L	U	N	UF	2022-967	REG	SW-846:8270E	3.23	11.88
NP051-22-235578	NPDES Outfall 051	09/08/2022	88-06-2	Trichlorophenol [2,4,6]	3.21	ug/L	U	N	UF	2022-967	FD	SW-846:8270E	3.21	11.88
NP051-22-235530	NPDES Outfall 051	09/08/2022	118-96-7	Trinitrotoluene [2,4,6]	0.0844	ug/L	U	N	UF	2022-967	REG	SW-846:8330B	0.0844	9.8
NP051-22-235554	NPDES Outfall 051	09/08/2022	U	Uranium	0.067	ug/L	U	N	F	2022-967	REG	EPA-200.8	0.067	30
NP051-22-235530	NPDES Outfall 051	09/08/2022	75-01-4	Vinyl Chloride	0.333	ug/L	U	N	UF	2022-967	REG	SW-846:8260D	0.333	2
NP051-22-235530	NPDES Outfall 051	09/08/2022	1330-20-7	Xylene [Total]	1	ug/L	U	N	UF	2022-967	REG	SW-846:8260D	1	620
NP051-22-235530	NPDES Outfall 051	09/08/2022	95-47-6	Xylene [1,2-]	0.333	ug/L	U	N	UF	2022-967	REG	SW-846:8260D	0.333	193
NP051-22-235530	NPDES Outfall 051	09/08/2022	Xylene[m+p]	Xylene [1,3-+Xylene [1,4-]	0.5	ug/L	U	N	UF	2022-967	REG	SW-846:8260D	0.5	396
NP051-22-235554	NPDES Outfall 051	09/08/2022	Zn	Zinc	3.53	ug/L	J	Y	F	2022-967	REG	EPA-200.7	3.30	10,000

<sup>1</sup>ug/L - micrograms per liter.

mg/L - milligrams per liter.

ng/L - nanograms per liter.

SU - standard units.

pCi/L - picocuries per liter.

<sup>2</sup>U - The analyte is classified as not detected.

NQ - No validation qualifier flag is associated with this result, and the analyte is classified as detected.

UI - The analyte is classified as not detected, with an expectation that the reported result is more uncertain than usual.

J - The analyte is classified as detected but the reported concentration value is expected to be more uncertain than usual.

<sup>3</sup>N - In the detected column means the analyte was not detected.

Y - In the detected column means the analyte was detected.

<sup>4</sup>UF - Unfiltered.

# Attachment 4

**Table 3.** Analytical Results from the Quarterly Sampling of RLWTF Treated Effluent Discharged to NPDES Outfall 051 on September 8, 2022. Permit Condition No. 29.

Field Sample ID	Location ID	Sample Date	Parameter Code	Parameter Name	Report Result	Report Units <sup>1</sup>	Validation Qualifier <sup>2</sup>	Detected <sup>3</sup>	Field Preparation Code <sup>4</sup>	COC #	Sample Purpose <sup>5</sup>	Lab Method	Report Method Detection Limit <sup>6</sup>	Groundwater Limit <sup>7</sup>

F - Filtered.

<sup>5</sup>REG - In the sample purpose column means the sample was a regular sample.

FD - In the sample purpose column means the sample was a field duplicate.

<sup>6</sup> There is not a Report Detection Limit for Radium-226 and Radium-228 since this result is calculated.

<sup>7</sup> Groundwater Limit represents standards for groundwater as identified in NMAC 20.6.2.3103 where available, otherwise the value represents NMED Risk Assessment Guidance, Table A-1, Tap Water Limit.

Groundwater Limit for N-nitrosodiphenylamine reported as diphenylamine, which represents NMED Risk Assessment Guidance, Table A-1, Tap Water Limit.

Groundwater Limit for combined Endosulfan I and Endosulfan II is 98.7 µg/L, which represents NMED Risk Assessment Guidance, Table A-1, Tap Water Limit.

Total Kjeldahl Nitrogen does not contain either a NMAC 20.6.2.3103 standard or NMED Risk Assessment Guidance, Table A-1, Tap Water Limit.

# **Attachment 5**

## **Quarterly Groundwater Monitoring Report – Third Quarter 2022**

EPC-DO: 22-285

LA-UR-22-30624

Date: 10/31/2022

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**MCA-RLW-1, Third Quarter 2022** ..... 2  
**MCA-RLW-2, Third Quarter 2022** ..... 3  
**MCOI-6, Third Quarter 2022** ..... 4

**MCA-RLW-1, Third Quarter 2022**

a	Sample Date	7/11/2022
b	Sample Time	0945
c	Individuals collecting sample	N3B Staff
d	Monitoring well identification	MCA-RLW-1
e	Physical description of monitoring well location	See Location Map, Attachment 6
f	Ground-water surface elevation (ft above mean sea level (msl))	N/A
g	Total depth of the well (ft below ground surface (bgs))	22.2
h	Total volume of water in the monitoring well prior to sample collection (gal)	N/A
i	Total volume of water purged prior to sample collection (gal)	N/A
j	Physical parameters including temperature, conductivity, pH, oxidation/reduction potential	DO (mg/L): N/A Oxidation/Reduction Potential (MV): N/A Temp (deg C): N/A pH (SU): N/A Turbidity (NTU): N/A Specific Conductance ( $\mu$ S/cm): N/A
k	Description of sample methods	N/A
l	Chain-of-Custody	N/A
m	Location Map	Attachment 6
	Analytical Results	N/A

## Notes:

N/A – Not applicable since well was dry when visited on July 11, 2022.

