

11 October 2023

Mr. Joshuah Klier
Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road
Avon, New York 14414-9519

Re: Spring 2023 Monitoring Report Arch Chemicals (Site #828018a – former Olin Chemicals Group), 100 McKee Rd., Rochester, NY

Dear Mr. Klier:

On behalf of Arch Chemicals, Inc. (Arch), MACTEC Engineering and Geology, P.C. (MACTEC) submits the attached Spring 2023 Monitoring Report for the Arch Chemicals Site in Rochester, New York. The report describes the results of the semi-annual groundwater and surface water monitoring completed in May 2023 as part of Arch's on-going monitoring program at the site. An electronic data deliverable (EDD) of the analytical results will be provided to the New York State Department of Environmental Conservation in a separate online submittal.

If you have any questions regarding this report, please call me at (207) 712-8020 or by email at nelson.breton@wsp.com.

Sincerely,

MACTEC Engineering and Geology, P.C

Nelson Breton Project Manager

encl.

cc : Christopher Budd, NYSDOH – Albany

Jean Robert Jean, USEPA Region II

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Arch Chemicals, Inc.

Rochester, New York (Site #828018a)

Spring 2023 Monitoring Report Report #70

October 2023

SURFACE WATER AND GROUNDWATER MONITORING PROGRAM SPRING 2023 MONITORING REPORT

Arch Chemicals Rochester Plant Site Rochester, New York

Arch Chemicals, Inc.

October 2023



SURFACE WATER AND GROUNDWATER MONITORING PROGRAM **SPRING 2023 MONITORING REPORT**

ARCH CHEMICALS ROCHESTER PLANT SITE ROCHESTER, NEW YORK

Prepared by

MACTEC Engineering & Geology, Inc. Portland, Maine

for

ARCH CHEMICALS, INC.

October 2023

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EXECUTIVE SUMMARY

This monitoring report presents the results of an ongoing groundwater and surface water monitoring program being conducted by Arch Chemicals at its Rochester, New York, manufacturing facility. Arch Chemicals, Inc., (formerly the Lonza Specialty Ingredients division of Lonza) is an affiliate of Arxada, a global chemicals supplier for microbial control solutions and specialty products solutions that is headquartered in Basel, Switzerland.

During this monitoring event conducted in May 2023, samples from a total of 39 groundwater monitoring or pumping wells and four locations associated with the Dolomite Products Quarry seep and outfall at the Erie Canal were collected by Matrix Environmental Technologies Inc., of Orchard Park, New York, and analyzed by Paradigm Environmental Services, Inc., of Rochester, New York.

As in prior reports, monitoring results were compared with previous average concentrations at each sampling location. Eighteen of the 39 groundwater or pumping wells sampled for chloropyridines had contaminant concentrations that were above their respective 5-year prior averages. Fifteen of the 39 wells sampled for volatile organic compounds had concentrations above their 5-year prior averages.

Sampling locations associated with the quarry included the main quarry seep (QS-4), the quarry ditch where the quarry dewatering discharge enters the ditch (QD-1), an outfall downstream of the quarry ditch where water discharges into the Erie Barge Canal (QO-2), and the surface water in the canal approximately 100-feet downstream of the QO-2 outfall (QO-2S1). The total concentration of chloropyridines in quarry seep QS-4 was 21 micrograms per liter (μ g/L), less than the prior 5-year average of 66 μ g/L. Chloropyridines were not detected in the sample at location QD-1 where the quarry dewatering discharge enters the ditch, the ditch outfall sample at location QO-2, or in canal water at sample location QO-2S1.

On-site monitoring wells were checked for the presence of floating (or light) non-aqueous phase liquids (LNAPL) for the Spring 2023 sampling event. LNAPL was not observed in any of these wells.

During the period December 2022 through May 2023, the on-site groundwater extraction system pumped approximately 5.8 million gallons of groundwater to the on-site treatment system, containing an estimated 1,500 pounds of chloropyridines and 8.1 pounds of target volatile organic compounds.

A pilot test in groundwater treatment and groundwater monitoring for horizontal well HW-1 was initiated on July 10, 2023, and is expected to extend into October 2023.

The next regular monitoring event will occur in November 2023 and will include groundwater, surface water, and seep sampling.

1.0 INTRODUCTION

In accordance with the Order on Consent executed between Arch Chemicals, Inc., and the New York State Department of Environmental Conservation (NYSDEC), effective August 21, 2003, Arch is conducting a Remedial Action program at its facility on McKee Road in Rochester, New York. As part of this program, Arch conducts twice-yearly monitoring events consisting of sampling and chemical analysis of groundwater and surface water in the vicinity of the Rochester facility.

The Spring 2023 sampling event included the collection and analysis of groundwater, surface water, and seep samples from a total of 43 off-site and on-site locations. Samples were collected from 5 May through 12 May 2023 for analysis of selected chloropyridines and volatile organic compounds (VOCs).

This report presents the results of the Spring 2023 monitoring event.

2.0 SAMPLE COLLECTION AND ANALYSIS

2.1 GROUNDWATER

Groundwater samples were collected from off-site wells and on-site wells for analysis of selected chloropyridines (2-chloropyridine, 2,6-dichloropyridine, 3-chloropyridine, 4-chloropyridine, and p-fluoroaniline) and target compound list (TCL) VOCs. Samples were collected by personnel from Matrix Environmental Technologies Inc., (Matrix) and transported to the analytical laboratories of Paradigm Environmental Services, Inc. (Paradigm) in Rochester, New York for analysis. Table 1 lists the wells that were sampled and the requested analyses, and the sampling locations are shown on Figures 1 and 2.

The Matrix Field Report, which includes groundwater sampling data sheets, is provided in Appendix A.

Groundwater was collected from most of the wells following the low flow/low stress purging technique using bladder or peristaltic pumps. Samples from active pumping wells were collected from the discharge lines.

Groundwater piezometric elevations were measured on 4 May 2023. Piezometric contours were constructed for each water-bearing zone (overburden, bedrock, and deep bedrock) and are presented on Figures 3, 4, and 5, respectively.

On-site monitoring wells were checked for the presence of LNAPL for the Spring 2023 event. LNAPL was not observed in any of the wells.

2.2 SURFACE WATER

Surface water and quarry seep samples were collected as part of the ongoing monitoring program for the Arch Rochester site. The location of the quarry and its outfall in relation to the site is shown on Figure 6. Samples of the main quarry seep (QS-4), the quarry ditch where the quarry dewatering discharge enters the ditch (QD-1), the quarry ditch outfall as it enters the Erie Barge Canal (QO-2), and the surface water in the canal approximately 100-feet downstream of the quarry ditch (QO-2S1) were collected by Matrix on 12 May 2023. All quarry-related samples were analyzed for selected chloropyridines and pyridine. The quarry locations sampled during the Spring 2023 event are shown on Figure 7.

2.3 ANALYTICAL PROCEDURES

Samples were analyzed for selected chloropyridines and pyridine (collectively referred to as chloropyridines) by USEPA SW-846 Method 8270D and for TCL VOCs by USEPA SW-846 Method 8260C. The reporting limits for the chloropyridines and VOCs are approximately 10 micrograms per liter (μ g/L) and 2 to 20 μ g/L, respectively, for undiluted samples.

2.4 QUALITY CONTROL

Laboratory analytical results were reviewed and qualified following USEPA "National Functional Guidelines for Organic Superfund Methods Data Review", November 2020, using professional judgment and guidance from USEPA Region II SOPs No. HW-24 Revision 4, October 2014, and No. HW-22 Revision 5, December 2010. Analytical results were evaluated for the following parameters:

- * Collection and Preservation
- * Holding Times
 - Surrogate Recoveries
- * Blank Contamination
- Duplicates

Laboratory Control Samples (LCS)

Matrix Spike/Matrix Spike Duplicates (MS/MSD)

Miscellaneous

With the qualifications discussed below, results are determined to be usable as reported by the laboratory.

<u>Surrogate Recoveries</u>. Percent recoveries of one or more VOC surrogates in a subset of samples were less than the laboratory statistically derived control limits, indicating potential low biases. Positive and non-detected VOC results in the following affected samples were qualified estimated with potential low bias (J-/UJ): BR-106, BR-127, E-3, PW-13, PW15, PZ-103, and PZ-105.

<u>Duplicates</u>. No field duplicates were collected for the May 2023 sampling event. Precision was evaluated using MS/MSDs.

^{* -} all criteria were met for this parameter

<u>LCS</u>. Due to unavailability of a secondary source standard containing a subset of target compounds, the VOC laboratory control samples associated with all field samples were not spiked with cyclohexane, acetic acid, and methylcyclohexane. Positive and non-detected results for cyclohexane, acetic acid, and methylcyclohexane in the affected samples were qualified estimated (J/UJ).

Percent recoveries of 1,4-dioxane (17 - 63), 2-butanone (61 - 69), 2-hexanone (62 - 69), and acetone (53 - 69) in laboratory control samples associated with multiple VOC samples in SDGs 231888, 231942, and 231998 were less than nominal control limits of 70 - 130, indicating potential low bias in associated samples. Nominal control limits were used in place of statistically derived laboratory control limits based on professional judgment. Results for 1,4-dioxane, 2-butanone, 2-hexanone, and acetone in the affected samples were qualified estimated (UJ) or estimated with potential low bias (J-).

Percent recoveries of 1,4-dioxane (29), 2-butanone (67), and 2-hexanone (67) in the LCS associated with VOC sample B17 were less than nominal control limits of 70 - 130, indicating potential low bias in sample B17. Nominal control limits were used in place of statistically derived laboratory control limits based on professional judgment. Reporting limits for 1,4-dioxane, 2-butanone, and 2-hexanone in sample B17 were qualified estimated (UJ).

The percent recovery of acetone (52) in the LCS associated with multiple VOC samples in SDG 231902 was less than nominal control limits of 70 - 130, indicating potential low bias in the associated samples. Nominal control limits were used in place of statistically derived laboratory control limits based on professional judgment. Reporting limits for acetone in the associated samples were qualified estimated (UJ).

Percent recoveries of 1,4-dioxane (43) and 2-hexanone (65) in the LCS associated with VOC sample BR-3 were less than nominal control limits of 70 - 130, indicating potential low bias in sample BR-3. Nominal control limits were used in place of statistically derived laboratory control limits based on professional judgment. Reporting limits for 1,4-dioxane and 2-hexanone in sample BR-3 were qualified estimated (UJ).

Percent recoveries of 1,4-dioxane (17), 2-butanone (69), and acetone (57) in laboratory control samples associated with multiple VOC samples in SDG 231973 were less than nominal control limits of 70 - 130, indicating potential low bias in associated samples. Nominal control limits were used in place of statistically derived laboratory control limits based on professional judgment. Results for 1,4-dioxane, 2-butanone, and acetone in the affected samples were qualified estimated (UJ) or estimated with potential low bias (J-).

Percent recovery of p-fluoroaniline (168) in the LCS associated with SVOC sample BR-105D was greater than nominal control limits of 50 - 140, indicating potential high bias for p-fluoroaniline in associated sample. Nominal control limits were used in place of statistically derived laboratory control limits based on professional judgment. The result for p-fluoroaniline in sample BR-105D was qualified estimated with potential high bias (J+).

Percent recoveries of multiple target compounds (13-40) in laboratory control samples associated with a subset of SVOC samples in SDGs 231888, 231902, 231942, 231973, and 232015 were less than nominal control limits of 50 - 140, indicating potential low bias in the associated samples. Nominal control limits were used in place of statistically derived laboratory control limits based on professional judgment. Positive and non-detected results

for 2-chloropyridine, 3-chloropyridine, 4-chloropyridine, and/or pyridine in the affected samples were qualified estimated (J-/UJ).

Percent recoveries of 2-chloropyridine (37), pyridine (25), and 4-chloropyridine (13) in the LCS associated with SVOC sample BR-105D were less than nominal control limits of 50 - 140, indicating potential low bias for pyridine in associated samples. Nominal control limits were used in place of statistically derived laboratory control limits based on professional judgment. Positive and non-detected results for 2-chloropyridine, pyridine, and 4-chloropyridine in the sample BR-105D were qualified estimated (J-/UJ).

MS/MSD. MS/MSD analyses were specified on the chain of custody forms for samples PZ104 and PW15 for both chloropyridines and VOCs, and QD-1 for chloropyridines only.

In the MS and MSD associated with VOC sample PZ104, percent recoveries of 2-butanone (63/61), 2-hexanone (69/66), and acetone (46/44) were less than the nominal control limits of 70 - 130, indicating a potential low bias. Reporting limits for the affected VOC analytes in sample PZ104 were qualified estimated (UJ).

In the MS and MSD associated with VOC sample PW15, percent recoveries of a subset of target compounds (38-69) were less than the nominal control limits of 70 - 130, indicating a potential low bias. Reporting limits for methylene chloride, bromomethane, acetone, 2-hexanone, and 2-butanone in sample PW15 were qualified estimated (UJ), and the detection of chloroform in sample PW15 was qualified estimated with potential low bias (J-).

In the MS and MSD associated with SVOC sample PZ104, percent recoveries of 3-chloropyridine (39/39), pyridine (27/26), and 4-chloropyridine (15/15) were less than the nominal control limits of 40 - 150, indicating a potential low bias. Reporting limits for the affected SVOC analytes in sample PZ104 were qualified estimated (UJ).

In the MS and MSD associated with SVOC sample QD-1, percent recoveries of a subset of parameters (12 - 37) were less than the nominal control limits of 40 - 150, indicating a potential low bias. Reporting limits for the affected SVOC analytes in sample QD-1 were qualified estimated (UJ).

<u>Miscellaneous</u>. Samples from a subset of wells were analyzed at dilutions due to high concentrations of volatile organic and/or semi-volatile organic target analytes. As a result, non-detections are reported at elevated reporting limits.

3.0 ANALYTICAL RESULTS

3.1 GROUNDWATER

The validated results from the Spring 2023 groundwater monitoring event are provided in Tables 2 and 3. Table 4 provides a comparison of the Spring 2023 analytical results for selected chloropyridines and VOCs to mean concentrations of the prior five years (Spring 2018 through Fall 2022). Concentration trends for both selected chloropyridines and VOCs are also presented as time-series plots for representative wells in Appendix B. A summary of the analytical findings is presented below by parameter class.

3.1.1 CHLOROPYRIDINES

On-Site. Chloropyridines were detected above sample quantitation limits in 23 of 24 of the on-site wells sampled in the Spring 2023 event. Concentrations of chloropyridines (sum of all chloropyridine and pyridine isomer concentrations) ranged from not detected in well B-15 to 320,000 μ g/L in well BR-8. Nine of the on-site wells exhibited total chloropyridine concentrations that were above their respective means from monitoring events over the previous five years (see Table 4).

Off-Site. Chloropyridines were detected above sample quantitation limits in 11 of 15 the off-site wells that were sampled in the Spring 2023 event. Concentrations of total chloropyridines ranged from not detected in BR-114, BR-117D, MW-114, and PZ-101 to 330,000 μ g/L in well PZ-103. Samples from nine of the off-site wells were reported with total chloropyridine concentrations above their respective five-year prior means (see Table 4).

Concentration Contours. Chloropyridines distribution in groundwater is shown as a set of concentration contours on Figure 8. The contours were developed using data from both overburden and bedrock monitoring wells. A notable increase in chloropyridines concentration was reported in wells BR-112D and BR-122D (see Figure 3 for BR-122D location). These deep bedrock wells appear to represent the core of the chloropyridine plume migration toward the Dolomite Quarry further west. The increased levels may represent a response to increases upgradient that were first observed in wells closer to the Site beginning in the Spring of 2021 (See Appendix B wells BR-106 and PZ-103).

3.1.2 SELECTED VOCS

On-Site. Selected VOCs were detected in 20 of the 24 on-site wells sampled for VOCs in the Spring 2023 event. Total concentrations of selected VOCs (sum of carbon tetrachloride, chlorobenzene, chloroform, methylene chloride, tetrachloroethene, and trichloroethene) ranged from not detected in wells B-15, BR-126, BR-5A, and MW-127 to 54,000 μ g/L in PW17. Seven of the on-site wells contained total concentrations of selected VOCs above their respective five-year prior means (see Table 4).

In addition to the selected VOCs, other notable constituents detected in multiple on-site wells include:

1,2-dichlorobenzene (11 of 24) 1,3-dichlorobenzene (9 of 24) 1,4-dichlorobenzene (9 of 24) benzene (15 of 24) carbon disulfide (8 of 24) cis-1,2-dichloroethene (7 of 24) toluene (11 of 24), and vinyl chloride (8 of 24).

<u>Off-Site.</u> Selected VOCs were detected in all nine of the off-site wells sampled for VOCs during the Spring 2023 event. Total concentrations of selected VOCs ranged from 1.8 μ g/L in well BR-105D to 620 μ g/L in well BR-106. All off-site wells except MW-106 contained total concentrations of selected VOCs greater than their respective 5-year prior means for VOCs (see Table 4).

In addition to the selected VOCs, other notable constituents detected in off-site wells include:

1,2-dichlorobenzene (in 5 out of 9 wells)
1,3-dichlorobenzene (3 of 9)
1,4-dichlorobenzene (3 of 9)
acetone (3 of 9)
benzene (6 of 9)
carbon disulfide (5 of 9)
cis-1,2-dichloroethene (2 of 7), and toluene (3 of 9).

<u>Concentration Contours.</u> The distribution of selected VOCs in groundwater is shown as a set of concentration contours on Figure 9. These contours were developed using both overburden and bedrock groundwater data and are dashed where approximated using historical data. VOC distribution in groundwater is generally consistent with previous monitoring events with higher VOC concentrations representing the core of the plume in the area of monitoring well PW-17, a former pumping well, and PZ-106.

3.2 SURFACE WATER AND GROUNDWATER SEEP

Results from the Spring 2023 canal and quarry monitoring event are presented in Table 5 and are discussed below.

3.2.1 QUARRY

One quarry seep sample (QS-4) was collected during the Spring 2023 monitoring event. The sample contained total chloropyridines at a concentration of 21 µg/L, which is less than its prior five-year mean concentration of 66 µg/L.

3.2.2 QUARRY DISCHARGE DITCH

Two locations within the quarry discharge ditch were sampled and analyzed for chloropyridines: QD-1, at the point where the quarry's discharge enters the ditch; and QO-2, the location where the ditch discharges to the canal. Chloropyridine compounds were not detected in either sample.

3.2.3 BARGE CANAL

One sample was collected from the Erie Barge Canal location (QO-2S1, approximately 100 feet downstream of QO-2). Chloropyridines were not detected in this sample.

4.0 EXTRACTION SYSTEM PERFORMANCE

Table 6 presents a summary of the system flow measurements for the on-site extraction wells from December 2022 through May 2023. The total volume pumped during the sixmonth period was approximately 5.8 million gallons. Overall, with the exceptions of when the system was off-line for maintenance and the horizontal well (HW-1) pumping test, all extraction wells pumped reliably throughout the period, with total combined flow rates averaging between 19 and 26 gallons per minute (gpm) on a monthly basis.

The total well extraction volume (5.8 million gallons) for the 6-month period was greater than in Spring 2022 (4.1 million gallons) and Fall 2022 (4.8 million gallons) and more closely approximates total flow observed for the prior Fall 2021 period (5.8 million gallons). Total well extraction volumes observed during recent events represent a decrease in total flows since Spring 2018 and Spring 2019, when total flow volume from the same wells was 7.7 and 7.1 million gallons, respectively. Arch anticipates that operation of the HW-1 well, when placed into service, will result in improved mass removal and hydraulic containment of constituent plumes.

Table 7 provides a calculation of mass removal rates since the previous groundwater monitoring event (i.e., from December 2022 through May 2023). Arch estimates that approximately 8.1 pounds of target VOCs and 1,500 pounds of chloropyridine compounds were removed by the groundwater extraction system and treated by the plant's activated carbon adsorption units over that time period. The estimated mass removal rate for the 6-month period covered by the Spring 2023 monitoring report is consistent with that observed for the Fall 2022 period during which 1,500 pounds of chloropyridine compounds were removed. Mass removal for both the Spring 2023 period and the previous Fall 2022 period represents an increase over that observed for the Spring 2022 period (740 pounds of chloropyridine compounds) and more closely approximates the mass removal rates for prior monitoring events (2,000 pounds in Spring 2021 and 1,400 pounds in Fall 2021).

5.0 OPTIMIZATION OF MONITORING AND EXTRACTION WELL NETWORK

Routine pump cleaning and maintenance were performed for all extraction wells in February 2023.

A 4-day constant rate pumping test for horizontal well HW-1 was completed in early November 2022. Data collected from this pumping test was used to support the plan for a pilot test for longer term extraction and treatment using granular activated carbon for horizontal well HW-1. The pilot test operations were initiated on July 10, 2023, and are expected to extend into October 2023. The six-well extraction system was shut down on 29 June 2023 to prepare for baseline measurements before the start of the pilot test and will remain offline thru the end of the pilot test. Updates on the progress of this test are being provided to the NYSDEC while the six-well system is offline. The pilot test is intended to support the design and installation of a permanent extraction and treatment system. Findings from the pilot test will be submitted to the NYSDEC in a separate report. Arch will work with the NYSDEC and seek approval for future modifications to the extraction well network.

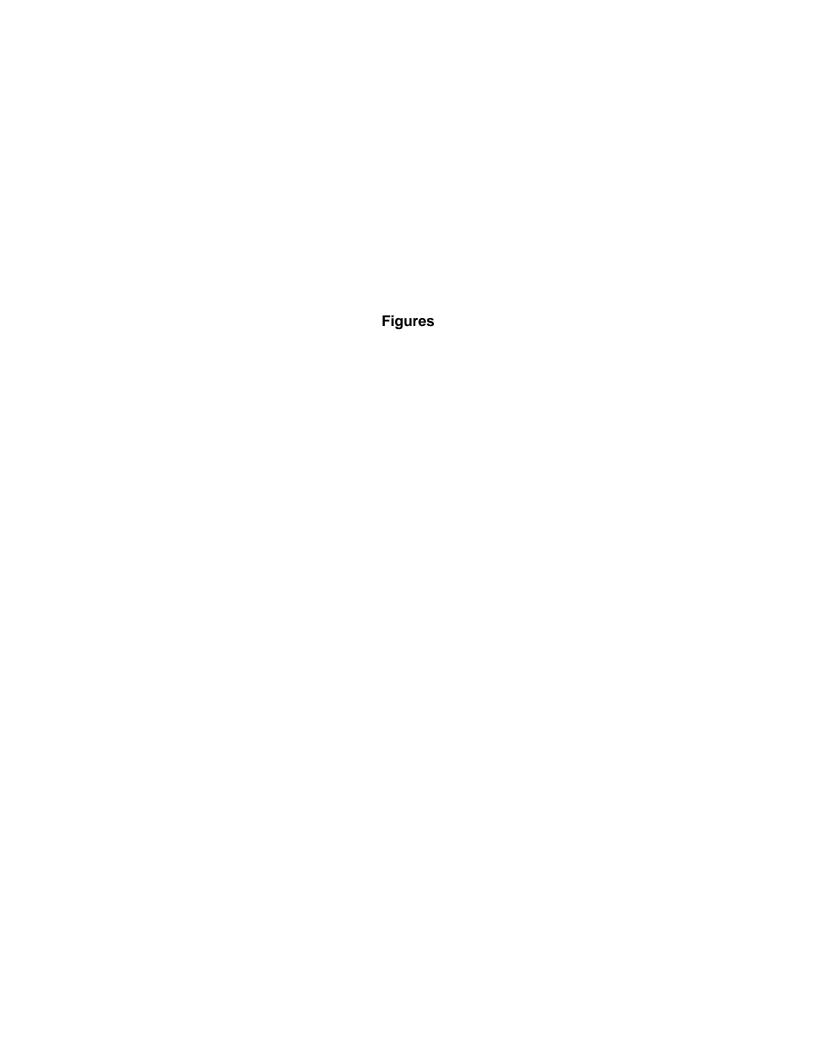
6.0 PROCESS SEWER INSPECTIONS

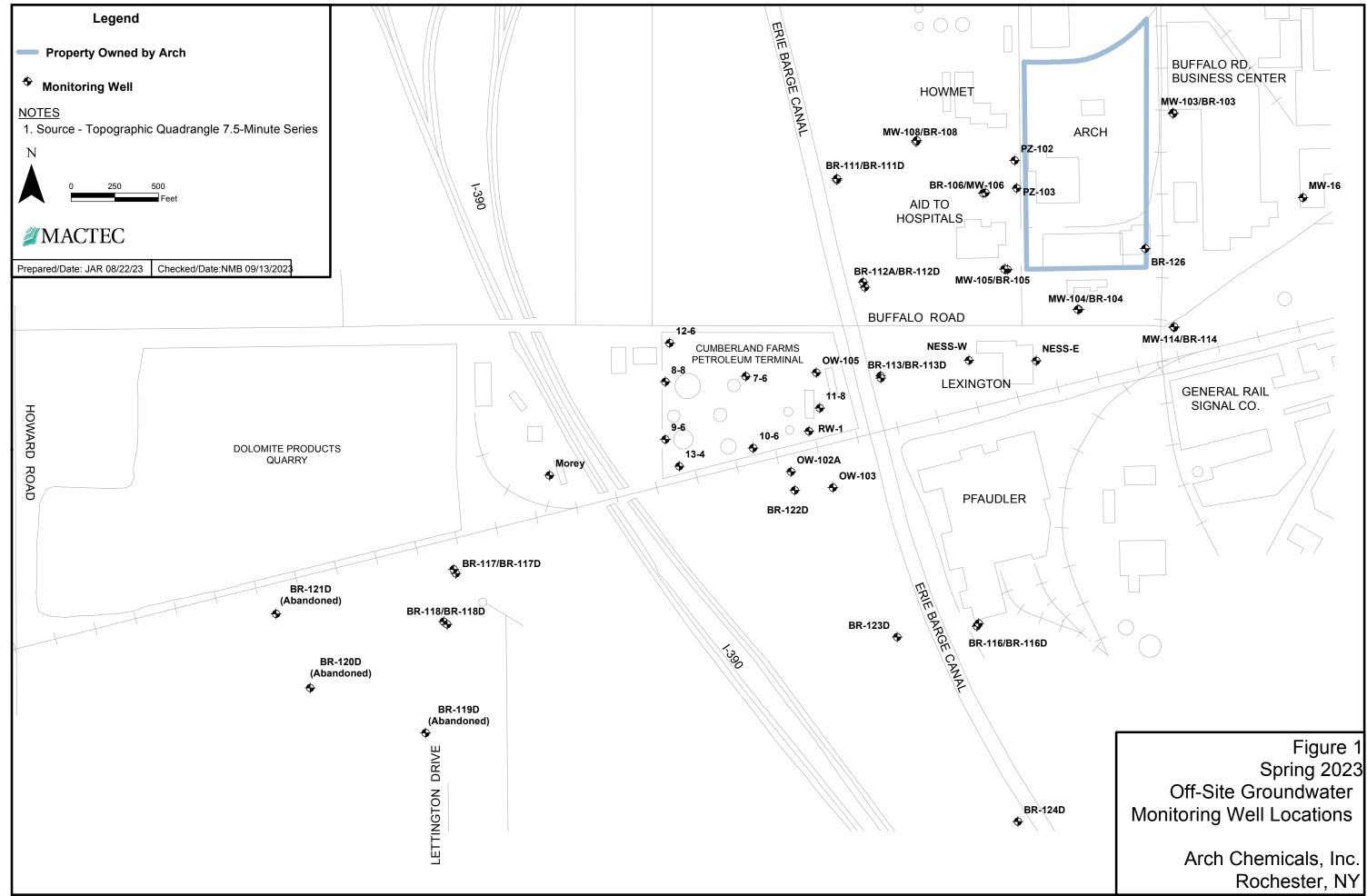
Process sewer inspections include inspection of process trench drains and are completed annually in Area A, Area B, and Area C process areas in the main manufacturing building. Inspections were last completed in October 2022 (October 3, 18, and 26). These inspections are performed because, historically, process trench drains have been identified as potential sources of contaminant releases beneath the manufacturing areas. No findings were noted during these inspections.

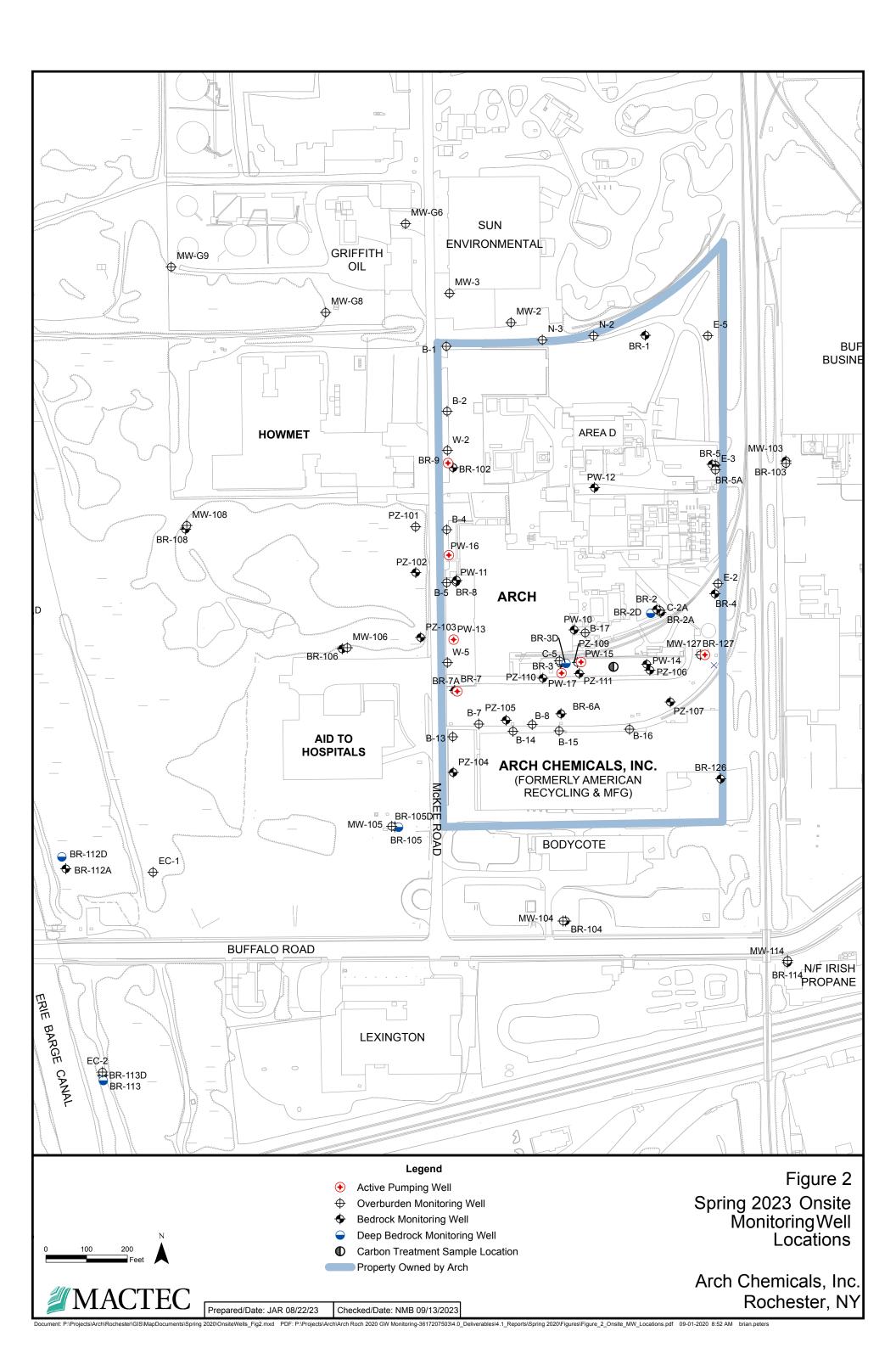
7.0 NEXT MONITORING EVENT

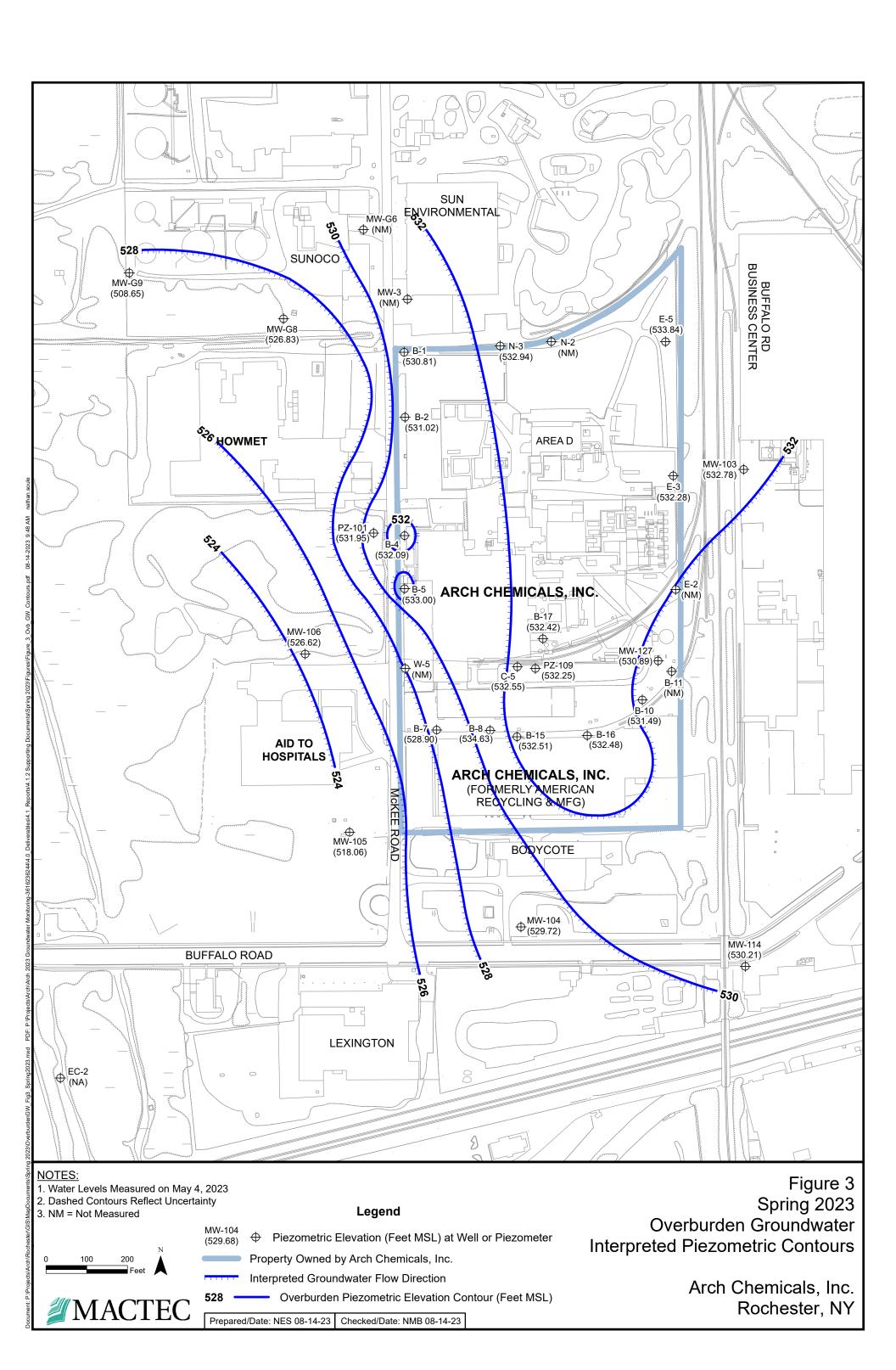
The next regular monitoring event will occur in November 2023 and will include groundwater, surface water, and seep sampling.

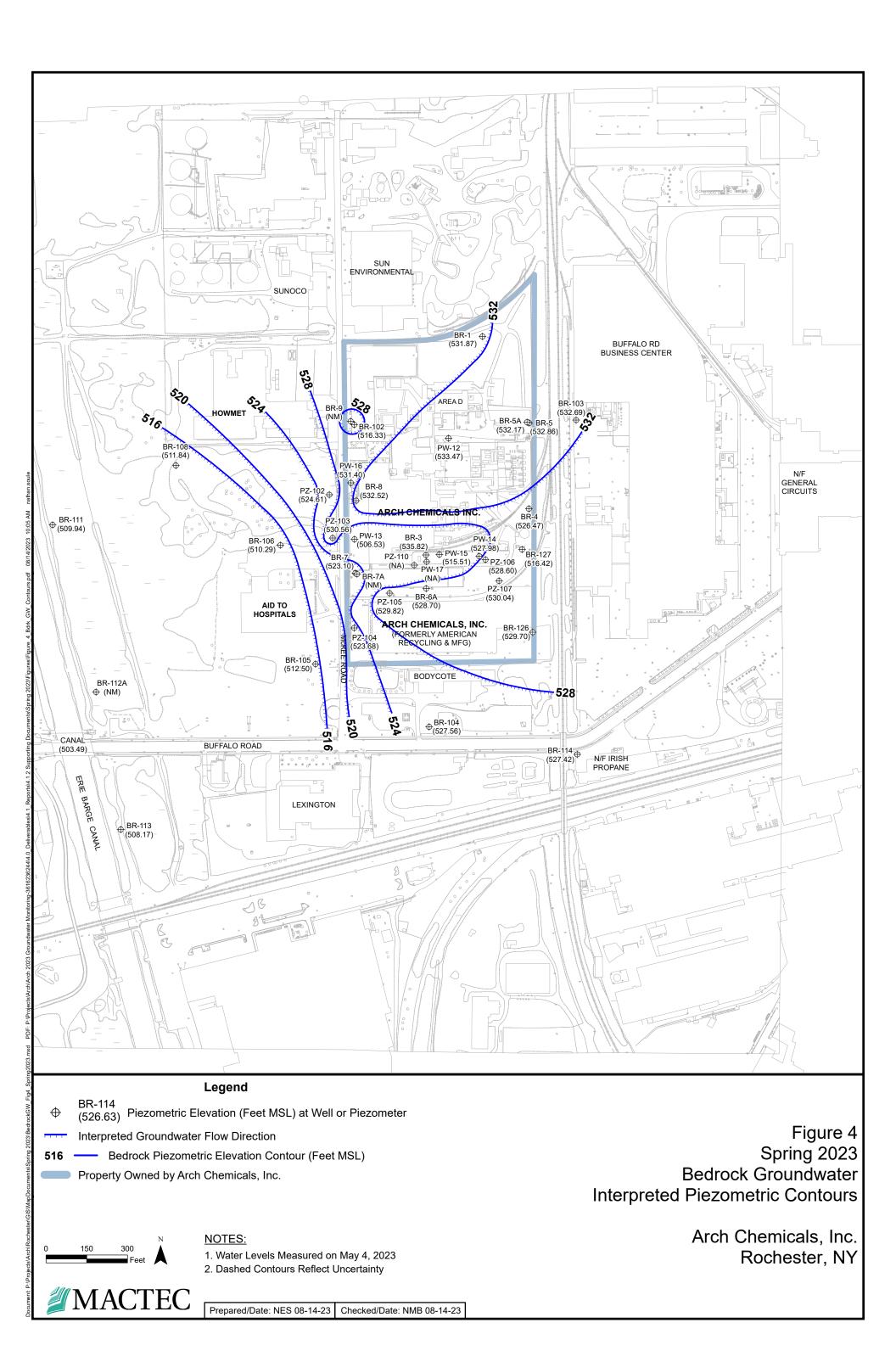
Table 8 shows the 2023 monitoring program for the Arch Rochester site.

