

Ms. Ann DiDonato
U.S. EPA Region 3
1650 Arch Street
Mail Code 3HS31
Philadelphia, PA 19103

Arcadis U.S., Inc.
1 Harvard Way
Suite 5
Hillsborough
New Jersey 08844
Tel 908 526 1000
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www.arcadis.com

Subject:

Quarterly Progress Report: October through December 2021
Precision National Plating Services, Inc.
Clarks Summit, Pennsylvania
Docket No. CERC-03-2012-0031DC

ELECTRONIC MAIL

Dear Ms. DiDonato:

On behalf of Precision National Plating Services, Inc. (Precision), Arcadis U.S., Inc. (Arcadis) is submitting this progress report to summarize the activities completed between October 1, 2021 and December 31, 2021. This progress report is being submitted in accordance with Section 8.7 of the Administrative Settlement Agreement and Order on Consent (AS) for Removal Response Action (Docket No. CERC-03-2012-0031DC).

ENVIRONMENT

Date:
May 25, 2022

Contact:
Lawrence G. Brunt, PE

Phone:
908.526.1000

Email:
Larry.brun@arcadis.com

Our ref:
30090360.004

1. Response actions completed and the actions that have been taken toward achieving compliance with the Settlement Agreement:

General

Precision and Arcadis worked closely with the U.S. Environmental Protection Agency (U.S. EPA) from October through December 2021 to do the following:

- Precision performed semiannual groundwater monitoring in October 2021 as approved in the RAP.
- Precision performed general site maintenance activities.
- Precision also provided the U.S. EPA and PADEP with available sampling information.

Ongoing Administrative Settlement (AS) Activities

Seep Remediation

- Precision continued the operation of the Seep Shed treatment system.

- The influent and effluent of the Seep Shed Treatment System were sampled on October 20, 2021, for hexavalent chromium and total chromium. The midpoints between the resin beds of the system also were sampled. At the time of sampling, the influent pH was 7.10 su and the temperature was 10.9° C.
- On October 20, 2021, the flow totalizer reading for the Seep Shed Treatment System was 7,359,892 gallons.
- The influent and effluent of the Seep Shed Treatment System were sampled on November 19, 2021, for hexavalent chromium and total chromium. The midpoints between the resin beds of the system were also sampled for hexavalent and total chromium. At the time of sampling, the influent pH was 7.04 su and the temperature was 10.9° C.
- On November 19, 2021, the Seep Shed flow totalizer reading was 7,416,664 gallons.
- The influent and effluent of the Seep Shed Treatment System were sampled on December 10, 2021, for hexavalent chromium and total chromium. The midpoints between the resin beds of the system were also sampled for hexavalent and total chromium. At the time of sampling, the influent pH was 7.17 su and the temperature was 10.0° C.
- On December 10, 2021, the flow totalizer reading for the Seep Shed Treatment System was 7,446,214 gallons.

Lagoon Assessment/Remediation Activities

- Precision continued the operation of the Lagoon Treatment System.
- The influent and system effluent of the Lagoon Treatment System were sampled on October 20, 2021, for hexavalent chromium and TAL metals. The effluent of the lead resin bed was also sampled for hexavalent chromium and total chromium. The pH of the lagoon system influent at the time of sampling was 7.07 su and the temperature was 11.7° C.
- By October 20, 2021, the total volume treated by the Lagoon Treatment System was approximately 38,397,950 gallons.
- The influent and system effluent of the Lagoon Treatment System were sampled on November 19, 2021, for hexavalent chromium and TAL metals. The effluent of the lead resin bed was also sampled for hexavalent chromium and total chromium. The pH of the lagoon system influent at the time of sampling was 7.07 su and the temperature was 10.4° C.
- By November 19, 2021, the total volume treated by the Lagoon Treatment System was 38,633,384 gallons.
- The influent and system effluent of the Lagoon Treatment System were sampled on December 10, 2021, for hexavalent chromium and TAL metals. The effluent of the lead resin bed was also

sampled for hexavalent chromium and total chromium. The pH of the lagoon system influent at the time of sampling was 7.09 su and the temperature was 10.1° C.

- By December 10, 2021, the total volume treated by the Lagoon Treatment System was approximately 38,738,976 gallons.

Semiannual Groundwater Monitoring

- As approved, groundwater samples were collected from wells and seeps on and around the Precision site in October 2021. Samples were analyzed for hexavalent chromium and total chromium. Analytical results were received from TestAmerica Laboratories and validated. Summaries of the data are attached.

Additional Monitoring

- To supplement the semiannual monitoring and monthly treatment system monitoring, samples were collected from the French Drain Sump and Lagoon Sump on October 20, 2021, November 19, 2021, and December 10, 2021. Samples were analyzed for hexavalent chromium and total chromium. Analytical results were received from TestAmerica Laboratories and validated. Summaries of the data are attached.

2. Description of all data anticipated, and activities scheduled for the next ninety (90) calendar days:

- Operation of the treatment systems will continue at the site.
- Precision will sample the Lagoon and Seep Shed Treatment systems monthly in January, February, and March 2022. Data is anticipated to be received four weeks after each sampling event.
- Semiannual surface water monitoring is scheduled for January 2022

3. Description of any problems encountered or anticipated:

- None.

4. Any actions taken to prevent or mitigate such problems.

- None.

5. A schedule for completion of such actions:

- Containment and treatment of water in the lagoon will continue as needed.
- Operation of the Seep Shed treatment system will continue as needed.

6. Analytical data received during the reporting period:

- Laboratory data for the samples collected during the October 2021 semiannual groundwater monitoring event were received from TestAmerica Laboratories and validated. Summaries of the data are attached.
- Laboratory data for the samples collected from the Lagoon and French Drain sumps on October 20, 2021 were received from TestAmerica Laboratories and validated. Summaries of the data are attached.
- Laboratory data for the October 20, 2021 sampling of the Seep Shed Treatment System and the Lagoon Treatment System were received from TestAmerica Laboratories and validated. A summary of the data is attached.

Hexavalent chromium and total chromium were not detected above the laboratory method detection limits in the effluent of the Lagoon Treatment System.

Hexavalent chromium was not detected above the laboratory method detection limit in the effluent of the Seep Shed Treatment System. Total chromium was detected in the effluent at a concentration of 24.2 ug/L, which does not exceed the MCL of 100 ug/L.

- Laboratory data for the November 19, 2021 sampling of the Lagoon and Seep Shed Treatment Systems were received from TestAmerica Laboratories and validated. A summary of the data is attached.

Hexavalent chromium and total chromium were not detected above the laboratory method detection limits in the effluent of the Lagoon Treatment System.

Hexavalent chromium was not detected above the laboratory method detection limit in the effluent of the Seep Shed Treatment System. Total chromium was detected in the effluent at a concentration of 12.6 ug/L, which does not exceed the MCL of 100 ug/L.

- Laboratory data for the samples collected from the Lagoon and French Drain sumps on November 19, 2021 were received from TestAmerica Laboratories and validated. Summaries of the data are attached.
- Laboratory data for the December 10, 2021 sampling of the Lagoon Treatment System and the Seep Shed Treatment System were received from TestAmerica Laboratories and validated. A summary of the data is attached.

Hexavalent chromium and total chromium were not detected above the laboratory method detection limits in the effluent of the Lagoon Treatment System.

Hexavalent chromium was not detected above the laboratory method detection limit in the effluent of the Seep Shed Treatment System. Total chromium was detected in the effluent at an estimated concentration of 7.8 ug/L, which does not exceed the MCL of 100 ug/L.