**MCA-RLW-2, Third Quarter 2022**

a	Sample Date	7/11/2022
b	Sample Time	1038
c	Individuals collecting sample	N3B Staff
d	Monitoring well identification	MCA-RLW-2
e	Physical description of monitoring well location	See Location Map, Attachment 6
f	Ground-water surface elevation (ft above mean sea level (msl))	6,807.04
g	Total depth of the well (ft below ground surface (bgs))	40.4
h	Total volume of water in the monitoring well prior to sample collection (gal)	N/A
i	Total volume of water purged prior to sample collection (gal)	N/A
j	Physical parameters including temperature, conductivity, pH, oxidation/reduction potential	DO (mg/L): N/A Oxidation/Reduction Potential (MV): N/A Temp (deg C): N/A pH (SU): N/A Turbidity (NTU): N/A Specific Conductance (µS/cm): N/A
k	Description of sample methods	N/A
l	Chain-of-Custody	N/A
m	Location Map	Attachment 6
	Analytical Results	N/A

Notes:

N/A – Not applicable. Well was not sampled when visited on July 11, 2022, due to insufficient water in the well. Well contained 0.13 ft of standing water.

**MCOI-6, Third Quarter 2022**

a	Sample Date	7/20/2022
b	Sample Time	1116
c	Individuals collecting sample	N3B Staff
d	Monitoring well identification	MCOI-6
e	Physical description of monitoring well location	See Location Map, Attachment 6
f	Ground-water surface elevation (ft above mean sea level (msl))	6138.39
g	Total depth of the well (ft below ground surface (bgs))	712.6
h	Total volume of water in the monitoring well prior to sample collection (gal)	33.37
i	Total volume of water purged prior to sample collection (gal)	116
j	Physical parameters including temperature, conductivity, pH, oxidation/reduction potential	DO (mg/L): 6.06 Oxidation/Reduction Potential (MV): 202.6 Temp (deg C): 16.8 pH (SU): 7.16 Turbidity (NTU): 9.32 Specific Conductance ( $\mu$ S/cm): 527
k	Description of sample methods	Attachment 5 Page 5
l	Chain-of-Custody	Attachment 5 Page 5
m	Location Map	Attachment 6
	Analytical Results	Attachment 5 Page 6, Table 1



**Table 1.** Analytical Results from Quarterly Groundwater Sampling of Perched/Intermediate Aquifer Monitoring Well MCOI-6 on July 20, 2022. Permit Condition No. 36.

Field Sample ID	Location ID	Sample Date	Parameter Code	Parameter Name	Report Result	Report Units <sup>1</sup>	Validation Qualifier <sup>2</sup>	Detected	Field Preparation Code <sup>3</sup>	COC #	Sample Purpose <sup>4</sup>	Lab Method	Report Method Detection Limit	Groundwater Limit <sup>5</sup>
CAMO-22-251944	MCOI-6	07/20/2022	Cl(-1)	Chloride	47.5	mg/L	NQ	Yes	F	N3B-2022-2345	REG	EPA:300.0	0.670	250
CAMO-22-251944	MCOI-6	07/20/2022	F(-1)	Fluoride	0.602	mg/L	NQ	Yes	F	N3B-2022-2345	REG	EPA:300.0	0.0330	1.6
CAMO-22-251944	MCOI-6	07/20/2022	NO3+NO2-N	Nitrate-Nitrite as Nitrogen	13.4	mg/L	NQ	Yes	F	N3B-2022-2345	REG	EPA:353.2	0.850	10
CAMO-22-251944	MCOI-6	07/20/2022	ClO4	Perchlorate	105	ug/L	NQ	Yes	F	N3B-2022-2345	REG	SW-846:6850	1.00	13.8
CAMO-22-251944	MCOI-6	07/20/2022	TDS	Total Dissolved Solids	351	mg/L	NQ	Yes	F	N3B-2022-2345	REG	EPA:160.1	3.40	1,000
CAMO-22-251943	MCOI-6	07/20/2022	TKN	Total Kjeldahl Nitrogen	0.154	mg/L	U	No	UF	N3B-2022-2345	REG	EPA:351.2	0.0330	-

Notes:

<sup>1</sup> mg/L - milligrams per liter.

ug/L - microgram per liter.

<sup>2</sup> NQ - No validation qualifier flag is associated with this result, and the analyte is classified as detected.

U - The analyte is classified as not detected.

<sup>3</sup> F - The sample was filtered.

UF - The sample was not filtered.

<sup>4</sup> REG - in the sample purpose column means the sample was a regular sample.

