

6390 Joyce Drive
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Golden, CO 80403

Phone 303-940-0033
Fax 866-283-0269
www.phenova.com

September 24, 2021

Ms. Lana Jackson
Alloway - Lima
1101 N. Cole Street
Lima, OH 45805
United States

Dear Lana,

Thank you for participating in the DMRQA41-Chem DMRQA PT Study. Enclosed is your final report, which has been carefully reviewed by the PT specialists at Phenova.

For any analyte falling outside the established acceptance limits, our PT management staff would like to assist you in determining the most appropriate course of corrective action for your facility. Please contact us at any time if we may be of service to you. A final report for your laboratory will be sent to all accrediting agencies you requested at the time of data submittal.

Thank you again for participating in the DMRQA41-Chem DMRQA PT Study. We appreciate working with you and look forward to our next study. If you have any questions, please call us at 303-940-0033.



Report Definitions:

NELAC Experimental Analytes

NELAC Experimental Analytes must be run twice a year. Due to the experimental nature of the acceptance limits, accreditation status is not based on the evaluation received.

Assigned Value

The Assigned Value is determined from the study mean, gravimetric and volumetric true concentration of an analyte to be analyzed, calculation and/or an appropriate reference value as stipulated in the EPA National Standards for Water Proficiency Testing Studies Criteria Document (current version), the National Environmental Laboratory Accreditation Conference (NELAC) criteria (ref: NELAC FOT tables, NELAC PT Committee) and other documents distributed by accrediting agencies as applicable.

Evaluation Limits

Acceptance Limits are derived from fixed limits, coefficients, constants and calculations stipulated in the EPA National Standards for Water Proficiency Testing Studies Criteria Documents (current version), the National Environmental Laboratory Accreditation Conference (NELAC) criteria (ref: NELAC PT FOT tables, NELAC PT Committee) and other documents distributed by accrediting agencies as applicable.

Evaluation

Acceptable

The reported value falls within the Acceptance Limits.

Not Acceptable

The reported value falls outside the Acceptance Limits.

No Evaluation

The reported value is non-numeric and can not be evaluated.

NR

As required by the NELAC standards and requested by state authorities, any analyte purchased but not reported by your facility is listed as NR (Not Reported).

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Final Report - DMRQA PT

Study: DMRQA41-Chem

Opening Date: April 23, 2021 - Closing Date: August 27, 2021

Facility: Alloway - Lima
1101 N. Cole Street
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Contact: Ms. Lana Jackson, Laboratory Manager
419-223-1362

EPA Lab ID: OH00202

NPDES Permit ID:

Trace Metals (PT-TM1-DMRQA) Lot #: 8550-04

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1000	Aluminum		EPA 200.7	µg/L	1020	1100	897 - 1130	837 - 1190	Acceptable
1005	Antimony		EPA 200.8	µg/L	633	644	552 - 697	516 - 731	Acceptable
1010	Arsenic		EPA 200.8	µg/L	738	737	660 - 812	624 - 842	Acceptable
1015	Barium		EPA 200.7	µg/L	261	271		222 - 300	Acceptable
1015	Barium		EPA 200.8	µg/L	261	257		222 - 300	Acceptable
1020	Beryllium		EPA 200.7	µg/L	119	127		101 - 137	Acceptable
1020	Beryllium		EPA 200.8	µg/L	119	113		101 - 137	Acceptable
1030	Cadmium		EPA 200.7	µg/L	275	293		234 - 316	Acceptable
1030	Cadmium		EPA 200.8	µg/L	275	271		234 - 316	Acceptable
1040	Chromium		EPA 200.7	µg/L	809	859		688 - 930	Acceptable
1040	Chromium		EPA 200.8	µg/L	809	784		688 - 930	Acceptable
1050	Cobalt		EPA 200.7	µg/L	361	381		307 - 415	Acceptable
1050	Cobalt		EPA 200.8	µg/L	361	339		307 - 415	Acceptable
1055	Copper		EPA 200.7	µg/L	471	506		401 - 542	Acceptable
1055	Copper		EPA 200.8	µg/L	471	449		401 - 542	Acceptable
1070	Iron		EPA 200.7	µg/L	3450	3790		2940 - 3970	Acceptable
1075	Lead		EPA 200.7	µg/L	898	897		764 - 1030	Acceptable
1075	Lead		EPA 200.8	µg/L	898	886		764 - 1030	Acceptable
1090	Manganese		EPA 200.7	µg/L	1070	1170		912 - 1230	Acceptable
1090	Manganese		EPA 200.8	µg/L	1070	1020		912 - 1230	Acceptable
1100	Molybdenum		EPA 200.7	µg/L	136	142	120 - 151	113 - 158	Acceptable
1100	Molybdenum		EPA 200.8	µg/L	136	137	120 - 151	113 - 158	Acceptable
1105	Nickel		EPA 200.7	µg/L	1020	1040	914 - 1120	895 - 1140	Acceptable
1105	Nickel		EPA 200.8	µg/L	1020	958	914 - 1120	895 - 1140	Acceptable
1140	Selenium		EPA 200.8	µg/L	823	824		699 - 946	Acceptable
1150	Silver		EPA 200.7	µg/L	585	620		498 - 673	Acceptable
1150	Silver		EPA 200.8	µg/L	585	574		498 - 673	Acceptable