Ms. Ann DiDonato
U.S. EPA
May 25, 2022

- Laboratory data for the samples collected from the Lagoon and French Drain sumps on December 10, 2021 were received from TestAmerica Laboratories and validated. Summaries of the data are attached.

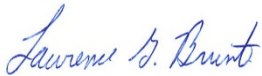
7. Modifications to the response action, RAP, and schedule made in accordance with Section XIV of the Settlement Agreement during this reporting period.

- None.

If you have any questions or require additional information, please call me at 908.526.1000.

Sincerely,

Arcadis U.S., Inc.

A handwritten signature in blue ink that reads "Lawrence G. Brunt".

Lawrence G. Brunt, P.E.
Principal Engineer

Copies:
D. Rood - PADEP

Enclosure

Data Validation Summary

Arcadis U.S., Inc. (Arcadis) performed a level III data validation evaluation of the analytical data collected during the Precision National Plating site investigation. The data evaluation was conducted in accordance with the United States Environmental Protection Agency's (USEPA) Data Validation Functional Guidelines for Evaluating Environmental Analyses, "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," dated October 1999, and "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," dated October 2004 ("the USEPA Guidance"). The following is a summary of the analytical data review for samples collected and analyzed from October through December 2021. The samples were submitted to TestAmerica Laboratories located in Edison, New Jersey for analysis. The TestAmerica sample delivery groups (SDGs) evaluated for this report include: 460-244828-1, 460-244887-1, 460-245036-1, 460-245111-1, 460-245164-1, 460-245314-1, 460-245449-1, 460-245509-1, 460-245514-1, 460-247648-1, and 460-248840-1.

The samples were analyzed using the following methods:

EPA Method 200.7 for metals
EPA Method 245.1 for mercury
EPA Method 7196A for hexavalent chromium

The data were evaluated based on the following parameters according to the USEPA Guidance for Level III data validation:

- data completeness
- holding times
- blanks
- duplicates and ICP serial dilution
- matrix spike/matrix spike duplicate/post-digestion spike recoveries (MS/MSD/PDS)
- laboratory control spike/laboratory control spike duplicate recoveries (LCS/LCSD)

A review of the laboratory reports revealed no issues which caused the data to be qualified. The sample temperature, hold times, calibrations, laboratory control samples, duplicates, serial dilutions, and all other laboratory blanks were all within compliance criteria for all samples.

The following items were noted during the data review:

The laboratory indicated the percent recovery of hexavalent chromium in the matrix spike was lower than the acceptance criteria (46%) in analysis batch 460-814492 which included samples from PNP SDG 460-247648-1. However, the sample utilized for the matrix spike analysis was not a PNP sample and the concentrations of the spike and sample were several orders of magnitude greater than the concentrations identified in the PNP samples in that SDG, most of which were not detected above the method detection limit. All other QA/QC parameters were in compliance. Therefore, the hexavalent chromium results are not qualified based on the poor matrix spike recovery in a sample that could not be considered similar enough to be representative of the PNP samples.

The relative percent difference was high (26%) between the concentration of chromium in the initial result and the duplicate sample analyzed along with metals batch 460-816570, which included samples from PNP SDG 460-247648-1. The sample used for the duplicate analysis was PNP sample Seep Shed Effluent (460-247648-8). However, the concentrations of chromium in the sample and the duplicate were less than five times the method detection limit (MDL), so the criterion for comparison becomes the method detection limit. The difference in results is not greater than the method detection limit. All of the other QA/QC parameters were in compliance, so the chromium results are not qualified.

Data Validation Summary

Also, partial notes regarding the duplicate analysis of PNP sample MW-39S in metals batch 460-807751 and PNP sample MW-9IB in hexavalent chromium batch 460-807099 were reported in the Case Narrative documentation for the respective laboratory reports. However, there were no issues identified during the data evaluation with either of these analyses, so the results are not qualified.

Summary of Quality Assurance/Quality Control Evaluation of Data

Based upon the QA/QC review, the project data are valid and available for use in site characterization without qualifications.

TREATMENT SYSTEM AND SUMP MONITORING RESULTS

TestAmerica Laboratories, Inc.**Eurofins TestAmerica, Edison**

Lab Job ID: 460-245514-1

Job Description: Precision National Plating

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey 08844

Client ID	Seep Shed Influent			Seep Shed Mid			French Drain Sump			Seep Shed Effluent			Lagoon Sump		
Lab Sample ID	460-245514-1			460-245514-2			460-245514-3			460-245514-4			460-245514-5		
Sampling Date	10/20/2021 11:40:00			10/20/2021 11:41:00			10/20/2021 12:30:00			10/20/2021 11:42:00			10/20/2021 12:35:00		
Matrix	Water			Water			Water			Water			Water		
Unit															
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV 4.4(UG/L)															
Aluminum	NR			NR			NR			NR			NR		
Antimony	NR			NR			NR			NR			NR		
Arsenic	NR			NR			NR			NR			NR		
Barium	NR			NR			NR			NR			NR		
Beryllium	NR			NR			NR			NR			NR		
Cadmium	NR			NR			NR			NR			NR		
Calcium	NR			NR			NR			NR			NR		
Chromium	69.4		5.7	36.7		5.7	5.7	U	5.7	24.2		5.7	75.0		5.7
Cobalt	NR			NR			NR			NR			NR		
Copper	NR			NR			NR			NR			NR		
Iron	NR			NR			NR			NR			NR		
Lead	NR			NR			NR			NR			NR		
Magnesium	NR			NR			NR			NR			NR		
Manganese	NR			NR			NR			NR			NR		
Nickel	NR			NR			NR			NR			NR		
Potassium	NR			NR			NR			NR			NR		
Selenium	NR			NR			NR			NR			NR		
Silver	NR			NR			NR			NR			NR		
Sodium	NR			NR			NR			NR			NR		
Thallium	NR			NR			NR			NR			NR		
Vanadium	NR			NR			NR			NR			NR		
Zinc	NR			NR			NR			NR			NR		
WATER BY 245.1(UG/L)															
Mercury	NR			NR			NR			NR			NR		

NR: Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

Lab Contact:

Grace Chang

Project Manager II

(732)593-2579

TestAmerica Laboratories
Eurofins TestAmerica, Inc.

Lab Job ID: 460-245514-1
 Job Description: Precision National
 For:
 ARCADIS U.S., Inc
 1 Harvard Way
 Hillsborough, New Jersey 08844

Client ID	Lagoon Influent			Lagoon Post Lead			Lagoon Effluent		
Lab Sample ID	460-245514-6			460-245514-7			460-245514-8		
Sampling Date	10/20/2021 14:00:00			10/20/2021 14:01:00			10/20/2021 14:02:00		
Matrix	Water			Water			Water		
Unit									
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV 4.4(UG/L)									
Aluminum	40.7	U	40.7	NR			40.7	U	40.7
Antimony	7.8	U	7.8	NR			7.8	U	7.8
Arsenic	3.6	U	3.6	NR			3.6	U	3.6
Barium	23.8	J	20.9	NR			20.9	U	20.9
Beryllium	0.35	U	0.35	NR			0.35	U	0.35
Cadmium	0.31	U	0.31	NR			0.31	U	0.31
Calcium	57000		358	NR			53700		358
Chromium	70.3		5.7	5.7	U	5.7	5.7	U	5.7
Cobalt	3.4	U	3.4	NR			3.4	U	3.4
Copper	6.1	U	6.1	NR			6.1	U	6.1
Iron	1440		76.8	NR			76.8	U	76.8
Lead	10.3		3.1	NR			8.3		3.1
Magnesium	5650		329	NR			5350		329
Manganese	382		1.2	NR			2.2	J	1.2
Nickel	10.1	J	3.6	NR			3.6	U	3.6
Potassium	1780	J	492	NR			1810	J	492
Selenium	8.6	U	8.6	NR			8.6	U	8.6
Silver	5.0	U	5.0	NR			5.0	U	5.0
Sodium	26500		502	NR			25300		502
Thallium	5.8	U	5.8	NR			5.8	U	5.8
Vanadium	3.9	U	3.9	NR			3.9	U	3.9
Zinc	32.6		4.5	NR			4.5	U	4.5
WATER BY 245.1(UG/L)									
Mercury	0.091	U	0.091	NR			0.091	U	0.091