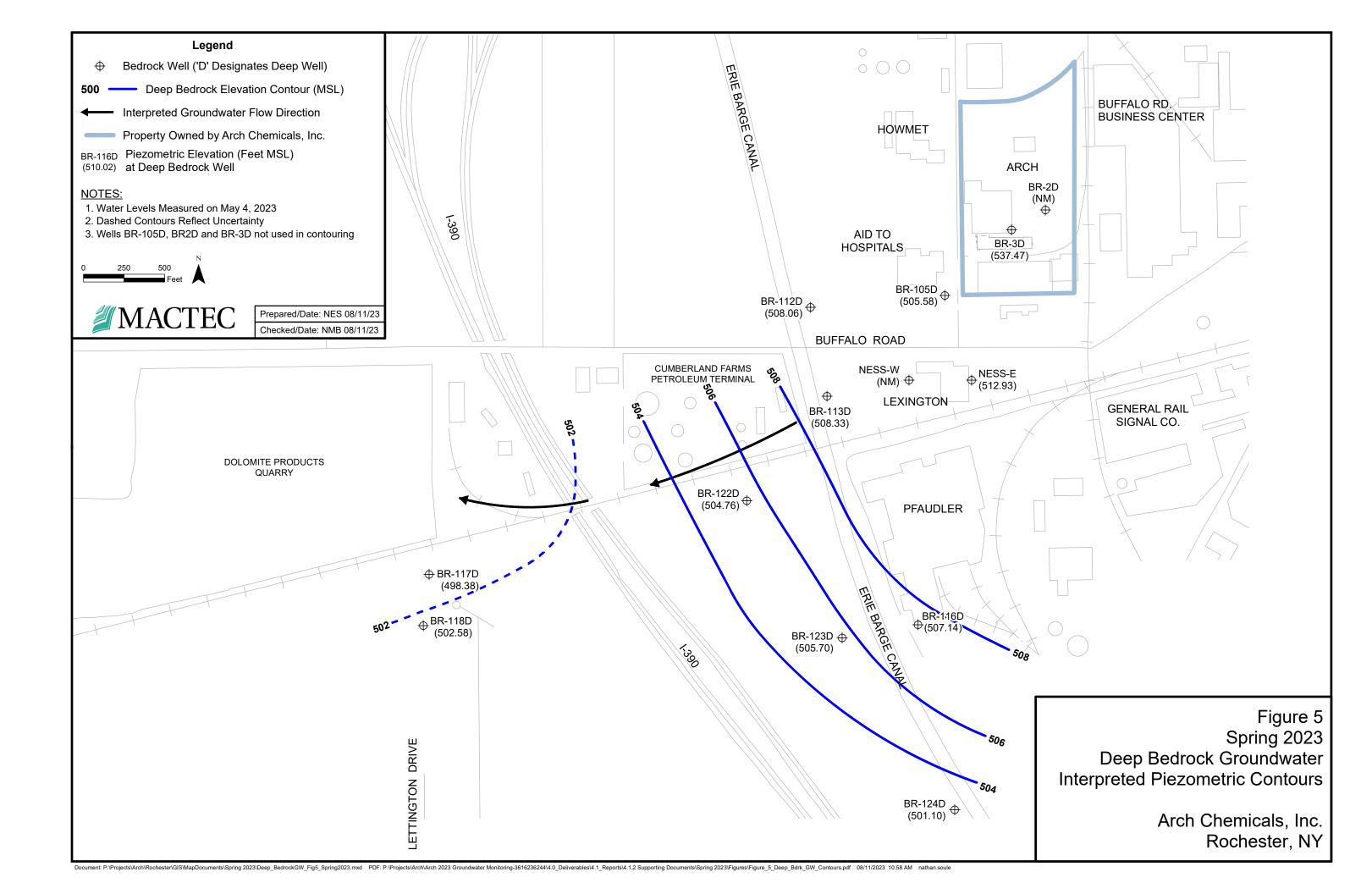


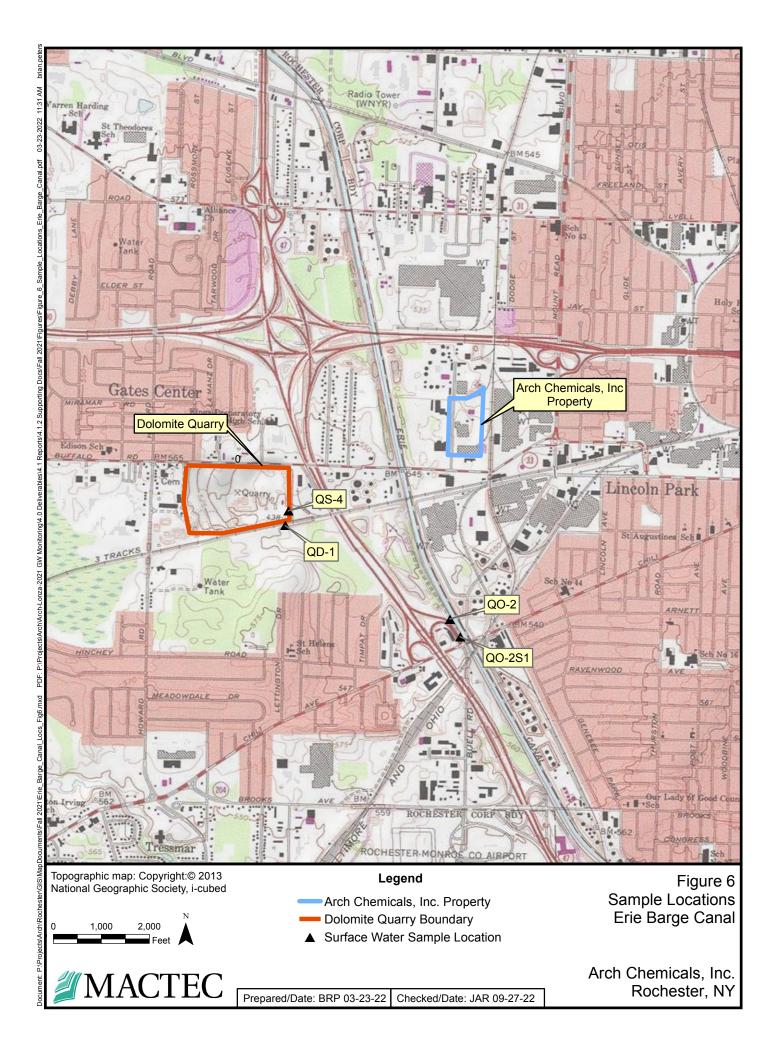


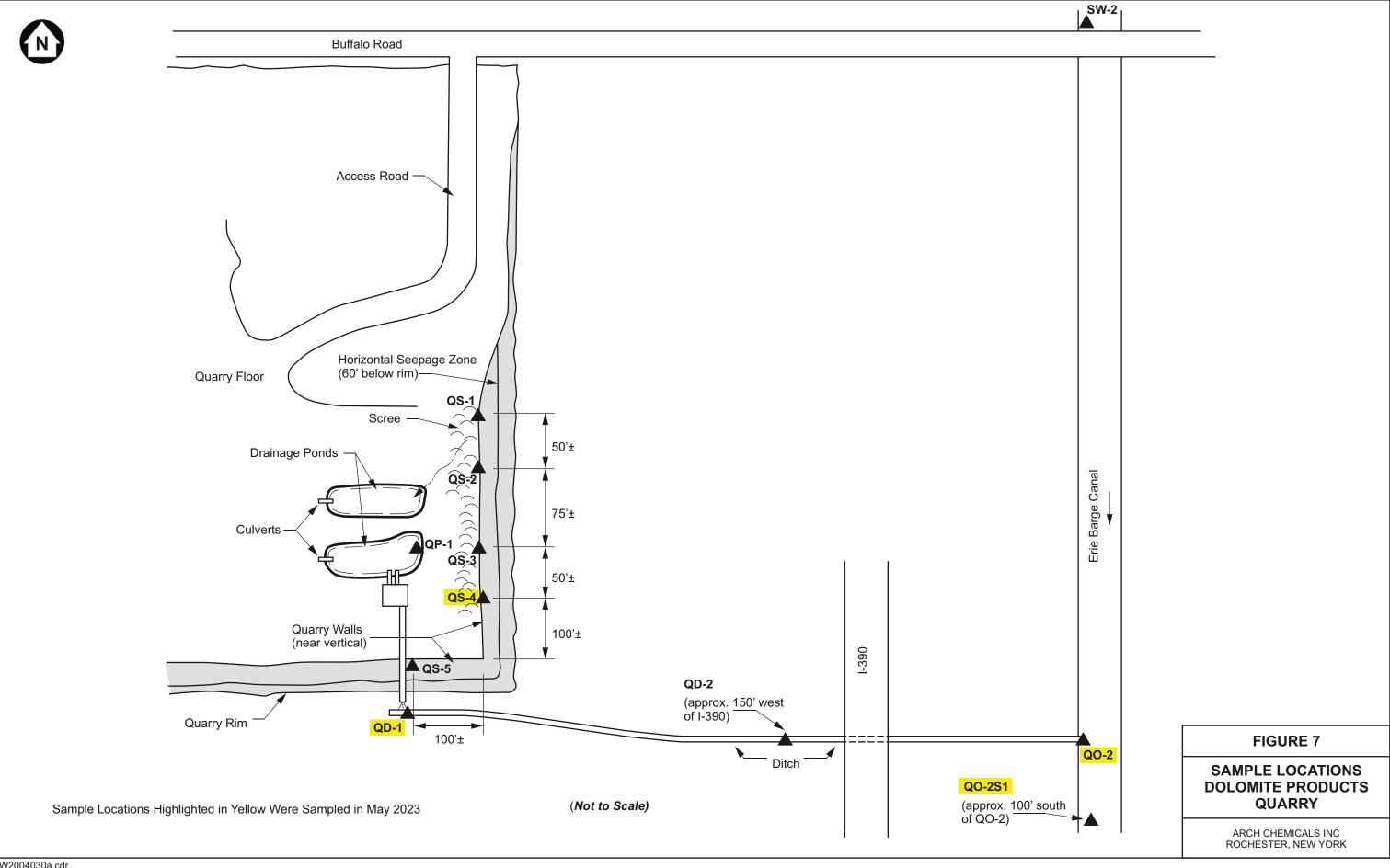


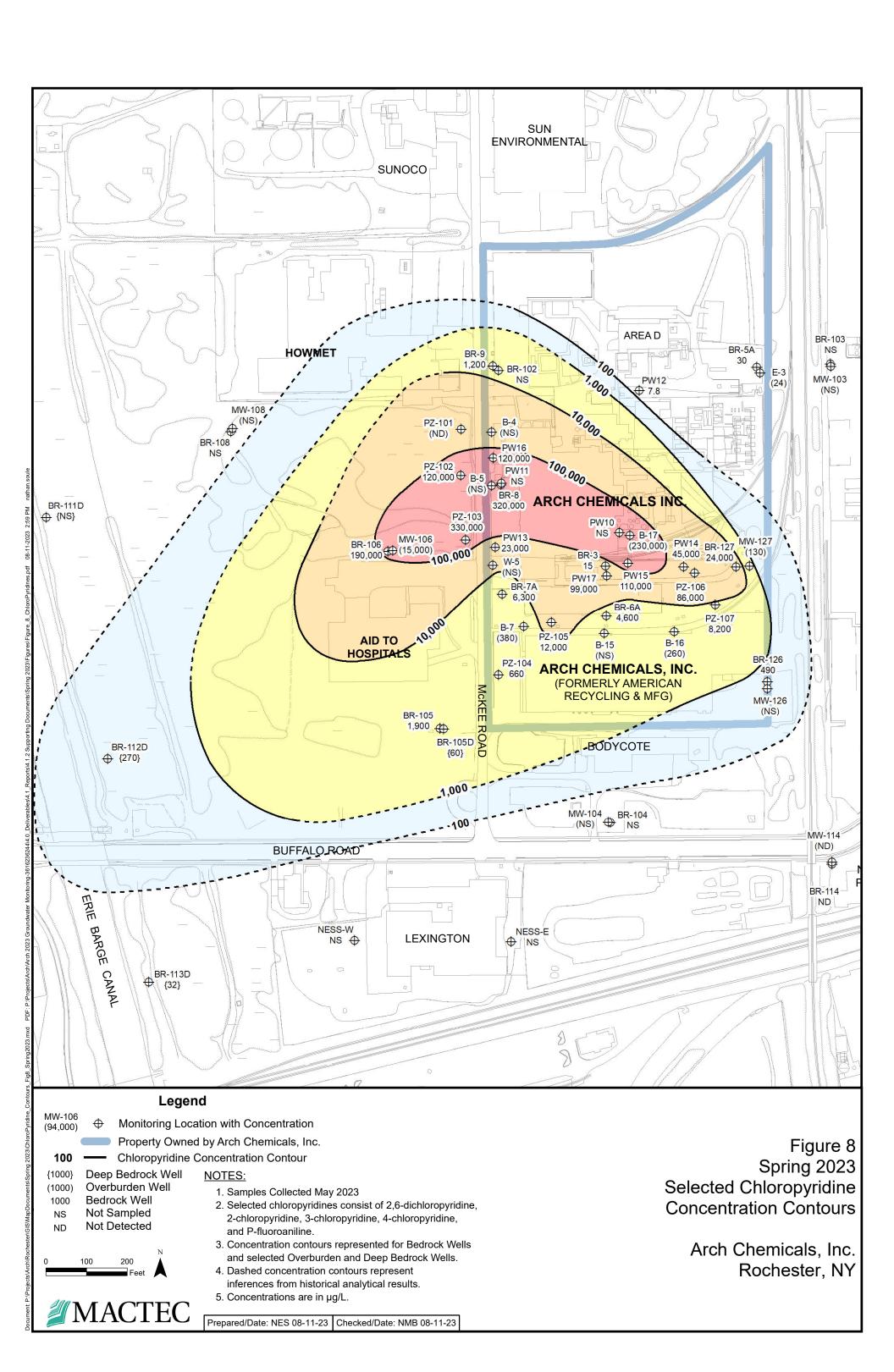


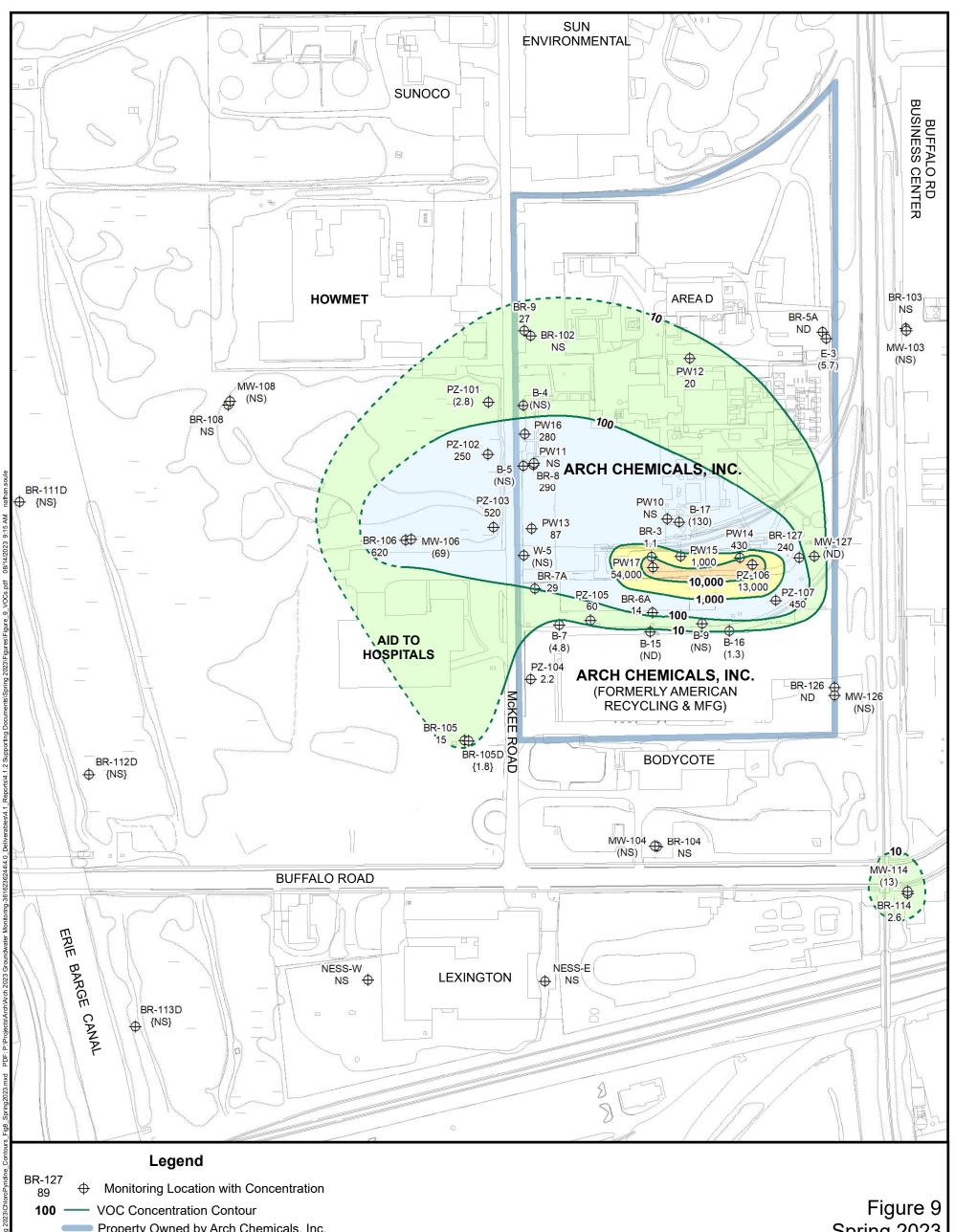












Property Owned by Arch Chemicals, Inc.

Deep Bedrock Well {1000} Overburden Well (1000)Bedrock Well 1000

Not Sampled NS Not Detected ND

200

MACTEC

NOTES:

- 1. Samples Collected May 2023
- 2. Select VOCs consist of Carbon tetrachloride, Methylene chloride Chloroform, TCE, PCE, and Chlorobenzene.
- 3. Concentration contours represented for Bedrock Wells and selected Overburden and Deep Bedrock Wells.
- 4. Dashed concentration contours represent inferences from historical analytical results.
- 5. Concentrations are in µg/L

Prepared/Date: NES 08/14/23 | Checked/Date: NMB 08/14/23

Spring 2023 Selected Volatile Organic Compound **Concentration Contours**

> Arch Chemicals, Inc. Rochester, NY

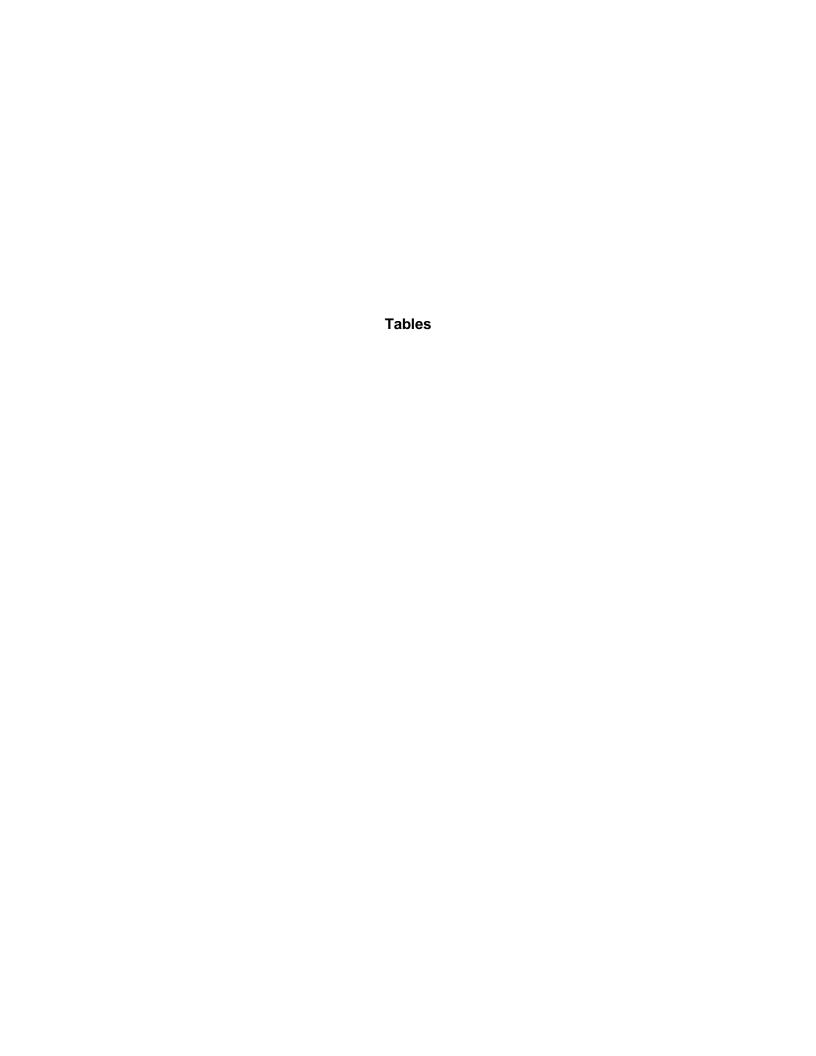


TABLE 1 SPRING 2023 GROUNDWATER SAMPLING AND ANALYTICAL PROGRAM

ARCH ROCHESTER ROCHESTER, NEW YORK

			ANALYSIS	PYRIDINES	VOCs
SITE / AREA	WELL / POINT	DATE	QC TYPE		
AID TO HOSPITALS	BR-106	5/11/2023	FS	Х	Х
	MW-106	5/10/2023	FS	Х	Х
	PZ-101	5/10/2023	FS	Х	Χ
	PZ-102	5/10/2023	FS	Х	Χ
	PZ-103	5/10/2023	FS	Х	Х
ARCH CHEMICALS, INC.	B-15	5/8/2023	FS	Х	Χ
	B-16	5/8/2023	FS	Х	Χ
	B-17	5/8/2023	FS	Х	Χ
	B-7	5/9/2023	FS	Х	Χ
	BR-126	5/8/2023	FS	Х	Χ
	BR-127	5/5/2023	FS	Х	Х
	BR-3	5/9/2023	FS	Х	Х
	BR-5A	5/5/2023	FS	Х	Χ
	BR-6A	5/5/2023	FS	Х	Х
	BR-7A	5/9/2023	FS	Х	Х
	BR-8	5/9/2023	FS	Х	Χ
	BR-9	5/10/2023	FS	Х	Χ
	E-3	5/9/2023	FS	Х	Х
	MW-127	5/5/2023	FS	Х	Χ
	PW12	5/5/2023	FS	Х	Χ
	PW13	5/9/2023	FS	Х	Χ
	PW14	5/8/2023	FS	Х	Χ
	PW15	5/11/2023	FS	Х	Χ
	PW16	5/9/2023	FS	Х	Χ
	PW17	5/11/2023	FS	Х	Χ
	PZ-104	5/8/2023	FS	Х	Χ
	PZ-105	5/5/2023	FS	Х	Χ
	PZ-106	5/8/2023	FS	Х	Χ
	PZ-107	5/5/2023	FS	Х	Χ
ERIE BARGE CANAL	BR-112D	5/11/2023	FS	Х	
(Samples in canal or property along canal)	BR-113D	5/12/2023	FS	Х	
	QD-1	5/12/2023	FS	Х	
	QO-2	5/12/2023	FS	Х	
	QO-2S1	5/12/2023	FS	Х	
DOLOMITE PRODUCTS, INC.	BR-117D	5/11/2023	FS	Х	
(Samples at or near Dolomite Quarry)	BR-118D	5/12/2023	FS	Х	
	QS-4	5/12/2023	FS	Х	
IRISH PROPANE (Formerly Jackson Welding		5/10/2023	FS	Х	Х
	MW-114	5/10/2023	FS	Χ	Χ
RG & E RIGHT OF WAY	BR-105	5/11/2023	FS	Χ	Х
	BR-105D	5/11/2023	FS	X	X
OU-1 (West side of Erie Canal)	BR-122D	5/12/2023	FS	X	
	BR-123D	5/12/2023	FS	X	

Notes:

FS = Field Sample

ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

LOCATION:	B-15		B-16	B-17		B-7		BR-105		BR-105D	D BR-106			BR-112D	
SAMPLE DATE:	5/8/2023		5/8/2023		5/8/2023		5/9/2023		5/11/2023		5/11/2023	3	5/11/2023		5/11/2023
QC TYPE:	FS		FS		FS		FS		FS		FS		FS		FS
SELECTED CHLOROPYRIDINES BY SW-846 Method 8270D (µg/L)															
2,6-Dichloropyridine	9.8	U	95.4	J	19400		71.8		103	J	20	U	20000	U	47.6 U
2-Chloropyridine	9.8	UJ	165	J	197000	J-	304	J-	1840		39.1	J-	192000		273
3-Chloropyridine	9.8	UJ	100	UJ	10000	UJ	48.6	UJ	192	U	20	U	20000	U	47.6 U
4-Chloropyridine	9.8	UJ	100	UJ	10000	UJ	48.6	UJ	192	U	20	UJ	20000	U	47.6 U
p-Fluoroaniline	9.8	U	100	J	10000	U	48.6	U	192	U	21.3	J+	20000	U	47.6 U
Pyridine	9.8	UJ	100	UJ	15200	J-	48.6	UJ	192	U	20	UJ	20000	U	47.6 U

Notes:

U = Compound not detected; value represents sample quantitation limit.

J = Estimated value

J- = Estimated with a potential low bias

J+ = Estimated with a potential high bias

μg/L = micrograms per Liter

FS = Field sample

ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

LOCATION:	BR-113D		BR-114		BR-117D		BR-118D		BR-122D		BR-123D	D BR-126			BR-127	
SAMPLE DATE:	5/12/2023		5/10/2023		5/11/2023		5/12/2023		5/12/2023		5/12/2023	3	5/8/2023		5/5/2023	
QC TYPE:	FS		FS		FS		FS		FS		FS		FS		FS	
SELECTED CHLOROPYRIDINES BY SW-846 Method 8270D (µg/L)																
2,6-Dichloropyridine	9.54	J	9.76	U	9.15	U	9.63	U	95.5	U	6.19	J	125		4000	U
2-Chloropyridine	32.4	J-	9.76	UJ	9.15	U	9.39	J-	602	J-	114	J-	369	J-	23900	J-
3-Chloropyridine	9.54	J	9.76	U	9.15	U	9.63	J	95.5	U	9.65	U	40	UJ	4000	UJ
4-Chloropyridine	9.54	IJ	9.76	UJ	9.15	U	9.63	UJ	95.5	UJ	9.65	UJ	40	UJ	4000	UJ
p-Fluoroaniline	9.54	J	9.76	U	9.15	U	9.63	J	95.5	U	9.65	U	40	J	4000	U
Pyridine	9.54	UJ	9.76	UJ	9.15	U	9.63	UJ	95.5	UJ	9.65	UJ	40	UJ	4000	UJ

Notes:

U = Compound not detected; value represents sample quantitation limit.

J = Estimated value

J- = Estimated with a potential low bias

J+ = Estimated with a potential high bias

μg/L = micrograms per Liter

FS = Field sample

Created by: SRC 8/7/2023 Edited: SRC 8/21/2023

ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

LOCATION:	BR-3		BR-5A		BR-6A		BR-7A	BR-7A		BR-8			E-3		MW-106	i
SAMPLE DATE:	5/9/2023		5/5/2023		5/5/2023		5/9/2023	5/9/2023			5/10/2023		5/9/2023		5/10/2023	3
QC TYPE:	FS		FS		FS		FS		FS		FS		FS		FS	
SELECTED CHLOROPYRIDINES BY SW-846 Method 8270D (µg/L)																
2,6-Dichloropyridine	10	U	18		1030		1000	U	40000	J	100	U	5.9	J	2000	U
2-Chloropyridine	14.9	J-	12.2	J-	3600	J-	6330	J-	318000	J-	1160	J-	18.5	J-	15000	J-
3-Chloropyridine	10	UJ	9.64	UJ	400	UJ	1000	UJ	40000	UJ	100	J	9.61	UJ	2000	U
4-Chloropyridine	10	UJ	9.64	UJ	400	UJ	1000	UJ	40000	UJ	100	UJ	9.61	UJ	2000	UJ
p-Fluoroaniline	10	U	9.64	U	400	U	1000	U	40000	U	100	U	9.61	U	2000	U
Pyridine	10	UJ	9.64	UJ	400	UJ	1000	UJ	40000	UJ	100	UJ	9.61	UJ	2000	UJ

Notes:

U = Compound not detected; value represents sample quantitation limit.

J = Estimated value

J- = Estimated with a potential low bias

J+ = Estimated with a potential high bias

μg/L = micrograms per Liter

FS = Field sample

ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

LOCATION:	MW-114		MW-127		PW12		PW13		PW14		PW15		PW16		PW17	
SAMPLE DATE:	5/10/2023		5/5/2023		5/5/2023		5/9/2023	5/9/2023			5/11/2023	1	5/9/2023		5/11/2023	3
QC TYPE:	FS		FS		FS		FS		FS		FS		FS		FS	
SELECTED CHLOROPYRIDINES BY SW-846 Method 8270D (µg/L)																
2,6-Dichloropyridine	9.7	U	57.9		10	U	4000	U	4000	J	10000	J	20000	U	7160	J
2-Chloropyridine	9.7	UJ	76.8	J-	7.77	J-	23400	J-	44500	J-	109000		122000	J-	75600	
3-Chloropyridine	9.7	U	9.71	UJ	10	UJ	4000	UJ	4000	J	10000	J	20000	UJ	4620	J
4-Chloropyridine	9.7	UJ	9.71	UJ	10	UJ	4000	UJ	4000	UJ	10000	U	20000	UJ	8000	U
p-Fluoroaniline	9.7	U	9.71	U	10	U	4000	U	4000	U	10000	U	20000	U	8000	U
Pyridine	9.7	UJ	9.71	UJ	10	UJ	4000	UJ	4000	UJ	10000	U	20000	UJ	11300	

Notes:

U = Compound not detected; value represents sample quantitation limit.

J = Estimated value

J- = Estimated with a potential low bias

J+ = Estimated with a potential high bias

μg/L = micrograms per Liter

FS = Field sample

ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

Page 5 of 5

LOCATION:	LOCATION: PZ-101		PZ-102	PZ-103		PZ-104		PZ-105		PZ-106		PZ-107		
SAMPLE DATE:	5/10/2023		5/10/2023		5/10/2023	5/10/2023			5/5/2023		5/8/2023		5/5/2023	3
QC TYPE:	FS		FS		FS		FS		FS		FS		FS	
SELECTED CHLOROPYRIDINES BY SW-846 Method 8270D (µg/L)														
2,6-Dichloropyridine	9.7	U	16000	J	40000	U	89.3		1520	J	10000	U	2000	U
2-Chloropyridine	9.7	UJ	119000	J-	329000	J-	566	J-	10400	J-	86000	J-	8160) J-
3-Chloropyridine	9.7	U	16000	כ	40000	U	40	UJ	1600	UJ	10000	IJ	2000	UJ
4-Chloropyridine	9.7	UJ	16000	UJ	40000	UJ	40	UJ	1600	UJ	10000	UJ	2000	UJ
p-Fluoroaniline	9.7	U	16000	U	40000	U	40	U	1600	U	10000	U	2000	U
Pyridine	9.7	UJ	16000	UJ	40000	UJ	40	UJ	1600	UJ	10000	UJ	2000	UJ

Notes:

U = Compound not detected; value represents sample quantitation limit.

J = Estimated value

J- = Estimated with a potential low bias

J+ = Estimated with a potential high bias

μg/L = micrograms per Liter

FS = Field sample

ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

LOCATION:	B-15	B-16	B-17	B-7	BR-105	BR-105D	BR-106	BR-114	BR-126	BR-127	BR-3
SAMPLE DATE:	5/8/2023	5/8/2023	5/8/2023	5/9/2023	5/11/2023	5/11/2023	5/11/2023	5/10/2023	5/8/2023	5/5/2023	5/9/2023
QC TYPE:	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
VOCs By SW-846 Method 8260C (μg/L)											
1,1,1-Trichloroethane	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U
1,1,2,2-Tetrachloroethane	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U
1,1,2-Trichloroethane	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U
1,1-Dichloroethane	2 U	2 U	2 U	2 U	2 U	1.02 J	10 UJ	2 U	2 U	2 UJ	2 U
1,1-Dichloroethene	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U
1,2,3-Trichlorobenzene	5 U	5 U	5.14	5 U	5 U	5 U	25 UJ	5 U	5 U	5 UJ	5 U
1,2,4-Trichlorobenzene	5 U	5 U	19	5 U	5 U	5 U	25 UJ	5 U	5 U	3.58 J-	5 U
1,2-Dibromo-3-chloropropane	10 U	10 U	50 UJ	10 U	10 U	10 UJ	10 U				
1,2-Dibromoethane	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U
1,2-Dichlorobenzene	2 U	2 U	2 U	1.14 J	4.9	2 U	193 J-	2 U	2 U	4.45 J-	2 U
1,2-Dichloroethane	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U
1,2-Dichloropropane	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U
1,3-Dichlorobenzene	2 U	2 U	1.44 J	2 U	2 U	2 U	11.3 J-	2 U	2 U	4.24 J-	2 U
1,4-Dichlorobenzene	2 U	2 U	1.85 J	2 U	2 U	2 U	16.1 J-	2 U	2 U	6.52 J-	2 U
1,4-Dioxane	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	50 UJ	10 UJ	10 U	10 UJ	10 UJ
2-Butanone	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	50 UJ	10 UJ	10 U	10 UJ	10 U
2-Hexanone	5 U	5 U	5 UJ	5 U	5 UJ	5 UJ	25 UJ	5 U	5 U	5 UJ	5 UJ
4-Methyl-2-pentanone	5 U	5 U	5 U	5 U	5 U	5 U	25 UJ	5 U	5 U	5 UJ	5 U
Acetic acid, methyl ester	2 UJ	2 UJ	10 UJ	2 UJ	2 UJ	2 UJ	2 UJ				
Acetone	10 UJ	10 UJ	8.92 J	10 UJ	10 UJ	10 UJ	50 UJ	10 UJ	10 UJ	10 UJ	10 U
Benzene	1 U	1 U	2.01	1 U	1.15	4.5	31.1 J-	1 U	1.02	1.97 J-	1.93
Bromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U	25 UJ	5 U	5 U	5 UJ	5 U
Bromodichloromethane	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U
Bromoform	5 U	5 U	5 U	5 U	5 U	5 U	25 UJ	5 U	5 U	10.7 J-	5 U
Bromomethane	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U
Carbon disulfide	2 U	2 U	1.55 J	2 U	1.4 J	3.3	12.5 J-	2 U	2 U	15.8 J-	2 U
Carbon tetrachloride	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	16.9 J-	2 U
Chlorobenzene	2 U	1.33 J	5.24	2.01	12.3	2 U	616 J-	2 U	2 U	8.16 J-	2 U
Chloroethane	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U
Chloroform	2 U	2 U	109	2 U	2.79	1.78 J	10 UJ	2 U	2 U	156 J-	2 U

Created by: SRC 8/8/2023 Edited: SRC 8/22/2023 Checked by: jar 8/23/2023

ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

LOCATION:	B-15	B-16	B-17	B-7	BR-105	BR-105D	BR-106	BR-114	BR-126	BR-127	BR-3
SAMPLE DATE:	5/8/2023	5/8/2023	5/8/2023	5/9/2023	5/11/2023	5/11/2023	5/11/2023	5/10/2023	5/8/2023	5/5/2023	5/9/2023
QC TYPE:	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
VOCs By SW-846 Method 8260C (μg/L)											
Chloromethane	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U
cis-1,2-Dichloroethene	2 U	2 U	1.62 J	2 U	2.6	6.51	10 UJ	2 U	2 U	1.74 J-	2 U
cis-1,3-Dichloropropene	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U
Cyclohexane	10 UJ	5.92 J	50 UJ	10 UJ	10 UJ	10 UJ	10 UJ				
Dibromochloromethane	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U
Dichlorodifluoromethane	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U
Ethylbenzene	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U
Isopropylbenzene	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U
Methyl cyclohexane	2 UJ	3.77 J	10 UJ	2 UJ	2 UJ	2 UJ	2 UJ				
Methyl Tertbutyl Ether	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U
Methylene chloride	5 U	5 U	5 U	2.79 J	5 U	5 U	25 UJ	2.55 J	5 U	37.2 J-	5 U
Styrene	5 U	5 U	5 U	5 U	5 U	5 U	25 UJ	5 U	5 U	5 UJ	5 U
Tetrachloroethene	2 U	2 U	6.72	2 U	2 U	2 U	10 UJ	2 U	2 U	18.5 J-	1.1 J
Toluene	2 U	2 U	1.53 J	2 U	2 U	2 U	15.2 J-	2 U	2 U	6.47 J-	2 U
trans-1,2-Dichloroethene	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U
trans-1,3-Dichloropropene	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U
Trichloroethene	2 U	2 U	8.11	2 U	2 U	2 U	10 UJ	2 U	2 U	6.12 J-	2 U
Trichlorofluoromethane	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U
Vinyl chloride	2 U	2 U	1 J	2 U	2.23	2 U	10 UJ	2 U	2 U	2.16 J-	2 U
Xylene, o	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U
Xylenes (m&p)	2 U	2 U	2 U	2 U	2 U	2 U	10 UJ	2 U	2 U	2 UJ	2 U

Notes:

U = Compound not detected; value represents sample quantitation limit.