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Trace Metals (PT-TM1-DMRQA) cont'd Lot #: 8550-04

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1165	Thallium		EPA 200.8	µg/L	380	377	332 - 421	309 - 444	Acceptable
1185	Vanadium		EPA 200.7	µg/L	1320	1365		1130 - 1520	Acceptable
1185	Vanadium		EPA 200.8	µg/L	1320	1220		1130 - 1520	Acceptable
1190	Zinc		EPA 200.7	µg/L	582	597		495 - 670	Acceptable
1190	Zinc		EPA 200.8	µg/L	582	538		495 - 670	Acceptable

Mercury (PT-HG-DMRQA) Lot #: 8550-05

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1095	Mercury		EPA 245.1	µg/L	25.2	25.5		17.6 - 32.7	Acceptable

Chromium VI (PT-CR6-DMRQA) Lot #: 8550-06

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1045	Chromium VI		SM 3500 Cr B	µg/L	756	746	674 - 831	636 - 865	Acceptable

Demand (PT-DEM-DMRQA) Lot #: 8550-07

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1530	BOD		SM 5210B	mg/L	83.9	77.7	55.1 - 140	42.6 - 140	Acceptable
1555	CBOD		SM 5210B	mg/L	83.9	76.5	46.3 - 140	33.2 - 140	Acceptable
1565	COD		Hach 8000	mg/L	130	137	110 - 145	102 - 153	Acceptable
2040	TOC		SM 5310B	mg/L	51.4	50.3	45.6 - 56.7	42.8 - 59.5	Acceptable

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Solids (PT-SOL-DMRQA) Lot #: 8550-09

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1955	Total Dissolved Solids at 180° (TFR)		USGS-I375085	mg/L	584	573	525 - 642	525 - 642	Acceptable
1960	Non-Filterable Residue (TSS)		USGS-I376585	mg/L	37.4	36.0	30.3 - 41.1	27.6 - 43.8	Acceptable

Minerals 1 (PT-MIN1-DMRQA) Lot #: 8550-08

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1505	Total Alkalinity(as CaCO3)		SM 2320B	mg/L	291	294		248 - 335	Acceptable
1575	Chloride		EPA 300.0	mg/L	170	171	153 - 187	150 - 190	Acceptable
1730	Fluoride		EPA 300.0	mg/L	1.47	1.30	1.25 - 1.65	1.15 - 1.75	Acceptable
2000	Sulfate		EPA 300.0	mg/L	21.5	20.9	18.4 - 23.8	17.0 - 25.1	Acceptable

Minerals 2 - Hardness (PT-MIN2-DMRQA) Lot #: 8550-102

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1755	Total Hardness (as CaCO3)		SM 2340C	mg/L	114	120		97.3 - 132	Acceptable
1755	Total Hardness (as CaCO3)		SM 2340B	mg/L	114	125		97.3 - 132	Acceptable