NR: Not Analyzed

J : Result is less than the RL but greater than MDL

U : Indicates the analyte was analyzed

Lab Contact:

Grace Chang

Project Manager II

(732)593-2579

TestAmerica Laboratories, Inc.**Eurofins TestAmerica, Edison**

Lab Job ID: 460-245514-1

Job Description: Precision National

Plating

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey 08844

Client ID	Seep Shed Influent			Seep Shed Mid			French Drain Sump			Seep Shed Effluent			Lagoon Sump		
Lab Sample ID	460-245514-1			460-245514-2			460-245514-3			460-245514-4			460-245514-5		
Sampling Date	10/20/2021 11:40:00			10/20/2021 11:41:00			10/20/2021 12:30:00			10/20/2021 11:42:00			10/20/2021 12:35:00		
Matrix	Water			Water			Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A															
Cr (VI) (ug/l)	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1	31.9		8.1

U : Indicates the analyte was analyzed for but not detected.

Lab Contact:

Grace Chang

Project Manager II

(732)593-2579

TestAmerica Labor**Eurofins TestAmer**

Lab Job ID: 460-245514-1

Job Description: Precision

Plating

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey

Client ID	Lagoon Influent			Lagoon Post Lead			Lagoon Effluent		
Lab Sample ID	460-245514-6			460-245514-7			460-245514-8		
Sampling Date	10/20/2021 14:00:00			10/20/2021 14:01:00			10/20/2021 14:02:00		
Matrix	Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A									
Cr (VI) (ug/l)	31.9		8.1	8.1	U	8.1	8.1	U	8.1

U : Indicates the analyte was a

Lab Contact:

Grace Chang

Project Manager II

(732)593-2579

TestAmerica Laboratories, Inc.

Eurofins TestAmerica, Edison

Lab Job ID: 460-247648-1

Job Description: Precision National Plating

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey 08844

Client ID	Lagoon Influent			Lagoon Post Lead			Lagoon Effluent			Lagoon Sump		
Lab Sample ID	460-247648-1			460-247648-2			460-247648-3			460-247648-4		
Sampling Date	11/19/2021 13:05:00			11/19/2021 13:06:00			11/19/2021 13:07:00			11/19/2021 13:20:00		
Matrix	Water			Water			Water			Water		
Unit												
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV 4.4(UG/L)												
Aluminum	40.7	U	40.7	NR			40.7	U	40.7	NR		
Antimony	7.8	U	7.8	NR			7.8	U	7.8	NR		
Arsenic	3.6	U	3.6	NR			3.6	U	3.6	NR		
Barium	20.9	U	20.9	NR			20.9	U	20.9	NR		
Beryllium	0.35	U	0.35	NR			0.35	U	0.35	NR		
Cadmium	0.31	U	0.31	NR			0.31	U	0.31	NR		
Calcium	47200		358	NR			43400		358	NR		
Chromium	90.1		5.7	6.2	J	5.7	5.7	U	5.7	488		5.7
Cobalt	3.4	U	3.4	NR			3.4	U	3.4	NR		
Copper	6.1	U	6.1	NR			6.1	U	6.1	NR		
Iron	265		76.8	NR			76.8	U	76.8	NR		
Lead	6.8		3.1	NR			5.9		3.1	NR		
Magnesium	4740	J	329	NR			4410	J	329	NR		
Manganese	20.6		1.2	NR			3.5	J	1.2	NR		
Nickel	3.6	U	3.6	NR			3.6	U	3.6	NR		
Potassium	1750	J	492	NR			1610	J	492	NR		
Selenium	8.6	U	8.6	NR			8.6	U	8.6	NR		
Silver	5.0	U	5.0	NR			5.0	U	5.0	NR		
Sodium	18900		502	NR			17300		502	NR		
Thallium	5.8	U	5.8	NR			5.8	U	5.8	NR		
Vanadium	3.9	U	3.9	NR			3.9	U	3.9	NR		
Zinc	14.0	J	4.5	NR			5.0	J	4.5	NR		

WATER BY 245.1(UG/L)												
Mercury	0.091	U	0.091	NR			0.091	U	0.091	NR		

NR: Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

Lab Contact:

Grace Chang

Project Manager II

(732)593-2579

TestAmerica Laboratory
Eurofins TestAmerica

Lab Job ID: 460-247648-1

Job Description: Precision Na

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey 088

Client ID	French Drain Sump			Seep Shed Influent			Seep Shed Mid			Seep Shed Effluent		
Lab Sample ID	460-247648-5			460-247648-6			460-247648-7			460-247648-8		
Sampling Date	11/19/2021 13:25:00			11/19/2021 13:45:00			11/19/2021 13:46:00			11/19/2021 13:47:00		
Matrix	Water			Water			Water			Water		
Unit												
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV 4.4(UG/L)												
Aluminum	NR			NR			NR			NR		
Antimony	NR			NR			NR			NR		
Arsenic	NR			NR			NR			NR		
Barium	NR			NR			NR			NR		
Beryllium	NR			NR			NR			NR		
Cadmium	NR			NR			NR			NR		
Calcium	NR			NR			NR			NR		
Chromium	18.0		5.7	398		5.7	12.6		5.7	13.9		5.7
Cobalt	NR			NR			NR			NR		
Copper	NR			NR			NR			NR		
Iron	NR			NR			NR			NR		
Lead	NR			NR			NR			NR		
Magnesium	NR			NR			NR			NR		
Manganese	NR			NR			NR			NR		
Nickel	NR			NR			NR			NR		
Potassium	NR			NR			NR			NR		
Selenium	NR			NR			NR			NR		
Silver	NR			NR			NR			NR		
Sodium	NR			NR			NR			NR		
Thallium	NR			NR			NR			NR		
Vanadium	NR			NR			NR			NR		
Zinc	NR			NR			NR			NR		
WATER BY 245.1(UG/L)												
Mercury	NR			NR			NR			NR		

NR: Not Analyzed

J : Result is less than the RL but greater than MDL

U : Indicates the analyte was analyzed

Lab Contact:

Grace Chang

Project Manager II

(732)593-2579

TestAmerica Laboratories, Inc.
Eurofins TestAmerica, Edison

Lab Job ID: 460-247648-1

Job Description: Precision National Plating

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey 08844

Client ID	Lagoon Influent			Lagoon Post Lead			Lagoon Effluent			Lagoon Sump			French Drain Sump		
Lab Sample ID	460-247648-1			460-247648-2			460-247648-3			460-247648-4			460-247648-5		
Sampling Date	11/19/2021 13:05:00			11/19/2021 13:06:00			11/19/2021 13:07:00			11/19/2021 13:20:00			11/19/2021 13:25:00		
Matrix	Water			Water			Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A															
Cr (VI) (ug/l)	8.1	U	8.1	69.2		8.1	8.1	U	8.1	81.4		8.1	8.1	U	8.1

U : Indicates the analyte was analyzed for but not detected.