J = Estimated value

J- = Estimated with a potential low bias

μg/L = micrograms per Liter

FS = Field sample

Created by: SRC 8/8/2023 Edited: SRC 8/22/2023 Checked by: jar 8/23/2023

ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

LOCATION:	BR-5A	BR-6A	BR-7A	BR-8	BR-9	E-3	MW-106	MW-114	MW-127	PW12	PW13
SAMPLE DATE:	5/5/2023	5/5/2023	5/9/2023	5/9/2023	5/10/2023	5/9/2023	5/10/2023	5/10/2023	5/5/2023	5/5/2023	5/9/2023
QC TYPE:	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
VOCs By SW-846 Method 8260C (μg/L)											
1,1,1-Trichloroethane	2 U	2 U	2 U	20 U	1.19 J	2 UJ	5 U	2 U	2 U	2 U	2 UJ
1,1,2,2-Tetrachloroethane	2 U	2 U	2 U	20 U	2 U	2 UJ	5 U	2 U	2 U	2 U	2 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	2 U	2 U	2 U	20 U	38.1	2 UJ	5 U	2 U	2 U	2 U	2 UJ
1,1,2-Trichloroethane	2 U	2 U	2 U	20 U	2 U	2 UJ	5 U	2 U	2 U	2 U	2 UJ
1,1-Dichloroethane	2 U	2 U	1.23 J	20 U	8.79	2 UJ	5 U	2 U	2 U	2 U	2 UJ
1,1-Dichloroethene	2 U	2 U	2 U	20 U	1.59 J	2 UJ	5 U	2 U	2 U	2 U	2 UJ
1,2,3-Trichlorobenzene	5 U	5 U	5 U	50 U	5 U	5 UJ	12.5 U	5 U	5 U	11.5	5 UJ
1,2,4-Trichlorobenzene	5 U	2.52 J	5 U	50 U	5 U	5 UJ	12.5 U	5 U	5 U	60.8	5 UJ
1,2-Dibromo-3-chloropropane	10 U	10 U	10 U	100 U	10 U	10 UJ	25 U	10 U	10 U	10 U	10 UJ
1,2-Dibromoethane	2 U	2 U	2 U	20 U	2 U	2 UJ	5 U	2 U	2 U	2 U	2 UJ
1,2-Dichlorobenzene	2 U	1.32 J	14.5	142	18	2 UJ	12.5	2 U	2 U	3.78	70.2 J-
1,2-Dichloroethane	2 U	2 U	2 U	20 U	2 U	2 UJ	5 U	2 U	2 U	2 U	2 UJ
1,2-Dichloropropane	2 U	2 U	2 U	20 U	2 U	2 UJ	5 U	2 U	2 U	2 U	2 UJ
1,3-Dichlorobenzene	2 U	2 U	4.21	51.1	4.43	2 UJ	5 U	2 U	2 U	22.3	16.6 J-
1,4-Dichlorobenzene	2 U	2 U	2.74	20.6	3.86	2 UJ	5 U	2 U	2 U	12.3	11.7 J-
1,4-Dioxane	10 UJ	10 U	10 UJ	100 UJ	10 UJ	10 UJ	25 UJ	10 UJ	10 UJ	10 UJ	10 UJ
2-Butanone	10 UJ	10 UJ	10 UJ	100 UJ	10 UJ	10 UJ	25 UJ	10 UJ	10 UJ	10 UJ	10 UJ
2-Hexanone	5 UJ	5 UJ	5 U	50 U	5 U	5 UJ	12.5 U	5 U	5 UJ	5 UJ	5 UJ
4-Methyl-2-pentanone	5 U	5 U	5 U	50 U	5 U	5 UJ	12.5 U	5 U	5 U	5 U	5 UJ
Acetic acid, methyl ester	2 UJ	2 UJ	2 UJ	20 UJ	2 UJ	2 UJ	5 UJ	2 UJ	2 UJ	2 UJ	2 UJ
Acetone	10 U	9.61 J-	10 UJ	100 UJ	8.13 J-	10 UJ	32.5 J-	10 UJ	10 U	7.84 J	10 UJ
Benzene	1 U	1.58	2.59	11.2	17	1.52 J-	3.29	1 U	1 U	0.743 J	5.09 J-
Bromochloromethane	5 U	5 U	5 U	50 U	5 U	5 UJ	12.5 U	5 U	5 U	5 U	5 UJ
Bromodichloromethane	2 U	2 U	2 U	20 U	2 U	2 UJ	5 U	2 U	2 U	2 U	2 UJ
Bromoform	5 U	5 U	5 U	50 U	5 U	5 UJ	12.5 U	5 U	5 U	5 U	5 UJ
Bromomethane	2 U	2 U	2 U	20 U	2 U	2 UJ	5 U	2 U	2 U	2 U	2 UJ
Carbon disulfide	2 U	2 U	1.01 J	20 U	2 U	2 UJ	5 U	2 U	2 U	2 U	2 UJ
Carbon tetrachloride	2 U	2 U	1.07 J	20 U	2 U	2 UJ	5 U	2 U	2 U	2 U	2 UJ
Chlorobenzene	2 U	10.8	25	263	21.6	5.7 J-	57.4	2 U	2 U	17.9	86.6 J-
Chloroethane	2 U	2 U	2 U	20 U	2 U	2 UJ	5 U	2 U	2 U	2 U	2 UJ
Chloroform	2 U	3.37	2 U	20 U	2 U	2 UJ	5 U	7.52	2 U	2 U	2 UJ

Created by: SRC 8/8/2023 Edited: SRC 8/22/2023 Checked by: jar 8/23/2023

ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

LOCATION:	BR-5A	BR-6A	BR-7A	BR-8	BR-9	E-3	MW-106	MW-114	MW-127	PW12	PW13
SAMPLE DATE:	5/5/2023	5/5/2023	5/9/2023	5/9/2023	5/10/2023	5/9/2023	5/10/2023	5/10/2023	5/5/2023	5/5/2023	5/9/2023
QC TYPE:	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
VOCs By SW-846 Method 8260C (μg/L)											
Chloromethane	2 U	2 U	2 U	20 U	2 U	2 UJ	5 U	2 U	2 U	2 U	2 UJ
cis-1,2-Dichloroethene	2 U	2 U	1.56 J	20 U	112	2 UJ	5 U	2 U	2 U	2 U	2 UJ
cis-1,3-Dichloropropene	2 U	2 U	2 U	20 U	2 U	2 UJ	5 U	2 U	2 U	2 U	2 UJ
Cyclohexane	10 UJ	10 UJ	10 UJ	100 UJ	10.5 J	10 UJ	25 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Dibromochloromethane	2 U	2 U	2 U	20 U	2 U	2 UJ	5 U	2 U	2 U	2 U	2 UJ
Dichlorodifluoromethane	2 U	2 U	2 U	20 U	2 U	2 UJ	5 U	2 U	2 U	2 U	2 UJ
Ethylbenzene	2 U	2 U	2 U	20 U	2.15	2 UJ	5 U	2 U	2 U	1.12 J	2 UJ
Isopropylbenzene	2 U	2 U	2 U	20 U	1.42 J	2 UJ	5 U	2 U	2 U	2 U	2 UJ
Methyl cyclohexane	2 UJ	2 UJ	2 UJ	20 UJ	4.05 J	2 UJ	5 UJ	2 UJ	2 UJ	2 UJ	2 UJ
Methyl Tertbutyl Ether	2 U	2 U	2 U	20 U	2 U	2 UJ	5 U	2 U	2 U	2 U	4.85 J-
Methylene chloride	5 U	5 U	2.66 J	26.9 J	3.66 J	5 UJ	11.8 J	2.89 J	5 U	5 U	5 UJ
Styrene	5 U	5 U	5 U	50 U	5 U	5 UJ	12.5 U	5 U	5 U	5 U	5 UJ
Tetrachloroethene	2 U	2 U	2 U	20 U	2 U	2 UJ	5 U	2 U	2 U	2.08	2 UJ
Toluene	2 U	37.3	2 U	54.8	1.5 J	2 UJ	5 U	2 U	2 U	3.69	4.28 J-
trans-1,2-Dichloroethene	2 U	1.68 J	2 U	20 U	2 U	2 UJ	5 U	2 U	2 U	2 U	2 UJ
trans-1,3-Dichloropropene	2 U	2 U	2 U	20 U	2 U	2 UJ	5 U	2 U	2 U	2 U	2 UJ
Trichloroethene	2 U	2 U	2 U	20 U	1.65 J	2 UJ	5 U	2.7	2 U	2 U	2 UJ
Trichlorofluoromethane	2 U	2 U	2 U	20 U	2 U	2 UJ	5 U	2 U	2 U	2 U	2 UJ
Vinyl chloride	2 U	6.9	2.01	20 U	101	2 UJ	5 U	2 U	2 U	2 U	2 UJ
Xylene, o	2 U	2 U	2 U	20 U	2 U	2 UJ	5 U	2 U	2 U	2.63	2 UJ
Xylenes (m&p)	2 U	2 U	2 U	20 U	2 U	2 UJ	5 U	2 U	2 U	3.86	2 UJ

Notes:

U = Compound not detected; value represents sample quantitation limit.

J = Estimated value

J- = Estimated with a potential low bias

μg/L = micrograms per Liter

FS = Field sample

TABLE 3 SPRING 2023 GROUNDWATER MONITORING RESULTS VOLATILE ORGANIC COMPOUNDS

ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

LOCATION:	PW14	PW15	PW16	PW17	PZ-101	PZ-102	PZ-103	PZ-104	PZ-105	PZ-106	PZ-107
SAMPLE DATE:	5/8/2023	5/11/2023	5/9/2023	5/11/2023	5/10/2023	5/10/2023	5/10/2023	5/8/2023	5/5/2023	5/8/2023	5/5/2023
QC TYPE:	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
VOCs By SW-846 Method 8260C (μg/L)											
1,1,1-Trichloroethane	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
1,1,2,2-Tetrachloroethane	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
1,1,2-Trichloroethane	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
1,1-Dichloroethane	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
1,1-Dichloroethene	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
1,2,3-Trichlorobenzene	50 U	25 UJ	10 U	1250 U	5 U	25 U	25 UJ	5 U	5 UJ	500 U	50 U
1,2,4-Trichlorobenzene	50 U	50.4 J-	10 U	1250 U	5 U	25 U	25 UJ	5 U	5 UJ	500 U	50 U
1,2-Dibromo-3-chloropropane	100 U	50 UJ	20 U	2500 U	10 U	50 U	50 UJ	10 U	10 UJ	1000 U	100 U
1,2-Dibromoethane	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
1,2-Dichlorobenzene	20 U	10.6 J-	158	500 U	2 U	78.2	366 J-	2 U	2.49 J-	200 U	20 U
1,2-Dichloroethane	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
1,2-Dichloropropane	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
1,3-Dichlorobenzene	20 U	16 J-	45	500 U	2 U	13	98.2 J-	2 U	2 UJ	200 U	20 U
1,4-Dichlorobenzene	20 U	40.8 J-	17.4	500 U	2 U	5.43 J	66.8 J-	2 U	2 UJ	200 U	20 U
1,4-Dioxane	100 U	50 UJ	20 UJ	2500 U	10 UJ	50 UJ	50 UJ	10 U	10 UJ	1000 U	100 U
2-Butanone	100 U	50 UJ	20 UJ	2500 U	8.42 J-	35.2 J-	50 UJ	10 UJ	10 UJ	1000 U	100 UJ
2-Hexanone	50 U	25 UJ	10 U	1250 U	5 U	25 U	25 UJ	5 UJ	5 UJ	500 U	50 UJ
4-Methyl-2-pentanone	50 U	25 UJ	10 U	1250 U	5 U	25 U	25 UJ	5 U	5 UJ	500 U	50 U
Acetic acid, methyl ester	20 UJ	10 UJ	4 UJ	500 UJ	2 UJ	10 UJ	10 UJ	2 UJ	2 UJ	200 UJ	20 UJ
Acetone	100 UJ	50 UJ	20 UJ	2500 U	18.6 J-	95.4 J-	50 UJ	10 UJ	10 UJ	1000 UJ	100 UJ
Benzene	10 U	21.4 J-	5.3	250 U	1 U	15.3	16.5 J-	0.506 J	6.21 J-	100 U	10 U
Bromochloromethane	50 U	25 UJ	10 U	1250 U	5 U	25 U	25 UJ	5 U	5 UJ	500 U	50 U
Bromodichloromethane	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
Bromoform	50 U	25 UJ	10 U	1250 U	5 U	25 U	25 UJ	5 U	5 UJ	500 U	50 U
Bromomethane	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
Carbon disulfide	35.1	102 J-	4 U	6980	2 U	7.15 J	17.3 J-	2 U	1.37 J-	579	20 U
Carbon tetrachloride	20 U	94.4 J-	4 U	6100	2 U	10 U	10 UJ	2 U	2 UJ	188 J	39.8
Chlorobenzene	15.4 J	30.4 J-	278	500 U	2 U	229	497 J-	2.16	59.5 J-	200 U	20 U
Chloroethane	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
Chloroform	328	714 J-	4 U	39900	2 U	10 U	10 UJ	2 U	2 UJ	10200	247

Created by: SRC 8/8/2023 Edited: SRC 8/22/2023 Checked by: jar 8/23/2023

TABLE 3 SPRING 2023 GROUNDWATER MONITORING RESULTS VOLATILE ORGANIC COMPOUNDS

ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

LOCATION:	PW14	PW15	PW16	PW17	PZ-101	PZ-102	PZ-103	PZ-104	PZ-105	PZ-106	PZ-107
SAMPLE DATE:	5/8/2023	5/11/2023	5/9/2023	5/11/2023	5/10/2023	5/10/2023	5/10/2023	5/8/2023	5/5/2023	5/8/2023	5/5/2023
QC TYPE:	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
VOCs By SW-846 Method 8260C (μg/L)											
Chloromethane	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
cis-1,2-Dichloroethene	20 U	12.4 J-	4 U	1360	2 U	10 U	10 UJ	2 U	2 UJ	137 J	20 U
cis-1,3-Dichloropropene	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
Cyclohexane	100 UJ	50 UJ	20 UJ	2500 UJ	10 UJ	50 UJ	50 UJ	10 UJ	10 UJ	1000 UJ	100 UJ
Dibromochloromethane	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
Dichlorodifluoromethane	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
Ethylbenzene	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
Isopropylbenzene	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
Methyl cyclohexane	20 UJ	10 UJ	4 UJ	500 UJ	2 UJ	10 UJ	10 UJ	2 UJ	2 UJ	200 UJ	20 UJ
Methyl Tertbutyl Ether	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
Methylene chloride	50 U	25 UJ	10 U	5800	2.82 J	18.9 J	19.7 J-	5 U	5 UJ	1260	134
Styrene	50 U	25 UJ	10 U	1250 U	5 U	25 U	25 UJ	5 U	5 UJ	500 U	50 U
Tetrachloroethene	74.8	87.7 J-	4 U	1830	2 U	10 U	10 UJ	2 U	2 UJ	850	24.4
Toluene	22.9	27.2 J-	5.21	819	2 U	8.62 J	53.2 J-	2 U	2 UJ	200 U	20 U
trans-1,2-Dichloroethene	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
trans-1,3-Dichloropropene	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
Trichloroethene	16.6 J	69.2 J-	4 U	455 J	2 U	10 U	10 UJ	2 U	2 UJ	305	20 U
Trichlorofluoromethane	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
Vinyl chloride	20 U	7.39 J-	4 U	1010	2 U	10 U	10 UJ	2 U	2 UJ	800	20 U
Xylene, o	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U
Xylenes (m&p)	20 U	10 UJ	4 U	500 U	2 U	10 U	10 UJ	2 U	2 UJ	200 U	20 U

Notes:

U = Compound not detected; value represents sample quantitation limit.

J = Estimated value

J- = Estimated with a potential low bias

μg/L = micrograms per Liter

FS = Field sample

Created by: SRC 8/8/2023 Edited: SRC 8/22/2023 Checked by: jar 8/23/2023

TABLE 4 COMPARISON OF SPRING 2023 CHLOROPYRIDINES AND VOLATILE ORGANICS CONCENTRATIONS IN GROUNDWATER TO PREVIOUS RESULTS (ug/L)

ARCH ROCHESTER ROCHESTER, NEW YORK

WELL	SI	ELECTED CHL	OROPYRIDIN	IES		SELECTI	ED VOCs	
	# EVENTS	HISTORIC	5-YEAR	MAY 2023	# EVENTS	HISTORIC	5-YEAR	MAY 2023
	IN PRIOR 5	MAXIMUM	MEAN	RESULT	IN PRIOR 5	MAXIMUM	MEAN	RESULT
	YRS				YRS			
ON-SITE W	ELLS/LOCAT	TIONS						
B-15	10	13,000	16	ND	10	1,600	ND	ND
B-16	10	33,000	2,500	260	10	4,500	6.6	1.3
B-17	5	28,000,000	590,000	230,000	5	350,000	5,300	130
B-7	5	9,100	180	380	5	270	2.3	4.8
BR-126	10	12,000	950	490	10	240	ND	ND
BR-127	10	44,000	12,000	24,000	10	1,300	190	240
BR-3	4	6,500,000	230	15	4	930,000	280	1.1
BR-5A	10	1,700	37	30	10	9,400	0.42	ND
BR-6A	10	140,000	9,500	4,600	10	69,000	170	14
BR-7A	10	510,000	20,000	6,300	10	5,600	57	29
BR-8	10	730,000	570,000	320,000	10	7,800	810	290
BR-9	10	34,000	7,900	1,200	10	210	27	27
E-3	5	600	10	24	5	15,000	ND	5.7
MW-127	10	15,000	960	130	10	7,500	0.80	ND
PW12	10	15,000	33	7.8	10	120,000	35	20
PW13	10	94,000	21,000	23,000	10	1,800	83	87
PW14	10	99,000	23,000	45,000	10	160,000	930	430
PW15	10	620,000	270,000	110,000	10	57,000	11,000	1,000
PW16	10	180,000	94,000	120,000	10	1,200	250	280
PW17	10	75,000	12,000	99,000	10	66,000	4,300	54,000
PZ-104	10	9,100	1,000	660	10	52	3.1	2.2
PZ-105	10	190,000	8,200	12,000	10	9,900	52	60
PZ-106	10	290,000	32,000	86,000	10	1,400,000	15,000	13,000
PZ-107	10	31,000	11,000	8,200	10	160,000	35,000	450
	WELLS/LOCA	TIONS						
BR-105	10	24,000	640	1,900	10	350	6.0	15
BR-105D	10	17,000	140	60	10	230	0.47	1.8
BR-106	10	170,000	57,000	190,000	10	12,000	330	620
BR-112D	5	310	8.6	270		4.3		
BR-113D	5	490	5	32		2.8		
BR-114	5	520	ND	ND	5	12	ND	2.6
BR-117D	5	80	1.9	ND		1.9		
BR-118D	5	330	5.9	9.4		6.6		
BR-122D	5	650	8.6	600		ND		

Prepared/Date: NMB 07/28/2023 Checked/Date: JAR 8/3/2023

TABLE 4 COMPARISON OF SPRING 2023 CHLOROPYRIDINES AND VOLATILE ORGANICS CONCENTRATIONS IN GROUNDWATER TO PREVIOUS RESULTS (ug/L)

ARCH ROCHESTER ROCHESTER, NEW YORK

WELL	SI	ELECTED CHL	OROPYRIDIN	IES		SELECT	ED VOCs	
	# EVENTS	HISTORIC	5-YEAR	MAY 2023	# EVENTS	HISTORIC	5-YEAR	MAY 2023
	IN PRIOR 5	MAXIMUM	MEAN	RESULT	IN PRIOR 5	MAXIMUM	MEAN	RESULT
	YRS				YRS			
BR-123D	5	860	50	120		7		
MW-106	10	130,000	35,000	15,000	10	4,000	220	69
MW-114	5	18	3.4	ND	5	27	11	13
PZ-101	10	27,000	18	ND	10	620	0.36	2.8
PZ-102	10	240,000	92,000	120,000	10	11,000	200	250
PZ-103	10	910,000	270,000	330,000	10	46,000	390	520
QD-1	9		ND	ND				
QO-2	10	380	ND	ND		ND		
QO-2S1	10	27	ND	ND		ND		
QS-4	10	13,000	66	21		ND		

Note:

- 1) Number of samples and mean reflect 5-year sampling period from May 2018 through November 2022. Historic maximum based on all available results from March 1990 through November 2022.
- 2) Chloropyridines represented by: 2-Chloropyridine, 2,6-Dichloropyridine, 3-Chloropyridine, 4-Chloropyridine, p-Fluoroaniline, and Pyridine.
- 3) Selected VOCs represented by Carbon Tetrachloride, Chlorobenzene, Chloroform, Methylene Chloride, Tetrachloroethene, and Trichloroethene.
- 4) Bold and shade May 2023 exceeds 5-year mean.
- 5) ND = Not detected BLANK = Not sampled

Prepared/Date: NMB 07/28/2023 Checked/Date: JAR 8/3/2023

TABLE 5 SPRING 2023 QUARRY SEEP AND OUTFALL SAMPLE RESULTS CHLOROPYRIDINES

ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

LOCATION:	QD-1		QO-2		QO-2S1		QS-4	
SAMPLE DATE:	5/12/2023		5/12/2023		5/12/2023		5/12/2023	
QC TYPE:	FS		FS		FS		FS	
SELECTED CHLOROPYRIDINES BY SW-846 Method 8270D (µg/L)								
2,6-Dichloropyridine	9.52	כ	9.65	J	9.68	U	10.3	
2-Chloropyridine	9.52	IJ	9.65	UJ	9.68	UJ	10.8	J-
3-Chloropyridine	9.52	J	9.65	J	9.68	U	9.76	U
4-Chloropyridine	9.52	UJ	9.65	UJ	9.68	UJ	9.76	UJ
p-Fluoroaniline	9.52	U	9.65	U	9.68	U	9.76	U
Pyridine	9.52	UJ	9.65	UJ	9.68	UJ	9.76	UJ

Notes:

U = Compound not detected; value represents sample quantitation limit.

J = Estimated value

J- = Estimated with a potential low bias

J+ = Estimated with a potential high bias

 μ g/L = micrograms per Liter

FS = Field sample

Created by: SRC 8/8/2023

Checked by: JAR 8/16/2023

TABLE 6 EXTRACTION WELL WEEKLY FLOW MEASUREMENTS DECEMBER 2022 THROUGH MAY 2023

ARCH ROCHESTER ROCHESTER, NEW YORK

	BR-7A	BR-9	PW-13	PW-15	PW-16	BR-127 *	Total
Week Ending		[Gal./Wk.]	[Gal./Wk.]	[Gal./Wk.]	[Gal./Wk.]	[Gal./Wk.]	[Gal.]
12/04/22	138,176	•	•	,	176	24,969	235,680
12/11/22	150,888	27,351	16,326	,	0	25,596	250,556
12/18/22	133,788	26,553	5,472	31,598	0	24,798	222,209
12/25/22	120,437	24,952	2	30,147	0	26,793	202,331
01/01/23	90,635	20,688	2	33,616	0	18,953	163,894
01/08/23	120,860	22,666	2	27,862	0	27,993	199,383
01/15/23	113,756	23,534	2	26,472	0	30,341	194,105
01/22/23	121,067	23,810	2	24,717	2	32,688	202,286
01/29/23	128,122	25,548	1	22,695	0	32,721	209,087
02/05/23	127,382	26,482	3	22,481	0	33,594	209,942
02/12/23	117,395	27,708	4	20,927	0	33,257	199,291
02/19/23	118,668	28,044	9	16,554	7	31,694	194,976
02/26/23	68,429	32,662	2	454	25,939	27,683	155,169
03/05/23	96,710	4,584	3	18,008	34,016	27,425	180,746
03/12/23	116,600	31,430	5	22,660	26,909	29,852	227,456
03/19/23	123,447	30,724	7	21,516	20,324	28,951	224,969
03/26/23	125,508	31,482	15	19,777	7,425	28,542	212,749
04/02/23	126,716	25,077	19	18,613	2,707	33,615	206,747
04/09/23	126,376	45,051	30	25,683	14,711	28,297	240,148
04/16/23	125,284	45,420	29	16,629	15,429	33,746	236,537
04/23/23	126,645	42,990	13	15,950	13,185	30,576	229,359
04/30/23	194,355	48,960	24	19,125	12,824	36,345	311,633
05/07/23	125,123	53,800	26	19,030	6,930	28,891	233,800
05/14/23	116,717	79,305	30	19,691	5,056	27,886	248,685
05/21/23	107,600	76,635	25	18,840	3,716	26,362	233,178
05/28/23	143,752	121,290	40	29,357	4,700	37,483	336,622
Total 6 Mo.							
26 Weeks	3,204,436	975,362	37,347	581,286	194,056	769,051	5,761,538

^{*}Erroneous reading recorded for BR-127 for week ending 1/15/23. Total flow estimated as average of prior and following weeks.

Prepared/Date: JAR 8/22/23 Checked/Date: NMB 8/22/23

TABLE 7

MASS REMOVAL ESTIMATE PERIOD: DECEMBER 2022 THROUGH MAY 2023

ARCH ROCHESTER ROCHESTER, NEW YORK

Well	Total Vol. Pumped	Avg ^{1.} VOC	Avg ^{1.} PYR	VOCs Removed	PYR. Removed
	(gallons) ²	Conc. (ppm)	Conc. (ppm)	(pounds)	(pounds)
BR-7A	3,204,436	0.065	24	1.7	640
BR-9	975,362	0.038	7	0.30	50
PW-13	37,347	0.09	27	0.03	8
PW-15	581,286	0.9	90	4.4	440
PW-16	194,056	0.40	135	0.6	220
BR-127	769,051	0.155	18.0	0.99	115
Totals:	5,761,538			8.1	1,500

Notes: 1) VOC and chloropyridine concentrations used in this table are an average of concentrations measured from the Fall 2022 and Spring 2023 sampling events for each well;

Total select VOCs include chlorobenzene, PCE, TCE, methylene chloride, carbon tetrachloride, and chloroform

- 2) Flows measured for period of 26 weeks (182 days).
- 3) Estimates for VOCs and PYR removed listed at 2 significant figures.

TABLE 8 2023 SAMPLING SCHEDULE ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

ARCH CHEMICAL	S, INC.					2023					
MONITORING PRO	OGRAM				_	SPF	RING	F/	ALL	то	TAL
						Pyridines	VOCs	Pyridines	VOCs	Pyridines	VOCs
	Well	zone	area	Frequency/Parameters	Purpose	_		Α)			
-	BR-105	BR	RG&E ROW	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	2
	BR-105D	BR deep	RG&E ROW	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	2
	MW-106	OB	AID-HOSP	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	2
	BR-106	BR	AID-HOSP	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	2
	BR-112D	BR deep	NYSDOT	annual monitoring, PYR	trend monitoring	1				1	0
	BR-113D	BR deep	NYSDOT	annual monitoring, PYR	trend monitoring	1				1	0
	MW-114	OB		annual monitoring, VOCs & PYR	trend monitoring	1	1			1	1
	BR-114	BR	Irish Propane	annual monitoring, VOCs & PYR	trend monitoring	1	1			1	1
	BR-117D	BR deep	QUARRY	annual monitoring, PYR	trend monitoring	1				1	0
	BR-118D	BR deep	QUARRY	annual monitoring, PYR	trend monitoring	1				1	0
	BR-122D	BR deep	QUARRY	annual monitoring, PYR	trend monitoring	1				1	0
	BR-123D	BR deep	QUARRY	annual monitoring, PYR	trend monitoring	1				1	0
	PZ-101	BR	AID-HOSP	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	2
	PZ-102	BR	AID-HOSP	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	2
	PZ-103	BR	AID-HOSP	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	2
ON-SITE	PZ-104	BR	ON-SITE	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	2
MONITORING	PZ-105	BR	ON-SITE	semi-annual monitoring, VOCs & PYR	trend monitoring	1	1	1	1	2	2
	PZ-106	BR	ON-SITE	semi-annual monitoring, VOCs & PYR	trend monitoring	1	1	1	1	2	2
	PZ-107	BR	ON-SITE	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	2
	BR-126	BR	ON-SITE	semi-annual monitoring, VOCs & PYR	trend monitoring	1	1	1	1	2	2
	BR-127	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1	1	1	1	2	2
	BR-3	BR	ON-SITE	annual monitoring, VOCs & PYR	trend monitoring	1	1			1	1
	BR-8	BR	ON-SITE	semi-annual monitoring, VOCs & PYR	trend monitoring	1	1	1	1	2	2
	BR-9	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1	1	1	1	2	2
	BR-5A	BR	ON-SITE	semi-annual monitoring, VOCs & PYR	trend monitoring	1	1	1	1	2	2
	BR-6A	BR	ON-SITE	semi-annual monitoring, VOCs & PYR	trend monitoring	1	1	1	1	2	2
	BR-7A	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1	1	1	1	2	2
	B-16	ОВ	ON-SITE	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	2
	B-17	OB	ON-SITE	annual monitoring, VOCs & PYR	trend monitoring	1	1			1	1
	B-7	OB	ON-SITE	annual monitoring, VOCs & PYR	trend monitoring	1	1			1	1
	B-15	OB	ON-SITE	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	2
	E-3	OB	ON-SITE	annual monitoring, VOCs & PYR	trend monitoring	1	1			1	1
	MW-127	OB	ON-SITE	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	2
	PW10	OB/BR	ON-SITE	semi-annual monitoring, VOCs & PYR	abandoned spring 2021- no longer in t	ise					
	PW12	BR	ON-SITE	semi-annual monitoring, VOCs & PYR	trend monitoring	1	1	1	1	2	2
	PW13	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1	1	1	1	2	2
	PW14	OB/BR	ON-SITE	semi-annual monitoring, VOCs & PYR	trend monitoring	1	1	1	1	2	2
	PW15	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1	1	1	1	2	2
	PW16	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1	1	1	1	2	2
	PW17	BR	ON-SITE	semi-annual monitoring, VOCs & PYR	trend monitoring	1	1	1	1	2	2
QUARRY/CANAL	QS-4	quarry seep	QUARRY	semi-annual monitoring, PYR	trend monitoring	1	Ė	1	Ė	2	0
	QD-1	quarry ditch	DITCH	semi-annual monitoring, PYR	trend monitoring	1		1		2	0
	QO-2	quarry outfall	DITCH	semi-annual monitoring, PYR	trend monitoring	1		1		2	0
	QO-2S1	canal at outfall	CANAL	semi-annual monitoring, PYR	surface water monitoring	1		1		2	0
TOTAL SAMPL					g	43	33	31	27	74	60
I U I AL SAWIPL	. <u>_</u> _3				I	40	JJ	O I	41	74	1 0

Notes:

RG&E ROW = Rochester Gas and Electric Right of Way

N/F = now or formerly AID-HOSP = Aid to Hospitals

NYSDOT = New York State Department of Transportation

On-site Well PW17 was taken out of service as a pumping well October 2022

Appendix A Matrix Environmental Field Report

FIELD REPORT

REMEDIAL INVESTIGATION SAMPLING ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

Spring 2023 Event

Matrix Environmental Project #04-029

PREPARED FOR:

ARCH CHEMICALS, INC.

100 McKee Road Rochester, NY 14611

PREPARED BY:



3730 California Road Orchard Park, New York 14127

Written by: Nickolas S. Ander

Reviewed by: Steven L. Marchetti

Date: June 23, 2023

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1.0 INTRODUCTION

This report describes the sampling of the following locations:

- 39 groundwater monitoring/pumping well samples
- 1 quarry sample at seep
- 1 quarry sample at ditch
- 1 quarry sample at outfall
- 1 canal sample at outfall

These activities were in support of the Phase II Remedial Investigation being conducted at the Arch Chemicals Inc. (Arch) facility in Rochester, New York. Static water levels in the groundwater wells were recorded on May 4th, 2023 by Matrix Environmental Technologies Inc. (METI) field personnel. The samples were collected from May 5th through May 12th, 2023.

2.0 METHODOLOGIES

2.1 Liquid Level Measurements

Static water levels were measured from all on-site and off-site monitoring wells. Light non-aqueous phase liquid (LNAPL) was measured (if present) in all on-site monitoring wells. Bottom well measurements were not collected during this event; therefore, dense non-aqueous phase liquid (DNAPL) was not verified. The measurements were recorded from the top of the well casing/riser using a Solinst oil/water interface probe. Measurements were recorded to the nearest hundredth of a foot (0.01 feet). The length of the measuring device which contacted liquids was cleaned with a deionized water rinse and paper towel wipe at each location. The data is presented in Sampling Summary Table and Field Observation Forms.

2.2 Well Purging

Monitoring wells were evacuated prior to sampling using one of the following methods:

- 1. Purging three times the standing water volume using precleaned or dedicated 1.25" x 5' stainless steel bailer or 2" x 5' polyvinyl chloride bailer.
- 2. Evacuated with a low flow/low stress purging technique using QED low-flow bladder pumps or a variable rate peristaltic pump.

Wells that were purged of three standing volumes were mainly wells located on or very near the Erie Canal and historically purged with this method prior to sampling. The remaining wells were evacuated with a low flow/low stress purging technique. This technique involves the use of a variable flow rate bladder or peristaltic pump. The pumps were employed to purge the monitoring wells at a flow rate such that drawdown of the water column from static conditions is minimal. Field measurements of pH, specific

conductance, temperature, ORP, dissolved oxygen and turbidity are monitored every 3-5 minutes until stabilization of parameters is observed before sampling. All purged water was collected for disposal at the on-site wastewater treatment facility. Data pertaining to well purging are presented in the Sampling Summary Table and Field Observation Forms.

3.0 SAMPLING

3.1 Monitoring Wells

All groundwater wells were sampled using precleaned or dedicated 1.25" x 5' stainless steel bailers, peristaltic pumps or bladder (Sample Pro) pumps when low flow purging techniques were used. Each bailer was constructed with Teflon, bottom-filling check valve and was assembled without glues or welds. New ¼" poly rope was attached to each bailer. The bailer was slowly lowered into the water column to minimize agitation. Low density polyethylene (LDPE) tubing was used with both the bladder (QED) and the peristaltic pumps. The bladder pumps were decontaminated between sample locations in accordance with the work plan. Personnel exercised care in all aspects of the sampling to ensure the collection of a representative sample. An additional sample container was collected from each well in order to facilitate the measurement of field parameters. Data pertaining to sampling are presented on the Sampling Summary Table and the Field Observation Forms.

3.2 Erie Canal Sampling

When possible, samples were collected directly from the Erie Canal into appropriate sample containers (QO-2S1). Otherwise, samples were collected with the use of a dedicated, laboratory cleaned stainless steel bailer. The bailers were immersed just below the surface, retrieved and the sample poured directly into the appropriate container. An additional container was collected to facilitate the measurement of field parameters. Additional data pertaining to these samples is presented in the Sampling Summary Table and Field Observation Forms.

3.3 Quarry Seep Sampling

Groundwater samples were collected from a seep at the quarry (QS-4) located on Buffalo Road. The samples were collected with the use of a laboratory cleaned stainless steel bucket and transferred directly into the appropriate containers. An additional container was collected to facilitate the measurement of field parameters. Data pertaining to this sampling is present in the Sampling Summary Table and Field Observation Forms.

3.4 Quarry Outfall Sampling

Groundwater samples were collected from the quarry outfall (QO-2) located along NY Interstate 390 near the walking/bicycle path near the Erie Canal. The samples were

collected with the use of a laboratory cleaned stainless steel bucket and transferred directly into the appropriate containers. An additional container was collected to facilitate the measurement of field parameters. Data pertaining to this sampling is present in the Sampling Summary Table and Field Observation Forms.

3.5 Quarry Ditch Sampling

Groundwater samples were collected from the quarry ditch (QD-1) located at the top of the quarry along the railroad tracks. The samples were collected with the use of a laboratory cleaned stainless steel bucket and transferred directly into the appropriate containers. An additional container was collected to facilitate the measurement of field parameters. Data pertaining to this sampling is present in the Sampling Summary Table and Field Observation Forms.

4.0 SAMPLE CONTAINERS

Monitoring wells and surface water samples requiring analysis for volatile organic compounds were collected in 40 ml glass vials with Teflon septa. Samples for semi-volatile and pyridine analysis were collected in one-liter amber glass bottles with Teflon-lined caps. All bottles were purchased new and cleaned (Protocol A, 300 series) from Paradigm Environmental Services. Each container was labeled with the following information:

- Sample Identification (Well/Point I.D.)
- Date
- Project Number
- Sampler's Initials

5.0 FIELD MEASUREMENTS

On-site field measurements included Field pH, specific conductance, temperature, ORP, dissolved oxygen and turbidity. Measurements were made in accordance with protocols outlined in Methods for Chemical Analysis of Water and Wastes (EPA -600/4-79-9020). These data were presented on the Sampling Summary Table and Field Observation Forms.

6.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

6.1 Trip Blanks

Trip blanks were collected with each sample shipment requiring volatile organic compound analysis. Each trip blank consisted of one 40 ml glass vial with Teflon septa which were filled with deionized water provided by Paradigm Environmental Services. These blanks were transported to the site, stored with field collected samples and submitted to the Paradigm Environmental Services for analysis.

6.2 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD samples were collected at a frequency of one per 20 groundwater samples. The MS is a sample to which known quantities of target analytes are added by the laboratory prior to sample analysis. Acceptable ranges for percent recovery of the added analytes are defined by the laboratory. The MS data is primarily used to evaluate potential matrix effects, which can impart a positive or negative bias. The MSD is used to assess the precision of the analytical method.

7.0 CHAIN OF CUSTODY

Chain of custody was initiated at the time of sample collection and maintained through delivery to Paradigm Environmental Services in Rochester, New York. Copies of these documents are included in the analytical report package.