Specific Conductance (PT-COND-DMRQA) Lot #: 8550-72

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1610	Specific Conductance (25°C)		EPA 120.1	µmhos/cm	818	819		736 - 900	Acceptable

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Nutrients 1 - Simple (PT-NUT1-DMRQA) Lot #: 8550-10

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1515	Ammonia as N		EPA 350.1	mg/L	1.92	1.81	1.56 - 2.37	1.35 - 2.57	Acceptable
1810	Nitrate as N		EPA 353.2/SM4500NO3	mg/L	20.3	20.3	18.1 - 22.5	17.0 - 23.6	Acceptable
1810	Nitrate as N		EPA 300.0	mg/L	20.3	20.0	18.1 - 22.5	17.0 - 23.6	Acceptable
1870	Orthophosphate as P		EPA 365.3	mg/L	2.29	2.22		1.95 - 2.63	Acceptable

Nutrients 2 - Complex (PT-NUT2-DMRQA) Lot #: 8550-11

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1795	Total Kjeldahl Nitrogen (TKN)		EPA 351.2	mg/L	13.2	13.3	10.8 - 15.2	9.74 - 16.3	Acceptable
1910	Total Phosphorous		EPA 365.3	mg/L	5.30	5.43	4.69 - 5.86	4.39 - 6.15	Acceptable

Nutrients 3 - Nitrite (PT-NUT3-DMRQA) Lot #: 8550-69

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1840	Nitrite as N		SM 4500NO2B	mg/L	1.21	1.20	1.07 - 1.35	0.998 - 1.42	Acceptable
1840	Nitrite as N		EPA 300.0	mg/L	1.21	1.25	1.07 - 1.35	0.998 - 1.42	Acceptable

Oil & Grease - 1L (PT-OGR1L-DMRQA) Lot #: 8550-103

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1803	Oil & Grease		EPA 1664A	mg/L	148	149	118 - 163	108 - 169	Acceptable

Residual Chlorine (PT-CL-DMRQA) Lot #: 8550-13

NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1940	Total Residual Chlorine		SM 4500 Cl G	mg/L	2.21	2.03	1.78 - 2.43	1.63 - 2.58	Acceptable

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pH (PT-PH-DMRQA) Lot #: 8550-15									
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1900	pH		SM 4500-H,B	S.U.	8.25	8.08		8.05 - 8.45	Acceptable
Total Cyanide (PT-CN-DMRQA) Lot #: 8550-14									
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1645	Total Cyanide		SM 4500-CN E	mg/L	0.798	0.740		0.519 - 1.08	Acceptable
Phenolics (PT-PHEN-DMRQA) Lot #: 8550-16									
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1905	Total Phenolics (4AAP)		EPA 420.1	mg/L	2.00	1.49	0.875 - 2.20	0.659 - 2.20	Acceptable
Settleable Solids (PT-SSOL-DMRQA) Lot #: 8550-17									
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
1965	Settleable Solids		SM 2540 F	mL/L	24.0	26.0	21.3 - 28.8	19.4 - 30.7	Acceptable
Turbidity (PT-TURB-DMRQA) Lot #: 8550-20									
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
2055	Turbidity		SM 2130 B	NTU	11.1	9.56	9.76 - 12.5	9.07 - 13.2	Acceptable

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Micro (Fecal, E. Coli & Total) (PT-MIC-DMRQA)								Lot #: 8550-12	
NELAC Code	Analyte	Method Code	Method Description	Units	Assigned Value	Result	Warning Limits	Acceptance Limits	Evaluation
2530	Fecal Coliform, MF			CFU/100 mL	505			206 - 1240	NR
2500	Total Coliform, MF			CFU/100 mL	806			337 - 1930	NR
2525	E. Coli, MF			CFU/100 mL	428			46 - 3970	NR
2530	Fecal Coliform, MPN		SM 9223 B	MPN/100 mL	622	687		131 - 2950	Acceptable
2500	Total Coliform, MPN			MPN/100 mL	684			263 - 1780	NR
2525	E. Coli, MPN		SM 9223 B	MPN/100 mL	716	771		368 - 1390	Acceptable