Lab Contact:

Grace Chang

Project Manager II

(732)593-2579

TestAmerica Laborato
Eurofins TestAmerica,

Lab Job ID: 460-247648-1

Job Description: Precision Nati

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey 0884

Client ID	Seep Shed Influent			Seep Shed Mid			Seep Shed Effluent		
Lab Sample ID	460-247648-6			460-247648-7			460-247648-8		
Sampling Date	11/19/2021 13:45:00			11/19/2021 13:46:00			11/19/2021 13:47:00		
Matrix	Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A									
Cr (VI) (ug/l)	329		40.7	8.1	U	8.1	8.1	U	8.1

U : Indicates the analyte was analyz

Lab Contact:

Grace Chang

Project Manager II

(732)593-2579

TestAmerica Laboratories, Inc.
Eurofins TestAmerica, Edison

Lab Job ID: 460-248840-1

Job Description: Precision National Plating

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey 08844

Client ID	Lagoon Influent			Lagoon Post Lead			Lagoon Effluent			Seep Shed Influent		
Lab Sample ID	460-248840-1			460-248840-2			460-248840-3			460-248840-4		
Sampling Date	12/10/2021 13:00:00			12/10/2021 13:01:00			12/10/2021 13:02:00			12/10/2021 13:45:00		
Matrix	Water			Water			Water			Water		
Unit												
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV 4.4(UG/L)												
Aluminum	40.7	U	40.7	NR			40.7	U	40.7	NR		
Antimony	7.8	U	7.8	NR			7.8	U	7.8	NR		
Arsenic	4.7	J	3.6	NR			3.7	J	3.6	NR		
Barium	20.9	U	20.9	NR			20.9	U	20.9	NR		
Beryllium	0.35	U	0.35	NR			0.35	U	0.35	NR		
Cadmium	0.31	U	0.31	NR			0.31	U	0.31	NR		
Calcium	53800		358	NR			57300		358	NR		
Chromium	129		5.7	8.0	J	5.7	5.7	U	5.7	96.1		5.7
Cobalt	3.4	U	3.4	NR			3.4	U	3.4	NR		
Copper	6.1	U	6.1	NR			6.1	U	6.1	NR		
Iron	448		76.8	NR			76.8	U	76.8	NR		
Lead	17.4		3.1	NR			18.7		3.1	NR		
Magnesium	5390		329	NR			5770		329	NR		
Manganese	84.1		1.2	NR			2.3	J	1.2	NR		
Nickel	14.2	J	3.6	NR			3.6	U	3.6	NR		
Potassium	1330	J	492	NR			1340	J	492	NR		
Selenium	8.6	U	8.6	NR			8.6	U	8.6	NR		
Silver	5.0	U	5.0	NR			5.0	U	5.0	NR		
Sodium	22700		502	NR			24100		502	NR		
Thallium	5.8	U	5.8	NR			5.8	U	5.8	NR		
Vanadium	3.9	U	3.9	NR			3.9	U	3.9	NR		
Zinc	19.2	J	4.5	NR			4.5	U	4.5	NR		

WATER BY 245.1(UG/L)												
Mercury	0.091	U	0.091	NR			0.091	U	0.091	NR		

NR: Not Analyzed

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

Lab Contact:
 Grace Chang
 Project Manager II
 (732)593-2579

TestAmerica Laboratories, I
Eurofins TestAmerica, Edison

Lab Job ID: 460-248840-1

Job Description: Precision National Pla

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey 08844

Client ID	Seep Shed Mid			Seep Shed Effluent			Lagoon Sump			French Drain Sump		
Lab Sample ID	460-248840-5			460-248840-6			460-248840-7			460-248840-8		
Sampling Date	12/10/2021 13:46:00			12/10/2021 13:47:00			12/10/2021 13:30:00			12/10/2021 13:35:00		
Matrix	Water			Water			Water			Water		
Unit												
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV 4.4(UG/L)												
Aluminum	NR			NR			NR			NR		
Antimony	NR			NR			NR			NR		
Arsenic	NR			NR			NR			NR		
Barium	NR			NR			NR			NR		
Beryllium	NR			NR			NR			NR		
Cadmium	NR			NR			NR			NR		
Calcium	NR			NR			NR			NR		
Chromium	90.8		5.7	7.8	J	5.7	160		5.7	71.5		5.7
Cobalt	NR			NR			NR			NR		
Copper	NR			NR			NR			NR		
Iron	NR			NR			NR			NR		
Lead	NR			NR			NR			NR		
Magnesium	NR			NR			NR			NR		
Manganese	NR			NR			NR			NR		
Nickel	NR			NR			NR			NR		
Potassium	NR			NR			NR			NR		
Selenium	NR			NR			NR			NR		
Silver	NR			NR			NR			NR		
Sodium	NR			NR			NR			NR		
Thallium	NR			NR			NR			NR		
Vanadium	NR			NR			NR			NR		
Zinc	NR			NR			NR			NR		

WATER BY 245.1(UG/L)												
Mercury	NR			NR			NR			NR		

NR: Not Analyzed

J : Result is less than the RL but greater than

U : Indicates the analyte was analyzed for b

Lab Contact:

Grace Chang

Project Manager II

(732)593-2579

TestAmerica Laboratories, Inc.**Eurofins TestAmerica, Edison**

Lab Job ID: 460-248840-1

Job Description: Precision National Plating

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey 08844

Client ID	Lagoon Influent			Lagoon Post Lead			Lagoon Effluent			Seep Shed Influent			Seep Shed Mid		
Lab Sample ID	460-248840-1			460-248840-2			460-248840-3			460-248840-4			460-248840-5		
Sampling Date	12/10/2021 13:00:00			12/10/2021 13:01:00			12/10/2021 13:02:00			12/10/2021 13:45:00			12/10/2021 13:46:00		
Matrix	Water			Water			Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A															
Cr (VI) (ug/l)	108		8.1	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1

U : Indicates the analyte was analyzed for but not detected.

Lab Contact:

Grace Chang

Project Manager II

(732)593-2579

TestAmerica Laboratories, I
Eurofins TestAmerica, Edison

Lab Job ID: 460-248840-1

Job Description: Precision National Pl

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey 08844

Client ID	Seep Shed Effluent			Lagoon Sump			French Drain Sump		
Lab Sample ID	460-248840-6			460-248840-7			460-248840-8		
Sampling Date	12/10/2021 13:47:00			12/10/2021 13:30:00			12/10/2021 13:35:00		
Matrix	Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A									
Cr (VI) (ug/l)	8.1	U	8.1	132		8.1	21.1		8.1

U : Indicates the analyte was analyzed for b

Lab Contact:

Grace Chang

Project Manager II

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SEMIANNUAL GROUNDWATER MONITORING RESULTS

TestAmerica Laboratories, Inc.
Eurofins TestAmerica, Edison

Lab Job ID: 460-244828-1
Job Description: Precision National
Plating
For:
ARCADIS U.S., Inc
1 Harvard Way
Hillsborough, New Jersey 08844