<sup>5</sup> Groundwater Limit represents standards for groundwater as identified NMAC 20.6.2.3103 except perchlorate which represents NMED Risk Assessment Guidance, Table A-1, Tap Water Limit. Total Kjeldahl Nitrogen does not contain either a NMAC 20.6.2.3103 standard or NMED Risk Assessment Guidance, Table A-1, Tap Water Limit.

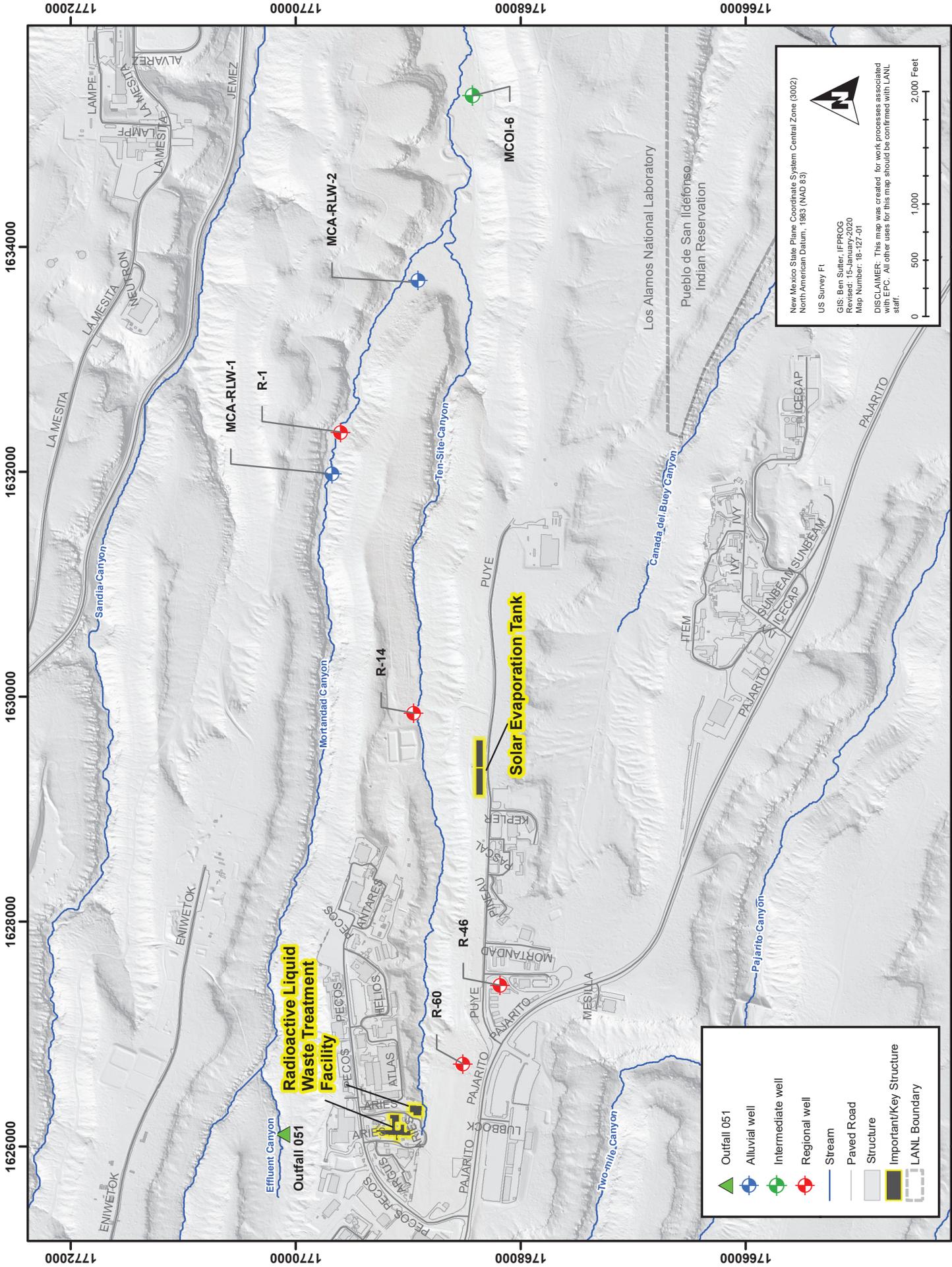
# **Attachment 6**

## Monitoring Well Location Map

EPC-DO: 22-285

LA-UR-22-30624

Date: 10/31/2022



	Outfall 051
	Alluvial well
	Intermediate well
	Regional well
	Stream
	Paved Road
	Structure
	Important/Key Structure
	LANL Boundary

New Mexico State Plane Coordinate System Central Zone (9002)  
 North American Datum, 1983 (NAD 83)

US Survey Ft

GIS: Ben Sutter, JFPROG  
 Revised: 15-January-2020  
 Map Number: 18-127-01

DISCLAIMER: This map was created for work processes associated with EPC. All other uses for this map should be confirmed with LANL staff.

0 500 1,000 2,000 Feet