TABLES

Table 1 Sampling Summary Table Arch Chemicals Inc., Rochester, NY

Sample	Location	Zone	Sample Date	Sample Time	Water Level (ft)	Bottom of Well (ft)	pH (STD Units)	Spec. Cond. (mS/cm)	Temp ©	Turb (NTU)	ORP (mv)	DO (ppm)
B-15	On-Site	OB	5/8/2023	11:40	4.48	NM	7.40	0.581	10.6	-0.82	69	2.50
B-16	Off-Site	OB	5/8/2023	12:18	4.21	NM	7.20	1.48	10.1	66.1	81	0.83
B-17	On-Site	OB	5/8/2023	9:42	6.05	NM	8.08	8.13	12.1	-1.69	-90	0.82
B-7	On-Site	OB	5/9/2023	2:20	16.98	NM	6.91	2.18	13.5	6.93	65.6	0.84
BR-105	Off-Site	BR	5/11/2023	10:45	22.15	NM	6.85	4.78	15.6	-2.10	-208	0.56
BR-105D	Off-Site	BR deep	5/11/2023	11:25	26.80	NM	6.82	24.25	15.0	19.19	-328	0.53
BR-106	Off-Site	BR	5/11/2023	9:55	22.67	NM	7.02	6.57	14.1	137.80	-340	0.51
BR-112D	Off-Site	BR deep	5/11/2023	3:10	36.41	NM	7.25	5.86	16.1	10.89	-273	2.22
BR-113D	Off-Site	BR deep	5/12/2023	10:25	31.70	NM	7.01	3.41	13.8	1.35	-309	0.55
BR-114	Off-Site	BR	5/10/2023	9:15	12.27	NM	7.99	0.46	11.6	7.86	-34.9	1.81
BR-117D	Off-Site	BR deep	5/11/2023	1:50	47.32	NM	6.42	89.43	12.8	32.40	-303	0.45
BR-118D	Off-Site	BR deep	5/12/2023	9:25	46.68	NM	7.56	1.06	11.4	4.22	-227	0.95
BR-122D	Off-Site	BR deep	5/12/2023	11:45	45.11	NM	6.88	3.55	21.3	-0.82	-281	0.49
BR-123D	Off-Site	BR deep	5/12/2023	12:40	45.35	NM	7.85	1.87	15.7	41.08	-232	0.55
BR-126	Off-Site	BR	5/8/2023	10:52	8.11	NM	7.07	1.03	12.5	7.01	-94	0.67
BR-127	On-Site	BR	5/5/2023	2:10	19.80	NM	8.97	3.65	11.1	51.46	-122	6.81
BR-3	On-Site	BR	5/9/2023	10:45	4.17	NM	7.96	2.740	11.0	320.0	-244	0.55
BR-5A	On-Site	pumping well	5/5/2023	9:25	4.38	NM	7.25	3.47	8.90	74.25	-108.7	0.69
BR-6A	On-Site	BR	5/5/2023	11:20	13.85	NM	8.49	4.28	13.5	34.90	-261	0.67
BR-7A	On-Site	pumping well	5/9/2023	2:50	NM	NM	7.30	3.42	14.8	10.88	-116	6.38
BR-8	On-Site	BR	5/9/2023	12:10	7.48	NM	8.95	13.50	13.4	3.80	-239	0.49
BR-9	On-Site	pumping well	5/10/2023	1:40	NM	NM	7.40	4.16	16.4	82.15	-95.7	4.48
E-3	On-Site	OB	5/9/2023	9:45	4.70	NM	7.96	1.716	9.50	34.09	-206	0.72
MW-106	Off-Site	OB	5/10/2023	2:45	10.42	NM	6.88	2.14	16.3	167.40	-211	0.57
MW-114	Off-Site	OB	5/10/2023	9:55	11.03	NM	7.10	1.72	12.6	12.84	-26	3.10
MW-127	On-Site	OB	5/5/2023	1:55	7.06	NM	7.69	1.29	10.9	-0.84	-36.1	0.79
PW-12	On-Site	BR	5/5/2023	2:55	4.33	NM	8.99	0.40	11.3	1.63	-225	0.61
PW-13	On-Site	pumping well	5/9/2023	3:20	25.35	NM	7.18	6.19	14.2	47.13	-133	2.61
PW-14	On-Site	pumping well	5/8/2023	9:08	8.59	NM	10.09	5.28	11.6	-1.90	-271	0.52
PW-15	On-Site	pumping well	5/11/2023	9:00	22.50	NM	9.27	6.23	13.3	4.96	-157	4.98
PW-16	On-Site	pumping well	5/9/2023	12:35	7.55	NM	7.49	5.26	13.7	22.46	-149	5.48
PW-17	On-Site	pumping well	5/11/2023	8:25	18.48	NM	7.92	12.20	12.2	31.09	-115	4.16
PZ-101	Off-Site	BR	5/10/2023	10:55	11.30	NM	6.73	3.41	17.9	19.60	73.3	0.84
PZ-102	Off-Site	BR	5/10/2023	11:35	18.50	NM	7.06	6.17	18.6	6.12	-319	0.44
PZ-103	Off-Site	BR	5/10/2023	12:30	12.00	NM	7.35	9.09	16.1	21.87	-371	0.49
PZ-104	Off-Site	BR	5/8/2023	1:58	13.33	NM	6.98	3.55	14.1	300.6	-102	0.64
PZ-105	On-Site	BR	5/5/2023	10:30	11.98	NM	7.57	4.80	12.2	120.0	-339	0.53
PZ-106	On-Site	BR	5/8/2023	8:42	12.84	NM	9.22	10.00	10.1	43.80	-192	0.63

Table 1 Sampling Summary Table Arch Chemicals Inc., Rochester, NY

Sample	Location	Zone	Sample Date	Sample Time	Water Level (ft)	Bottom of Well (ft)	pH (STD Units)	Spec. Cond. (mS/cm)	Temp ©	Turb (NTU)	ORP (mv)	DO (ppm)
PZ-107	On-Site	BR	5/5/2023	12:20	10.33	NM	7.32	2.21	12.3	-2.35	-186	0.58
QD-1	Quarry/Canal	quarry ditch	5/12/2023	1:30	NA	NA	8	2.20	13.8	-0.08	-8.1	9.95
QO-2	Quarry/Canal	quarry outfall	5/12/2023	1:00	NA	NA	8.55	2.17	18.4	2.27	-47.2	10.64
QO-2S1	Quarry/Canal	canal at outfall	5/12/2023	1:15	NA	NA	8.81	0.76	16.1	0.79	-73.5	11.56
QS-4	Quarry/Canal	quarry seep	5/12/2023	1:45	NA	NA	8.45	1.80	18.1	-2.90	-0.2	9.31

** Water level at time of sampling

NM = Not Measured

NA = Not Accessible

Table 2 Groundwater Elevation Report Arch Chemicals Inc., Rochester, NY

Sample	e Location	Zone	Date	Depth to water	Casing Elevation	GW Elevation	Time	Comments
B-1	On-Site	OB	5/4/2023	6.94	537.75	530.81	_	
B-10	On-Site	OB	5/4/2023	7.31	538.80	531.49	-	
B-15	Off-Site	OB	5/4/2023	2.78	535.29	532.51	_	
B-16	Off-Site	OB	5/4/2023	3.73	536.21	532.48	_	
B-17	On-Site	OB	5/4/2023	6.32	538.74	532.42	_	Missing bolts, flushmount box
B-2	On-Site	OB	5/4/2023	8.00	539.02	531.02	_	5 /
B-4	On-Site	OB	5/4/2023	10.78	542.87	532.09	_	J-plug missing
B-5	On-Site	OB	5/4/2023	7.21	540.21	533.00	_	- F88
B-7	On-Site	OB	5/4/2023	12.21	541.11	528.90	_	
B-8	On-Site	OB	5/4/2023	4.25	538.88	534.63	_	
BR-1	On-Site	BR	5/4/2023	5.41	537.28	531.87	_	
BR-102	On-Site	BR	5/4/2023	23.10	539.43	516.33	_	Broken
BR-103	Off-Site	BR	5/4/2023	0.50	533.19	532.69	_	Bolts, tabs missing
BR-104	Off-Site	BR	5/4/2023	10.00	537.56	527.56	_	Bolts missing
BR-105	Off-Site	BR	5/4/2023	24.40	536.90	512.50	-	Broken Lid
BR-105D	Off-Site	BR deep	5/4/2023	30.91	536.49	505.58	-	Bolts missing
BR-106	Off-Site	BR deep BR	5/4/2023	25.45	535.74	510.29	-	Done missing
BR-108	Off-Site	BR	5/4/2023	28.74	540.58	511.84	-	
BR-111	Off-Site	BR	5/4/2023	30.48	540.42	509.94	-	
BR-111D	Off-Site	BR	5/4/2023	32.20	540.42	508.14	-	
BR-111D BR-112D	Off-Site	BR deep	5/4/2023	39.85	547.91	508.06	-	
BR-112D BR-113	Off-Site	BR deep BR	5/4/2023	34.85	543.02	508.00		
BR-113 BR-113D	Off-Site			34.60	542.93	508.17	-	
BR-113D BR-114		BR deep BR	5/4/2023		539.77	527.42	-	
	Off-Site		5/4/2023	12.35			-	
BR-116	Off-Site	BR	5/4/2023	28.41	545.38	516.97	-	
BR-116D	Off-Site	BR deep	5/4/2023	38.08	545.22	507.14	-	
BR-117	Off-Site	BR	5/4/2023	35.00	547.61	512.61	-	
BR-117D	Off-Site	BR deep	5/4/2023	48.78	547.16	498.38	-	
BR-118	Off-Site	BR	5/4/2023	22.85	547.79	524.94	-	
BR-118D	Off-Site	BR deep	5/4/2023	45.35	547.93	502.58	-	
BR-122D	Off-Site	BR deep	5/4/2023	47.58	552.34	504.76	-	
BR-123D	Off-Site	BR deep	5/4/2023	47.92	553.62	505.70	-	
BR-124D	Off-Site	BR deep	5/4/2023	36.35	537.45	501.10	-	
BR-126	Off-Site	BR	5/4/2023	8.20	537.90	529.70	-	
BR-127	On-Site	BR	5/4/2023	19.63	536.05	516.42	-	
BR-3	On-Site	BR	5/4/2023	2.38	538.20	535.82	-	
BR-3D	On-Site	BR deep	5/4/2023	0.20	537.67	537.47	-	Same as surface water
BR-4	On-Site	BR	5/4/2023	12.56	539.03	526.47	-	
BR-5	On-Site	BR	5/4/2023	3.44	536.30	532.86	-	
BR-5A	On-Site	pumping well	5/4/2023	4.18	536.35	532.17	-	
BR-6A	On-Site	BR	5/4/2023	12.20	540.90	528.70	-	
BR-7	On-Site	BR	5/4/2023	16.00	539.10	523.10	-	
BR-7A	On-Site	pumping well	5/4/2023	NM	539.12	NM	-	Unable to measure past pump
BR-8	On-Site	BR	5/4/2023	7.20	539.72	532.52	-	
BR-9	On-Site	pumping well	5/4/2023	NM	542.17	NM	-	Unable to measure past pump
C-5	On-Site	OB	5/4/2023	7.08	539.63	532.55	-	
CANAL	Off-Site	SW	5/4/2023	41.30	544.79	503.49	-	
E-2	On-Site	OB	5/4/2023	NG	538.32	NM	-	Well Missing
E-3	On-Site	OB	5/4/2023	4.31	536.59	532.28	-	Missing cover and locking lid
E-5	On-Site	OB	5/4/2023	5.47	539.31	533.84	-	Missing cover and locking lid
EC-2	Off-Site	BR	5/4/2023	NA	542.00	NA	-	Dry at 12.70

Table 2 Groundwater Elevation Report Arch Chemicals Inc., Rochester, NY

Sample	e Location	Zone	Date	Depth to water	Casing Elevation	GW Elevation	Time	Comments
MW-103	Off-Site	OB	5/4/2023	0.47	533.25	532.78	-	Bolts, tabs missing
MW-104	Off-Site	OB	5/4/2023	7.82	537.54	529.72	-	Sunk in; bolts missing
MW-105	Off-Site	OB	5/4/2023	18.85	536.91	518.06	-	Bolts missing
MW-106	Off-Site	OB	5/4/2023	8.82	535.44	526.62	-	
MW-114	Off-Site	OB	5/4/2023	9.48	539.69	530.21	-	
MW-127	On-Site	OB	5/4/2023	5.98	536.87	530.89	-	
MW-16	Off-Site	BR	5/4/2023	10.70	536.79	526.09	-	Road box needs replacement
MW-3	Off-Site	OB	5/4/2023	NM	535.89	NM	-	Parked over/inaccessible
MW-G6	Off-Site	OB	5/4/2023	NM	534.65	NM	-	Missing/destroyed
MW-G8	Off-Site	OB	5/4/2023	7.42	534.25	526.83	-	
MW-G9	Off-Site	OB	5/4/2023	27.95	536.60	508.65	-	
N-2	On-Site	OB	5/4/2023	NM	537.33	NM	-	Casing broken at 3.10
N-3	On-Site	OB	5/4/2023	4.45	537.38	532.94	-	Pro top bent/locking lid broken
NESS-E	Off-Site	BR deep	5/4/2023	27.38	540.31	512.93	-	
NESS-W	Off-Site	BR deep	5/4/2023	NM	543.04	NM	-	Gate locked/inaccessible
PW-12	On-Site	BR	5/4/2023	4.02	537.49	533.47	-	
PW-13	On-Site	pumping well	5/4/2023	29.60	536.13	506.53	-	Pump not operational
PW-14	On-Site	pumping well	5/4/2023	9.05	537.03	527.98	-	J-plug missing
PW-15	On-Site	pumping well	5/4/2023	22.81	538.32	515.51	-	
PW-16	On-Site	pumping well	5/4/2023	7.92	539.32	531.40	-	Pump not operational
PW-17	On-Site	pumping well	5/4/2023	20.36	NA	NA	-	
PZ-101	Off-Site	BR	5/4/2023	11.00	542.95	531.95	-	
PZ-102	Off-Site	BR	5/4/2023	16.28	540.89	524.61	-	
PZ-103	Off-Site	BR	5/4/2023	9.64	540.20	530.56	-	
PZ-104	Off-Site	BR	5/4/2023	13.17	536.85	523.68	-	Lid of curb box broken
PZ-105	On-Site	BR	5/4/2023	7.11	536.93	529.82	-	
PZ-106	On-Site	BR	5/4/2023	8.64	537.24	528.60	-	
PZ-107	On-Site	BR	5/4/2023	8.35	538.39	530.04	-	
PZ-109	On-Site	BR	5/4/2023	6.34	538.59	532.25	-	
PZ-110	On-Site	BR	5/4/2023	11.31	NA	NA	-	
PZ-111	On-Site	BR	5/4/2023	NM	NA	NA	-	Missing
W-5	On-Site	OB	5/4/2023	NM	538.53	NM	-	Missing

NM = Not Measured NA = Not Applicable

APPENDIX A FIELD OBSERVATION FORMS

	Arch Chemonnel:		Read	gen	Sample I	Point ID: Matrix:	BR	- 5,	A	
MONITO	RING WEI	L INSPECTI	ON		ME GO	SE CEN	SHE SHE			
Date/Time	= 5/	5/73	9	'.00a	<u>-</u>	Condition of seal:	() Good (-	%
Prot.	Casing/Riser Height:			and a			() unlocke () loose (d Good) flush mo		
if prot cas	sing; depth to	riser below:			Water		() Damage	u		
A CONTRACTOR	r Calibration		% Gas	14	921;		% LEL:	Pd	152	
Vol. Orga	anic Matter (Calibration/Rea	ading):		_ v	olatiles (ppm):	3.1.			
PURGE	INFORMA	TION	BONAL S			SEC.				
Surf. Mo Initial W Well To One (1) Total Vo		(): (al):	. /	VCSV Take	Elevatio Method Dedicate	ameter (inches) In G/W MSL: Of Well Purge Ed: O Dryness:	200	Dump	25	
PURGE	DATA (if a	pplicable)		0.000			0000		Carlo	
Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume (OZ)	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
9:00	4.18		0	9.0	7,23	3.40	124.4	-87.4	2.82	
9:05	4.27		1502	9.2	7.24	3.459	118.8	-100.8	1.08	co-
9:10	4,30		3092	9,2	7.25	3.465	58.02	-104!	0.92	
9:15	11		5007	9.0	7.26	32169	86.98	-		3
	4.36			8.9		C	84.34		0.71	
9:75	1	Tillian State of	2707	8.9	726	3,464	~	-	-	J. 91159

Sampled @ 9:25

FIELD OBSERVATIONS BR-5A Facility: Arch Chemicals, Inc. Sample Point ID: FIELD OBSERVATIONS SAMPLING INFORMATION Date/Time 4.38 Water Level at Sampling (ft) Method of Sampling Dedicated: Multi-phased/layered: if yes: () Light () Heavy SAMPLING DATA Time Temp pH Conductivity Turb. ORP DO Other (C) (SU) (umhos/cm) (NTU) 9:25 3.468 7.25 -108.7 0.69 INSTRUMENT CALIFBRATION/CHECK DATA Check Std Cal.Std. Check Std Check Std Cal Std Cal Std Cal Std. Cal Std. Meter ID# 7.0 SU 1413 1413 umhos/cm 10 NTU 7.0 SU 4.0 SU 10.0 SU 10 NTU (+/- 10%) umhos/cm (+/- 10%) (+/- 10%) Solution ID# GENERAL INFORMATION Weather conditions at time of sampling: Sample characteristics: Comments and Observations:

I certify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific protocols:

Date:

Company: Matrix Environmental Technologies

Facility:	Arch Che	ATIONS micals, Inc. /ATIONS	g Q ra	Sample	e Point ID:	ρz	105	AVAGE Tomore	
SAMPLIN	G INFO	RMATION						2100	
Date/Time Method of Multi-phase			123 900pu	Water if yes:	Level at Samplin	Dedicated:	11,98 Y	/ N	
SAMPLIN	G DATA					100			ADM:
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	(Other
10:3	30	12.2	7.57	4.800	120	-339	0.53	in many	nanci li
INSTRUM	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std.	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 ur	k Std nhos/cm 10%)	Cal Std. 10 NTU	Check Std 10 NTU (+/- 10%)
			N	THE REAL PROPERTY OF THE PARTY		25		\$2,000 \$2,700 \$400 \$400 \$400 \$400 \$400 \$400 \$400 \$	
Solution ID#								-	150-15
GENERA Weather co Sample cha Comments	nditions a	t time of sampl	ing: _clea	Sunny C, sligh	1 50°				200
I certify that	at sampling	g procedures we	4	e with all applicable t	PA, State and S				Technologies

FIELD OBSERVATIONS Facility: Arch Chemicals, Inc.					Sample l	Point ID:	PZ	105	VALUE	GJEDI
Field Perso	nnel:	Ander	Red	egen	Sample l	Matrix:	Groundwat	er	VISIBRE	
MONITO	RING WEI	L INSPECTI	ON	DATE:	REEL	E HERE	1000	10.75	TO CASE	
Date/Time	5/	5/23	10):00	10.7	Condition of seal:	Good (A. Cartier	%
Prot. C	Casing/Riser Height:					ition of Prot. ing/Riser:		Good flush mo		
if prot casi	ng; depth to	riser below:	- 150		(Instead	11			67	101
Gas Meter Calibration/Reading: % Gas					230		% LEL:	7	136	
Vol. Organ	nic Matter (C	Calibration/Rea	iding):		_ v	olatiles (ppm):		-		THE REAL PROPERTY.
PURGE I	NFORMAT	TION								
Surf. Mea Initial Wa Well Tota One (1) R	e Initiated: as. Point: ater Level (i al Depth (fi) tiser Vol (g ume Purgeo	N) Pro Casin ft): S): al):	23 g ()Riser ,00	0'05	Riser Di Elevation Method Dedicate	o Dryness:	2	0:30 n puny	ρ	SURVINE S
Purge Obs	ervations:				Start	10:05	Finish	10:	30	
PURGE I	DATA (if ap	oplicable)		22 Miles	100					
Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume OZ	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
10:05	8.00		0	12.3	7.64	4.473	150	-213	5.99	
10:10	8.72		502	11.5	7.58	4.949	36.72	-267	1.63	6 N -2
10:15	9.45		1502	11.1	7.58	5.06	114.4	-318	17.0	
10:20	10.28		3402	11.9	7,58	5,003	108.2		0.60	
10:25	11.15		5202	10,9	7.58		69.6		0.57	
10:30	11.98	Maxing a	750z	12.2	7.57	4,800		-339	0.53	200

Sampled @ 10:30

SAMPLE	NG INFO	RMATION		TO SERVICE AND IN	No.	REGISE	WHIA GO	DANGERS.	
Date/Time Method of Multi-pha	Sampling	5/5/	23 John	Water if yes:	Level at Sampli	ing (ft) Dedicated	3,85 E)/ N	
SAMPLE	NG DATA	1		AND DESCRIPTION OF					
T	ime	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO		Other
11:2	0	13.5	8.49	4,275	34.90	-261	0.67	movi4	
	u.ver		1					l di	ALC: Y
INSTRUM	MENT CA	LIFBRATION	N/CHECK DA	TA		EZ K		1200	
Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 u	ck Std mhos/cm 10%)	Cal Std. 10 NTU	Check Sto 10 NTU (+/- 10%)
			6 (32) ; (QL) 7	estaton howlished		asi		17523	71.2 TH
Solution ID#	LETTE	WATER ST		C ALL					- 62/4
GENERAL Weather co Sample cha	nditions at	time of sampli	ng: lisht	Sunny combes E	50	0			D'a
Journeus :	and Observ	vations.			A	421		101.8	134
25 11/4	Par	1645-H	ART IN	· What	C 36 K	Pal		tells	Con

TIELD OB acility: Ar Field Personn	rch Chemica		, Rizh		Sample Po		BR-	6A	(1630) (1600)	
MONITORI	NG WELL	INSPECTIO	N		77.30					
Date/Time:_	5/5	23	10:5	0		Condition of g	Good ()) None ()		private s	%
Prot. Cas	sing/Riser Height:					on of Prot.) unlocked) loose (~	nt	
in the		03		80	Contractor Contractor	() Damaged	piol -	SEP	
if prot casing Gas Meter C		13.013	% Gas	Pr.	375	A P	6 LEL:			5.34
		libration/Read	and the second		Vo	latiles (ppm):	o LEL:			
PURGE IN						STATUTE OF THE PARTY.	TO STATE OF	ALC: N	NEW COL	SESSIII I
Initial Wat Well Total One (1) Ri Total Volu Purge Obse	er Level (fi Depth (ft) ser Vol (ga ime Purged rvations:	(gal):	() Riser (22 00 oz	2 9 7 3 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Elevation Method of Dedicates	of Well Purge d: Oryness:	D N Y/N Finish	2000 11:2	mp	
-	ATA (if ap						20.22			
Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
10:55	12.22	202	0	12.3	6.58	4.342	52.14	-99	2.09	pro signa
11:00	12.62		1002	12.9	8.23	4,272	1	-207	1.07	Physics of
11:05	13.18	-	300Z	15.6	8.44				0.72	
11:10	13.45		640z	15.2	845	4.271	1-	-	-	
11:15	1373		202			4.289	39.07			
	13.85	/	100	17.5	10	4275	-		0 /2	17216

11:20 | 3:85 | 10002 | 13.5 | 2:49 | 4.275 | Sampled @ 11:20 Page 1 of 2

FIELD (DBSERV	ATIONS					×1001	DESIGN			
Facility:	Arch Chem	icals, Inc.	10	dip	Sample	Point ID:	ML	112	7		
Field Perso	onnel:				Sample	Matrix:	Groundwa	ter		Octa	
MONITO	RING WEI	L INSPECTI	ON	NOTE:						1000	
Date/Time	5/5	1/23	and the	of he will	rescale .	Condition of Good () Cracked seal:					
						() None () Buried		Supplied		
Prot. C	asing/Riser			Cond	ition of Prot.	() unlock	ed (A) Goo	d			
	Height:				sing/Riser:	() loose	() flush mo	ount			
						() Damag	ed	1			
200000000000000000000000000000000000000		riser below:	TATE OF THE	OF YOUR	7		- T	501	1	Door	
	Calibration/		% Gas			% LEL:	Total la				
-		alibration/Rea	ding):	no-more		olatiles (ppm):		usoninees.		No. of Concession,	
PURGET	NFORMAT	ION									
Date/Time	e Initiated:	5/5	/23	1:30	Date/Tin	ne Completed:	cities				
Surf. Mea	s. Point:	() Pro Casing	Riser		Riser Di	ameter (inches)	2	in pro	2		
Initial Wa	ter Level (f	1): 3,	90		Elevation	n G/W MSL:	Town .		THE THE		
Well Tota	l Depth (ft)				Method	of Well Purge	- 80	opu	np		
	iser Vol (g	7000	00		Dedicate	sd:	3) N	'	1		
	ume Purgeo	l (gal):	9002			Dryness:	Y/O		_		
Purge Obse	ervations:				Start	1:30	Finish	1:5	5		
PURGE D	ATA (if ap	plicable)	Jan J				LASTEN B				
Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other	
1:30	5.90		0	5.8	1 TO 1	1.356	1097	-79,8	3.98	dire por	
1:35	6.45		502	11.6	סהר	1.785	200 March 18 Co.	-58	1.28	Thirt and	
1:40	6.78		2502	11.0	סהר	1.274	0.69			.0	
1:45	6,98		4502	10.8	7.70	1,275	0.18	-43.2	0.78		
1:50	7.03		6/02	10.9	7.69	1.278	-0.64	-38.8			
1:55	7.06	- Conta	9002	10.9	7,69		-	36.1	0.0	all night	
1.00	1,00	The second	1	1011	1,01	1,000	VIDT	1001	0.79		

Semples @ 1:55

FIELD OBSERVATIONS Facility: Arch Chemicals, Inc. Sample Point ID: FIELD OBSERVATIONS SAMPLING INFORMATION Date/Time Water Level at Sampling (ft) 80/ N Dedicated: Method of Sampling Multi-phased/layered: if yes: () Light () Heavy SAMPLING DATA Other Time ORP DO Temp Turb. pH Conductivity (NTU) (C) (SU) (umhos/cm) 10.9 -0.84 -36.1 .788 INSTRUMENT CALIFBRATION/CHECK DATA Check Std Check Std Cal.Std. Check Std Cal Std Cal Std Cal Std. Cal Std. Meter ID# 7.0 SU 1413 umhos/cm 1413 10 NTU 7.0 SU 4.0 SU 10.0 SU 10 NTU (+/- 10%) umhos/cm (+/- 10%) (+/- 10%) olution ID# GENERAL INFORMATION Weather conditions at time of sampling: Sample characteristics: Comments and Observations:

		micals, Inc. /ATIONS	S.J.	Samp	Sample Point ID: PZ 107					
SAMPLIN	IG INFO	RMATION		TO STATE OF THE PARTY OF THE PA				2000	(H) (S)	
Date/Time Method of Multi-phas	orente ut.	5/5 Y/N	9000	Water Water if yes:	Level at Sampli	ng (ft) Dedicated	10.33 : @)/ N	-may	
SAMPLIN	IG DATA		NO.	das nos a			No.			
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	1	Other	
12:2	20	12.3	7.32	2.209	-2.35	-186	0.58		in the Kill	
INSTRUM Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	TA Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 ur	k Std mhos/cm 10%)	Cal Std. 10 NTU	Check Str 10 NTU (+/- 10%)	
Solution ID#	10		- T- 128							
GENERA Weather co Sample cha Comments	nditions at	t time of sampli	ing: _Clea	partly no a	Shany	50	5.			

	Arch Chemic		4	TO	Sample Sample	Point ID: Matrix:	Groundwat	2 10°	7	act in
MONITOR	UNG WELI	INSPECTIO	ON		11592				300000	
Date/Time:	5/	15/23	3	er tile.	- CHIP.	Condition of Good () Cracked seal:				% ************************************
Prot. C	asing/Riser Height:	12550E	A THE STATE OF THE			Condition of Prot. Casing/Riser: () loose () flush				
Gas Meter	ng; depth to a Calibration/I		% Gas	C 257	pg v	olatiles (ppm):	() Damage	(£.5)	S	54.21
PURGE I	NFORMAT	ION		HW		RIBERS			PERM	
Surf. Mea Initial Wa Well Tota One (1) R	ater Level (f al Depth (ft) tiser Vol (ga ume Purged	() Pro Casing i): B :	1.07.11	1:45	Riser Di Elevatio Method Dedicate		D N Y M	eop 12:	DVC Vorp	
PURGEI	DATA (if ap	plicable)						- Control		533
Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
11:53	8.30		0	13.0	6.89	2.425	13.56	-90	4,52	et des
12:00	9.02		1002	10.7	7.29	2.403	-1,45		1.11	annungs.
17:05	10		2002	11.0	7,29	2.393	-2.48	-163	0.86	
	9,90		3202	119	7.30	2.327	-187	-175	0.66	
	12:15 10:16 4802 12.1				7.31	2.281	-2.28	-181	0.62	
IIC . 12	12:20 10:33 GHOZ 12:3					2.209	-2.35	100	0.58	Do Arm

Facility:	Arch Che	VATIONS emicals, Inc. VATIONS	16	Sampl	e Point ID:	BI	2 12	7	BEG CLES BEG COMM
SAMPLE	NG INFO	RMATION		STATE AND LINE					
Date/Time Method of Multi-phas	Sampling	5/5 Y/N	123 grub	Phup 2	Level at Sampli () Light	ng (ft) Dedicates () Heavy	19,80 d: ()	D N N	1007-0
SAMPLIN	NG DATA	1							
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO		Other
2:10	0	11.1	8.97	3.653	51.46	-122	6.81		
						0.00		Treate	
INSTRUM	MENT CA	LIFBRATIO	N/CHECK DA	TA					
Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 u	eck Std mhos/cm - 10%)	Cal Std. 10 NTU	Check Std 10 NTU (+/- 10%)
			V vit	Displace of the second				100780	
Solution ID#				Byles E					Sec. 15
GENERAL Weather co Sample cha Comments	nditions at	t time of sampli	ng:	Sunn ght &	y 55				
certify that	sampling	procedures we		with all applicable E	PA, State and Si			1	Technologies

FIELD OBSERVATIONS

SAMPLIN	G INFOR	MATION		10000	THE REAL PROPERTY.	SERIES.			WHEN S
Date/Time Method of : Multi-phase		5/5 Y/N	-/23 20 pm	Water if yes:	1000000	g (ft) Z Dedicated:		o/ N	
SAMPLIN	G DATA	2000							Page 1
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	0	ther
2:5	5	11.3	8.99	0.398	1.63	-225	0.6		orany s chicalo le
Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	100 March 1997	k Std nhos/cm 10%)	Cal Std. 10 NTU	Check Str 10 NTU (+/- 10%)
Solution ID#	73		18 H	2 0 0		E C			
GENERA Weather co Sample cha Comments	nditions at	t time of sampl	ing: C/ea.	Sunn , slight	y 55 Solor				
		ENT	1.00		SELL S				100

FIELD OBSERVATIONS Facility: Arch Chemicals, Inc. Field Personnel: Nikk fish	Sample Point ID: PW 1Z Sample Matrix: Groundwater
MONITORING WELL INSPECTION	
Date/Time: 5/5/23	Condition of Good () Cracked seal:
Prot. Casing/Riser Height:	Condition of Prot. Casing/Riser: () loose of flush mount
if prot casing; depth to riser below: Gas Meter Calibration/Reading: % Gas	() Damaged
Vol. Organic Matter (Calibration/Reading):	Volatiles (ppm):
PURGE INFORMATION	
Date/Time Initiated: 5/5/23 2:20 Surf. Meas. Point: Pro Casing () Riser Initial Water Level (ft): 4.08 Well Total Depth (ft): One (1) Riser Vol (gal):	Date/Time Completed: Riser Diameter (inches) 6 shoul 5 t Elevation G/W MSL: Method of Well Purge Goppung Dedicated: (Y) N
Total Volume Purged (gal): Purge Observations:	Purged to Dryness: Y / N Start 2:30 Finish Z! 55
PURGE DATA (if applicable)	
Time Water Purge Rate Cumulative Temp Level (gpm/htz) Volume (C)	pH Conductivity Turb. ORP DO Other

Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
2:30	41.06		0	12.9	9.0	0.541	7.02	-106	3.29	-
2:35	4.20		2502	11.8	200	0.394	5.31	-1(1	0.81	-
2:40	4,22		4802	11.4	9.0	0.396			0.72	-
2:45	4.27		700z	11.5	9.0	0.398	2.93	-193	0.66	
2:50	4.30		9502	11.5	9.0	0.398	[.77	-216	0.63	
2:55	4.33	-	12802	11.3		0.398				

Semples @ 2:55

	G INFO	RMATION	MIN'S THE	· CONTROL OF		and the		SHOW!		
Date/Time			23	Water I	Level at Samplin	g (ft)	2.84	5/8/2		
Method of Multi-phas		Law -	-lw	if yes:		Dedicated:		/ N		
SAMPLIN	NG DATA	- HAT U	TO SHARE				NZ S		RISS I	
Time		Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other		
8:4	2	duals	ANTA	See	Shee	+	e de	denden!	Toole .	
						L/No	i - mil	Symple of the last	Barra A	
NSTRUM	MENT CA	LIFBRATION	//CHECK DAT	га						
Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 ur	Check Std 1413 umhos/cm (+/- 10%)		Check Str 10 NTU (+/- 10%)	
				Lancard	20.32	n()-/20 1	3		2 /11 ×	
Solution ID#	200			42						
		MATION t time of sampli	ng:	Surry 55'	F					
Sample cha Comments	180	23/. 3	201 1.20 101 1.20	919 75	30			011	1 100	
T-17	077	11/-	1/2/1	12211	1.77	2		RU	4 40	
Y					T. 18					

FIELD OF Facility:	Arch Chemic	cals, Inc.	B	Sample P	Section 1	PZ-106 Groundwater					
MONITOR	ING WELL	L INSPECTIO	NO						165/8		
Date/Time:	5/8/	23	Universe wild	2,8360		Condition of seal:	(79 Good (() None (es-side!	%	
Prot. C	asing/Riser Height:					tion of Prot.	f () Good				
			300				() Damage	d	100		
		riser below:	-50	5/12	93	0 0	% LEL:	Brigh	6	14:8	
	Calibration/lic Matter (C	alibration/Rea	% Gas ding):		v	olatiles (ppm):		dend			
	NFORMAT					a serale	N ESSE				
Surf. Mea Initial Wa Well Tota One (1) R Total Vol- Purge Obs	s. Point: ter Level (f l Depth (ft) iser Vol (gr ume Purgeo	al): i (gal): 🏻 餐	y ()Riser	8 oz.	Riser Di Elevation Method Dedicate Purged t		Geolus D1 N Y 10		6 gM		
Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other	
8:16 am	9.40			9.8	9.14	9.972	\$10g	-/68	4300	AN COTA	
8:21	10.31			9.9	9.20	9.989	1.23	-178	0.98	ig =2300	
8:26	11.15			10.1	9.22	9.991	m/.02	-184	0.80		
8:31	11.82	-		10.04	9.21	9993	217	-185	0.71		
8:37	12.46		-	10.05		9.995	43,3	-191	0.65		
8:42	12.84	LESSAGE #	(1664)	10.05	1.2	9,999	438		100000000000000000000000000000000000000	E MA	

Sampled at 8:42

SAMPLIN	G INFOR	MATION		SERVICE .		PW			
Date/Time Method of S	Sampling	5.8.2.		Water	Level at Samplin	g (ft) (8.59 Y	- 1 - 7 / N	Selve
Multi-phase		Y /(N)		if yes:	() Light () Heavy			
SAMPLIN	G DATA					SASS			2391
44	ne	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	0	ther
								de con	e visus as
						SEPT S	Corpus Silver	(2) spill()	employed Paragraph
								1000	
INSTRUM	IENT CAI	LIFBRATIO	N/CHECK DA	TA		250	1000	E SHEET	A RESE
	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	Chec	k Std nhos/em 10%)	Cal Std. 10 NTU	Check Std 10 NTU (+/- 10%)
	Cal Std	Cal Std	Cal Std.	Check Std 7.0 SU	Cal.Std. 1413	Chec	k Std nhos/cm	The state of the s	Committee of the Committee of the Committee of the
	Cal Std	Cal Std	Cal Std. 10.0 SU	Check Std 7.0 SU	Cal.Std. 1413	Chec	k Std nhos/cm	The state of the s	10 NTU
	Cal Std	Cal Std	Cal Std. 10.0 SU	Check Std 7.0 SU	Cal.Std. 1413	Chec	k Std nhos/em	The state of the s	10 NTU
Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413	Chec	k Std nhos/em	The state of the s	10 NTU
Meter ID# Solution ID#	Cal Sid 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413	Chec	k Std nhos/em	The state of the s	10 NTU
Meter ID# Solution ID# GENERAL Weather con	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	Chec	k Std nhos/em	10 NTU	10 NTU
Meter ID# Solution ID# GENERAL Weather con	Cal Std 7.0 SU INFORM nditions at	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	Chec	k Std nhos/em	10 NTU	10 NTU
Meter ID# Solution ID#	Cal Std 7.0 SU INFORM nditions at	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	Chec	k Std nhos/em	10 NTU	10 NT

I certify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific protocols:

Date:

5.8.23

by: 1

Company: Matrix Environmental Technologies

VANDEL MAN	Arch Chemi	1011	d'h	ET NAME	Sample I	Point ID:	PWI	4	SANHELI SANHELI	
Field Perso	nnel:	Sum.	+ PB		Sample 1	Matrix:	Groundwat	er	A V SHI SH	outer
MONITO	RING WEL	L INSPECTI	ON							Rise
Date/Time:	5-8-	53.5%	49 - 20 A	e led	only	Condition of seal:	(A) Good (Sec. al.	paliests	%
Prot. C	asing/Riser Height:			54,94%	Condi	tion of Prot.	(Xunlocke			
	00	175.5	\$15°				() Damage	d	-	
	ng; depth to Calibration/		% Gas				% LEL:			
Vol. Organ	nic Matter (C	alibration/Rea	ding):		v	olatiles (ppm):		A STATE OF THE PARTY OF THE PAR		
PURGE I	NFORMAT	TON								
Surf. Mea Initial Wa Well Tota One (1) R	s. Point: ter Level (f l Depth (ft) iser Vol (gr ume Purged	2011	(X) Riser		Riser Dia Elevation Method of Dedicate Purged to	-	2007) (806-01)	120	9	HOU HAY
	OATA (if ap						GENERAL.	PRO		
Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
8:53	8.29	0.7		11.2	10.07	5.265	-2.30	-243	1.60	201 Pg-1
8:58	8.40			11.4	10.09	5.264	-232	-261	0.66	1200
9:03	8.48			[1.5mg	1009	5.266	-1.95	-269		
9:08	8.59			11.6	10.09	5.276		-271	0.52	
	The state of	STATE OF	Supt Little	10	1/2	-10/10		GELE-N		at outs

Sample of 9:08 AM

ANIDI DI	BSERV	MATION			THE REAL PROPERTY.	2762	1700		erico (di
SAMPLING	INFOR	MATION	WEST TOTAL	A STATE OF THE PARTY OF THE PAR		NAME OF STREET	N. A.	Part of the last	2200
Date/Time		5.8.23	3	Water I	evel at Samplin	g (ft)	-	C 8 7	
Method of S	ampling	Low	flow			Dedicated:	(fx) N	
Multi-phase	d/layered:	()	-146	if yes:	() Light () Heavy			
SAMPLIN	G DATA				NO SERVICE				
Tir	ne	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO		Other
					1			-	70.3
						Division	Resill (Name M	trans.
	-	Market S			/		175	Horari.	
	Cal Std	Cal Std	Carsud.	Check Std 7.0 SU	Cal.Std. 1413	A 2000 C.	k Std	Cal Std.	Check Sta
Meter ID#	7.0 SU	4.0 SU	10.0 SO	(+/- 10%)	umhos/cm	THE RESERVE OF THE PROPERTY OF	10%)	10 NTU	(+/- 10%)
Sell's	-	Could 1	NO AVA			1-15			-
			E Tomas			054			
		10 -		5/10					
Solution ID#	- 57	100				- CONTRACT	- Company	name to the same of	
		MATION at time of sampl	ing:	Sung	60'F			Section 1	
Sample cha	aracteristic	s:	S. L.	15-10	261			1 43	200
Comments	and Obse	rvations:			and be			2300	100
	C.	100	W(1 > 1.00)	12 12 12	170		-	100	
	100	La Contract	and less	A Street of Street	- India			Total .	
			man and the second	The state of the s				1 307 3	1000

	DBSERVA Arch Chemi		- 817	- Pro-	Sample	Point ID:	B1	7	VI.E	duğuna mala
Field Perso	nnel:	Sum &	-PB		Sample	Matrix:	Groundwat	er	Vinit	relice.
MONITO	RING WEL	L INSPECTI	ON			100000			SHOW	
Date/Time:	5-8.	23	- Kiner	4333	ima [©]	Condition of seal:	(x) Good (1 4 9 2	9/
Prot. C	asing/Riser Height:		THE T			ition of Prot. ing/Riser:	() unlocke	(X) flush mo	12.75	
100000000000000000000000000000000000000	ng; depth to		% Gas	1170			() Damage	ed		
		Calibration/Rea				olatiles (ppm):	% LEL:			
PURGE I	NFORMAT	TION					0539			NAME OF TAXABLE PARTY.
Surf. Mea Initial Wa Well Tota One (1) R	ater Level (f al Depth (ft) tiser Vol (gr ume Purgeo	: al):	()Riser	27 am	Riser Di Elevation Method Dedicate Purged t	ne Completed: ameter (inches) n G/W MSL: of Well Purge ed: o Dryness:	2'		, - (xe	o Pund
	OATA (if ap								SHEEL	HILL
Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
9.27	1			12.2	8.15	8.113	-1.62	-99	2.06	
9:32	6.05			12.0	8.12	8.134	-1.32	-92	1.33	-
9:37	6.05			21	8.08	8.133	-172	-90	0.87	
9:42	6.05			12.1	8.08	8.133	- 169	-90	1.82	

Campled at 01.42 AM

Facility:	Arch Che	MICATIONS MICALS, Inc. MATIONS	28	Sample	e Point ID:	BR	126	- 100 T	C A
SAMPLIN	NG INFO	RMATION							THE STATE OF
Date/Time Method of			23 V flan	Water	Level at Samplin	ng (ft) 2	3.02) N	
Multi-phas	ed/layered	Y/60		if yes:	() Light	() Heavy			
SAMPLIN	NG DATA								DE FORES
Ti	ine	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO		Other
								Test Title	10372
				elah//					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
INSTRUM	MENT CA	LIFBRATION	VCHECK DATA	A Page 1869	70 BY		SPR.	E Sydyn	talos de
Meter ID#	Cal Std 7.0 SU	Gal Std 4.0 SD	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 un	k Std nhos/cm 10%)	Cal Std. 10 NTU	Check Sto 10 NTU (+/- 10%)
								W.	ili (Libon
		1 11		C Int		7.7			1 (1)
Solution ID#			1	1.00		-			
GENERAL Weather co		MATION time of sampli	ng:	Survey	60.4		le de la collegia		
Sample cha		130	Troub.	155	HSI-				250
1-4	PIL.	1	DE TUBE	T. A.S.	5.6		Barrie.	9.0	TE
	1000	UL	\$1.5 PALE	1 200	8-11-			131.	19/10
own a	Robert	50	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THE COL	V S			id. A	Tun
	10.00	118	/	1	4	200	1		1.32
I certify that Date:	sampling	procedures we	(11)	rith all applicable	State and Si			: nvironmental	Technologie

Facility: Field Perso	Arch Chem	SUM &	- PB	alessati.	Sample l	Point ID: Matrix:	BR Groundwat	26 er	1160	70.32	
MONITO	RING WEI	L INSPECTI	ON								
Date/Time:	5.8.	320.8	(fil gette	2.00 mg	SALV.	Condition of seal:	(AGood (-	- Ityls	9	
							() 110110 (31			
Prot. C	asing/Riser Height:			8-06-		tion of Prot.	() unlocked () Good () loose (flush mount				
tion 1	60	08	Spirited Spirited		() Damage	ed	-				
if prot casi	ng; depth to	riser below:					-				
Gas Meter	Calibration	Reading:	% Gas				% LEL:				
Vol. Organ	nic Matter (0	Calibration/Rea	ding):	The second second	_ v	olatiles (ppm):		- July - Arth			
PURGE I	NFORMA'	TION								, PIS	
Surf. Mea Initial Wa Well Tota	s. Point:	ft): 8.0	()Riser	1:32	Riser Di Elevatio	ne Completed: ameter (inches) n G/W MSL: of Well Purge	14.07	23 Punp	Sala (Sa)	1550 1000 1000 1000 1000 1000 1000 1000	
	ume Purge		6 02		Purged t	o Dryness:	Y (D)				
Purge Obs	ervations:				Start	10:32	Finish	11:0	00	55	
PURGE I	OATA (if a	pplicable)	THE REAL PROPERTY.					TARRE			
Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other	
10:32	8.11	1		13.4	7.17	1.442	2108	-81	4.08	7/1	
10:37	8.10			12.2	7.07	1.060	1,29	-87	0.94	47131/1790	
A	8.11			12.5	7.07	1.040	8.46	-90	0.74	-44	
IV.M.	A					1.20		, 0	-		-
10:42	100			124	707	1.038	1,90	92	10.6 8		
10:47	8.11			12.5	7.07	1.038	7.01	-93	0.68		

Sampled at 10:52 a Rage 1 of 2

Facility:	Arch Cher	ATIONS micals, Inc. VATIONS	kā M	Sample	e Point ID:	BIS	5		Marie Isl Marie Island Second Island
SAMPLIN	G INFOR	RMATION					1919		
Date/Time Method of Multi-phase	Sampling	•	flow	Water if yes:	The state of the	g (ft) Dedicated:) Heavy	4.4) N	
SAMPLIN	G DATA								MARKET
Ti	me _	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	(Other
						C ₂ de la			
INSTRUM	Cal Std	Cal Std 4.0 SU	Cal Std.	Check Std 7.0 SU	Cal.Std. 1413	Checl 1413 um	nhos/cm	Cal Std.	Check Std 10 NTU
Eddin IDA				(+/- 10%)	umhos/cm	(+/- 1	0%)		(+/- 10%)
Solution ID#						-	- Constant	and the same of	2022000
GENERA Weather co Sample cha Comments	onditions a	t time of sampli	ng:	Sumy Go	o°F			910	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ALTONO DE LA CONTRACTOR	at sampling		1//	with all applicable I	EPA, State and Si			7500	Technologies

FIELD OBSERVATIONS Facility: Arch Chemicals, Inc. Sample Point ID: TPB MR Groundwater Sample Matrix: Field Personnel: MONITORING WELL INSPECTION Date/Time: 5. 9.23 Condition of (x) Good () Cracked () None () Buried () unlocked () Good Prot. Casing/Riser Condition of Prot. () loose () flush mount Height: Casing/Riser: () Damaged if prot casing; depth to riser below: % LEL: % Gas Gas Meter Calibration/Reading: Volatiles (ppm): Vol. Organic Matter (Calibration/Reading): PURGE INFORMATION Date/Time Completed: 5-8-23 Date/Time Initiated: 5.8.17 Surf. Meas. Point: () Pro Casing (f) Riser Riser Diameter (inches) Initial Water Level (ft): 2.8 Elevation G/W MSL: Well Total Depth (ft): Method of Well Purge Dedicated: One (1) Riser Vol (gal): Y / (N) Purged to Dryness: Total Volume Purged (gal): 11:15 Finish Purge Observations: PURGE DATA (if applicable) Cumulative pH Time Water Purge Rate Conductivity Turb. Temp Other (SU) Level (gpm/htz) Volume (C) (umhos/cm) (NTU) 5.29 3.75 10. 68 10.5 -0.42

Samuel at 11:40 A.W.