Client ID	MW-11S			OMW-17			MW-11I			MW-18S			OMW-30			MW-18I		
Lab Sample ID	460-244828-1			460-244828-2			460-244828-3			460-244828-4			460-244828-5			460-244828-6		
Sampling Date	10/11/2021 15:10:00			10/11/2021 14:20:00			10/11/2021 13:40:00			10/11/2021 14:20:00			10/11/2021 13:35:00			10/11/2021 15:05:00		
Matrix	Water			Water			Water			Water			Water			Water		
Unit																		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV																		
Chromium	279		5.7	29.5		5.7	71.2		5.7	19.2		5.7	374		5.7	101		5.7

Lab Contact:
Grace Chang
Project Manager II
(732)593-2579

TestAmerica Laboratories, Inc.
Eurofins TestAmerica, Edison

Lab Job ID: 460-244828-1
Job Description: Precision National
Plating
For:
ARCADIS U.S., Inc
1 Harvard Way
Hillsborough, New Jersey 08844

Client ID	MW-11S			OMW-17			MW-11I			MW-18S			OMW-30			MW-18I		
Lab Sample ID	460-244828-1			460-244828-2			460-244828-3			460-244828-4			460-244828-5			460-244828-6		
Sampling Date	10/11/2021 15:10:00			10/11/2021 14:20:00			10/11/2021 13:40:00			10/11/2021 14:20:00			10/11/2021 13:35:00			10/11/2021 15:05:00		
Matrix	Water			Water			Water			Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A																		
Cr (VI) (ug/l)	8.1	U	8.1	16.3	U	16.3	13.7		8.1	8.1	U	8.1	8.1	U	8.1	16.3	U	16.3

U : Indicates the analyte was analyzed for but not detected.

Lab Contact:
Grace Chang
Project Manager II
(732)593-2579

TestAmerica Laboratories, Inc.
Eurofins TestAmerica, Edison

Lab Job ID: 460-244887-1
Job Description: Precision National Plating
For:
ARCADIS U.S., Inc
1 Harvard Way
Hillsborough, New Jersey 08844

Client ID	MW-39S			MW-49S			AGM-5I			AGM-55			OMW-38			MW-38I			MW-44S		
Lab Sample ID	460-244887-1			460-244887-2			460-244887-3			460-244887-4			460-244887-5			460-244887-6			460-244887-7		
Sampling Date	10/12/2021 12:50:00			10/12/2021 15:00:00			10/12/2021 11:30:00			10/12/2021 10:50:00			10/12/2021 13:00:00			10/12/2021 14:00:00			10/12/2021 12:10:00		
Matrix	Water			Water			Water			Water			Water			Water			Water		
Unit																					
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV 4.4(UG/L)																					
Chromium	7.7	J	5.7	5.7	U	5.7	5.7	U	5.7	12.3		5.7	10.8		5.7	5.7	U	5.7	5.7	U	5.7

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U : Indicates the analyte was analyzed for but not detected.

Lab Contact:
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Lab Job ID: 460-244887-1
Job Description: Precision Na
For:
ARCADIS U.S., Inc
1 Harvard Way
Hillsborough, New Jersey 088

Client ID	OMW-44			MW-38S			OMW-48			OMW-40			MW-40I			MW-40D			MW-41D		
Lab Sample ID	460-244887-8			460-244887-9			460-244887-10			460-244887-11			460-244887-12			460-244887-13			460-244887-14		
Sampling Date	10/12/2021 11:10:00			10/12/2021 14:45:00			10/12/2021 15:15:00			10/12/2021 12:35:00			10/12/2021 11:45:00			10/12/2021 10:50:00			10/12/2021 13:35:00		
Matrix	Water			Water			Water			Water			Water			Water			Water		
Unit																					
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV 4.4(UG/L)																					
Chromium	12.8		5.7	5.7	U	5.7	47.5		5.7	216		5.7	68.9		5.7	6.1	J	5.7	5.7	U	5.7

J : Result is less than the RL but gr
U : Indicates the analyte was anal

Lab Contact:
Grace Chang
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TestAmerica Laboratory
Eurofins TestAmerica

Lab Job ID: 460-244887-1
Job Description: Precision Na
For:
ARCADIS U.S., Inc
1 Harvard Way
Hillsborough, New Jersey 088

Client ID	OMW-41			MW-42D			OMW-42		
Lab Sample ID	460-244887-15			460-244887-16			460-244887-17		
Sampling Date	10/12/2021 14:10:00			10/12/2021 15:10:00			10/12/2021 13:45:00		
Matrix	Water			Water			Water		
Unit									
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV 4.4(UG/L)									
Chromium	69.6		5.7	5.7	U	5.7	94.6		5.7

J : Result is less than the RL but gr
U : Indicates the analyte was anal

Lab Contact:
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TestAmerica Laboratories, Inc.
Eurofins TestAmerica, Edison

Lab Job ID: 460-244887-1
Job Description: Precision National
Plating
For:
ARCADIS U.S., Inc
1 Harvard Way
Hillsborough, New Jersey 08844

Client ID	MW-39S			MW-49S			AGM-5I			AGM-55			OMW-38			MW-38I			MW-44S		
Lab Sample ID	460-244887-1			460-244887-2			460-244887-3			460-244887-4			460-244887-5			460-244887-6			460-244887-7		
Sampling Date	10/12/2021 12:50:00			10/12/2021 15:00:00			10/12/2021 11:30:00			10/12/2021 10:50:00			10/12/2021 13:00:00			10/12/2021 14:00:00			10/12/2021 12:10:00		
Matrix	Water			Water			Water			Water			Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A																					
Cr (VI) (ug/l)	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U : Indicates the analyte was analyzed for but not detected.

Lab Contact:
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TestAmerica Labora
Eurofins TestAmeric

Lab Job ID: 460-244887-1
Job Description: Precision N
Plating
For:
ARCADIS U.S., Inc
1 Harvard Way
Hillsborough, New Jersey 08

Client ID	OMW-44			MW-38S			OMW-48			OMW-40			MW-40I			MW-40D			MW-41D		
Lab Sample ID	460-244887-8			460-244887-9			460-244887-10			460-244887-11			460-244887-12			460-244887-13			460-244887-14		
Sampling Date	10/12/2021 11:10:00			10/12/2021 14:45:00			10/12/2021 15:15:00			10/12/2021 12:35:00			10/12/2021 11:45:00			10/12/2021 10:50:00			10/12/2021 13:35:00		
Matrix	Water			Water			Water			Water			Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A																					
Cr (VI) (ug/l)	8.1	U	8.1	8.1	U	8.1	43.7		8.1	8.1	U	8.1	8.1	U	8.1	8.3	J	8.1	8.1	U	8.1

J : Result is less than the RL but
U : Indicates the analyte was an

Lab Contact:
Grace Chang
Project Manager II
(732)593-2579

TestAmerica Labora
Eurofins TestAmeric

Lab Job ID: 460-244887-1
Job Description: Precision N
Plating
For:
ARCADIS U.S., Inc
1 Harvard Way
Hillsborough, New Jersey 08

Client ID	OMW-41			MW-42D			OMW-42		
Lab Sample ID	460-244887-15			460-244887-16			460-244887-17		
Sampling Date	10/12/2021 14:10:00			10/12/2021 15:10:00			10/12/2021 13:45:00		
Matrix	Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A									
Cr (VI) (ug/l)	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1

J : Result is less than the RL but
U : Indicates the analyte was an

Lab Contact:
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TestAmerica Laboratories, Inc.
Eurofins TestAmerica, Edison

Lab Job ID: 460-245036-1

Job Description: Precision National Plating

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey 08844

Client ID	MW-9D			OMW-15			MW-9S			OMW-47			MW-48S			MW-43D		
Lab Sample ID	460-245036-1			460-245036-2			460-245036-3			460-245036-4			460-245036-5			460-245036-6		
Sampling Date	10/13/2021 14:55:00			10/13/2021 14:05:00			10/13/2021 13:20:00			10/13/2021 12:00:00			10/13/2021 11:05:00			10/13/2021 10:20:00		
Matrix	Water			Water			Water			Water			Water			Water		
Unit																		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV 4.4(UG/L)																		
Chromium	5.7	U	5.7	5.7	U	5.7	131		5.7	6.7	J	5.7	10.2		5.7	5.7	U	5.7

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

Lab Contact:

Grace Chang

Project Manager II

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TestAmerica Laboratori
Eurofins TestAmerica, E

Lab Job ID: 460-245036-1
Job Description: Precision Nation
For:
ARCADIS U.S., Inc
1 Harvard Way
Hillsborough, New Jersey 08844

Client ID	MW-9IA			MW-46S			OMW-46			OMW-43			MW-45S			OMW-39		
Lab Sample ID	460-245036-7			460-245036-8			460-245036-9			460-245036-10			460-245036-11			460-245036-12		
Sampling Date	10/13/2021 15:20:00			10/13/2021 13:45:00			10/13/2021 12:50:00			10/13/2021 10:40:00			10/13/2021 11:50:00			10/13/2021 10:45:00		
Matrix	Water			Water			Water			Water			Water			Water		
Unit																		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV 4.4(UG/L)																		
Chromium	5.7	U	5.7	12.5		5.7	20.0		5.7	275		5.7	53.9		5.7	16.4		5.7

J : Result is less than the RL but greater than the MDL
U : Indicates the analyte was analyzed

Lab Contact:
Grace Chang
Project Manager II
(732)593-2579

TestAmerica Laboratori
Eurofins TestAmerica, E

Lab Job ID: 460-245036-1
Job Description: Precision Nation
For:
ARCADIS U.S., Inc
1 Harvard Way
Hillsborough, New Jersey 08844

Client ID	MW-14S			MW-15S			MW-9IB		
Lab Sample ID	460-245036-13			460-245036-14			460-245036-15		
Sampling Date	10/13/2021 12:10:00			10/13/2021 13:30:00			10/13/2021 15:00:00		
Matrix	Water			Water			Water		
Unit									
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV 4.4(UG/L)									
Chromium	13.9		5.7	109		5.7	8.5	J	5.7

J : Result is less than the RL but greater than the MDL
U : Indicates the analyte was analyzed

Lab Contact:
Grace Chang
Project Manager II
(732)593-2579

TestAmerica Laboratories, Inc.
Eurofins TestAmerica, Edison

Lab Job ID: 460-245036-1

Job Description: Precision National Plating

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey 08844

Client ID	MW-9D			OMW-15			MW-9S			OMW-47			MW-48S			MW-43D		
Lab Sample ID	460-245036-1			460-245036-2			460-245036-3			460-245036-4			460-245036-5			460-245036-6		
Sampling Date	10/13/2021 14:55:00			10/13/2021 14:05:00			10/13/2021 13:20:00			10/13/2021 12:00:00			10/13/2021 11:05:00			10/13/2021 10:20:00		
Matrix	Water			Water			Water			Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A																		
Cr (VI) (ug/l)	8.1	U	8.1	8.1	U	8.1	102		8.1	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

Lab Contact:

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(732)593-2579

TestAmerica Laboratories
Eurofins TestAmerica, Ed

Lab Job ID: 460-245036-1
Job Description: Precision National
For:
ARCADIS U.S., Inc
1 Harvard Way
Hillsborough, New Jersey 08844

Client ID	MW-9IA			MW-46S			OMW-46			OMW-43			MW-45S			OMW-39		
Lab Sample ID	460-245036-7			460-245036-8			460-245036-9			460-245036-10			460-245036-11			460-245036-12		
Sampling Date	10/13/2021 15:20:00			10/13/2021 13:45:00			10/13/2021 12:50:00			10/13/2021 10:40:00			10/13/2021 11:50:00			10/13/2021 10:45:00		
Matrix	Water			Water			Water			Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A																		
Cr (VI) (ug/l)	58.0		8.1	40.7	U	40.7	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1

J : Result is less than the RL but greater t
U : Indicates the analyte was analyzed fc

Lab Contact:
Grace Chang
Project Manager II
(732)593-2579

TestAmerica Laboratories
Eurofins TestAmerica, Edison

Lab Job ID: 460-245036-1
Job Description: Precision National
For:
ARCADIS U.S., Inc
1 Harvard Way
Hillsborough, New Jersey 08844

Client ID	MW-14S			MW-15S			MW-91B		
Lab Sample ID	460-245036-13			460-245036-14			460-245036-15		
Sampling Date	10/13/2021 12:10:00			10/13/2021 13:30:00			10/13/2021 15:00:00		
Matrix	Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A									
Cr (VI) (ug/l)	8.1	U	8.1	8.1	U	8.1	8.1	J	8.1

J : Result is less than the RL but greater t
U : Indicates the analyte was analyzed fc

Lab Contact:
Grace Chang
Project Manager II
(732)593-2579

TestAmerica Laboratories, Inc.
Eurofins TestAmerica, Edison

Lab Job ID: 460-245111-1

Job Description: Precision National

Plating

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey 08844

Client ID	OMW-26			OMW-28			AGM-3I			OMW-18			OMW-24			SB-1		
Lab Sample ID	460-245111-1			460-245111-2			460-245111-3			460-245111-4			460-245111-5			460-245111-6		
Sampling Date	10/14/2021 13:20:00			10/14/2021 12:30:00			10/14/2021 11:00:00			10/14/2021 15:15:00			10/14/2021 09:00:00			10/14/2021 15:20:00		
Matrix	Water			Water			Water			Water			Water			Water		
Unit																		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV 4.4(UG/L)																		
Chromium	5.7	U	5.7	5.7	U	5.7	7.8	J	5.7	5.7	U	5.7	232		5.7	77.5		5.7

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

Lab Contact:

Grace Chang

Project Manager II

(732)593-2579

Lab Job ID: 460-245111-1
Job Description: Precision Na
Plating
For:
ARCADIS U.S., Inc
1 Harvard Way
Hillsborough, New Jersey 08

Client ID	OMW-27			OMW-29			SB-2			AGM-4S			MW-17S			MW-27S		
Lab Sample ID	460-245111-7			460-245111-8			460-245111-9			460-245111-10			460-245111-11			460-245111-12		
Sampling Date	10/14/2021 12:00:00			10/14/2021 10:20:00			10/14/2021 15:50:00			10/14/2021 13:30:00			10/14/2021 11:05:00			10/14/2021 13:20:00		
Matrix	Water			Water			Water			Water			Water			Water		
Unit																		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV 4.4(UG/L)																		
Chromium	40.9		5.7	7.5	J	5.7	380		5.7	5.7	U	5.7	37.0		5.7	5.7	U	5.7

J : Result is less than the RL but gr
U : Indicates the analyte was anal

Lab Contact:
Grace Chang
Project Manager II
(732)593-2579

Lab Job ID: 460-245111-1

Job Description: Precision Na

Plating

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey 08

Client ID	AGM-2I			AGM-2S			AGM-4S		
Lab Sample ID	460-245111-13			460-245111-14			460-245111-15		
Sampling Date	10/14/2021 11:15:00			10/14/2021 10:25:00			10/14/2021 12:35:00		
Matrix	Water			Water			Water		
Unit									
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV 4.4(UG/L)									
Chromium	5.7	U	5.7	5.7	U	5.7	5.7	U	5.7