Facility:	Arch Che	/ATIONS micals, Inc. /ATIONS	2	Sample	Point ID:	В	16	1677(32 16-0.6	00 0.33 <u>10</u> 30 -
SAMPLIN	IG INFOR	RMATION	TOTAL					O POST	
Date/Time Method of Multi-phas			Plow)	Water	Almerican de	Dedicated:	Charles and the control of	4.2	21
SAMPLIN	NG DATA			WALKSTON.					FER CO
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO		Other
					2 000	76 TS	e tot	CONTRACTOR OF THE PARTY OF THE	
INSTRUM	MENT CA	LIFBRATIO	N/CHECK DAT	A					
Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal 34d. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	Check 1413 um (+/- 1	nhos/cm	Cal Std. 10 NTU	Check Std 10 NTU (+/- 10%)
			2			2) ale		ben'ii	
Solution ID#	-	200	Lu, 19	(Lord					
GENERA Weather co	enditions a	t time of sampl	ing:	Sumy (60°F				1701
Comments		14.	201 1	Zir H	GE 0]			100	San San
	18.0	1/4/1	13 W	1 7 1	PA			1914	\$0:0 \$0:0
	st sampling		///	with all applicable E	PA Style and Si				Technologies

FIELD OF		11-3		almen.	Sample l	Point ID:	B	16	ASS 124	01/11/19
Field Person	nel:	5 m	十相	PR	Sample !	Matrix:	Groundwat	er	No Park	
MONITOR	ING WEL	L INSPECTIO	ON					200		
Date/Time:	5.8	. 23		igur Smil		Condition of seal:	Good (W. Oak	1-0100	%
Prot. Ca	asing/Riser Height:		100			ition of Prot. ing/Riser:		d () Good		
if prot casin	ng; depth to	riser below:		mb	Deta		140	1		
Gas Meter	Calibration/	Reading:	% Gas	- 1			% LEL:			
Vol. Organ	ic Matter (C	alibration/Rea	ding):		_ v	olatiles (ppm):				
PURGE IN	NFORMAT	IATION			//					
Surf. Mean Initial Wan Well Total One (1) R Total Volumer Observed Purge Observed Durge Du	s. Point: ter Level (f l Depth (ft) iser Vol (g ume Purges ervations:	al): i (gal): (o((V) Riser		Riser Di Elevatio Method Dedicate Purged t Start	to Dryness:	24 60/N Y/O Finish	1):		
Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
11:58	3.85		`	11.02	7.21	1.409	175	90	5.11	0.222
12:03	3.94		- 1	10.30	7.16	1470	167	850	900	8
12:08	4,00			10.3	7.17	1.472	79.96	81.8	0.88	
12:13	4.15			9.9	7.18	1,479	63.6	80.1	0.81	
12:18	4.21	- 150	107	10.1	7.20	1.479	66.1	81,0	0.83	

Sanled at 12:18 1.4 Page 1 of 2

Meter ID# 7.0 SU Cal Std 7.0 SU 1413 umhos/cm (+/- 10%) 1413 umhos/cm (+/- 10%) 10 NTU (+/- 10%) Solution ID# GENERAL INFORMATION Weather conditions at time of sampling: Sample characteristics:	Facility:	Arch Che	MATIONS micals, Inc. MATIONS	77	Sample	Point ID:	PZI	04		
Multi-phased/layered: Y / R if yes: () Light () Heavy SAMPLING DATA Time Temp pH Conductivity Turb. (NTU) ORP DO Other INSTRUMENT CALIFBRATION/CHECK DATA Meter ID# 7.0 SU Cal Std 4.0 SU Cal Std. 1413 umhos/cm (+/- 10%) umhos/cm (+/- 10%) Solution ID# GENERAL INFORMATION Weather conditions at time of sampling: Sample characteristics:	SAMPLE	NG INFO	RMATION						A P	
Time Temp pH Conductivity (umhos/cm) Turb. ORP DO Other INSTRUMENT CALIFBRATION/CHECK DATA Meter ID# Cal Std Cal Std 4.0 SU 10.0 SU (+/- 10%) Cal Std 1413 umhos/cm (+/- 10%) Cal Std 10 NTU (+/- 10%) Solution IDM GENERAL INFORMATION Weather conditions at time of sampling: Sample characteristics:	Method of	Sampling	4)		Dedicated:	13.3:), N	
INSTRUMENT CALIFBRATION/CHECK DATA Meter ID# 7.0 SU Cal Std 7.0 SU (+/- 10%) Solution ID# Cal Std INFORMATION Weather conditions at time of sampling: Sample characteristics:	SAMPLE	NG DATA		PRIMA			7999			SUITE OF
Meter ID# Cal Std Cal Std Cal Std 10.0 SU Check Std 7.0 SU 1413 umhos/cm (+/- 10%) Solution ID# GENERAL INFORMATION Weather conditions at time of sampling: Shall 60'4	Ti	ime				100 TO 10	ORP	DO		Other
Meter ID# Cal Std 7.0 SU Cal Std 1413 umhos/cm (+/- 10%) Cal Std 7.0 SU 1413 umhos/cm (+/- 10%) Cal Std 1413 umhos/cm (+/- 10%) Solution ID# GENERAL INFORMATION Weather conditions at time of sampling: Sample characteristics:					OF DEW TO				autorii 1988	1200 to
Meter ID# Cal Std 7.0 SU 4.0 SU 10.0 SU (+/- 10%) Cal Std 7.0 SU 1413 umhos/cm (+/- 10%) Cal Std 1413 umhos/cm (+/- 10%) Cal Std 10 NTU (+/- 10%) Solution ID# GENERAL INFORMATION Weather conditions at time of sampling: Sample characteristics:						100				BARRY.
Meter ID# 7.0 SU Cal Std 7.0 SU 1413 umhos/cm (+/- 10%) 1413 umhos/cm (+/- 10%) 10 NTU (+/- 10%) Solution ID# GENERAL INFORMATION Weather conditions at time of sampling: Sample characteristics:	INSTRUM	MENT CA	LIFBRATIO	VCHECK DA	TA TA	1000		HE	Head	
GENERAL INFORMATION Weather conditions at time of sampling: 5 mm 60° F Sample characteristics:	Meter ID#				7.0 SU	1413	1413 un	nhos/cm	the late of the la	Check Std 10 NTU (+/- 10%)
GENERAL INFORMATION Weather conditions at time of sampling: 5 mm 60 4 Sample characteristics:		8					14 T 42			A State
Weather conditions at time of sampling: Short 60'4 Sample characteristics:	Solution ID#									
Sample characteristics:	GENERA	L INFOR	MATION					No. 3		
	Weather co	enditions at	time of sampli	ng:	Snmy 60	4	Wha.	3.40	4 (2)	
Comments and Observations:	Sample cha	racteristic		4612	DAVIDO	7 111		-	1	100
18 18 18 18 18 18 18 18 18 18 18 18 18 1	Comments	and Obser	vations:	1.0-1	26.1 90.7			and a	145.2	80
The state of the s	NA.	2.18	HA ST	AL WEST	3. 19.7	THE	Line		The	6.
	190	ar.s	31-1	- P.O.	1			14	3.0	TIBE!
H /	1	110		1	11	300 0			2000	14531

	BSERVA Arch Chemi	1771	ρ7		Sample	Point ID:	27	104		
Field Perso		Slm-	+ PB		Sample		Groundwa	ter		o alem
MONITO	RING WEL	L INSPECTI	ON		THE STATE OF THE S	THE SE				
Date/Time:	5.8	23		al him		Condition of seal:	Good (-	9/
Prot. C	asing/Riser Height:					ition of Prot. ing/Riser:	() unlocke	() flush m		
if prot casi	ng; depth to	riser below:					() Damage	ed	100.0	
Gas Meter	Calibration/	Reading:	% Gas			حادم	% LEL:		-	
Vol. Organ	nic Matter (C	alibration/Rea	ding):		_ v	olatiles (ppm):			The L	
PURGE I	NFORMAT	TION			1					
Surf. Mea Initial Wa Well Tota One (1) R Total Vol Purge Obs	ater Level (f al Depth (ft) tiser Vol (gr ume Purgeo	() Pro Casing (): 3, 9 (): 4 1 1 1 1 1 1 1 1 1	9-23 ()Riser		Riser Di Elevatio Method Dedicate Purged t	ne Completed: ameter (inches) n G/W MSL: of Well Purge ed: o Dryness:	Geof NIN YIN	2:4 2:4	92	
Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
1:31	13.30			14.5	7.08	1.855	84.7g	95	1.66	Mr. I William
1:36	17,30	4		14.2	7.06	1.838	-0.78	94	0.90	THE .
1:43	13,31			14.4	7.06	1.848	-1,69	67	0.78	A SERVICE
1:48	13.31	-34		14.2	6.98	2,907	5.52	-41	0.70	
1:53	13,32		-	14.5	696	3413	5.62	-8-	0166	1
1:58	13.33	400	-1552-618 IV	14.1	6.98	3,547	300.6	102	College College	

Sampled at 1:58

Facility:	Arch Che	ATIONS micals, Inc. /ATIONS		Sample	Point ID:	- 7	BQ-2	3	
SAMPLIN	G INFO	RMATION					1555	SE PA	STEEL STEEL
Date/Time Method of	Sampling	5/9	123	Water I	evel at Sampli	ng (ft) Dedicated	· v	/ N	
Multi-phase		Y / N		if yes:	() Light	() Heavy			
SAMPLIN	G DATA	THE RE					10000		ESTABLE .
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO		Other
12:	0	13.4	8.95	13,501	3,80	-239	0.49		2 2 3 3
			-	80'	il and the second	3/40	Since Se		2000
INSTRUM	MENT CA	LIFBRATIO	N/CHECK DA	TA					
Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 ur	ck Std mhos/cm 10%)	Cal Std. 10 NTU	Check Sto 10 NTU (+/- 10%)
						. WE.			
Solution ID#							90.		
GENERA Weather co Sample cha Comments	nditions a	t time of sampl	ing:	Sunny 6	lownist	· co	la/		
	7.2		100	5 1971 <u>61</u>	Maria	130		1.5	131
		NIES .	of Tables	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		125	-	The second	THE STATE OF
certify that	t sampling	procedures w	ere in accordance	with all applicable E	PA, State and S	Site-Specific	protocols:	P. S.	1
Date:		by	11	7 1/2	,		: Matrix En		Technologi

Date:

FIELD OBSERVATIONS Facility: Arch Chemicals, Inc. Sample Point ID: VickA, Bolk. Field Personnel: Sample Matrix: Groundwater MONITORING WELL INSPECTION Date/Time: Condition of CGood () Cracked seal: () None () Buried () unlocked Good Prot. Casing/Riser Condition of Prot. Height: () loose () flush mount Casing/Riser: () Damaged

Gas Meter Calibration/Reading: % Gas % LEL:

Vol. Organic Matter (Calibration/Reading): Volatiles (ppm):

PURGE INFORMATION

if prot casing; depth to riser below:

Date/Time Initiated: 19/23 11:15 Date/Time Completed: Surf. Meas. Point: () Pro Casing Riser Riser Diameter (inches) Initial Water Level (ft): Elevation G/W MSL: Well Total Depth (ft): Method of Well Purge One (1) Riser Vol (gal): Dedicated: Total Volume Purged (gal): Purged to Dryness: 11:45 2:10 Purge Observations:

PURGE DATA (if applicable)

Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
11:45	7.07	1	0	15.2	8.85	13,528	130	-182	2.63	il inter
11:50	7.22		1502	14.0	8.93	13.549	5.61	-213	0.64	
11:55	7.30		32.2			13.553				
12:00	7.37		5002	100		13,541	1000			
12:05	7.45		7502	13.5	395	13550	4.75	-232	0.50	
12:10	7,48	Aller All	9602	Contract of the	C. Theodore C. C.	13,501				

cample (2 12:10

SAMPLIN	G INFOR	MATION	Bin Stay				DE THE		
Date/Time Method of S Multi-phase	Sampling ed/layered:	5/9/ ge Y/N	23 openf	Water if yes:	Level at Samplin	Dedicated () Heavy)/ N	
SAMPLIN	G DATA	WHEN !	SEE SE	ALDINOS ZOLO					MESS
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	C	ther
9:4	5	9,5	7.96	1.716	34.09	-206	0.72	Total	Suct A
INSTRUM	MENT CA	Cal Std 4.0 SU	N/CHECK DA	Check Std 7.0 SU	Cal.Std. 1413	1413 u	ck Std mhos/cm	Cal Std.	Check St 10 NTU
Solution ID#				(+/- 10%)	umhos/cm		10%)		(+/- 10%
GENERA Weather co Sample cha Comments	onditions at	t time of sampl	ing: 	Summy Lamber	,60° /clear	C	ola		

	Arch Chem		1 Ric	hR	Sample Sample	Point ID: Matrix:	Groundwa	-3	AVADES AVASES	O GLER
MONITO	RING WEL	L INSPECTI	Alberto De la Company	1970	185785		BATTER!			NO.
Date/Time	5/	19/2	3	10 a com	t many	Condition of seal:	Good (l edino	9
Prot. C	Casing/Riser Height:		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22020 SET 1.7		ition of Prot. sing/Riser:	() unlocke			
if next casi	ng; depth to	rices below					() Damage	ed		
	Calibration/		% Gas	LIS	19	5.43	% LEL:	7.1	1	9.19
Vol. Organ	nic Matter (C	alibration/Rea	ding):		v	olatiles (ppm):			LuSiveri	
Well Total One (1) R Total Vol Purge Obs	iter Level (f d Depth (ft) iser Vol (gr ume Purged ervations:	: il): l (gal):	5502	(Inc	Method Dedicate Purged t		Y N Y N Finish	epus	пр 15	01.48
PURGE I	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
9:30	4.41	Dole.	0	9,9	7.75	1,672	103.9	-158	7.83	
9:35	4.55	1	1502	9.7	7.90	1.709	110.3		1.05	garying 1
-	4.65		3402	9.6	7,96	1.715	68.8	-		-
9:45	4.70		5502	9,5	7.96	1716			9.72	
		k @ •	9.11	To All	534	1	Light V	1	(most at)	0

Facility:	Arch Che	ATIONS micals, Inc. /ATIONS	NA -	Sample	Point ID:	<u>B</u>	R-3		
SAMPLIN	IG INFOR	RMATION			MANAGE		TODA		
Date/Time Method of Multi-phase			23 geof	V 3 / 10 / 10 / 10 / 10 / 10 / 10 / 10 /	Level at Sampli	ng (ft) Dedicated	# Q)/ N	
SAMPLIN	IG DATA			MANGO STORY		TANKS I			
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO		Other
10:4	5	11.0	7.96	2.740	320	-244	0,53	1000	3 milion
	- 100			C	SSF-1V	-1		S G	STALK.
INSTRUM	MENT CA	LIFBRATIO	N/CHECK DA	ATA			WHE.		PER SE
Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 u	ck Std mhos/cm 10%)	Cal Std. 10 NTU	Check Std 10 NTU (+/- 10%)
Solution ID#				A Al Si			Vi-		- L
GENERA	nditions a	t time of sampl	ing:	Sunny c color	60°	odor			
		1 (125 <u>)</u> 1 (125 - 1	267 T 88) En			() () () () () () () () () ()			
I certify that	t sampling	g procedures we	//	ce with all applicable 2	PA, State and S		c protocols:		Technologia

Facility: /	Arch Chemic	cals, Inc.	Λ.Ω	10		Point ID:	BR.	-3	A PARICA		
Field Person		Nicle	1	ch R	Sample	Matrix:	Groundwa	ter	1000	is the sale	
MONITOR	ING WEL	L INSPECTION	ON								
Date/Time:	5	9/23	- Dispute	you by	HANN TO	Condition of seal:	() None (21-72-0	%	-
Prot. Co	asing/Riser Height:		120			ition of Prot.		d () Goo			
	dia:	200			Draw's		() Damage	ed			
Gas Meter	Calibration/		% Gas	355	OH	Cettor Compile	% LEL:	e ir			
STREET, STREET,	NFORMAT	Calibration/Rea	ding):	WATER SERVICE		olatiles (ppm):	24020	NEW DEATH	accommon a	MANUSCH MANUSC	
Well Tota One (1) R	iter Level (fi il Depth (fi) iser Vol (gr ume Purgeo ervations:): al):			Method Dedicate Purged t	of Well Purge ed: (on Dryness:	D N Y / (E) Finish	еори 10:	unp 45		
PURGE D	OATA (if ap	oplicable)		DES	Mar.		1000				
Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other	
10:20	% 7.	90	0	11.2	7.73	2.708	600	-175	1.68	No Page	
10:25	3.12		2002	11.0	7.86	2.739	545	-217	0.72	SCHOOL S	
10:30	3.35		3502	11.0	7,90	2,739	532	230	0.64		
10:32	3.58		50 oz	11.0	7.94	2.741	488	-741	0,59	10 10	
1	3.85		7002	11.0	7.96	2.741	405	244	0.57	(Section)	
10:40				· COMPANIES CONTRACTOR	and the second second	The second secon	320				4

Facility:	Arch Che	MATIONS micals, Inc. MATIONS	And a	Samp	le Point ID:	P	14 لد	0	L India
SAMPLIN	G INFO	RMATION				FER		-	5
Date/Time Method of Multi-phas		5/9 Y/N	/23 grab	12:35 Water	(CE) 1/2 2/2017	ng (ft) Dedicated	7.55)/ N	
SAMPLIN	G DATA	CHEST SE	RIFE			1999			
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	(Other
12:3	5	13.7	7,49	5.764	27.46	-149	\$ 5.4.	8	in Major Co
INSTRUM Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std.	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 u	ck Std mhos/cm 10%)	Cal Std. 10 NTU	Check Sto 10 NTU (+/- 10%)
Solution ID#	er Verg		y					la lev	a (3 (75%) au Volum
GENERAI	nditions at	time of sampli		ear, bla	ich flo	rative	ovze	enic	
certify that	sampling	procedures wer	e in accordance	e With all applicable E	PA, State and Si	te-Specific	protocols:		

FIELD OBSERVATIONS B-Facility: Arch Chemicals, Inc. Sample Point ID: RichR Field Personnel: Sample Matrix: Groundwater MONITORING WELL INSPECTION Date/Time: Condition of Good () Cracked seal: () None () Buried () unlocked N Good Prot. Casing/Riser Condition of Prot. Height: () loose () flush mount Casing/Riser: () Damaged if prot casing; depth to riser below: Gas Meter Calibration/Reading: % LEL: % Gas Vol. Organic Matter (Calibration/Reading): Volatiles (ppm): PURGE INFORMATION 1:50 Date/Time Initiated: Date/Time Completed: Surf. Meas. Point: () Pro Casing Riser Riser Diameter (inches) Initial Water Level (ft): Elevation G/W MSL: Well Total Depth (ft): Method of Well Purge One (1) Riser Vol (gal): Dedicated: Total Volume Purged (gal): Purged to Dryness: YIN 2:20 Purge Observations: Finish Start PURGE DATA (if applicable)

Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
1:55	12.37		0	15.2	7.02	7,6/7	64.46	-22.6	2.91	alto sitopio
2:00	13:77		100z	13.6	6,93	2.332	14.97	54.4	1.35	im ne
2:05	14.62	-	200z	13.9	6,91	2.764	23,3	65.7	1.07	ing the same
2:10	15.57		3502	13.5	6.91	2.214	6.85	67.6	0.99	
2:15	1651		Aller and the last	Total Control of		2.198	The United Law		100	
2:20	16.98	III Miles Service	10 mm	300	COLUMN TOWN A TO	2.184				

sampled @ 2:20

SAMPLIN	G INFOR	RMATION					SMA		
Date/Time		5/9/2	coprump	Water	Level at Sampli	ing (ft)	16,98	5	
Method of Multi-phase			copring	if yes:	() Light	_ Dedicated () Heavy	: (Y)/ N	
SAMPLIN	G DATA					SILVE			HERE
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	(Other
2:20	0	13.5	6,91	2.184	6.93	65,6	0.84	Sugariti	24902
INSTRUM	MENT CA	Cal Std 4.0 SU	Cal Std.	Check Std 7.0 SU	Cal.Std. 1413	1413 ur	ck Std mhos/cm	Cal Std.	Check Sta
			8-203 8-203	(+/- 10%)	umhos/cm	(+/-	10%)	and on the second	(+/- 10%)
Solution IDW	100				-	PLO JOS			The state of
GENERA Weather co Sample cha	nditions a	t time of sampli	ng: - light	shmy amber c	62°				
	17.	I THE	2 5 h-5	1 1 1 C 1	Vinelle-	496		103	6

.

Arch Chen	nicals, Inc.	Sep C	Sample	_P	W-13	5		
G INFOR	MATION			E PINE		199	01000	
Sampling ed/layered:	5 /s	7/23 grab	3:20 Water	Level at Sampli	ng (ft) Dedicated () Heavy	25.35 Q) N	
IG DATA								
me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO		Other
0	14.2	7.18	6.188	47.13	-133	2.61	- Series	Debta
A Mary	INE IS	CEL IN	o ensur		_date	Contact	in and	Tay I di
MENT CA	LIFBRATIO	N/CHECK DA	TA					
Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 u	mhos/cm	Cal Std. 10 NTU	Check Sto 10 NTU (+/- 10%)
in Gra	1000	E V V	Lower Daller	1000	9-11- 1-(X)	(lis)	SERVICE SERVICE	all () on the Visco
	-	-						
onditions at	t time of sampli	ing:	_ Sunn L colored	y 65 water			Bed Dear	
	Arch Cher OBSERV GINFOR Sampling ed/layered: MENT CA Cal Std 7.0 SU LINFOR Inditions and Arch Cher Cal Std Arch Cher C	MENT CALIFBRATION Cal Std Cal Std 7.0 SU 4.0 SU	Arch Chemicals, Inc. BSERVATIONS GINFORMATION S /9/23 Sampling GCD Y / N RG DATA MENT CALIFBRATION/CHECK DATA Cal Std 7.0 SU L INFORMATION Inditions at time of sampling: BY / SU Cal Std	Arch Chemicals, Inc. DBSERVATIONS GINFORMATION Sampling CICLO Sampling CICLO Sampling CICLO Sampling CICLO Sampling CICLO Sampling CICLO If yes: RG DATA Temp (C) (SU) (umhos/cm) CO 14.2 7.18 Cal Std 7.0 SU 4.0 SU Cal Std 7.0 SU (+/- 10%) L INFORMATION Inditions at time of sampling: Sampling Colored Sampling Sampling Colored Sampling Sam	Arch Chemicals, Inc. DBSERVATIONS GINFORMATION Sampling C(C) Sampling C(C) GU) GODATA Temp (C) (SU) (umhos/cm) MENT CALIFBRATION/CHECK DATA Cal Std Cal Std Cal Std 7.0 SU 4.0 SU Cal Std 10.0 SU Check Std 7.0 SU 4.1 SU Check Std 7.0 SU 4.1 SU Cal Std Cal	Arch Chemicals, Inc. DBSERVATIONS GINFORMATION Sampling Sampling GINFORMATION Sampling Sampling	Arch Chemicals, Inc. DBSERVATIONS GINFORMATION Sampling CICLO Sampling QICLO OCITIES (1) Light (1) Heavy GODATA Temp PH Conductivity (Introductivity (I	Arch Chemicals, Inc. BBSERVATIONS GINFORMATION Sampling Sampling CICL Dedicated: Winder Level at Sampling (ft) 25.35 Sampling CICL Dedicated: Winder Level at Sampling (ft) 25.35 Sampling CICL Dedicated: Winder Level at Sampling (ft) 25.35 Sampling CICL Dedicated: Winder Level at Sampling (ft) 25.35 BEATT CALIFORMATION ORP DO (ft) (SU) (umhos/cm) (NTU) ORP DO (ft) (SU) (umhos/cm) (NTU) MENT CALIFBRATION/CHECK DATA Cal Std Cal Std Cal Std (7.0 SU) 1413 (Check Std 1413 umhos/cm) (147-10%) (10 NTU) LINFORMATION Conditions at time of sampling: Suncy 65° Cal Std (10 NTU) LINFORMATION Cal Std Cal Std (10 NTU) (147-10%) (14

Company: Matrix Environmental Technologies

Date:

FIELD O	Arch Chen	nicals, Inc.	odeni ²	Sampl	e Point ID:	BR	2-7A		g pile
SAMPLIN	G INFOR	MATION					BURNES		
Date/Time Method of S Multi-phase		5/9 Y/N	123 Grab	Water if yes:	Level at Sampli	ing (ft) Dedicated		iy h	ell
SAMPLIN	IG DATA						90000		
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	0	ther
2:50	0	14.8	7.30	3,416	10.88	-116	6.38	Personal Personal Process	Death of
INSTRUM	Calsid	LIFBRATIOI Cal Std	N/CHECK DA	Check Std 7.0 SU	Cal.Std.	The second secon	eck Std	Cal Std.	Check Str
Med IDW	7.0 SU	4.0 SU	10.0 SU	(+/- 10%)	1413 umhos/cm		- 10%)	10 NTU	10 NTU (+/- 10%)
Solution ID#			-						-
GENERA Weather co Sample cha Comments	onditions at	t time of sampl	ing:	Sur clear,	nny	65	0		
I certify that	at sampling	procedures we	6	co with all applicable	EPA, State and		ic protocols:		Technologies

		ATIONS		Sample	e Point ID:	_ 13	RIK	1	
SAMPLIN	G INFOR	RMATION					MARKET STATES		
Date/Time Method of S Multi-phase		5/10/ Y/N	23 Slop	Water if yes:	Level at Sampli	ing (ft) { ? Dedicated:	100)/ N	
SAMPLIN	G DATA			A SECTION AND A			HEE		图 形式
Tir	ne	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO		Other
9:1	5	11.6	7.99	0.459	7.86	~34,9	1.81		Spirit a
INSTRUM Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 u	ck Std mhos/cm 10%)	Cal Std. 10 NTU	Check Std 10 NTU (+/- 10%)
Solution ID#		Total							
GENERAL Weather co Sample cha Comments	nditions a	t time of samples:	ing:	Sunny ht brow	60°	0 odo			65
	24	Total S			VIII Name	34.03 811.0			
I certify that	at sampling	g procedures we	1	ce with all applicable	EPA, State and			s: Invironmenta	l Technologi

FIELD OBSERVATIONS Facility: Arch Chemicals, Inc. Field Personnel: Nicht, Rich R	Sample Point ID: Sample Matrix:	BR 114
MONITORING WELL INSPECTION		HE STATE OF THE ST
Date/Time: 5/10/23	Condition of seal:	Good () Cracked %
Prot. Casing/Riser Height:	Condition of Prot. Casing/Riser:	() unlocked () Good () loose flush mount () Damaged
if prot casing; depth to riser below:	most	and the state of the sale
Gas Meter Calibration/Reading: % Gas		% LEL:
Vol. Organic Matter (Calibration/Reading): PURGE INFORMATION	Volatiles (ppm):	
Date/Time Initiated: 5/10/23 8! 50 Surf. Meas. Point: Pro Casing () Riser Initial Water Level (ft): 2.12 Well Total Depth (ft): One (1) Riser Vol (gal): Total Volume Purged (gal): Purge Observations:	Date/Time Completed: Riser Diameter (inches Elevation G/W MSL: Method of Well Purge Dedicated: Purged to Dryness: Start 8!55	6in steel

PURGE DATA (if applicable)

Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
8:55	12.12		0	11.6	8.06	0.539	28.8	66.2	5.5	
9:00	12.18	CHEY LA	1002			0.473				
9:05	1.12	Septime.	2502	11.5	10-09/15/2009/0	0.460			194	
9:10	12.25		4002	11.6	7,99	0.458	10.9	-28,1	1.85	-
9:15	12.27		5502	11.6	7.99	0.459	7.86	-34.9	1.81	
736		- September	tone are a	100	39/38	Self White	11			

Sampled @ 9:15

SAMPLIN	G INFOR	RMATION	NEED MARKET		SHAME OF THE PARTY				TO CHOICE
Date/Time		5/1	olz3 seppu	Water	Level at Sampli	ng (ft)	.03		
Method of	Sampling		SCOOL	mp		Dedicated:) N	
Multi-phase	ed/layered:		0 1	if yes:	() Light	() Heavy			
SAMPLIN	G DATA			MANAGE TO SERVICE STATE OF THE	NEW YORK				BENEFE STREET
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	0	Other
9:5	5	12.6	7.10	1.723	[2.84	103.3	2.66		
							1000	7 de 1	453 5° 1
INSTRUM	MENT CA	LIFBRATIO	N/CHECK DA	TA .		SISSE		'ileasti	Park No.
Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 un	k Std nhos/cm 10%)	Cal Std. 10 NTU	Check Std 10 NTU (+/- 10%)
- Fe				Value of the A					
Solution ID#									
		MATION at time of sample	ing:	Sun	67°	10000			
Sample ch			_ <	- Sunny ear	0.56	1		dung	200
	and Obser	rvations;	e we tre	97 1 Spin		AL.		CATA	
Comments	100	CS.		No Sale	T. H.	1234		8 4	N. Allie
Comments		-	The San Control						

Field Person		Nich A		ch R	Sample I	SACRED S	Groundwate	1. /	extense:	
MONITO	RING WEL	LINSPECTION	ON			Mississi		Diego.		
Date/Time:	51	10/23	e digue	dates		Condition of seal:	() Good (() None (-	%	
Prot. C	asing/Riser Height:					tion of Prot. ing/Riser:	() unlocked () Good () loose () flush mount () Damaged			
opto-con.	ng; depth to		-							
The state of the	Calibration/		% Gas	ti xXI	1300		% LEL: -	93	79	E.P.
***********	A Definition of the co	alibration/Rea	ding):	and the same	_ v	olatiles (ppm):	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	27		
PURGE I	NFORMAT	ION	7.100					16000	Tunte	Action
Surf. Mea Initial Wa	iter Level (f	Pro Casing			Riser Dia	ne Completed: armeter (inches) n G/W MSL:	2	in p	Vc_	
	l Depth (ft) iser Vol (ga					of Well Purge	S	ophe	4	
100	ume Purged			San As	Dedicate Purped t	o Dryness:	Y/N			
Purge Obs	A STATE OF THE PARTY			1000		9:30	Finish			
PURGE I	DATA (if ap	pplicable)		SALES OF THE SALES		O SERVICE S	BARBERI			PER SENS
Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
7:30	9,28		0	12.0	7.13	1.433	54.37	80.0	5.46	
9:35	20 10.	26	100z	7.11	1.545		~	3.94	(12.726)	
	· · · ·	וה	2502	7.11	1.582		- 10	3,62		
9:45	10.82		4002	12.1	1 001			3.50	,	
9:50	10,98		5502	-	7,10	1,665	-		3.01	
9:55 11.03 7002 12.6					7.10	1.723		103.3		

Sander @ 9.55

Facility:	Arch Cher	ATIONS nicals, Inc. ATIONS	<u>69</u>	Sample	Point ID:	PZ	2 10	AVE	
SAMPLIN	G INFOR	MATION	NEW STATE	Real Parks	NO SERVICE		e parente	HEAT OF	ANNA MARKA
Date/Time Method of : Multi-phase	1000	5/10 Y/N	/23 Seopra		Level at Samplin	ng (ft) Dedicated:	(F) N	
SAMPLIN	G DATA			ANALYS ST					
Tir	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	0	Other
10:5	5	17.9	6.73	3,413	19,6	73,3	0,8		Notes of
INSTRUM Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 un	k Std nhos/cm 10%)	Cal Std. 10 NTU	Check Std 10 NTU (+/- 10%)
Solution ID#				en GI es					
ac co game to	onditions a		ing:	Sunn Clear,	y Go	70	Mite Ali	e bio	mass
	tu : las (New I			(H)	THE SECOND		13.	
I certify th	at samplin		ere in accordance	with all appheable	EPA, State and				l Technologie

Facility:			. /	th R	Sample Sample	Point ID: Matrix:	PZ Groundwat	101 er	AVE THE	
Date/Time	5	110/2	2		TENED TO SERVICE STREET	Condition of seal:	Good () Cracked) Buried		90
	Casing/Riser Height:	200 200 200	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and I		ition of Prot. sing/Riser:	() unlocke () loose (() Damage) flush mo		
Gas Meter	Calibration/		% Gas	1.04	184	14.0	% LEL:	Eri	1	
Vol. Organ	nic Matter (C	alibration/Rea	ding):		_ v	olatiles (ppm):				
PURGE I	NFORMAT	TION	7611 62							Man Mil
Surf. Mea Initial Wa Well Tota One (1) R Total Volt Purge Obse	iter Level (f il Depth (ft) iser Vol (gr ume Purged	() Pro Casing (t): O (t) (t): O (10:50	Riser Di Elevatio Method Dedicate Purged t	ne Completed: ameter (inches) n G/W MSL: of Well Purge ed: o Dryness:		in p geop 10	runp :55	001 = 0
Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
10:30	1092	ليطار أند	0	18.7	6.41	4.286	12.22	148	2.30	
10:35	11.20	All I	802	15.9	6.63	3770	5.71	141	1.85	
10:40	11.25		2002	17.5	6.77	3,471	6.34	110	1.08	
10:45	11.27		3Hoz	17.8	6.73	3.434	9,63	90.7	0.93	
100-	11 74		-	1-0	1	2/110	An entire	-	0.10	

55/11/30 7002 1 Sampled @ 10:55

AMPLING	INFORM	MATION	SHAPE		1000				
ate/Time (ethod of Si (ulti-phase)		5/10 Y/N	123 900pm	Water I if yes:	evel at Samplin	Dedicated () Heavy	8.50		
AMPLIN	G DATA			ADDINACTO	SUBL			CHEMISE	ESPE
Tin	ic .	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	0	ther
11:35	5	18,6	7.06	6.172	6.12	-319	0.44	No seed	
NSTRUM	Cal Std	Cal Std	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 t	eck Std umhos/cm - 10%)	Cal Std. 10 NTU	Check Std 10 NTU (+/- 10%)
Meter ID#	7.0 SU	4.0 SU			unatos cir				(* 10.0)
Meter ID#	12070-CY25-	4.0 SU		Interest of the second	analoy (iii		W. S.		