J : Result is less than the RL but gr

U : Indicates the analyte was anal

Lab Contact:

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TestAmerica Laboratories, Inc.**Eurofins TestAmerica, Edison**

Lab Job ID: 460-245111-1

Job Description: Precision National

Plating

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey 08844

Client ID	OMW-26			OMW-28			AGM-3I			OMW-18			OMW-24			SB-1		
Lab Sample ID	460-245111-1			460-245111-2			460-245111-3			460-245111-4			460-245111-5			460-245111-6		
Sampling Date	10/14/2021 13:20:00			10/14/2021 12:30:00			10/14/2021 11:00:00			10/14/2021 15:15:00			10/14/2021 09:00:00			10/14/2021 15:20:00		
Matrix	Water			Water			Water			Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A																		
Cr (VI) (ug/l)	8.1	U	8.1	40.7	U	40.7	40.7	U	40.7	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1

U : Indicates the analyte was analyzed for but not detected.

Lab Contact:

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TestAmerica Labora
Eurofins TestAmeric

Lab Job ID: 460-245111-1
 Job Description: Precision N
 Plating
 For:
 ARCADIS U.S., Inc
 1 Harvard Way
 Hillsborough, New Jersey 08

Client ID	OMW-27			OMW-29			SB-2			AGM-4S			MW-17S			MW-27S		
Lab Sample ID	460-245111-7			460-245111-8			460-245111-9			460-245111-10			460-245111-11			460-245111-12		
Sampling Date	10/14/2021 12:00:00			10/14/2021 10:20:00			10/14/2021 15:50:00			10/14/2021 13:30:00			10/14/2021 11:05:00			10/14/2021 13:20:00		
Matrix	Water			Water			Water			Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A																		
Cr (VI) (ug/l)	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1

U : Indicates the analyte was ana

Lab Contact:
 Grace Chang
 Project Manager II
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TestAmerica Labora
Eurofins TestAmeric

Lab Job ID: 460-245111-1
Job Description: Precision N
Plating
For:
ARCADIS U.S., Inc
1 Harvard Way
Hillsborough, New Jersey 08

Client ID	AGM-2I			AGM-2S			AGM-4S		
Lab Sample ID	460-245111-13			460-245111-14			460-245111-15		
Sampling Date	10/14/2021 11:15:00			10/14/2021 10:25:00			10/14/2021 12:35:00		
Matrix	Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A									
Cr (VI) (ug/l)	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1

U : Indicates the analyte was ana

Lab Contact:
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TestAmerica Laboratories, Inc.**Eurofins TestAmerica, Edison**

Lab Job ID: 460-245164-1

Job Description: Precision National

Plating

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey 08844

Client ID	MW-LS			OMW-3			OMW-32			MW-BD			MW-BS			OMW-6		
Lab Sample ID	460-245164-1			460-245164-2			460-245164-3			460-245164-4			460-245164-5			460-245164-6		
Sampling Date	10/15/2021 10:30:00			10/15/2021 11:33:00			10/15/2021 12:30:00			10/15/2021 11:10:00			10/15/2021 10:25:00			10/15/2021 12:10:00		
Matrix	Water			Water			Water			Water			Water			Water		
Unit																		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV																		
Chromium	10.4		5.7	30.1		5.7	1110		5.7	11.8		5.7	25.9		5.7	7.4	J	5.7

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

Lab Contact:

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Project Manager II

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TestAmerica Labora
Eurofins TestAmeric

Lab Job ID: 460-245164-1

Job Description: Precision N

Plating

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey 08043

Client ID	MW-30			MW-21S			SB-6			SB-10			MW-23		
Lab Sample ID	460-245164-7			460-245164-8			460-245164-9			460-245164-10			460-245164-11		
Sampling Date	10/15/2021 13:00:00			10/15/2021 10:30:00			10/15/2021 12:30:00			10/15/2021 11:40:00			10/15/2021 14:00:00		
Matrix	Water			Water			Water			Water			Water		
Unit															
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV															
Chromium	5.7	U	5.7	13.5		5.7	10		5.7	644		5.7	5.7	U	5.7

J : Result is less than the RL but g

U : Indicates the analyte was ana

Lab Contact:

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TestAmerica Laboratories, Inc.
Eurofins TestAmerica, Edison

Lab Job ID: 460-245164-1

Job Description: Precision National

Plating

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey 08844

Client ID	MW-LS			OMW-3			OMW-32			MW-BD			MW-BS			OMW-6		
Lab Sample ID	460-245164-1			460-245164-2			460-245164-3			460-245164-4			460-245164-5			460-245164-6		
Sampling Date	10/15/2021 10:30:00			10/15/2021 11:33:00			10/15/2021 12:30:00			10/15/2021 11:10:00			10/15/2021 10:25:00			10/15/2021 12:10:00		
Matrix	Water			Water			Water			Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A																		
Cr (VI) (ug/l)	8.1	U	8.1	8.1	U	8.1	565		40.7	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1

U : Indicates the analyte was analyzed for but not detected.

Lab Contact:

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Project Manager II

(732)593-2579

Lab Job ID: 460-245164-1

Job Description: Precision

Plating

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey

Client ID	MW-30			MW-21S			SB-6			SB-10			MW-23		
Lab Sample ID	460-245164-7			460-245164-8			460-245164-9			460-245164-10			460-245164-11		
Sampling Date	10/15/2021 13:00:00			10/15/2021 10:30:00			10/15/2021 12:30:00			10/15/2021 11:40:00			10/15/2021 14:00:00		
Matrix	Water			Water			Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A															
Cr (VI) (ug/l)	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1

U : Indicates the analyte was a

Lab Contact:

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TestAmerica Laboratories, Inc.
Eurofins TestAmerica, Edison

Lab Job ID: 460-245314-1
Job Description: Precision National Plating
For:
ARCADIS U.S., Inc
1 Harvard Way
Hillsborough, New Jersey 08844

Client ID	MW-B01S			OMW-13			MW-B01D			MW-29			OMW-11			OMW-4		
Lab Sample ID	460-245314-1			460-245314-2			460-245314-3			460-245314-4			460-245314-5			460-245314-6		
Sampling Date	10/18/2021 12:15:00			10/18/2021 14:15:00			10/18/2021 13:15:00			10/18/2021 15:20:00			10/18/2021 11:10:00			10/18/2021 15:30:00		
Matrix	Water			Water			Water			Water			Water			Water		
Unit																		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV 4.4(UG/L)																		
Chromium	21.7		5.7	13.0		5.7	80.9		5.7	288		5.7	52.0		5.7	30.2		5.7

Lab Contact:
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TestAmerica Laboratc
Eurofins TestAmerica

Lab Job ID: 460-245314-1

Job Description: Precision Nat

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey 088

Client ID	MW-28I			MW-24			MW-28S		
Lab Sample ID	460-245314-7			460-245314-8			460-245314-9		
Sampling Date	10/18/2021 13:45:00			10/18/2021 11:50:00			10/18/2021 12:45:00		
Matrix	Water			Water			Water		
Unit									
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV 4.4(UG/L)									
Chromium	15.1		5.7	16.6		5.7	22.0		5.7