	Arch Chem	icals, Inc.			Sample	e Point ID:	P	Z 100	2	De R. Re	
Field Perso	nnel:	Nick	A, R	ich R	Sample	Matrix:	Groundw	ater			
MONITO	RING WEI	L INSPECT	ION	CONTRACT	MESS.			H.S.W.			
Date/Time:	5	110/2	3	t Marita	-279	Condition o		of Good () Cracked			
		3				scar:	() None	() Buried			
Prot. C	Casing/Riser				Conc	dition of Prot.	() unlock				
	Height:			No. 15	1000	sing/Riser:	() loose	() flush n	nount		
				A-E	PACE.		() Dama	ged	1	-	
	ng; depth to Calibration	riser below:	% Gas		- 1		% LEL:			28.11	
		Calibration/Rea			7	– Volatiles (ppm)		1			
adoresinate	NFORMAT		2002.04.000	O.T. MARIE	SECURE	MATERIAL STATES					
		-1	1.0		_						
	e Initiated:		123	11:05	Date/Ti	me Completed:				QUETKO	
	s. Point: iter Level (f	() Pro Casing	8 X Riser			iameter (inches on G/W MSL:)	n puc	Maria Company		
	l Depth (ft)			N. Park	Method	of Well Purge		Geo	Overso		
One (1) R	iser Vol (g	al):		-	Dedicat	ed: (YN	0		-	
Total Vol	ume Purgeo	(gal):		61111	Purged	to Dryness:	Y / 💭				
Purge Obs	ervations:				Start	11:10	Finish	11:	35		
PURGE D	OATA (if ap	plicable)			S SALES	TO PERSON	tent	EWOED		HOME	
Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other	
11:10	15.41	are in 1	0	18.7	7.02	6.332	21.3	-219	1.18		
11:15	7632		502	16.2	7.08	6.363	5.51	-264	0.7/		
11:20	17.13		1502	18.0	7.06	6.208	-0.07	-308	0.50		
11:25	17.62		3202	18.1	7.07	6.215	0.02	-334	6.47		
11:30	18.10		4602	185	7.06		251	-318	0.44		
270-00-0	18.50	TOUR DE	57.00	18.6	700	(177	6.17	-319	044		

Southed@ 11:35

Facility:	Arch Che	VATIONS micals, Inc. VATIONS	5.1	Sampl	e Point ID:	- 0	2 10	3	
SAMPLE	NG INFO	RMATION							
Date/Time Method of Multi-phas	Sampling sed/layered	E Y/N	123 120 pu	if yes:	Level at Sampli	ng (ft) } _ Dedicated () Heavy	2.0	Эν	
SAMPLE	ime	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb.	ORP	DO		Other
12:3	30	16.1	7.35	9.094	Z1.87	-37 (0,49	n asy in	
INSTRUM Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	Chec 1413 ur	ck Std mhos/cm 10%)	Cal Std. 10 NTU	Check Std 10 NTU (+/- 10%)
Solution ID#								441/1	
GENERAL Weather co Sample cha Comments	nditions at	time of sampli	ng: 	Swine ar, pund	65 ent	chemi	(d/s	taga.	ant
I certify tha	t sampling	procedures we	re in accordance	e-with all applicable E	PA, State and S	ite-Specific	protocols:		

	OBSERV. Arch Chen		14 100		Sample	Point ID:	PZ	103	Austrio	
Field Pers	onnel:	Nick	A, R	ichR	Sample	Matrix:	Groundwa	iter		· HITT
MONITO	ORING WE	LL INSPECT	ION					200		BENES.
Date/Time	. 5	10/	23			Condition of seal:	Good () None (- %
Prot.	Casing/Riser Height:					lition of Prot. sing/Riser:		ed AGoo		
Gas Mete	r Calibration	riser below: /Reading: Calibration/Re	% Ga		146	- Volatiles (ppm):	% LEL:	13		-31
PURGE	INFORMA	TION							ACCULATION OF	0.00
Date/Time Initiated: 5 10/2 3 Surf. Meas. Point: () Pro Casing & Riser Initial Water Level (ft): 9.45 Well Total Depth (ft): One (1) Riser Vol (gal):					Riser D	me Completed: iameter (inches) on G/W MSL: of Well Purge	2 D/N	Ropu	c mp	
Total Vo	lume Purge	d (gal):			Purged	to Dryness:	YIN			
Purge Obs	servations:				Start	12:10	Finish		3	
PURGE I	DATA (if ap	oplicable)	IN RUSE				e de la companya de l			
Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
12:00K	9.45	ica las	0	15.2	7.31	9.190	-1.10	-756	0.79	
12:30	10.75		20a	16,1	7.35	9,094		-368	0.51	Sec.
12:15	1135		360z	16.4	7.35	9.093	9.04	-	0.50	
17:30	12.0		480z	16.1	7.35	9,094	-	-371	0.49	
					1					
						1000		1 1 1 1 1 1 1		The state of the s

Semple@ 12:30

SAMPLIN	IG INFOR	MATION					ENERS .		WATER
Date/Time		5/11	greb	Water	Level at Samplin	g(ft) iv	nable	to go	et rea
Method of	Sampling	- Decod	grcb	No.	1011	Dedicated:	a) N C	19th po
Multi-phas	ed/layered:	Y/N	U	if yes:	()Light (ing (ft) inable to get 1 Dedicated: ON With () Heavy			
SAMPLIN	NG DATA		CENSE!	MANAGED CO.	CANDON NO.				100
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	0	ther
1:4	0	16.4	7.40	4.155	82.15	-95.7	4.48	100	on the second
	1 100 5						6,53		House of
INSTRUM	MENT CA	LIFBRATIO	WCHECK DA	TA T		1			AGE THE
Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 ur	k Std nhos/cm 10%)	Cal Std. 10 NTU	Check St 10 NTU (+/- 10%
erell si	9, OH	16.		King Green.					rae Trae
Solution ID#	945	11771		1000	1	Tall.			
	L INFORM	MATION time of sample	ing:	Som	, 70	eris eris			NAME OF
Sample cha	racteristics		1:gh	+ brown		uicel	olar		Tr.
	and Observ	vations:	20.4						
Comments			Star	0.1		1.4			
Comments				Colorador Service Service Service					

Facility:	Arch Cher	ATIONS micals, Inc. ATIONS	M.	Sample	e Point ID:	_M	W100	ò	
SAMPLIN	G INFOR	RMATION	THE REAL PROPERTY.		NEW STREET	SERVICE SERVIC	ACCUSES NO.	NAME OF THE OWNER, OWNE	BASSES.
Date/Time Method of Multi-phas			/10/2 geopu	Water Water if yes:	Level at Samplin	Dedicated	_) N	
SAMPLIN	G DATA			AND MARKON SO	Select a		3 8084		SAME
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	0	ther
2:4	5	16.3	6.88	2.143	167.4	-211	0.57		-0,0) 11
INSTRUM	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 1	eck Std umhos/cm - 10%)	Cal Std. 10 NTU	Check Std 10 NTU (+/- 10%)
Solution ID#				STATE OF THE PARTY					
GENERA Weather co Sample cha Comments	nditions at	t time of sampli	ing: 	Sur it brown	my 79	s-s Wt	Chem	ada	~
I certify that	t sampling	procedures we	-	with all applicable	A, State and S				I Technologie

	Arch Chemonnel:	nicals, Inc.	4, R:	chR		Point ID:	ML	J 10 G	ASTREE	o man
MONITO	RING WEI	L INSPECT	ION						NAME OF	MIN.
Date/Time	. 5	5/10/	23		a digraf	Condition of seal:	Good (() Cracked	ı	%
Prot. 0	Casing/Riser Height:		-au-v			lition of Prot. sing/Riser:	() unlocke () loose (() flush m		
if prot casi	ing; depth to	riser below:		LES.						
Gas Meter	Calibration	Reading:	% Gas	5	- 2	LA S	% LEL:		An Acres	4
********		Calibration/Rea	sding):		_ v	olatiles (ppm):		- Arrandomen	-	200720
PURGE	NFORMA1	TION	A Property						No.	
Surf. Mea Initial Wa Well Tota One (1) R		i: al):			Riser Di Elevatio Method Dedicate	ne Completed: iameter (inches) in G/W MSL: of Well Purge ed: (2	in pu		
Purge Obs		(gar).				2:20	Finish	2	:45	
	ATA (if ap	plicable)		THE TA		CONTRACT OF THE PARTY OF THE PA	N/ADAM	HEND	7.00.000	e construir
Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
2:20	8.84	P31510	0	14.3	6.93	2.047	86.33	-104	1.09	(S10) (a)
7:25	9.52	area.	1002	15.4	6.90	() ()	65:73		0.93	EPOLIT.
7:30	9.93		2002	17.7	6.85	_	57,34	-113	0.92	
7:35			3502	6.86	-1-	41.81	-146	0.67		
2:40						2.108	75.49	-189	0.61	
2:45	10.47	Jaganeria	ALCO CONTRACTOR	16.3		2,143	167.4	-211	0	

2:45 10.47 7502 16 Samples @ 2:45

		ATIONS	STATE OF STATE	STOCK		da-jir			
SAMPLIN	G INFOR	MATION		The state of the s					
Date/Time		5/11	123	Water (bailer	Level at Samplir	ng (ft))	8:48		expTu
Method of S	Sampling	-broke	grade	(bailer	-)	Dedicated	Y	/ N	
Multi-phase	d/layered:	Y/N		if yes:		() Heavy			
SAMPLIN	G DATA			Markey .		SHIP			100 mg
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO		Other
8:2	5		7,92	12.196	31,09	-115	4.16	2-12	r) notes
				EVERALE NE	in almost	S. C. C.		ESSE	trops w
INSTRUM	MENT CA	LIFBRATIO	N/CHECK DA	TA	B 1 36 76 86	STEELS.		Asset of the	Rawren a
Meter ID#	Cal Std 7.0 SU	Cal Std Cal Std. 4.0 SU 10.0 SU		Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 ur	k Std nhos/cm 10%)	Cal Std. 10 NTU	Check Std 10 NTU (+/- 10%)
(Inc.)	At you	120	W V	and of Andrews	E Star			According	electric least
Solution ID#				7:17				2.762	esti sur
GENERA	L INFOR	MATION				O CONTRACTOR	English to		and the second
Weather co	nditions at	time of sampli	ing:	Sunn er colores	y 65	0	The state of	hie)	A CONTRACTOR
Sample cha	racteristic	s:	ame	er colores	y, cher	4 00	100		
Comments	and Obser	vations:		lited of A			112	12	
	-		1 (5/5						777
	11.5				775			1	Hau
			136		industria				123
I certify tha	at sampling	procedures we	ere in accordance	e with all applicable	PA, State and Si	te-Specific	protocols:	1	
			1	17/		E.E.			

FIELD OBSERVATIONS

TELD O		ATIONS		ary o	Point ID:	Control of the last of the las	15 له		
AMPLIN	GINFOR	MATION		MS	N	15	D		PERSONAL PROPERTY OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO THE PERSON NAMED IN COLUMN TO T
Date/Time Method of S	Sampling	5/11	/23 g/ab		Level at Samplin		22.5	о) N	
Multi-phase	d/layered:	Y/N	V	if yes:	() Light	() Heavy			
SAMPLIN	G DATA			and depleted the					
Tir	ne	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	0	ther
8-2	10	13.3	9.27	6.231	4.96	-157	4.98	Line Sec. 20	10 10
9:0	0		190	denvil 1		10824	S. 5	sta Elest	20,41.0
		10.00		in nac			900		HE STATE
INSTRUM	MENT CA	LIFBRATIO	N/CHECK DA	TA					PANELS AND A
Meter ID#	Cal Std 7.0 SU			Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 u	ck Std mhos/cm 10%)	Cal Std. 10 NTU	Check Str 10 NTU (+/- 10%)
				territor layer			fall	ANDER V	gov ic
	-	133.75	Ast	Jun S		-50		2000	440-0
Solution ID#			and the same of				-	DOMESTIC SERVICE	STATE STATE
GENERA		THE CONTRACT OF	IQTAL - CO	Suma	(=	-0	4 1412		MENTAL CO.
GENERA	nditions a	t time of samp	ling:	Sunny ber, 5	65 trong	-s chem	de	~	THE PROPERTY.
GENERA Weather co	nditions a	t time of samp	ling:	Sunny ber, 5	65 trong	-s chem	de		
GENERA Weather co	nditions a	t time of samp	ling:	Sunni ber, s	65 trong	-s chem	de		
GENERA Weather co	nditions a	t time of samp	ling:	Sunny ber, st	G5 Frong	chen	ada		

SAMPLIN	NG INFOR	RMATION					NO SERVICE DE LA COMPANION DE		MARK
Date/Time		5/11	123	Water	Level at Sampli	ng (ft)	22.6	7	
Method of	Contract of the		geo	purp		Dedicated	_	N	
Multi-phas	ed/layered	Y/N	,	if yes:	() Light	() Heavy		- S - 11	
SAMPLE	NG DATA			ANSWERS.	VEHER	SHEET.	AT SHE	NAME:	23
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	0	Other
9:5	5	14.1	7.02	6.568	137.8	-340	0.51		
			1	Contract of	TO THE PARTY OF			0.00	No. 12
				6.0				0.948	3.0
Meter ID#	Cal Std 7.0 SU	Cal Std Cal Std. 4.0 SU 10.0 SU		Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 u	ck Std mhos/cm 10%)	Cal Std. 10 NTU	Check : 10 NTU (+/- 10
				8				- TV-1	
Solution ID#							-		
GENERA Weather co Sample cha Comments	nditions at	time of sampli		San r, slight	ny 65 - black	- 300	fine	t,	Stra.
		A LES		8.0				0	

FIELD OF Facility: A Field Person	nel:	A CONTRACTOR OF THE PARTY OF TH	, Rich	R	Sample P		BR	- 106	2	ALL NO
Date/Time:	5	111/2:	3		, S = 1	Condition of scal:	Good (%
Prot. Ca	asing/Riser Height:_					ion of Prot. ng/Riser:	() unlocked () loose y	flush mou		
	ng; depth to r Calibration/F		W.C	37 (V 1 E1 .			
		alibration/Read	% Gas		V	olatiles (ppm):	% LEL:	412	-	-03.
-	NFORMAT	CONTRACTOR CONTRACTOR				cames (ppin).		- Charles		BENGEN CO.
Surf. Mea Initial Wa Well Tota One (1) R Total Vol Purge Obs	ter Level (f d Depth (ft) iser Vol (ga ume Purged ervations:	: il): l (gal): oplicable)	.48		Riser Dia Elevation Method of Dedicate Purged to Start	O Dryness: 9! 3 5	N Y/W Finish	Seo/ 9:5	55	
Time	Water Level	Purge Rate (gpm/htz)	Volume Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
9:35	22HB		0	15.0	7.03	6.740	140.8	-239	1.83	EQ 6 700
9:40	22.57	2	500	[4.1	7.03	684	110.7	-285	0.78	
7:45	22.6		1502	14.1	7.02	6,567	112,1	-336	0.54	
9:50	22.63	,	3002	14.2	7.02	6.558		-340	0.52	
9:53	72.6	7	1000	14.1	7.02	6.568	-		0.5	

Sampled @ 9:55

-	CANCEL TO SERV	ATIONS	NAME OF THE OWNER.		TO SHAREST	NATIONAL PROPERTY OF THE PARTY	an harmon	1000000	MONENE
Date/Time Method of Multi-phas	Sampling	_5/	11/23	Water Water if yes:	Level at Sampli		22.15	- Э и	
SAMPLIN	IG DATA			BERNAND CO		HINE		THE REAL PROPERTY.	10/10/2
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	0	ther
10:	45	15,6	6.85	4.777	-7.10	-208	0.56		
INSTRUM	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 u	ck Std mhos/cm 10%)	Cal Std. 10 NTU	Check Sto 10 NTU (+/- 10%)
Solution ID#								Laps	
	onditions a		ing:	Sur ear, no	iny 7	0°			
								11.5	

FIELD OBSERVATIONS BR-105 Facility: Arch Chemicals, Inc. Sample Point ID: RichR Field Personnel: Sample Matrix: Groundwater MONITORING WELL INSPECTION Condition of Good () Cracked seal: () None () Buried () unlocked () Good Prot. Casing/Riser Condition of Prot. Height: () loose A flush mount Casing/Riser: () Damaged if prot casing; depth to riser below: Gas Meter Calibration/Reading: % LEL: % Gas Vol. Organic Matter (Calibration/Reading): Volatiles (ppm): PURGE INFORMATION Date/Time Initiated: Date/Time Completed: Pro Casing () Riser Surf. Meas. Point: Riser Diameter (inches) 72.08 Initial Water Level (ft): Elevation G/W MSL: Well Total Depth (ft): Method of Well Purge One (1) Riser Vol (gal): Dedicated: Purged to Dryness: Total Volume Purged (gal): 10:20 Purge Observations: Finish PURGE DATA (if applicable)

Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
10:20	77.08		0	19.0	6.99	5.866	4.66	-14/	1.76	i i
10:25	72.13		100z	15.6	6.88	6.464	-1.29	-17/	0.75	in the
10:30	22.15	-				6.101				
0:35	22.16		500c	15.8	6.85	5,588	-2.41	-205	0.58	
0:40	22.08			V		T.158	100000			
0:45	22.15	ATTER!			A CONTRACTOR OF THE PARTY OF TH	4.777				

Sampled @ 10:45

	G INFOR	RMATION			PARTIES.				
Date/Time		5/1	1/23 geof	Water	Level at Samplin	g(ft) 7	6.80	12	
Method of Multi-phas	Name of the Control	Y/N	geof	if yes:		Dedicated:	0	y N	
SAMPLIN	IG DATA			ALKS AND STREET					FEATER I
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	0	Other
11:2	5	15.0	6.82	24.249	19.19	-328	0.53	e-costs	Donale in
(5)				Name of the last o		4/4		p) - 1925.	Marie Control
INSTRUM	MENT CA	LIFBRATION	/CHECK DA	ГА		8327	1800		
Meter ID#	Cal Std 7.0 SU	Cal Std Cal Std. 4.0 SU 10.0 SU		Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 un	k Std nhos/cm 10%)	Cal Std. 10 NTU	Check Sto 10 NTU (+/- 10%)
			* () - (b) 7 -	na deserva			100	gravy Jenet r	elfi-ci ju
Solution ID#	-13	Table 1							
GENERA	enditions a	t time of sampli	ng: <u>darl</u>	Sun ur color	ny 7	5-3 gran	t o	dor	
Weather co Sample cha Comments	-	vations:			W3 75 1 5		-	Tales of	AND MA

Company: Matrix Environmental Technologies

Date:

FIELD OI Facility: A Field Person	Arch Chemic		L,R	ichf	Sample I		BR Groundwat	-105 er	D	Stilli
MONITOR	ING WELL	INSPECTIO	N			THE REAL PROPERTY.	NEWS	Carto		
Date/Time:	51	11/23	of the last	2001-0		Condition of seal:	() None () Cracked) Buried	ge Pjath	%
Prot. Co	asing/Riser Height:	un yan			1000	tion of Prot	() unlocke	^		
Gas Meter	ng; depth to r Calibration/I ic Matter (C	3 A-15	% Gas	no l	Plaž.	tic co	() Damage	0.71	7	5 11
PURGE II	NFORMAT	ION	W/2758							
Surf. Mea Initial Wa Well Tota One (1) R Total Vol Purge Obs	ter Level (f d Depth (ft) iser Vol (ga ume Purged	: il): (gal):	()Riser (43	or iso	Riser Di Elevation Method		D) N Y/D	2in 100 pr	mp	
Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
11:05	25.43	Q 71	0	18.2	68	23.344	9.62	-317	0.78	0.00
11:10	26.31		1502	15,0	6.87	23.739	10.04	-325	0.51	E.110-4
-	26.47		30 02	14.9	6.85	24.25	30.24	-378	0.52	
	26.79		4502	14.9	6.84		50.6		0.53	
1.	26.80		600z	15.0		24.249	-		0.53	\———
				1.7.16	1	2 - 2 - 3	100		-	7.4

Simpled @ 11:25

FIELD OF		ATIONS		Sample	Point ID:	R-11:	2 D		d vari
SAMPLING	GINFOR	· Commission of the commission	11/23	Water	Level at Samplin	g (ft)	36.4	(
Method of S Multi-phase	GINE MALE	Y/N	gab	(bailer) if yes:	() Light (Dedicated:) Heavy	Ø	N	
SAMPLIN	G DATA								
Tir	ne	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	0	ther
3'.10)	16.1	7.25	5.864	10.89	-213	2.22		i de de la companion de la com
INSTRUM Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 ur	k Std nhos/cm 10%)	Cal Std. 10 NTU	Check Str 10 NTU (+/- 10%)
Solution ID#			N 1	(A) - (A)	1.53				
A COURT OF THE PARTY OF	nditions a		vel	bent pladder f	at s	uffa	æ,	bre	able
I certify the	at samplin	g procedures we	ere in accordan	ice with all applicable	State and S	iite-Specific	: protocols:		

Facility:	Arch Che	ATIONS micals, Inc. /ATIONS	13	Sample	Point ID:	BI	2 11	7D	
SAMPLIN	INFOI	RMATION /	1		SECTION		elend	BOOMER	
Date/Time Method of Multi-phas			11/2- ladder	Water of the second sec	Level at Sampli	ing (ft) _ Dedicated () Heavy	· Q	N	
SAMPLIN	NG DATA			diam's			5025	1000	BRASE.
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	(Other
1:5	0	12.8	6.42	89,428	32.4	-303	0.45		or and the
INSTRUM Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	TA Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 u	Check Std 1413 umhos/cm (+/- 10%)		Check Std 10 NTU (+/- 10%)
Solution ID#		12-24		P27					and the same
Weather co	and Obser	vations:	clear	Sun , stagn	árt	odar	750	14	oto
I certify the Date:	at sampling	g procedures we	5	e with all applicable E	PA, State and S				Technologies

glette H	Arch Chemic		4, Riz	hR	Sample Sample	Point ID: Matrix:	BR	(- 11 ·	1D	
MONITO	RING WELL	INSPECTI	ON							
Date/Time:	5	111/2	3		9	Condition of seal:	Good (i i i i i i i i i i i i i i i i i i i	%
Prot. C	Casing/Riser Height:		TO SE			ition of Prot. ing/Riser:	() unlocke		d	
if prot casi	ng; depth to	riser below:			ler-		() Daning		VIII T	
Gas Meter	Calibration/	Reading:	% Gas	3.36	19/6/2	1515	% LEL:	01/		36.4
Vol. Organ	nic Matter (C	alibration/Rea	ading):		_ v	olatiles (ppm):				
PURGE	NFORMAT	ION	200							
Surf. Med Initial W Well Tot One (1) F	as. Point: ater Level (f al Depth (ft) Riser Vol (gr lume Purgeo	() Pro Casin t): 47	v/z3 s tikiser , 30		Riser Di Elevatio Method Dedicate	ne Completed: ameter (inches) n G/W MSL: of Well Purge ed: O Dryness:	101	lin idder	steel pung	0
PURGE I	DATA (if ap	plicable)								
Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
1:25	47.30	a2 (2)	0	14.2	6.44	64.08	107,4	-298	1-01	- Hole
1:30	47.31		2002	(1,1)	641	84.68	473	-292	0,57	
1:35	47.3	- 8-	4002	10.9	6.37	94,527	The state of	-294	0.47	
1:40	47.31		6002	12.5		92.807		-30(0.43	

12,8

9002

SAMPI IN	G INFOR	MATION			SOLEH PARK			SHEET,	
Date/Time Method of	Sampling	57	12/23 grab	Water if yes:	Level at Samplin	ng (ft) / Dedicated:	Y	<i>®</i>	-015
SAMPLIN	G DATA						TO ME		
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	C	ther
1:00)	18.4	8.55	2165	2.27	_47.2	10.64		a make
INSTRUMENT C Meter ID# Cal Std 7.0 SU		Cal Std Cal Std. 4.0 SU 10.0 SU		Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	Check 1413 um (+/- 1	nhos/cm	Cal Std. 10 NTU	Check St 10 NTU (+/- 10%
Solution ID#	LINFOR	MATION -						top:1	
Weather co Sample cha Comments	racteristic		ing: CJ-	Sunni les	75	9			

251 FIELD OBSERVATIONS Sample Point ID: Facility: Arch Chemicals, Inc. FIELD OBSERVATIONS SAMPLING INFORMATION Water Level at Sampling (ft) Date/Time YIN Dedicated: Method of Sampling Multi-phased/layered: if yes: () Light () Heavy SAMPLING DATA Time Temp pH Conductivity Turb. ORP DO Other (SU) (umhos/cm) (NTU) (C) 1:15 11.56 8.81 16. 73.5 INSTRUMENT CALIFBRATION/CHECK DATA Check Std Cal.Std. Check Std Check Std Cal Std Cal Std. Cal Std Cal Std. Meter ID# 7.0 SU 1413 1413 umhos/cm 10 NTU 7.0 SU 4.0 SU 10.0 SU 10 NTU (+/- 10%) (+/- 10%) umhos/cm (+/- 10%) Solution ID# GENERAL INFORMATION Cleary 750 Weather conditions at time of sampling: Sample characteristics: Comments and Observations:

SAMPLIN	G INFOR			MS,	MSD)			
Date/Time Method of S	Sampling	5/17	123	Water	Level at Sampli		Y	(Q)	
Multi-phase	of the Contract of the Contrac	Y/N	0	if yes:	() Light	() Heavy		1574520005	name of the
SAMPLIN Tii		Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	0	ther
1:30	0	(SEED)	2,00	2.198	-0.08	-8.1	9.9	5	dinost.
		13.8							
INSTRUM	MENT CA	LIFBRATION	VCHECK DA	TA- ! NO THE	Hamai				
Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 u	ck Std mhos/cm 10%)	Cal Std. 10 NTU	Check Std 10 NTU (+/- 10%)
				market de					
Solution ID#	S. S			and the second second second		Const	O PERSON		la sign
Weather co	nditions a		ng:	Jew Su	nny-	75°			
Comments							balls.		****
		1	-	State of the last					

AMPLING	INFOR	MATION	EMES.		FERENCE				BARRA SA
Date/Time		5/	12/23	Water I	Level at Samplin	g (ft)	/	72	
Method of S	ampling	Month	Srob	30 - L		Dedicated:	Y	10	
Multi-phase	d/layered:	Y/N		if yes:	() Light (() Heavy			
SAMPLIN	G DATA			Alicelia,					K
Tir	ne	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	0	ther
1:4	5	18.1	8.45	1.800	-2.90	-0.2	2 9.31		3 - W
		E-DIL-		peng.			\$ 600 Ld	EAST DE	conductive of
								- N	
INSTRUM	MENT CA	LIFBRATIO	N/CHECK DA	TA	G055019		DES.		Comer of a
Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 ur	k Std nhos/cm 10%)	Cal Std. 10 NTU	Check Sta 10 NTU (+/- 10%)
			911						A 30 M 34
				- Net					
	-		purposition and	MATERIAL CHINASAN	at one-over-per-	the section of	1.504	PER BER	noned and
Solution ID#			Juron, I in	Electronic Control	7	atte to	Service)	e Samuel	
GENERA	nditions at	t time of samp	ling:	- Sum ear, su	16	1			-
GENERA Weather co			(-1	cal, Su	17W Q	201	N. S. C.		
GENERA Weather co	racteristic			,					
GENERA Weather co	racteristic								1 10
GENERA Weather co	racteristic								

FIELD C	DSERV	ATIONS							
SAMPLIN	G INFOR	MATION			HERMAN		ROPE NO		No. of Control
Date/Time Method of		5/	12/23 Dlade	Water Purple of yes:	Level at Samplin	AU AU	15,3	S N	
Multi-phase	ed/layered:	Y/N		If yes:	() Light	() Heavy			
SAMPLIN	G DATA			o This and the local		3000	200		
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	(Other
12:4	10	15.7	7.85	1,874	41.08	-232	0.55	-	e Outo
INSTRUM	MENT CA	LIFBRATIO	N/CHECK DA	ATA Check Std	Cal.Std.	Chec	ck Std	Cal Std.	Check Sto
Meter ID#	7.0 SU	4.0 SU	10.0 SU	7.0 SU (+/- 10%)	1413 umhos/cm	THE RESERVE OF THE PARTY OF THE	mhos/cm 10%)	10 NTU	10 NTU (+/- 10%)
Solution ID#									
GENERA Weather co Sample cha Comments	onditions a	t time of sampl	ing:	Sunn ar/light	y 75 cube	-0			
I certify that	ıt sampling	procedures we	(ce with all applicable I	State and S				Technologic

Sample Point ID:

BR-123D

FIELD OBSERVATIONS

Facility: Arch Chemicals, Inc.

FIELD OF Facility: 1	Arch Chemi		escreption in the	chR	Sample I		Br	2-12 ter	3D	o de la composición dela composición de la composición de la composición dela composición dela composición dela composición de la composición de la composición dela com
Date/Time:	Z	5/12/	23	A STATE		Condition of seal:	() Good () Cracked) Buried	ea-	%
	asing/Riser Height:		San San San San San San San San San San	Agent I		tion of Prot. ing/Riser:	() unlocke () loose (() Damage	flush mo		
	ng; depth to Calibration	riser below:	% Gas	10	340		% LEL:	2.3	Jan 1	23
		Calibration/Read			v	olatiles (ppm):			14/19	
Date/Tim Surf. Mea Initial Wa Well Tota One (1) F Total Vol Purge Obs	ater Level (i al Depth (ft tiser Vol (g tume Purges	5/17 () Pro Casing ft): 45): al): d (gal):	2∫23		Riser Di Elevatio Method Dedicate	ne Completed: ameter (inches n G/W MSL: of Well Purge ed: to Dryness:	9 4 m	ch de		ρ
Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
12:15	45.3	3	0	16.1	7.87	1.971	8.24	-[83	2.12	merg a 4
12:20	45,3	5	150z	16.0	7.84	1,889	8.40	-212	0.87	man s
1225	45.35		3002	15.60	7.88	1,880		-222	0.69	
11:40	45.46		600	15.1	7.84	1.876	The state of the state of	- Commercial State	062	
12:35	45.35		7502	15.3	7.85	1.871	34.8	-278	0.57	
12:40	45:35	il in	9502	15.7	7.85	1.874	41.08	-232	0.55	"Chin

Samples @ 12:40

CAMPI IN	C INFOR	MATION	SMANGHANA		NAME OF TAXABLE PARTY.	1000	NAME OF	SHEWARK .	SMIRMS
Date/Time			2/23 lader	Water I	evel at Samplin	ng (ft)	45.11) N	
Multi-phase	ed/layered	Y/N		if yes:	() Light	() Heavy			
SAMPLIN	G DATA		T.A.		W. HISE		ATMEN		000
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other	
11:4	5	21.3	6.88	3.554	-0,82	-781	0,49	2.04	
INSTRUM	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	Che 1413 u	ock Std umhos/cm - 10%)	Cal Std. 10 NTU	Check Sto 10 NTU (+/- 10%)
Solution ID#						ant			
	nditions a	MATION t time of sampli	ing:	Sum v, no	1 75 adar	\$			
Comments	and Obser	vations:	1.70%		2500			200	17.77
					2.016	130	1.3		3 (3 g)
	4.	73 C 14		- 41 4	The state of the s	100		10011	

Field Person	Arch Chemic	cals, Inc. Nick A	1 Pie	hR		Point ID: B			AMBE	0 (123)
MONITOR	UNG WELL	LINSPECTIO	JN .	MC3 FF	2520107091	NASSION NASS		distance.	DESTROY	WHAT PRINTS
Date/Time:	51	12/23			10.75	Condition of	WGood (() Cracked		%
		0	arla.		- C) =	seal:	() None () Buried		
							() unlocks	ed Goo	4	
Prot. C	asing/Riser Height:				0.75778	tion of Prot. ing/Riser:		() flush mo		SIRE
		- BY	Del T	But I	Cas	ing Riser.	() Damag		7	
if prot casi	ng; depth to	riser below:		OLD.	No.			108		
Gas Meter	Calibration/I	Reading:	% Gas	5.0	17-2-	1	% LEL:	5-12		17.
Vol. Organ	nic Matter (C	alibration/Rea	ding):		_ v	olatiles (ppm):				
PURGE I	NFORMAT	ION			T.M.					
Surf. Mea Initial Wa Well Tota One (1) R Total Vol Purge Obs	ater Level (f al Depth (ft) tiser Vol (gr ume Purged	al): l (gal):			Riser Di Elevatio Method Dedicate	ne Completed: ameter (inches) n G/W MSL: of Well Purge ed: O Dryness:	10		forg	ρ
Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
11:20	45.07		0	24.	7.33	1.738	11.86	-201	3,26	
11:25	45.07		502	23.0	7.27	1.647	16.16		2.23	
11:30	45.09	-	1002	22.4	6.89	2.018	9,14	-305	0.55	- 3
11:35	45.11)	1202	22.6	6.87	3.012	7.37	-294	0.46	
11:40	451)	1502	719	6.88	3.354	0.58	-285	0.74	
11111			1-	11.1	101	7	1000	201	0.10	E 10

11:45 45:11 1702 21.3 6.88 3,554-0.82-281 0.49 Sampled 11:45 Page 1 of 2

Facility:	Arch Che	/ATIONS micals, Inc. /ATIONS		Sample	Sample Point ID:			130	<u>></u>
SAMPLE	NG INFO	RMATION		医		經濟	施規模	HEREN	
Date/Time Method of Multi-phas	Sampling	5/ b 6 Y/N	12/23 der p	Water Water if yes:	Level at Samplii	ng (ft) Dedicated () Heavy	31.70		
SAMPLI	NG DATA		ESPEC!		No. of the last			CHEST	EXEM
Ti	ime	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	(Other
10:7	25	13.8	7.0)	3,414	1.35	-309	0.55	1 -14	
INSTRUM Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	Che 1413 u	ck Std mhos/cm 10%)	Cal Std. 10 NTU	Check Std 10 NTU (+/- 10%)
Solution ID#				TAIC Sec	- A			902	Str. Car
GENERA Weather co Sample cha Comments	nditions at	t time of samplii	ng: 	Sunny ear no	75				
	CY			7	/			Or I	BU
I certify that Date:	t sampling	procedures were	4	with all applicable E	PA, State and S	- 12			Technologies

Facility: Field Person		icals, Inc.	-A , P	ich	Sample Sample	Point ID: Matrix:	Groundwa	BR 1	13 D	
MONITO	RING WEL	LINSPECT	IUN	A SALES OF	1022/02/02	DEANISTE SE	CHESICALIS	STATE OF THE PARTY	CO PRODUCTIONS	ARICHARD)
Date/Time		5/12/	23	alam.	This !	Condition of	&Good) Cracked		%
						seal:	() None () Buried		
							() unlocke	d M Goo	d	
Prot.	Casing/Riser Height:					ition of Prot. sing/Riser:		() flush me		
	(14)	100	100		1000		() Damage	ed	1	
if prot cas	ing; depth to	riser below:		7/19						
	r Calibration/		% Gas	No.	- 11		% LEL:	6,25	1	
-	March Company	Calibration/Re	ading):	coverant.	MEDICAL	/olatiles (ppm):	especial person	restantina	AND COURT	TO SECURE
PURGE	INFORMAT		AND COMES	and the sale	10000000		21-1-1		DESCRIPTION OF	Name of the
Date/Tin	ne Initiated:	5/	12/23		Date/Ti	me Completed:				
Surf. Me	as. Point:	() Pro Casin	8 KRiser		Riser D	iameter (inches)	2:0	- puc		
	ater Level (.67			n G/W MSL:	tol	uder	0.	0
	al Depth (ft)				-	of Well Purge	2 N	uoei	Pan	1
	Riser Vol (g: lume Purgeo	A COLUMN TO SERVICE STATE OF THE SERVICE STATE OF T	641-7		- Dedicat	to Dryness:	YIN		-	12
Purge Obs		(8-7	0100		Start	10:10	Finish	10:	25	
PURGE	DATA (if ap	plicable)	150 ES	100 May 175						
Time	Water Level	Purge Rate (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
10:10	31.70		0	14.9	7.06	3.475	27.1	-229	7.88	
10:15	31.70		300z	11,4	7.02	3.446		-309	0.73	AL PROPERTY.
10:20	31:70		5002	13.6	7.01	3.414	184	-305	0.58	1
10:25		-	6402	13.8	7.01	3 414	1.35	-309	0.55	-
10.23	31,14		6100	1310	1.01	2 111	1.0	-yy-	0.00	
Land make		- 3		1		1		400		1

Sampled @ 10:25 Page 1 of 2

FIELD OBSERVATIONS Facility: Arch Chemicals, Inc. Field Personnel: MONITORING WELL INSPECTION	/ '	ch R	Sample	Point ID: Matrix:	BR	118] ter	D	
Date/Time: 5/12/2	3		And the	Condition of seal:	Good (() Cracked) Buried	ı	%
Prot. Casing/Riser Height:				ition of Prot. sing/Riser:	() unlocke () loose () Damage	() flush mo		
if prot casing; depth to riser below: Gas Meter Calibration/Reading:	% Gas	35.70	X		% LEL:			
Vol. Organic Matter (Calibration/Rea			v	olatiles (ppm):			100	
PURGE INFORMATION		US BERT	NAME OF THE OWNER, OWNE	DUNAN	900			
Date/Time Initiated: 5/1: Surf. Meas. Point: () Pro Casing Initial Water Level (ft): 46 Well Total Depth (ft): One (1) Riser Vol (gal): Total Volume Purged (gal): Purge Observations: PURGE DATA (if applicable)	Riser		Riser Di Elevatio Method Dedicate		4;	ader	purp	
Time Water Purge Rate Level (gpm/htz)	Cumulative Volume	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	Other
9:00 46.63	0	17.1	7.90	1.016	15,46	-132	3.82	
9:05 46.67	1502	11.6	7,59	1.064	5.01	-167	1.94	
9:10 46.68	30 m	11.1	7,54	1.090	2.19	-193	1.18	
9:15 46.68	4502	10,9	7.55	1.077	7.92	-210	1.20	48
9:2046.68	7002	11.4	7.56	1.064	363	-227	1.02	
9:25 46.68	8502	11.4	7.56		4.22		0.95	-

9:25 46.64 85.02 11 Samples @ 9:25

		ATIONS	00000	Samp	le Point ID:	Dr	- 118		
SAMPLIN	G INFOR	RMATION					影形形		REPRES.
Date/Time Method of Multi-phase			2/23 6/adde	Pump if yes:	Level at Sampli	ng (ft) _Dedicated () Heavy	• •) N	
SAMPLIN	IG DATA			WALKER PARTY.			19/4	CORNER	E
Ti	me	Temp (C)	pH (SU)	Conductivity (umhos/cm)	Turb. (NTU)	ORP	DO	(Other
9:2	5	11.4	7.56	1.062	4.22	-727	0,95		
INSTRUM Meter ID#	Cal Std 7.0 SU	Cal Std 4.0 SU	N/CHECK DA Cal Std. 10.0 SU	Check Std 7.0 SU (+/- 10%)	Cal.Std. 1413 umhos/cm	1413 w	ck Std mhos/cm 10%)	Cal Std. 10 NTU	Check Std 10 NTU (+/- 10%)
Solution ID#									1000
GENERA	onditions a	t time of samp	ling:	Sinne er, stag	, 70°	- ab			
		EPI-	MAN I	Ve to see	2	795 249		10 K	Plan.
I certify that	at sampling	g procedures w	4	ce with all applicable	EPA, State and			time to	I Technologie

FIELD OBSERVATIONS

Table 2 Groundwater Elevation Report Arch Chemicals, Inc., Rochester, NY

	Sample	Location	Zone	Date	Depth to water	Casing Elevation	GW Elevation	Time	Comments
	B-1	On-Site	ОВ	5/4/23	6.94	10 YOU !!		Jan Care Ch	A POST AND ADDRESS OF THE PARTY
100	B-10	On-Site	08	11/1	7.31	0.750	9755	1527400	PRODUCTION THE STATE OF THE STATE OF THE
	B-15	On-Site	OB		2.78	3:170:00	COLUMN		O COMPLETE TO SELECT A CONTROL OF THE PARTY
100	B-16	Off-Site	OB	200	303	77-		4.5	C 2012 THE TAX PROPERTY OF THE PARTY.
400	B-17	On-Site	OB		6.37	G81 33	100	0000	THE RESERVE THE PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PA
17.	B-2	On-Site	OB		8.00	230-	100		A STATE OF THE PARTY OF THE PAR
15	B-4	On-Site	08	100	10,76		1	100	THE STATE OF THE S
100	B-5	On-Site	08		7.21	-	1129775		
5.00	B-7	On-Site	08		12.21	7	-		AND AND A CONTRACTOR
	B-8	On-Site	08		4.25	-	0.000	111	Name of the Party
	BR-I	On-Site	BR	-	5.41			-	A STATE OF THE PARTY OF THE PAR
E	BR-102	On-Site	BR		23,10			-	A CONTRACTOR
1 8	BR-103	Off-Site	BR		0, 50		-		A STATE OF THE PARTY OF THE PAR
	BR-104	Off-Site	BR		10.00				THE LOCAL CONTRACT OF THE PARTY OF
1 8	3R-105D	Off-Site	BR Dop		30.41		200		Broken Lid
	R-105	Off-Size	BR deep		24:46		-		DIVIPERT LIB
_	3R-106	Off-Size	BR		25.45		100		/
_	BR-108	Off-Site	BR		绿料	_			The state of the s
-	BR-111	Off-Site	BR		50.74		-		The state of the s
-	R-111D	Off-Site	BR		32.16		-		
-	R-112D	Off-Size	BR deep		39.55				The second of th
	BR-113	Off-Site	BR		31.35		-		
_	R-113D	Off-Site	BR deep		34.60		-		The second secon
	3R-114	Off-Sine	BR BR			-	-		
_	38-116	Off-Site	BR		12.35	-	-		
-	R-116D	Off-Site	BR deep		28,41 38,08	1000			
_	3R-117	Off-Site	BR		33.60				Company of the Compan
_	R-117D	Off-Site	BR deep		48:18		-		A CHARLES OF STREET
_	3R-118	Off-Site	BR		75.17				A STATE OF THE PARTY OF THE PAR
_	R-118D	Off-Site	BR deep		22.85	-	10700		
	R-122D	Off-Site	BR deep	7	45:35		15		THE RESERVE OF THE PARTY OF THE
No. of Lot	R-123D	Off-Site	BR doep		41.92		100	-	The second secon
-	R-124D	Off-Site	BR deep			-			The second secon
_	IR-126	Off-Site	- BR		36.5		-		1760
_	IR-127	On-Site	BR		19.63	400	10000		The state of the s
_	BR-3	On-Site	BR		2,38	- Care			
_	3R-3D	On-Site	BR deep			40.0			1 1 1 1 1 1 1
-	8R-4	On-Site	BR		0.20	-			Sene as surface
_	BR-5	On-Site	BR		3.44	-	-		The state of the s
_	IR-SA	On-Site			4.18		-		
_	SR-6A	On-Site	pumping well BR		12,20	-			
_	BR-7	On-Site	BR		16.00	- 11 11			
_	-	On-Site			10.W	410			I while to and such as
	IR-7A		pumping well BR		7.20	-			unable to get past put
_	BR-8	On-Site			1100	1000	-		La We La cale
_	BR-9	On-Site	pumping well		7.08	77	A 100 M		bride to get post pum
_	C-5	On-Site	OB		41,30	-			Company of Company of the Authorities and the
_	ANAL	Off-Site	SW	-	מכיוד	75.5	-		A STATE OF THE PARTY OF THE PAR
_	E-2	On-Site	OB		u vi	1000		-	Well Missing, rail project
_	E-3	On-Site	08		4.31		1 1 1 1 1	-	
_	E-5	On-Site	08	V	5,47	13.7			4
1 1	EC-2	Off-Site	BR		-	Laborate State	1.55		Dry 17.17

Table 2 Groundwater Elevation Report Arch Chemicals, Inc., Rochester, NY

1	and the second	Location	Zone	Date	Depth to water	Casing Elevation	GW Elevation	Time	Comments
	MW-103	Off-Site	OB	5/4/23	0.47			115 12 100	
	MW-104	Off-Site	OB	111	732		17 576		THE TO KNOW THE THREE TO
#	MW-105	Off-Site	OB		13.35	- V	440	Later and	V. A. William Device A VIII of Responding to the
	MW-106	Off-Site	08		1.82	de la	Section 1		
ч	MW-114	Off-Site	08		4410	Marks 7	365.50	W. Charles	Control of the Contro
	MW-127	On-Site	OB		5.18	1000	1000		Name of the Control o
	MW-16	Off-Site	BR		10,70		100		
102.1	MW-3	Off-Site	OB		10110		-		Al Parked Over/ Missie
4	MW-G6	Off-Site	OB					100	Missing/destroyed
0	MW-G8	Off-Site	OB		7/14				Missing/destroyed *
Ц	MW-G9	Off-Site	OB		27.75				The state of the s
500	N-2	On-Site	OB				-		1.7. 0 61.
	N-3	On-Site	OB		Time		445	100	proken @ 3.10
40	NESS-E	Off-Site	BR deep		4.45			-	1000
AL	NESS-W	Off-Site	BR deep		27,35		ALC: OF		C. C
100	PW-12	On-Site	BR		1000		1000		In accesible
Part of	PW-13	On-Site	pumping well		4,07	100		4.	1
1	PW-14	On-Site	pumping well		24.60				tump not furning
	PW-15	On-Site	pumping well		9.05		1000		
	PW-16	- On-Site	pumping well		77.81	500	1000		Pump not Courses
_	PW-17	On-Site	pumping well		20 30				Young not Courie
5.15	PZ-101	Off-Site	BR		11.00		11.		
4	PZ-102	Off-Site	BR		11.00		200		
. 0	PZ-103	Off-Size	BR		16,79		100		Charles Control of the Control of th
	PZ-104	Off-Site	BR		9.64		-0.00		Control of the Contro
78	PZ-105	On-Site	BR		13.17	2.5			A CONTRACT OF THE PARTY OF THE
750	PZ-106	On-Size	BR		7.11	-	100		WALL TOOLS TRAINED NOT THE
1336	PZ-107	On-Site	BR		3.64		46.7		DECEMBER OF THE PROPERTY OF THE PARTY OF THE
	PZ-109	On-Site	BR.		8.35	201	12 112		California y American Charles
1114	PZ-110	On-Site	BR		6.34	-57	100000	-10	THE RESERVE THE PARTY OF THE PA
4 18	PZ-111	On-Sine	BR		11.31	1000	1000	* 1	
E24 25	W-5	On-Site	OB	1	10000	-	-50000	19010	Missing/destroyed
all - 6		CAL-DIE	08	V	_	Victoria	-50A11A3	E-20	Missing/destroyed

NM = Not Measured NA = Not Applicable

PAR	ADIG	М	ADDRESS: 100 CITY: Rahosh		(a-15)	Inc.	CLIENT: ADDRESS 25 GITY: PHONE:	STATE:			ZIP:		LAB PROJECT ID Quotation #:		
PROJECT 2023 S	Pring My 202		Matrix Cod	es: Aqueous Liquid Jon-Aqueous Liquid	WA - W WG - G	ater roundwat	ATTN:		Drinking V Wastewal		SO - Soil SL - Sludge		Email: SD - Solid PT - Paint	WP - Wipe CK - Caulk	OL - Oil AR - Air
DATE COLLECTED	TIME	C O M F G R A B I T E		SAMPLE IDENTIFIER		M C A O T D R E I S	O E	5.12 Specifica 100	JESTED	ANALY	SIS		REMARKS	s	PARADIGM LA SAMPLE NUMBER
15/23	9:25	X	3	R-5A		WG	3	XX N							1
5 23	11:20	X	BR	-6A		WG	3	XX							
15/23	1:55	X	PZ	-107		WG WG	3	XX	+	+	+++				-
5 5 23	2:10 2:55	×	BR	- 127 J-12		MR MR	3	ŶŶ XX	Ħ						
Turnaround		nt upon lab app	Report Sup	plements I fees may apply.	- 4	re	2	e		5	/5/Z	3 15	-00		3
andard 5 day		None Required		None Required Basic EDD	Sample	ished By	2	~		Date/	5/Z	3 15	7.0	otal Cost:	
sh 3 day sh 2 day		Category A Category B		NYSDEC EDD	Receive		6	0	5/5	72 Date/	MAY/23 Time	1535		J.F.	7
sh 1 day					Receive	d @ Lab	Ву			Date/	Time				
ate Needed	1	Other please indicate pack	agë needed:	Other EDD please indicate EDD needed	By sign	ning thi	is form	, client a	grees to	Paradi	gm Terms a			erse).	

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY PARADIGM Arch Chenicals Same Mi Kee Rd. Po Box 3000 Quotation #: Rochstr Email: Harris PROJECT REFERENCE David Sfring Sanfae Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid SD - Solid PT - Paint WP - Wipe CK - Caulk DW - Drinking Water WW - Wastewater WA - Water WG - Groundwa SO - Soil SL - Sludge OMPOS GRAB SAMPLE TIME DATE COLLECTED 3 5-8-23 P2-106 8.42 W6 X 9:08 PW14 X 9:42 5.8.23 10:52 5.8 23 11:40 X BI5 5.8.23 12:18 t.8.23 **Report Supplements Turnaround Time** 8.23 Availability contingent upon lab approval; additional fees may apply Standard 5 day None Required Basic EDD 10 day Batch QC NYSDEC EDD Rush 3 day Category A Rush 2 day Category B Rush 1 day Received @ Lab By Date/Time Other EDD use Indicate data needed By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

						CHAIN			7-2530 Fax (58					
PAR	ADIG	М		CLIENT: Arch	Chemicals In	, c.). Box 3020	CLIENT:		Some			LAB PROJECT	ID	
1				CITY: ROCK	ester STATE	ZIP 1460	3 CITY:		STATE:	ZIF	9:	Quotation	#:	
-	- Company			PHONE:			PHONE:					Email:		
	TREFER			Day	id Harris		ATTN:							
2023 Spring Sampling event				Matrix Coo	les: Aqueous Liquid Non-Aqueous Liquid	WA - Water WG - Ground	water	DW - Drin WW - Wa	50 - S SL - S		SD - Solid WP - Wipe PT - Paint CK - Caulk		OL - Oil AR - Alr	
DATE COLLECTED	TIME	C O M P O S	G R A B		SAMPLE IDENTIFIER	M A T T R i X	CODES OF S	Sik Speific SYOCE TCL Volactifes	TED ANAL:	VSIS		REMARK	s	PARADIGM LAI SAMPLE NUMBER
5/9/23	9:45		X	-	E-3	W.	5 3	XX						
5/9/23	12:10		X		BR-3 BR-8	W		XX	1	H	-			
-19/23	12:35		Ŷ	0	W-16	W			+++	++	+			-
5/9/23	2:20		X		B-7	W					-			+
5/9/23	21.50		X	BR	-7A	h	6 3	XX						_
5 9 23	3:20		X	P	W-13	V	G 3	XX						
Turnaroun		nt upon la		Report Su	pplements al fees may apply.	1 0	1		<	-/9/	173			
tandard 5 day		None Re			None Required	Sampled By	1		Dat	te/Time		11.11	Total Cost:	
0 day	\boxtimes	Batch Q	•		Basic EDD	Rejinquishe	A Pho	2/	5/	9/2	3 "	1:11 pm		
						Repriquisine	12		ð9.	1M44/	12023	2		
ush 3 day		Category			NYSDEC EDD	Received By	to			te/Time 57	oh-		P.I.F.	_
lush 2 day		Category	В				-0	10 5.63		-	10)	70 (
lush 1 day					_	Received @	Lab By		Dat	te/Time		NA.		
Date Needed	ed	Other please indica	ate packa	ge needed:	Other EDD please indicate EDO needed :	By signing	this for	n, client agr	rees to Parac	digm Ter		Conditions (rev		
											See add	ditional page	for sample co	onditions.

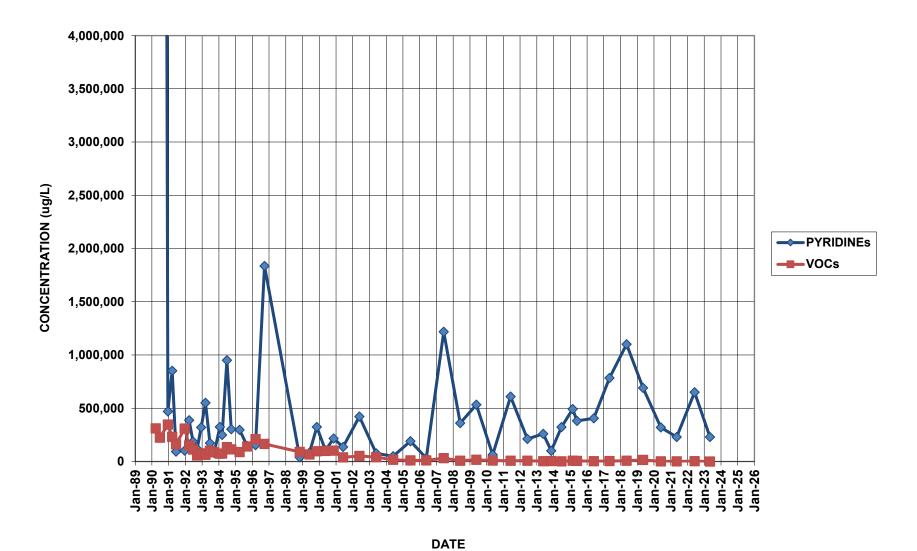
PAR	M		CLIENT: A	rch Ch	179 Lake A	<u>CH</u>	AIN C.	OF	CUST	Me XME				LAB PROJECT ID			
1	SALES OF SALES			PHONE: ROCK	ester	STATE:	4 ZIP (L	1603	CITY: PHONE:		S	TATE:	ZIP:		Quotation	n #:	
PROJEC	T REFER	RENCE	1	ATTN: DO	wid He	Mis			ATTN:		-						
201	3 5p1	Even	+		les: Aqueous Liquid Non-Aqueous L		WA - V	Water Groundwa	ter	DW - D WW - V	orinking Wat Wastewater	er	SO - So SL - Slu		SD - Solid PT - Paint	WP - Wipe CK - Caulk	OL - Oil AR - Air
5/10/23 5/10/23 5/10/23 5/10/23 5/10/23	TIME COLLECTED 9:155 9:55 9:55 11:35 12:30 1:40 根 2:45		G R A B	BR MI	SAMPLE IDE 2 - 101 2 - 102 - 103 - 9 1 - 106	ENTIFIER	V.	M CO TRUE S X X X X X X X X X X X X X X X X X X	NUMBER OF NO NO NO	XXXXXX Tack Wathies					REMAR	cs	PARADIGM LAB SAMPLE NUMBER
Standard 5 day		None Requ Batch QC	approv	eport Sup	plements I fees may appl None Require Basic EDD	ed _	Şample	2				5/1 Date/Tir	0/23 1/23	3:	30 pm	otal Cost:	
Rush 3 day Rush 2 day		Category A			NYSDEC EDI		Receive	ed By	0		5/14	Date/Tin	202	154	45 - P	J.F.	7
Rush 1 day Date Needed	1.0	Other please indicate	package i	needed	Other EDD please Indicate ED	D needed :		ed @ Lab		client agı	rees to Pa	Date/Tin	Terms		ditions (reve	erse).	ditions

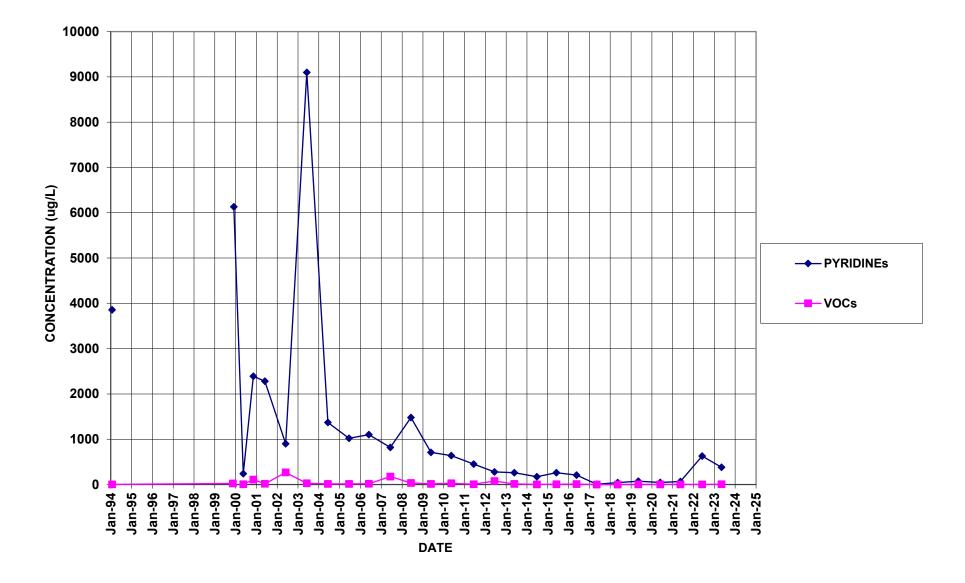
PAR	ADIG	М	AD		h Chemical Achee Rd PO Lues Cor ^{STATE}	5 In	C. 30705 14603	OF (CLIENT: ADDRESS CITY: PHONE:		Sem	e	ŽIP:	Quotatio	LAB PROJECT ID Quotation #:			
PROJECT 2023 Samp	1			atrix Cod	es: Aqueous Liquid Jon-Aqueous Liquid		Water Groundwate	ATTN:		Orinking Water Wastewater		SO - Soil SL - Sludge	SD - Solid PT - Paint	WP - Wipe CK - Caulk	OL - Oil AR - Air		
DATE COLLECTED	TIME	C O M P O S	G R A B		SAMPLE IDENTIFIER		M C A O T D R E I S X	NONTAINER OR	K Spaine Swell		AL COIS		REMARI	ĸs	PARADIGM LA SAMPLE NUMBER		
	B! 25 9:00	E	X	F	W17		WG WG	3	XX								
5/11/23	9:55		8	B	R-106		WG	3		X							
5/11/23	10:45 11:25		${\lambda}$	B	R-105D		WG	3									
5/11/23	1:50		X	B B	R-117D R-112D		WG WG	Ĭ	次								
Turnaround				The same of the	plements]		2				1.60	-				
	ity continger			l; additiona	I fees may apply.	Samp	oled By	7	K) 1	Jake/ I III			Total Cost:			
tandard 5 day	M	None Re			None Required Basic EDD	1 _	quished By	2	1	د	5/	11/2:	3 15:50				
ush 3 day		Category			NYSDEC EDD		11		-				(555				
ush 2 day		Category	В	×	1 7	Roce	Tur	ile	NH.	eli 1	Date/Tin	10 23	75.1615	P.I.F.	12.		
lush 1 day				, .	10.00	Rece	ived @ Lab	Ву			Date/Tin	ne		L			
late Needed		Other please indica			Other EDD								d Conditions (rev				

CITY: O oche STATE:	TUC CLIENT 14603 ADDRE	T: SeMC STATE:	ZIP:	LAB PROJECT ID		
Matrix Codes:	PHONE ATTN:			Email:		
AQ - Aqueous Liquid NQ - Non-Aqueous Liquid	WA - Water WG - Groundwater	DW - Drinking Water WW - Wastewater	SO - Soil SL - Sludge	SD - Solid WP - Wipe PT - Paint CK - Caulk	OL - Oil AR - Air	
SAMPLE IDENTIFIER	X S CE	1 D K	YSSE	REMARKS	PARADIGM L SAMPLE NUMBER	
BR 118D BR 113D BR 122D	WG 1					
BR 123 D	WG 1	X				
QĎ-1 Q5-4	VG 3	XXX				
Report Supplements	1 0/16		5/17/73	- / <u>-</u>		
	Sampled By Rekinquished By	6 5	112/23	Total Cost:		
NYSDEC EDD	Redelved By	I NACL Da	7[12]23 te/Time	NO P.I.F.		
	Matrix Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid NO - Non-Aqueous Liq	Matrix Codes: Mac Ade Aqueous Liquid NQ - Non-Aqueous Liquid NQ - Non-Aqueous Liquid NQ - Groundwater SAMPLE IDENTIFIER SAMPLE IDENTIFIER WA - Water WG - Groundwater WG - Groundwater NO R P E N N O R P E N N O R N O	Matrix Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid NO - Non-Aqueous Liquid NO - Non-Aqueous Liquid NO - Non-Aqueous Liquid Non-Aqueous Liquid NO - Non-Aqueous Liquid	Matrix Codes: AC - Aqueous Liquid MA - Water WG - Groundwater May - Wastewater WG - Groundwater May - Wastewater WG - Groundwater WG - Gro	ATTH: Matrix Codes: AQ - Aqueous Liquid NO - Non-Aqueous Liquid NO - Non-Aque	

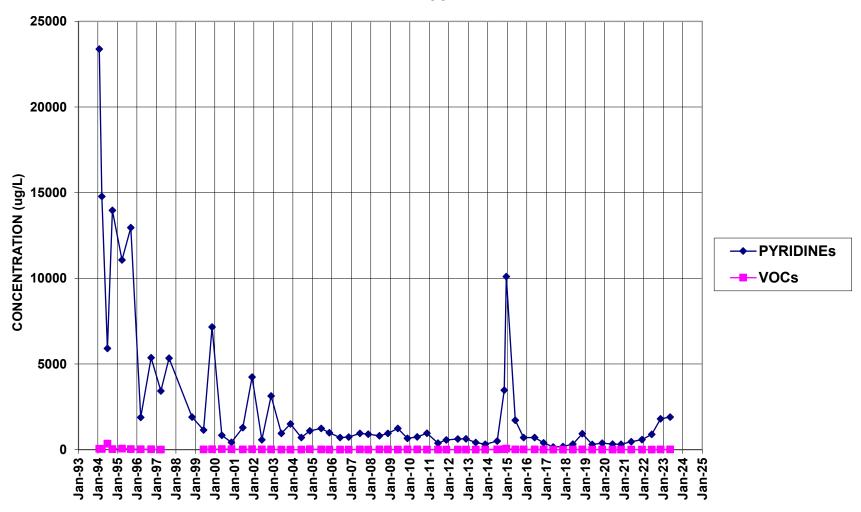
Appendix B

Well Trend Data

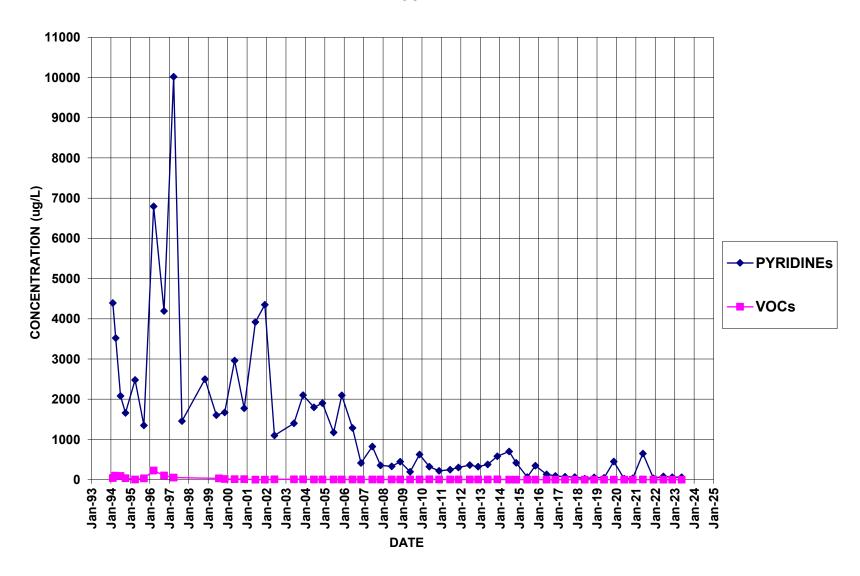




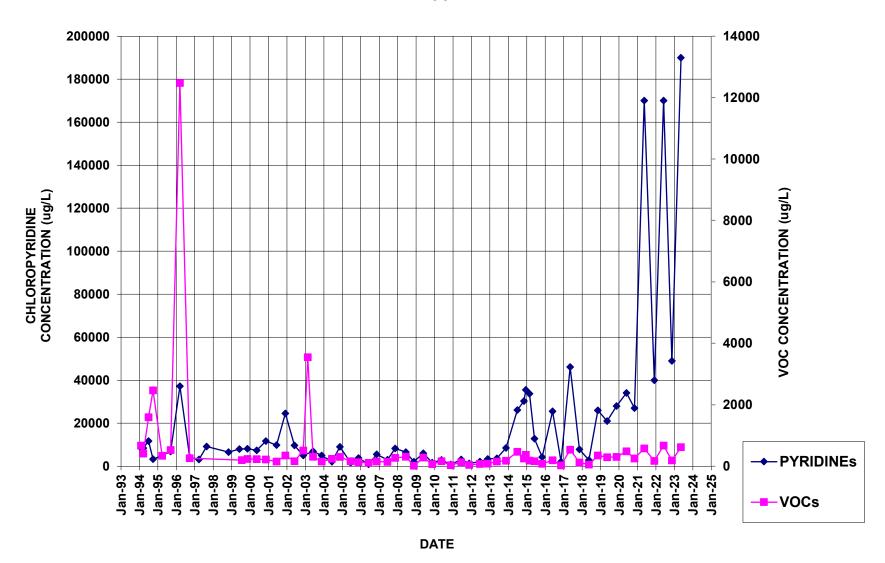




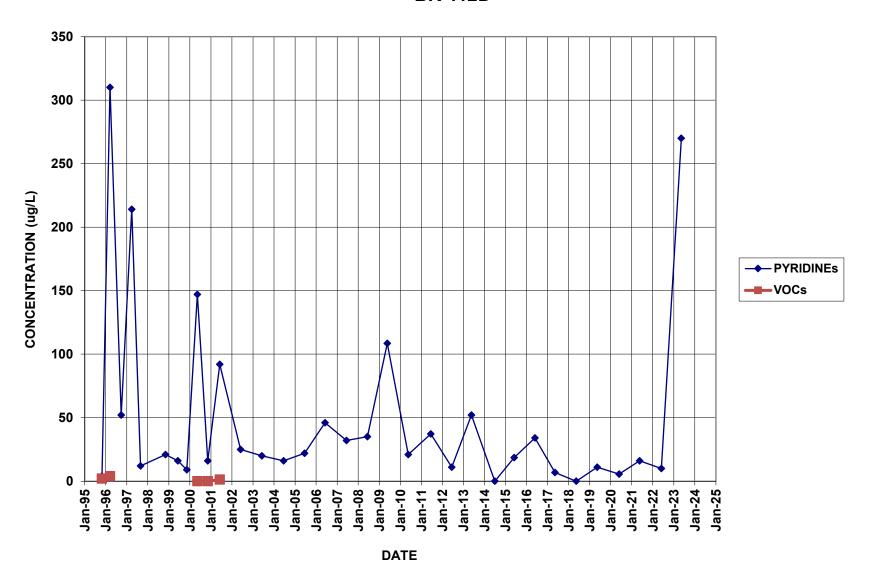
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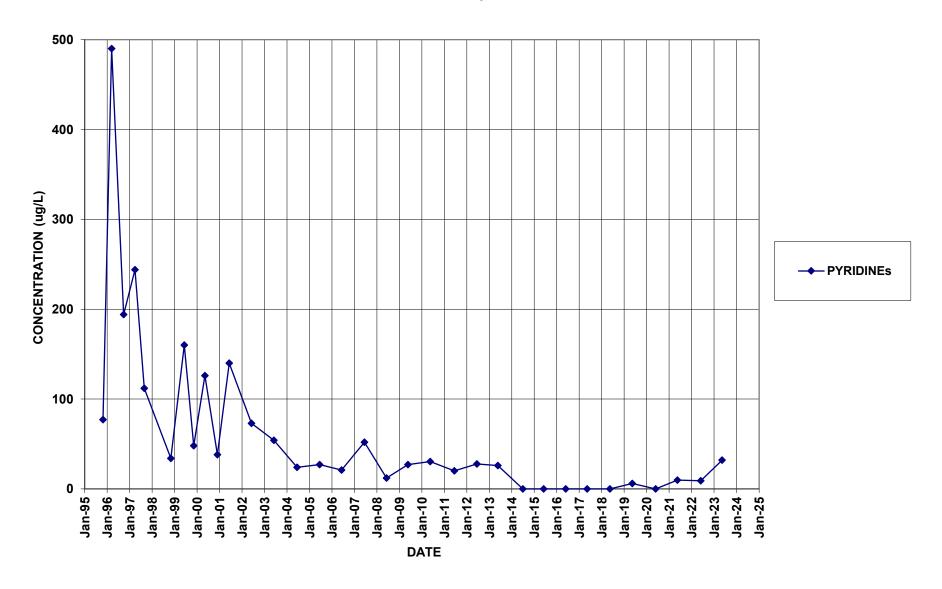
BR-106



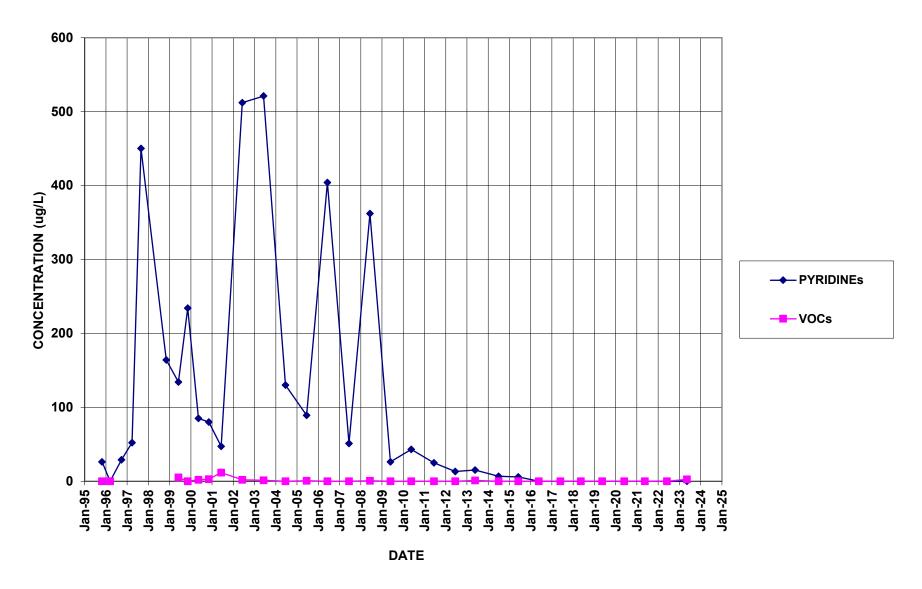
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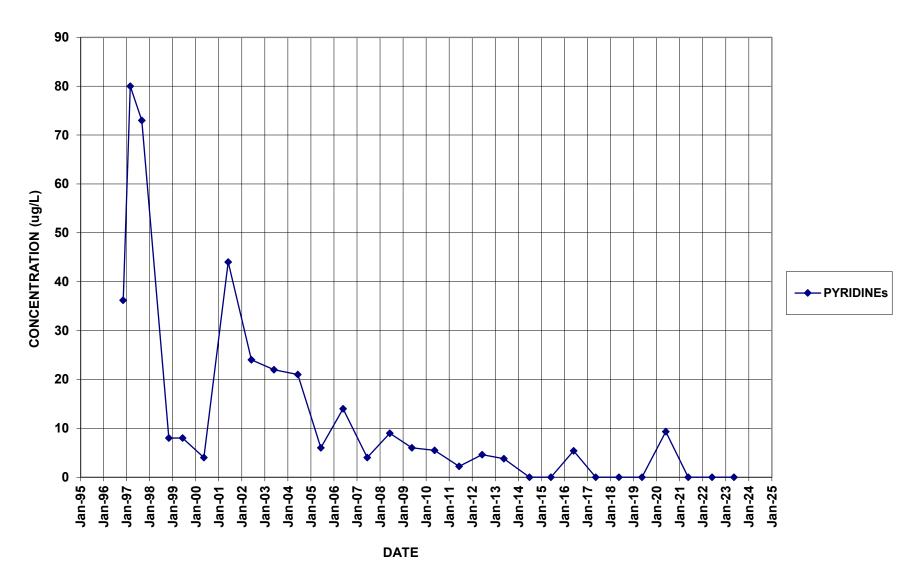
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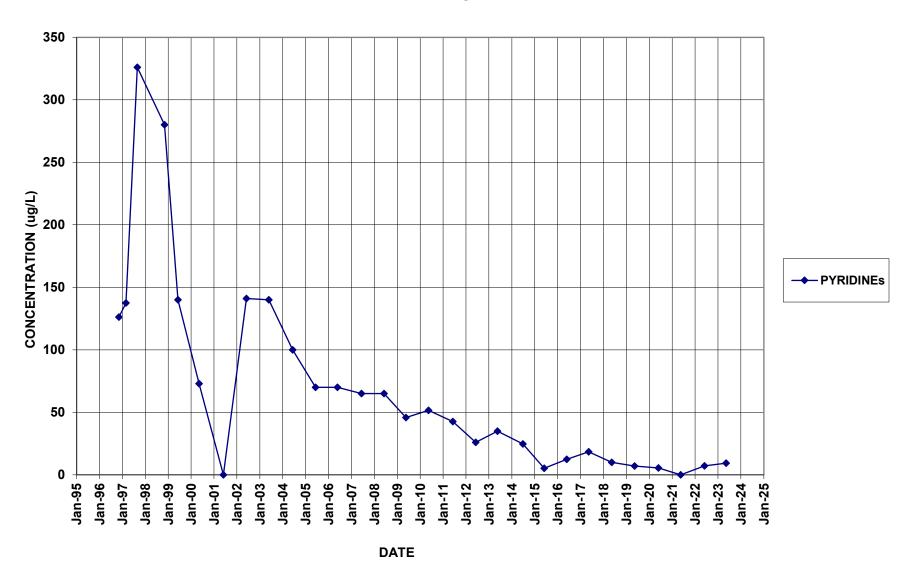
BR-114



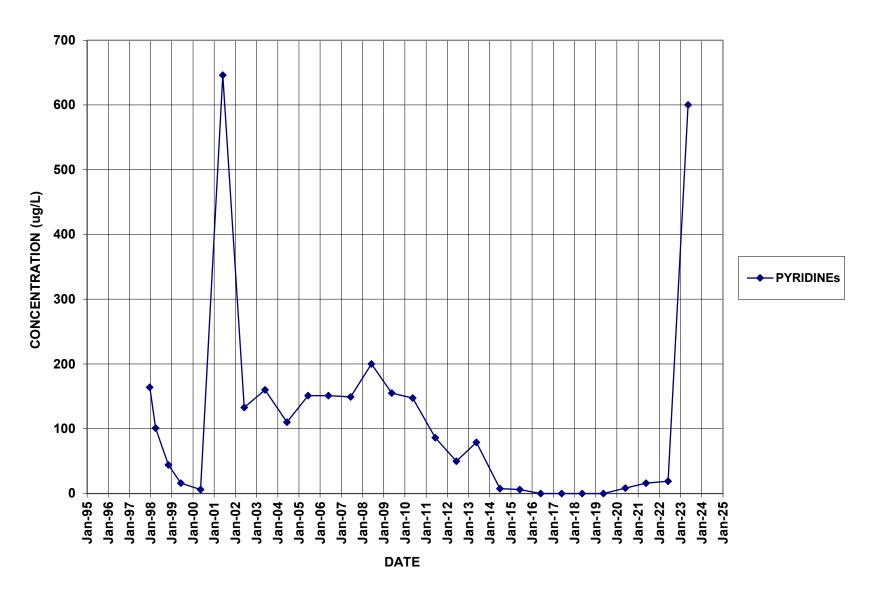
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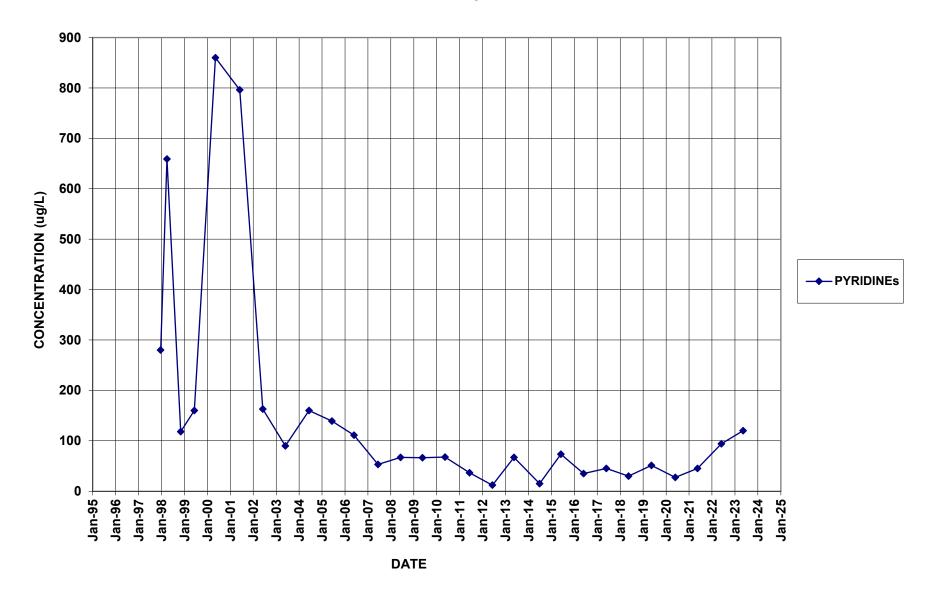
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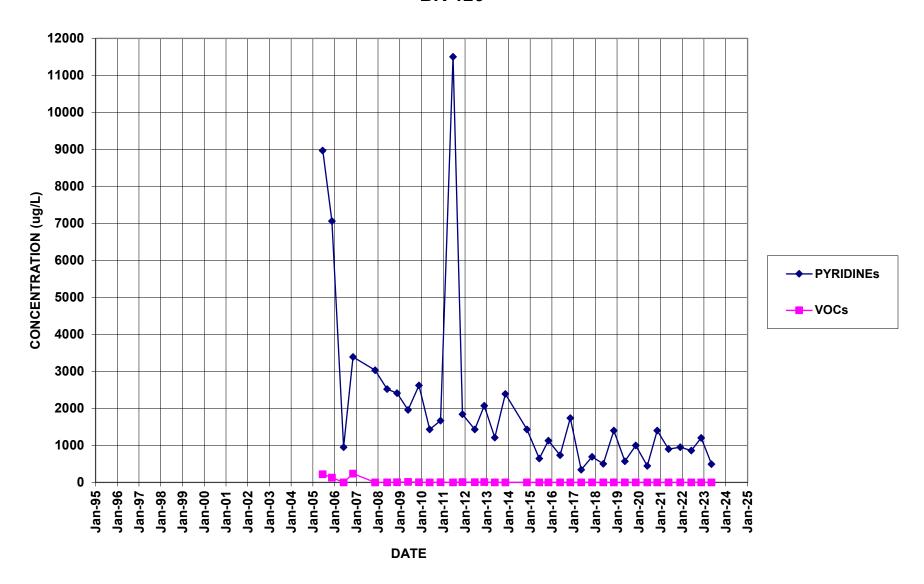
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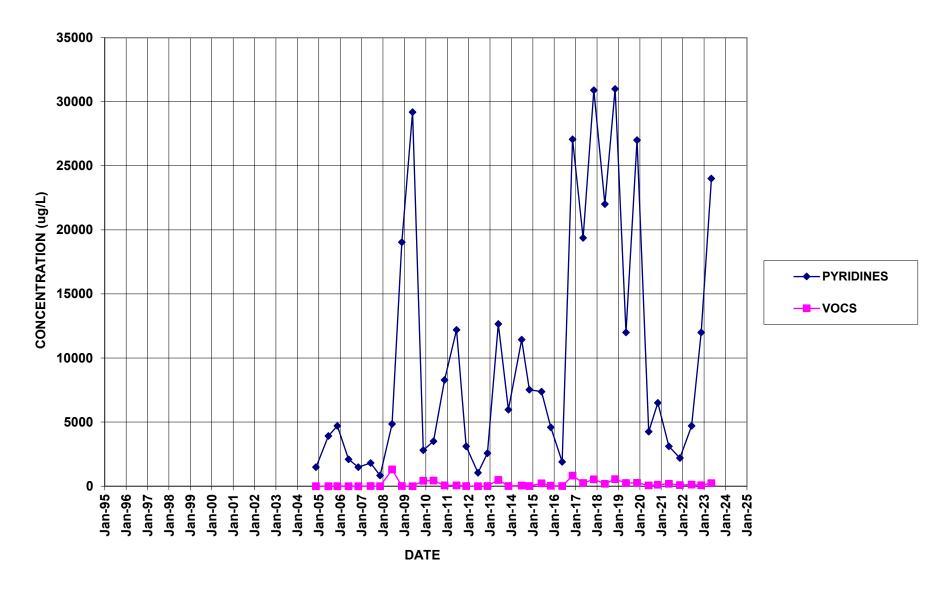
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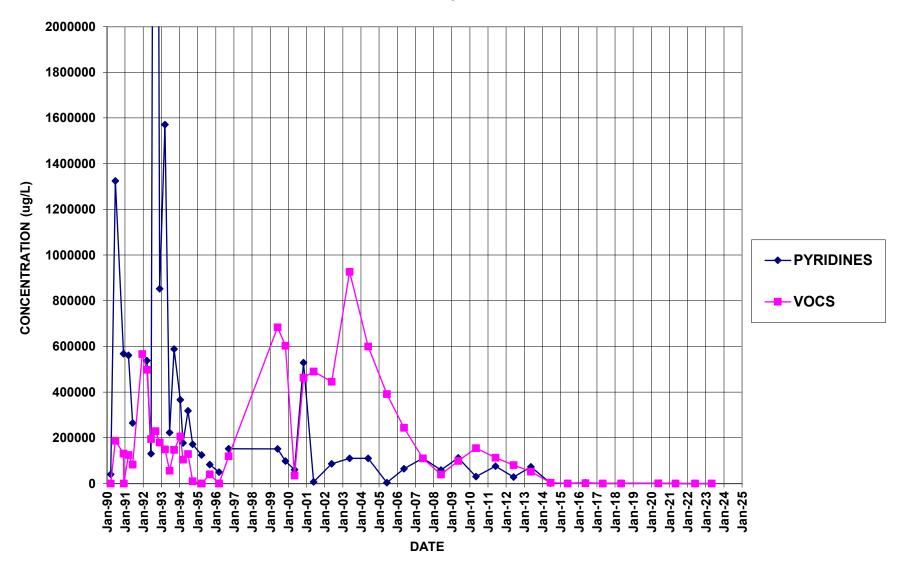
BR-126