Lab Contact:

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TestAmerica Laboratories, Inc.
Eurofins TestAmerica, Edison

Lab Job ID: 460-245314-1

Job Description: Precision National Plating

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey 08844

Client ID	MW-B01S			OMW-13			MW-B01D			MW-29			OMW-11			OMW-4		
Lab Sample ID	460-245314-1			460-245314-2			460-245314-3			460-245314-4			460-245314-5			460-245314-6		
Sampling Date	10/18/2021 12:15:00			10/18/2021 14:15:00			10/18/2021 13:15:00			10/18/2021 15:20:00			10/18/2021 11:10:00			10/18/2021 15:30:00		
Matrix	Water			Water			Water			Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A																		
Cr (VI) (ug/l)	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

Lab Contact:

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Project Manager II

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TestAmerica Laboratories
Eurofins TestAmerica, Edison

Lab Job ID: 460-245314-1
 Job Description: Precision National
 For:
 ARCADIS U.S., Inc
 1 Harvard Way
 Hillsborough, New Jersey 08844

Client ID	MW-28I			MW-24			MW-28S		
Lab Sample ID	460-245314-7			460-245314-8			460-245314-9		
Sampling Date	10/18/2021 13:45:00			10/18/2021 11:50:00			10/18/2021 12:45:00		
Matrix	Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A									
Cr (VI) (ug/l)	8.1	U	8.1	8.1	U	8.1	8.1	J	8.1

J : Result is less than the RL but greater than the MDL

U : Indicates the analyte was analyzed but not detected

Lab Contact:
 Grace Chang
 Project Manager II
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TestAmerica Laboratories, Inc.
Eurofins TestAmerica, Edison

Lab Job ID: 460-245449-1
Job Description: Precision National Plating
For:
ARCADIS U.S., Inc
1 Harvard Way
Hillsborough, New Jersey 08844

Client ID	MW-12S			OMW-16			MW-12I			MW-10S			MW-37S			MW-10I		
Lab Sample ID	460-245449-1			460-245449-2			460-245449-3			460-245449-4			460-245449-5			460-245449-6		
Sampling Date	10/19/2021 13:40:00			10/19/2021 11:25:00			10/19/2021 12:40:00			10/19/2021 10:45:00			10/19/2021 14:55:00			10/19/2021 09:50:00		
Matrix	Water			Water			Water			Water			Water			Water		
Unit																		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV 4.4(UG/L)																		
Chromium	21.2		5.7	11.2		5.7	304		5.7	5890		5.7	18.6		5.7	49.2		5.7

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Lab Contact:
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Lab Job ID: 460-245449-1
Job Description: Precision Nat
For:
ARCADIS U.S., Inc
1 Harvard Way
Hillsborough, New Jersey 088

Client ID	MW-CS			MW-3D			MW-3S			MW-CI			MW-AS			MW-AD			OMW-2		
Lab Sample ID	460-245449-7			460-245449-8			460-245449-9			460-245449-10			460-245449-11			460-245449-12			460-245449-13		
Sampling Date	10/19/2021 14:00:00			10/19/2021 12:35:00			10/19/2021 11:55:00			10/19/2021 14:45:00			10/19/2021 09:50:00			10/19/2021 10:55:00			10/19/2021 15:15:00		
Matrix	Water			Water			Water			Water			Water			Water			Water		
Unit																					
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV 4.4(UG/L)																					
Chromium	72.9		5.7	226		5.7	157		5.7	6.3	J	5.7	7.8	J	5.7	86.6		5.7	141		5.7

J : Result is less than the RL but gre

Lab Contact:
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TestAmerica Laboratories, Inc.
Eurofins TestAmerica, Edison

Lab Job ID: 460-245449-1
Job Description: Precision National
Plating
For:
ARCADIS U.S., Inc
1 Harvard Way
Hillsborough, New Jersey 08844

Client ID	MW-12S			OMW-16			MW-12I			MW-10S			MW-37S			MW-10I		
Lab Sample ID	460-245449-1			460-245449-2			460-245449-3			460-245449-4			460-245449-5			460-245449-6		
Sampling Date	10/19/2021 13:40:00			10/19/2021 11:25:00			10/19/2021 12:40:00			10/19/2021 10:45:00			10/19/2021 14:55:00			10/19/2021 09:50:00		
Matrix	Water			Water			Water			Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A																		
Cr (VI) (ug/l)	8.1	U	8.1	8.1	U	8.1	16.3	U	16.3	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1

U : Indicates the analyte was analyzed for but not detected.

Lab Contact:
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(732)593-2579

Lab Job ID: 460-245449-1
Job Description: Precision N
Plating
For:
ARCADIS U.S., Inc
1 Harvard Way
Hillsborough, New Jersey 08

Client ID	MW-CS			MW-3D			MW-3S			MW-CI			MW-AS			MW-AD			OMW-2		
Lab Sample ID	460-245449-7			460-245449-8			460-245449-9			460-245449-10			460-245449-11			460-245449-12			460-245449-13		
Sampling Date	10/19/2021 14:00:00			10/19/2021 12:35:00			10/19/2021 11:55:00			10/19/2021 14:45:00			10/19/2021 09:50:00			10/19/2021 10:55:00			10/19/2021 15:15:00		
Matrix	Water			Water			Water			Water			Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A																					
Cr (VI) (ug/l)	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1	16.3	U	16.3	106		8.1

U : Indicates the analyte was ana

Lab Contact:
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TestAmerica Laboratories, Inc.**Eurofins TestAmerica, Edison**

Lab Job ID: 460-245509-1

Job Description: Precision National

Plating

For:

ARCADIS U.S., Inc

1 Harvard Way

Client ID	Res-2			MW-4D			MW-4S			MW-31I			MW-22I			Res-1		
Lab Sample ID	460-245509-1			460-245509-2			460-245509-3			460-245509-4			460-245509-5			460-245509-6		
Sampling Date	10/20/2021 12:45:00			10/20/2021 12:50:00			10/20/2021 12:00:00			10/20/2021 10:15:00			10/20/2021 10:10:00			10/20/2021 10:45:00		
Matrix	Water			Water			Water			Water			Water			Water		
Unit																		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 200.7 REV 4.4(UG/L)																		
Chromium	5.7	U	5.7	8.5	J	5.7	16.3		5.7	41.6		5.7	109		5.7	5.7	U	5.7

J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U : Indicates the analyte was analyzed for but not detected.

Lab Contact:

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TestAmerica Laboratories, Inc.**Eurofins TestAmerica, Edison**

Lab Job ID: 460-245509-1

Job Description: Precision National

Plating

For:

ARCADIS U.S., Inc

1 Harvard Way

Hillsborough, New Jersey 08844

Client ID	Res-2			MW-4D			MW-4S			MW-31I			MW-22I			Res-1		
Lab Sample ID	460-245509-1			460-245509-2			460-245509-3			460-245509-4			460-245509-5			460-245509-6		
Sampling Date	10/20/2021 12:45:00			10/20/2021 12:50:00			10/20/2021 12:00:00			10/20/2021 10:15:00			10/20/2021 10:10:00			10/20/2021 10:45:00		
Matrix	Water			Water			Water			Water			Water			Water		
	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
WATER BY 7196A																		
Cr (VI) (ug/l)	8.1	U	8.1	8.1	U	8.1	40.7	U	40.7	8.1	U	8.1	8.1	U	8.1	8.1	U	8.1

U : Indicates the analyte was analyzed for but not detected.

Lab Contact:

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