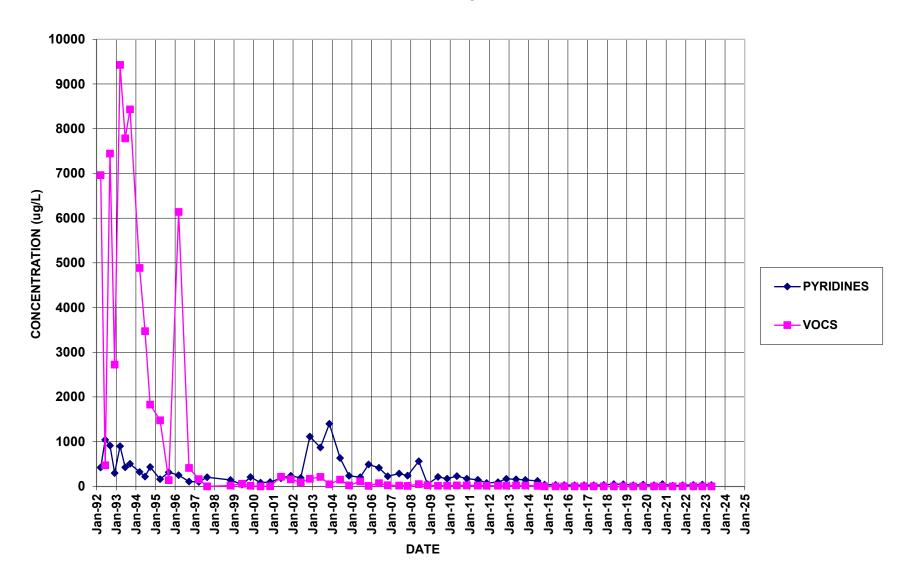
BR-127



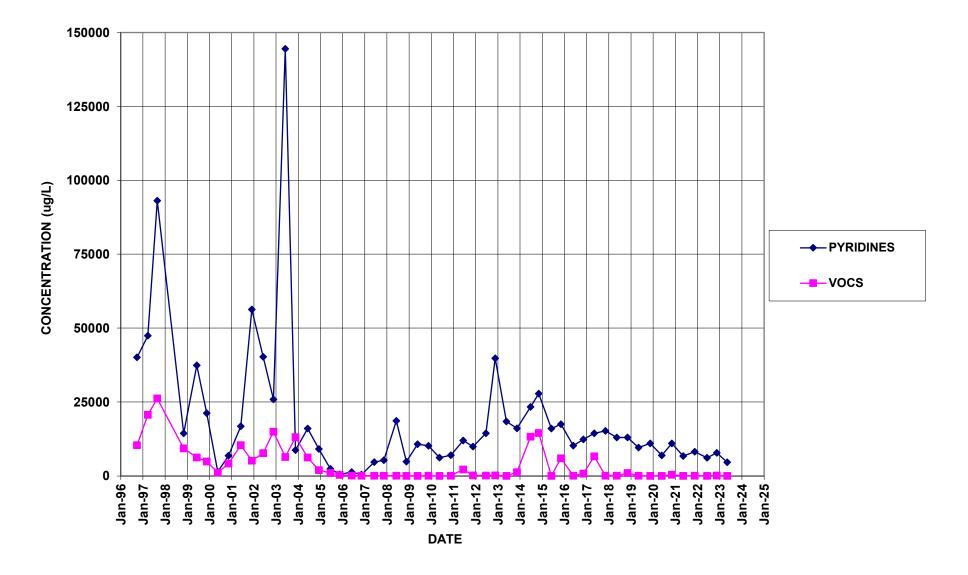


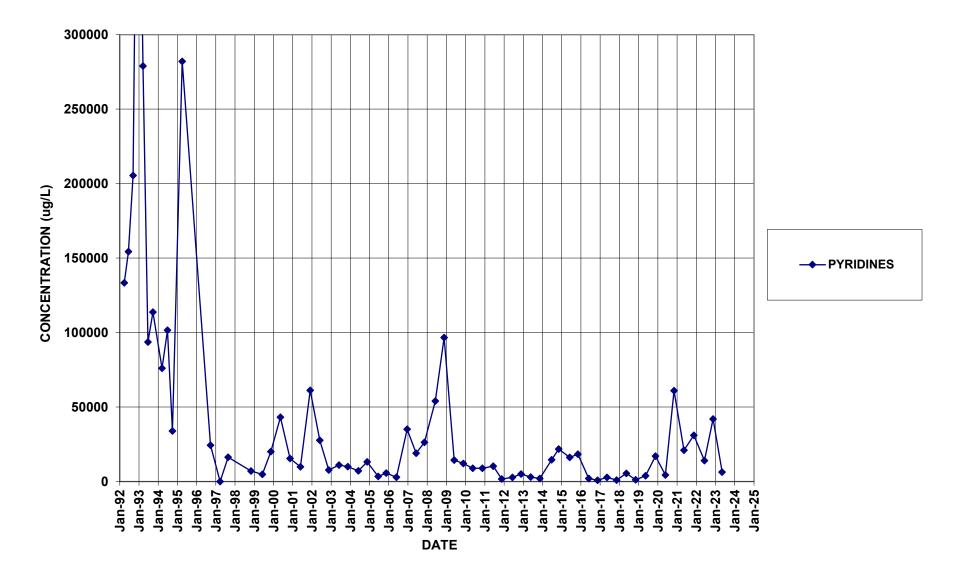


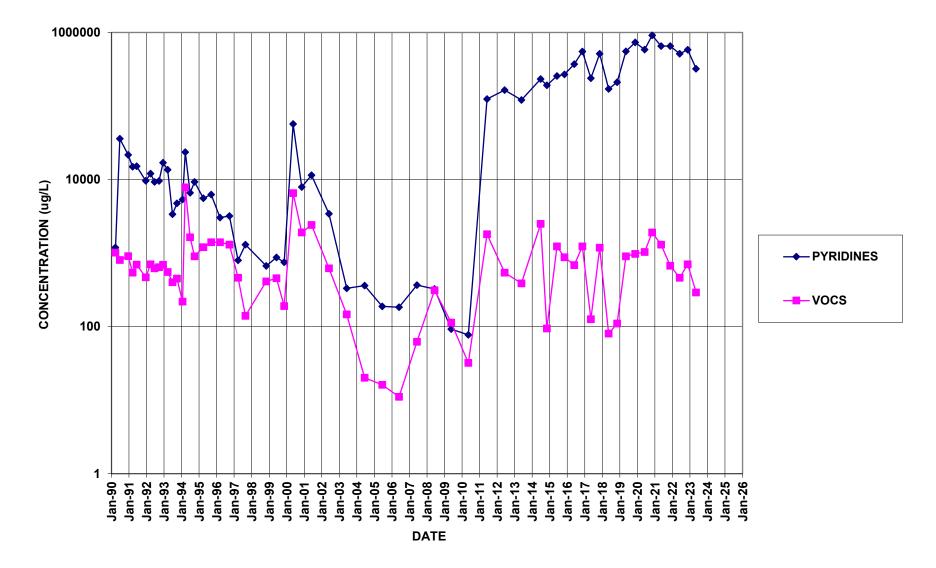
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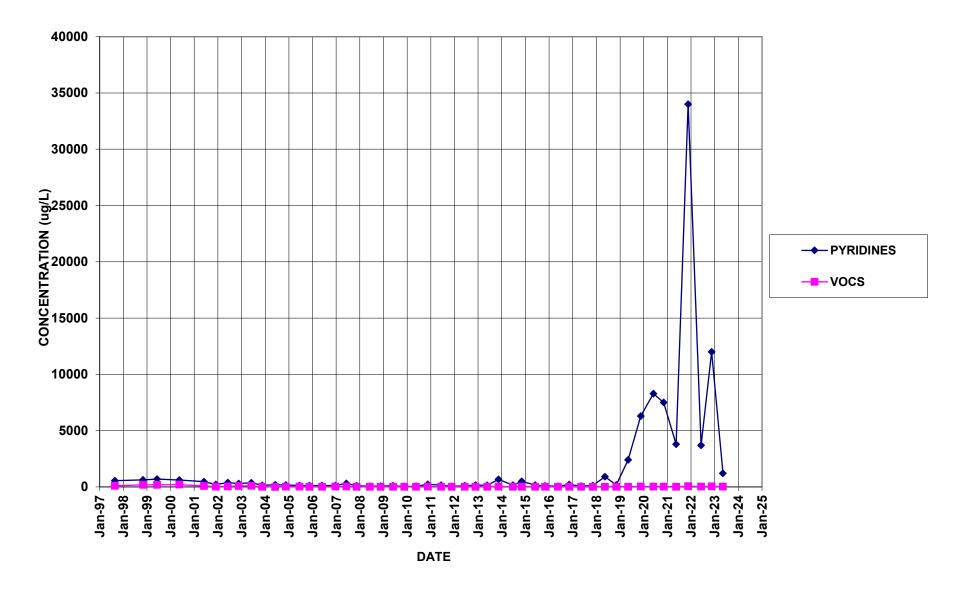


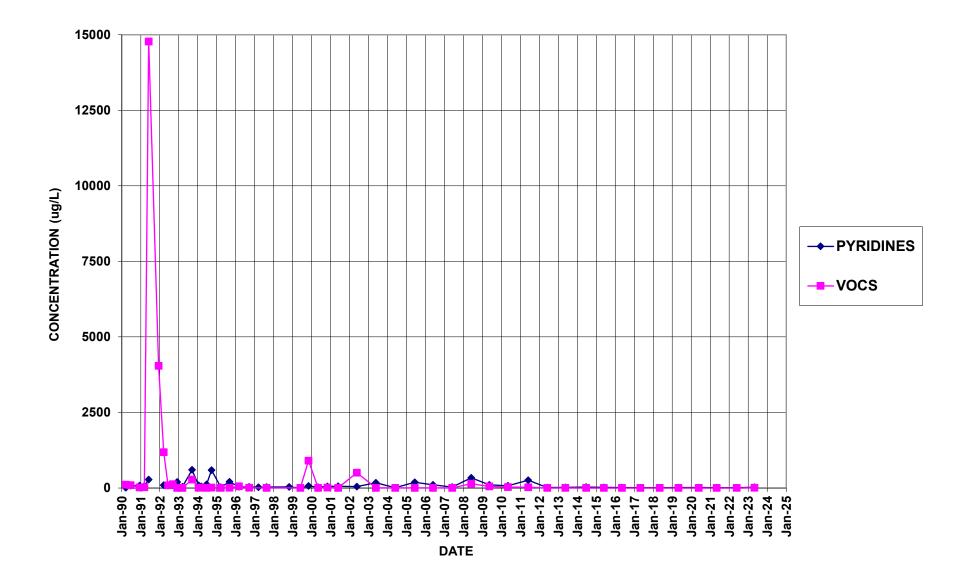
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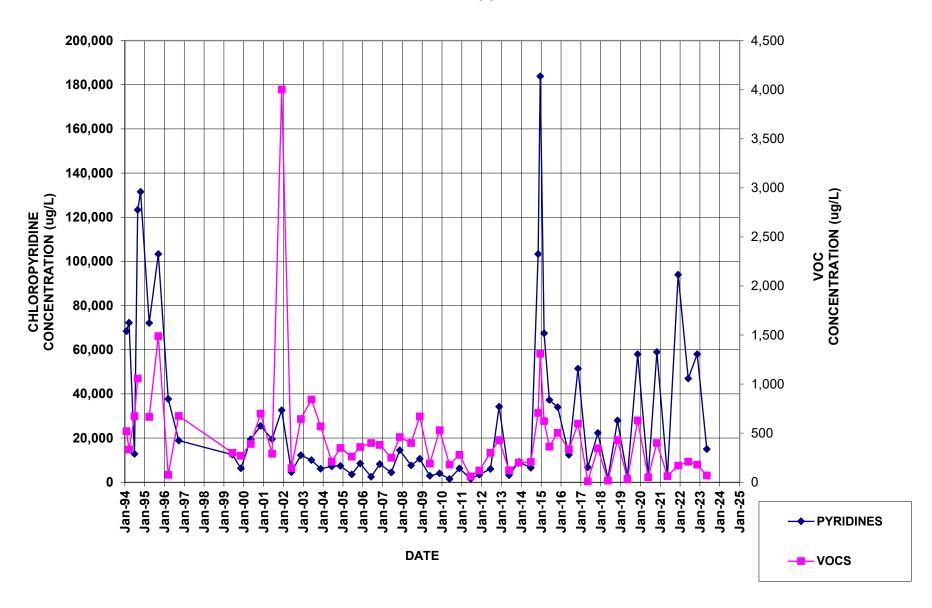




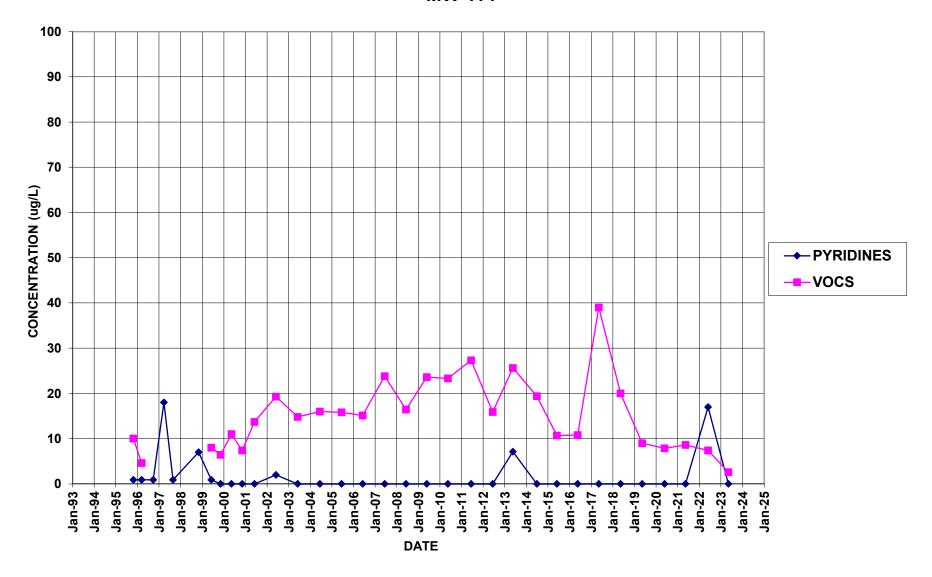




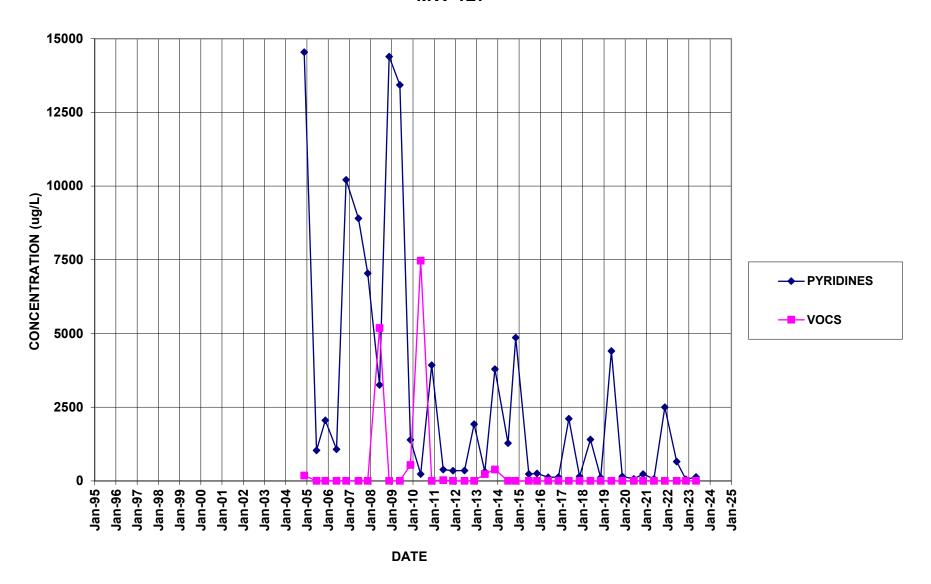
MW-106



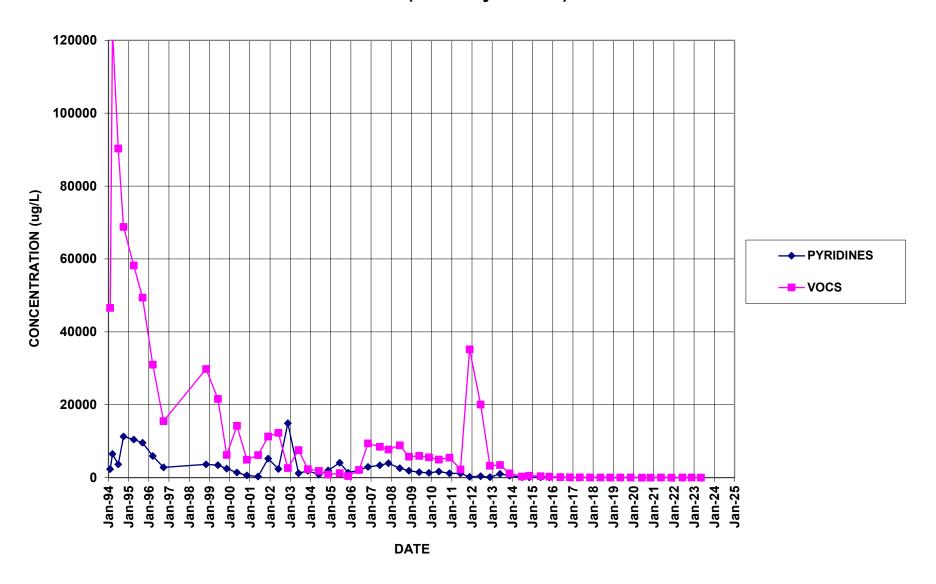
MW-114



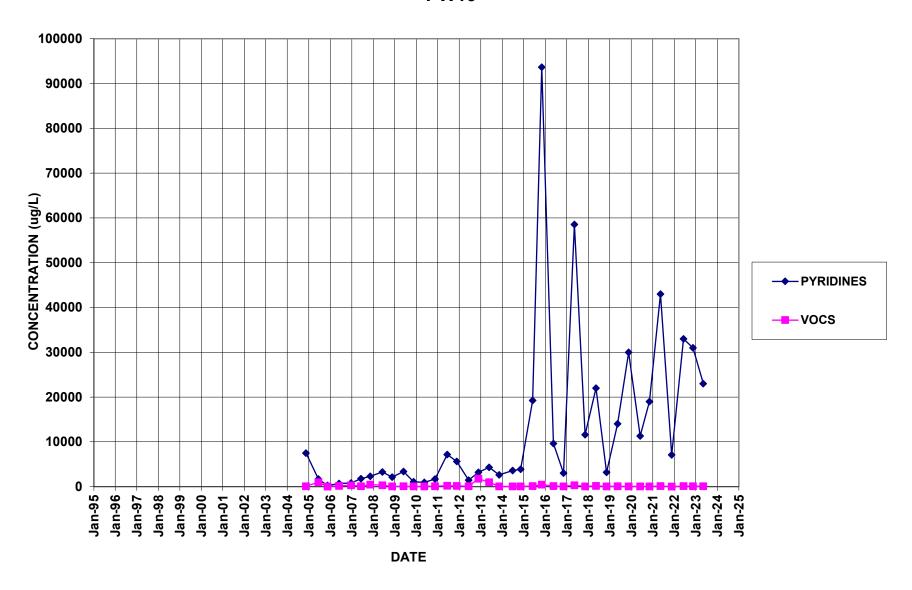
MW-127



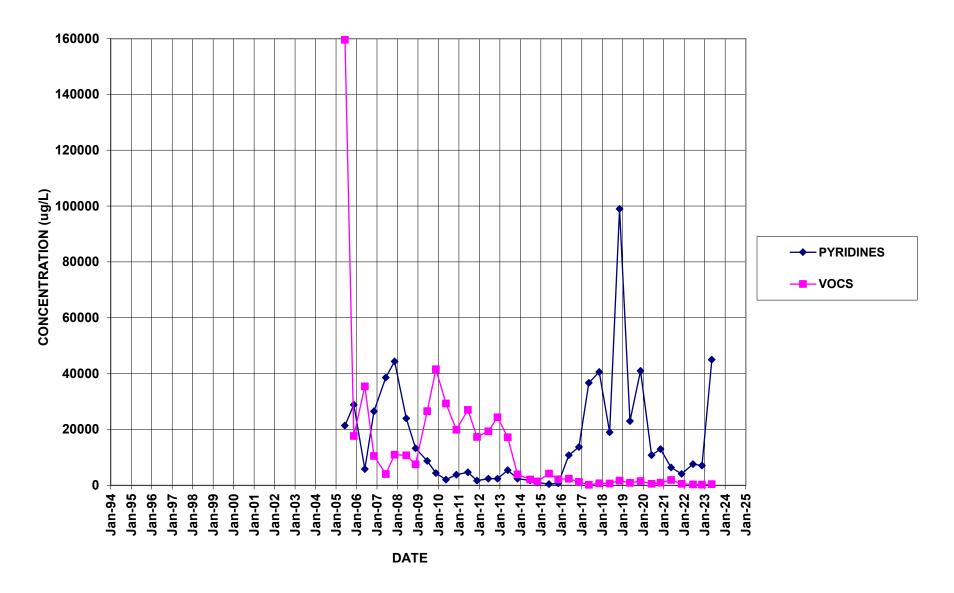
PW12 (Formerly BR-101)



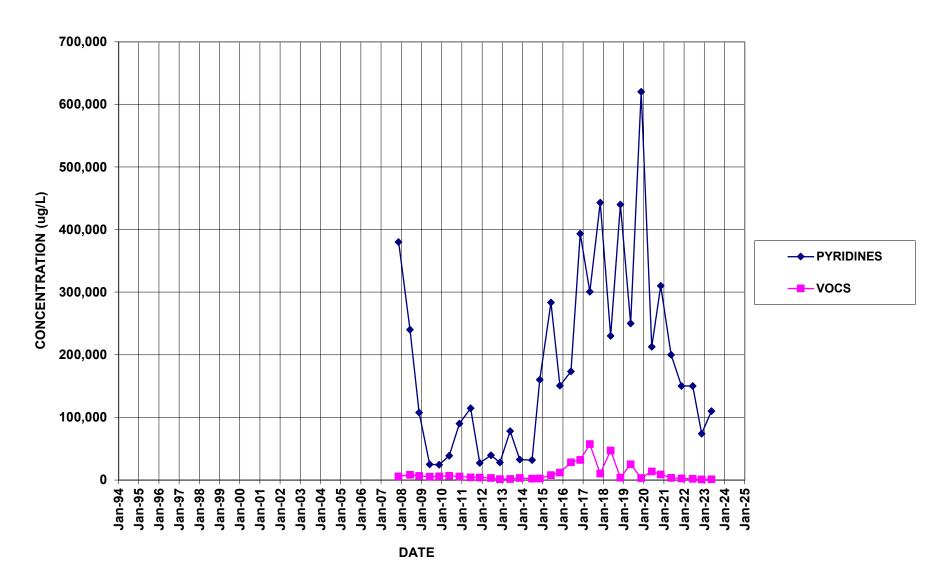
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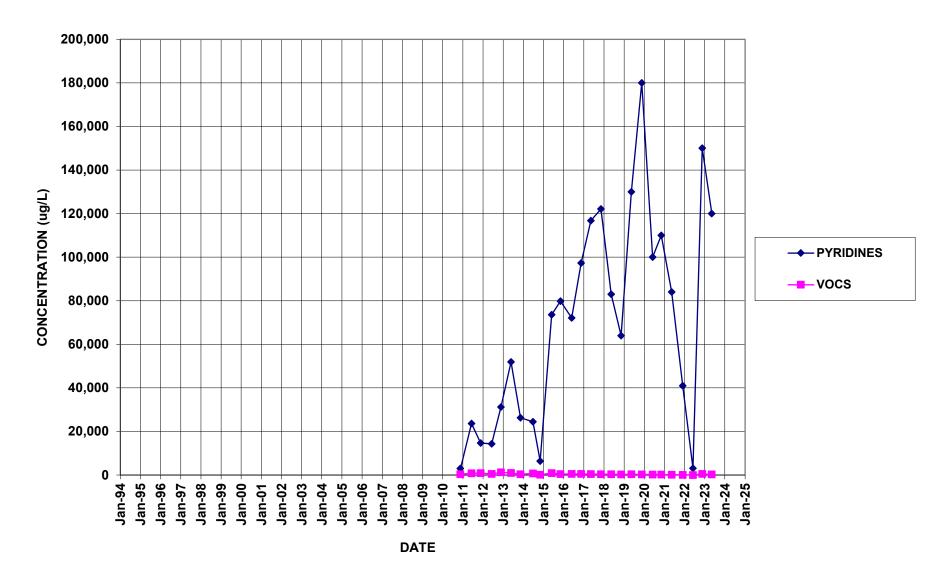
PW14



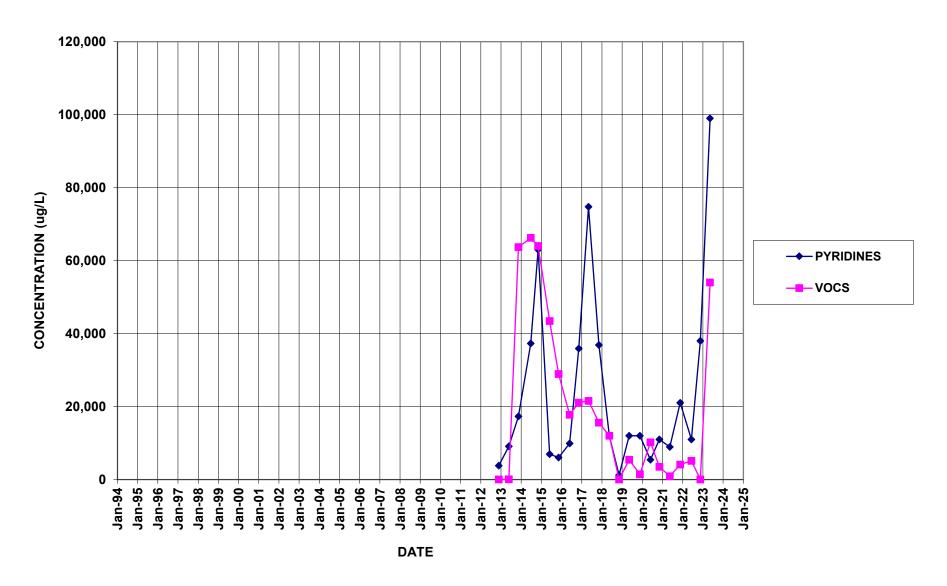
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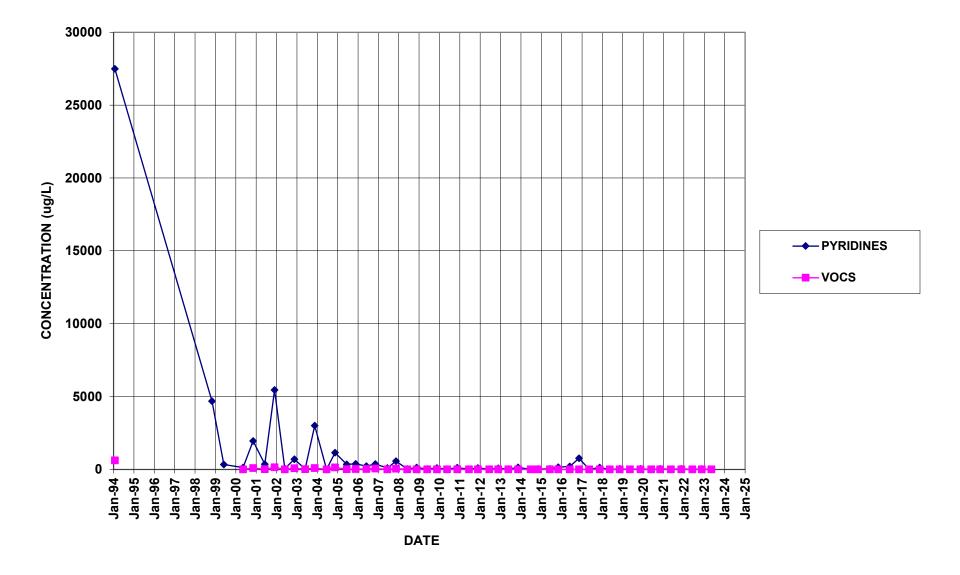


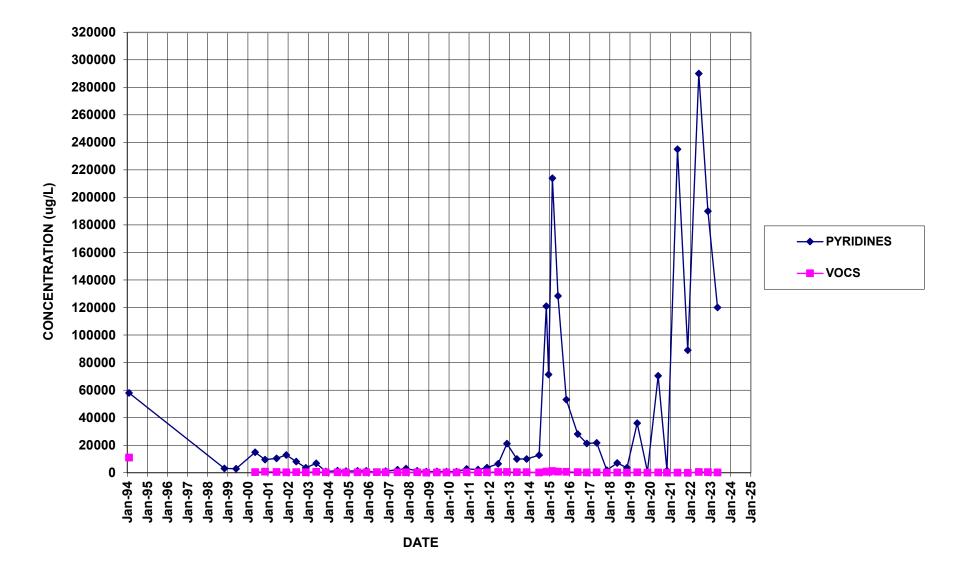
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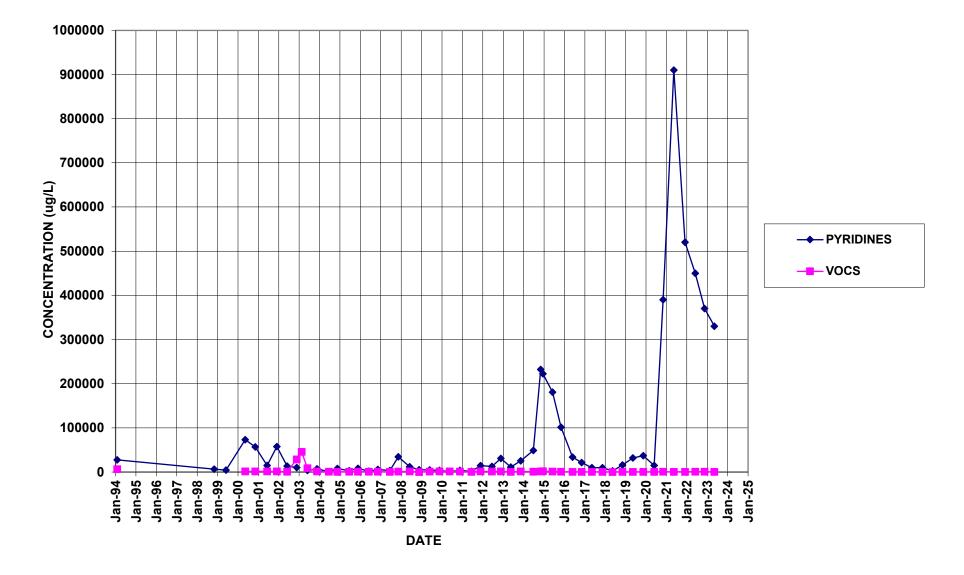


PW17

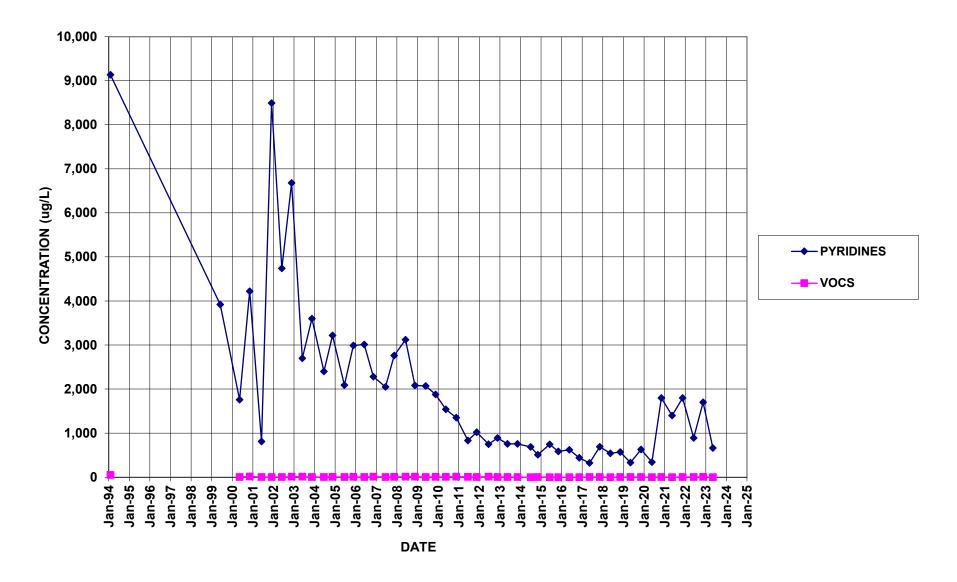


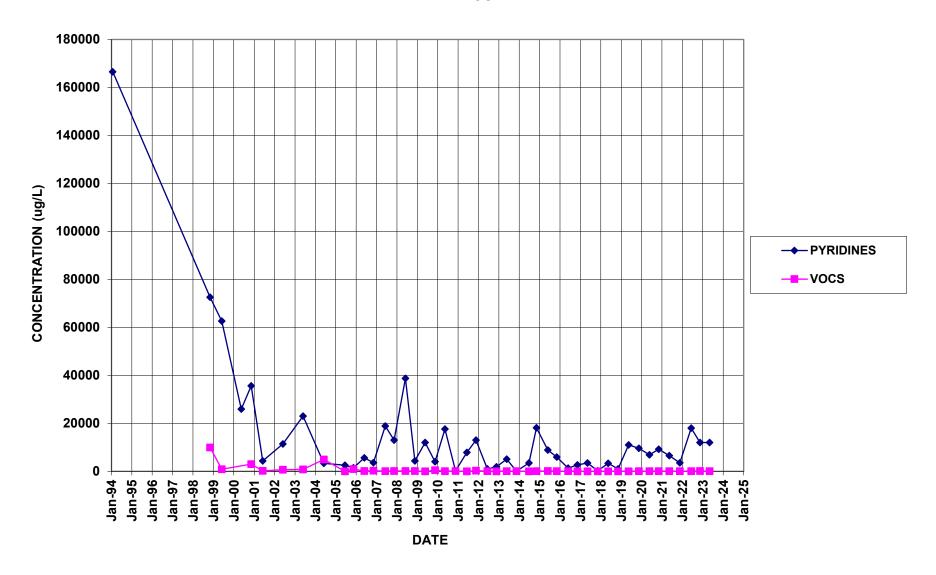


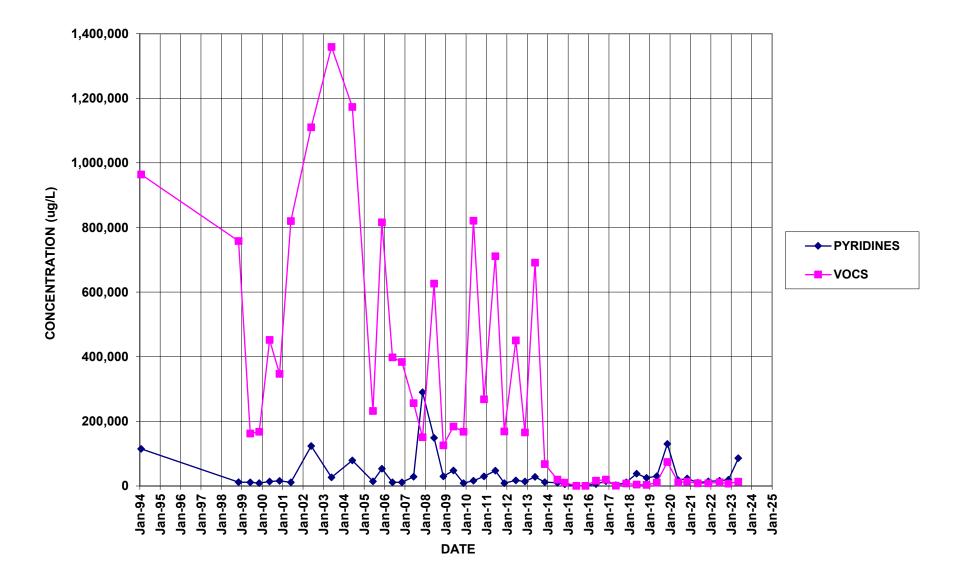


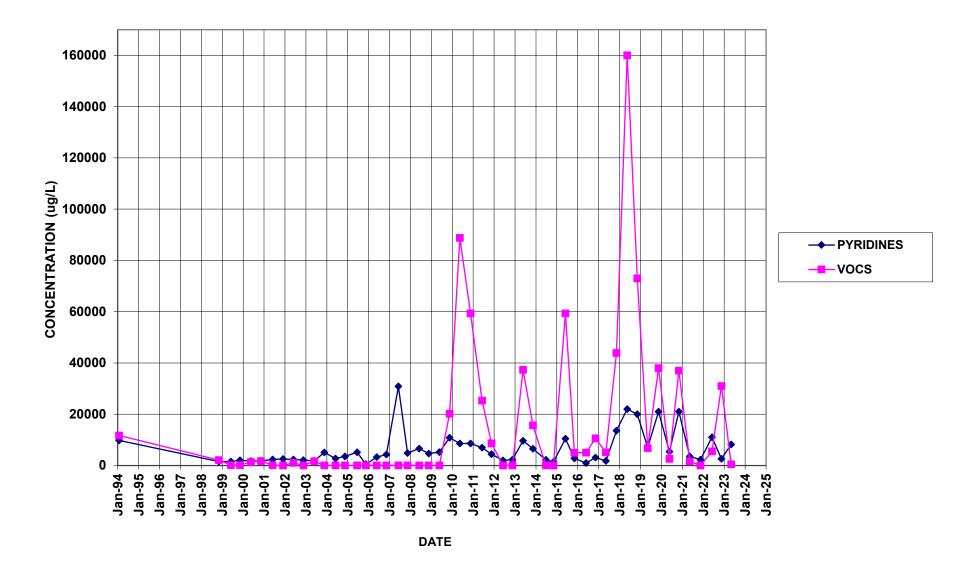


PZ-104

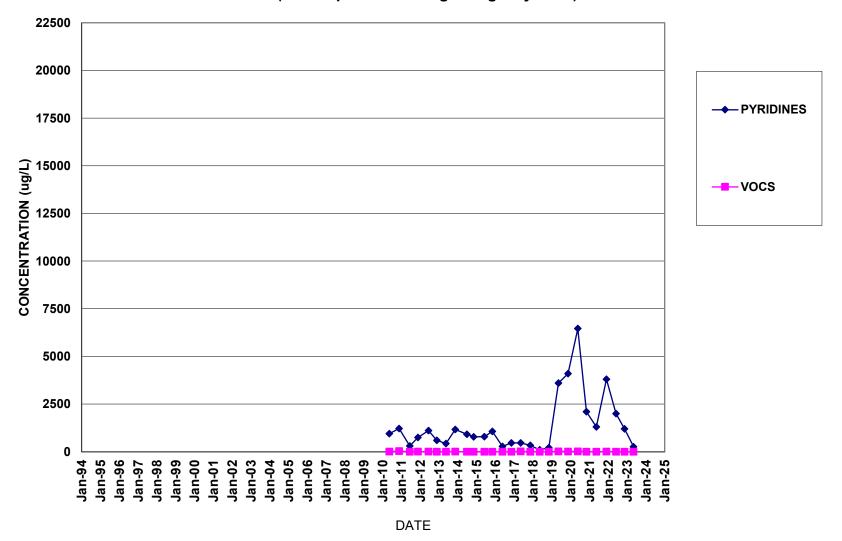




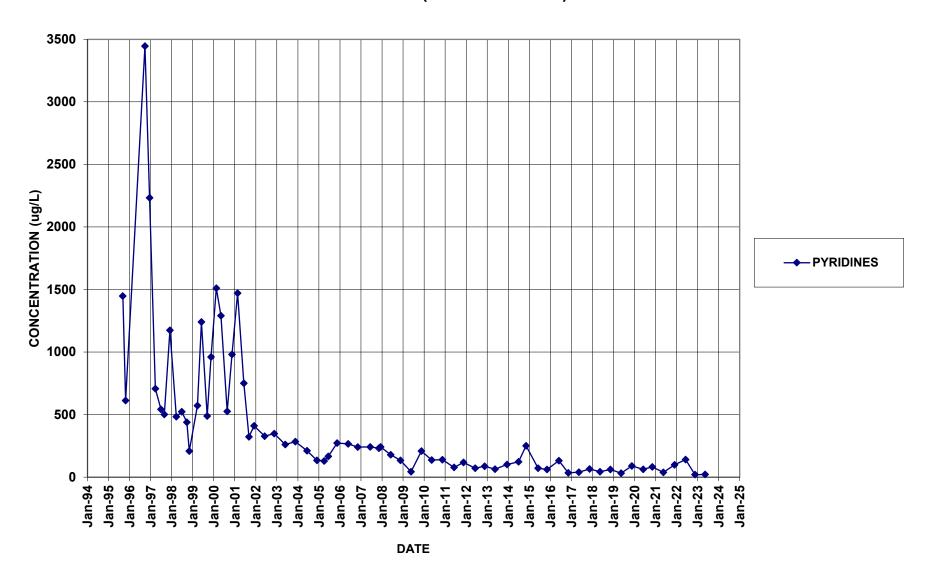




B-16 (B-16 replaced S-3 beginning May 2010)



QS-4 (QUARRY SEEP)



QO-2 (QUARRY OUTFALL)

